

**Remedial Investigation/Feasibility Study  
Revision 1**

Stubblefield  
595 Offner Road  
Walla Walla, Washington

for  
**Washington State Department of Ecology**

August 5, 2020



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Walla Walla, Washington**

**File No. 0504-139-00**

**August 5, 2020**

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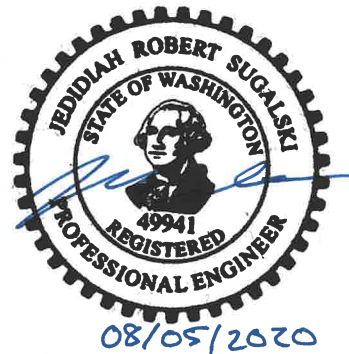
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## ACRONYMS AND ABBREVIATIONS

ARAR – Applicable or Relevant and Appropriate Requirements  
BEHP – bis(2-ethylhexyl)phthalate  
bgs – below ground surface  
CAP – Cleanup Action Plan  
COC – contaminants of concern  
cPAH – carcinogenic polycyclic aromatic hydrocarbon  
CRBG – Columbia River Basalt Group  
CSEM – conceptual site model  
CUL – cleanup level  
CY – cubic yards  
DCA – Disproportionate Cost Analysis  
DEP – diethylphthalate  
DOH – Department of Health  
DRPH – diesel-range petroleum hydrocarbons  
EE/CA – engineering evaluation and cost analysis  
Ecology – Washington State Department of Ecology  
EPA – United States Environmental Protection Agency  
ft/day – feet per day  
IHS – indicator hazardous substances  
MCL – maximum contaminant level (drinking water standard)  
MDL – method detection limit  
mg/kg – milligrams per kilogram  
MRL – method reporting limit  
MTCA – Model Toxics Control Act  
PAH – polycyclic aromatic hydrocarbons  
PCB – polychlorinated biphenyl  
PCE – tetrachloroethene  
PID – photoionization detector  
RAO – Remedial Action Objective  
RI/FS – remedial investigation/feasibility study  
RSL – residential screening level (EPA criteria)  
SL – screening level  
SVOC – semi-volatile organic compounds  
TCE – trichloroethylene  
TEE – terrestrial ecological evaluation  
TPH – total petroleum hydrocarbons

## **ACRONYMS AND ABBREVIATIONS (CONTINUED)**

USGS – Unites States Geological Survey

VOC – volatile organic compound

WAC – Washington Administrative Code

WM – Waste Management

XRF – X-ray fluorescence toc

## EXECUTIVE SUMMARY

The former Stubblefield Salvage Yard (site), located at 595 Offner Road in Walla Walla, Washington and comprising about 11 acres, operated for decades as a recycling facility and salvage yard. The operations accepted and processed a variety of materials including vehicles, drums, appliances, transformers, structural metal, agricultural equipment, batteries and spent aluminum casings. Based on the potential for environmental concerns associated with the salvage yard, the Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and other agencies conducted numerous inspections, assessments, investigations and removal actions between 1999 and 2013. Several environmental concerns were documented during site inspections: improper handling of used oil, batteries, incinerator ash, and automotive fluids; spilled hydraulic fluids and stained soil; numerous uncovered drums (some bulging); leaking storage tanks; crushed or damaged batteries; and unpermitted burning of waste.

The EPA conducted two time-critical removal actions between 2009 and 2013 removing spent batteries, bulging drums, tanks, hazardous materials (sludges, oils, paint wastes, flammable liquids, etc.), asbestos panels, about 14,000 tons of contaminated soil, and other materials. Concurrent site assessment and investigation activities indicated several contaminants of concern (COCs) were present in soil or groundwater, including metals, polycyclic aromatic hydrocarbons (PAHs), semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), pesticides and petroleum hydrocarbons.

In 2018, Ecology retained GeoEngineers to conduct a Remedial Investigation/Feasibility Study (RI/FS) at the site to address data gaps following the prior removal actions. The remedial investigation included developing a Work Plan, drilling or excavating 51 explorations including four groundwater monitoring wells, and collecting and analyzing more than 100 soil and groundwater samples. Results of the remedial investigation indicate shallow soil (generally between ground surface and about 3 feet below grade) is contaminated with metals (cadmium, chromium, copper, lead and zinc) and PAHs in several locations at the site. The remedial investigation also documented smaller and isolated areas of PCBs and petroleum hydrocarbon contamination in shallow soil. An estimated 20,800 cubic yards of contaminated soil are located on about 3.5 acres of the site. This includes approximately 1,980 cubic yards of PCB and petroleum hydrocarbon contamination located on about 0.3 acres. Remedial investigation data indicate groundwater is not contaminated at the site.

During the feasibility study, three cleanup alternatives were considered and evaluated in compliance with the Model Toxics Control Act to address soil contamination at the site. The alternatives were:

- Alternative 1, Complete Excavation
- Alternative 2, Excavation, Consolidation and Capping
- Alternative 3, Limited Excavation and Selective Capping

The preferred alternative (Alternative 2) includes: excavating PCB and petroleum hydrocarbon contaminated soil and disposing this soil off-site at a licensed landfill; excavating the remaining contaminated soil and consolidating it in a low elevation area in the north portion of the site; capping the consolidated soil area (about 1.9 acres) with clean import material; and instituting restrictive covenants at the site to protect human health and the environment. The estimated cost of this alternative is \$807,000.

*This Executive Summary should be used only in the context of the full report for which it is intended.*

## 1.0 INTRODUCTION

This document presents the results of the Remedial Investigation/Feasibility Study (RI/FS) conducted at the Stubblefield Salvage Yard (herein referred to as the site) located at 595 Offner Road west of Walla Walla, Washington (Figure 1, Vicinity Map). The site is owned by Konen Properties, LLC (Konen) of Milton-Freewater, Oregon, and currently not occupied. Konen Properties, LLC reportedly plans to construct a mixed multi-family residential/commercial development at the site.

Soil and groundwater contamination have been documented during previous assessments conducted for the U.S. Environmental Protection Agency (EPA) (Ecology & Environment [E&E] 2012, 2013 and 2014). Concentrations of metals, polychlorinated biphenyls (PCBs) polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons and volatile organic compounds (VOCs) have been measured in soil and groundwater at concentrations exceeding state and federal standards for protection of human health and the environment. EPA conducted two removal actions at the site; however, not all contamination was removed.

This RI/FS report has been prepared by GeoEngineers for the State of Washington Department of Ecology (Ecology) under the Department of Enterprises Services' Master Contract No. 05014, Ecology Contract No. C1900046, work request number WR 1900 TCP to assess contamination from historical activities at the site. The RI/FS summarizes historical investigations and cleanup activities and evaluates several cleanup action alternatives for the site based on historical data and the additional assessment conducted in 2018 and 2019.

This RI/FS satisfies Model Toxics Control Act (MTCA) requirements and generally follows Ecology's RI and FS outlines (Ecology 2016). Data from previous investigations are summarized, recent soil and groundwater monitoring results are presented, and a conceptual site model is developed within the RI portion of this document to support the development of cleanup alternatives and identification of a preferred alternative in the FS portion of this document.

### GENERAL SITE INFORMATION

Site Information	Description
Site Name	Stubblefield Salvage Yard.
Site Address	595 Offner Road, Walla Walla, Washington
Ecology Regional Office	Eastern Region, 4601 North Monroe Street, Spokane, Washington 99205
Ecology Site Manager	Katie Larimer
Consultant	GeoEngineers, Spokane, Washington
Potentially Liable Person	Konen Properties/Stubblefield Trust
Current Owner	Konen Properties
Ecology Facility/Site ID	1367331
Cleanup Site ID	4121
Latitude/Longitude	46.06461, -118.36772

## 2.0 SITE DESCRIPTION AND BACKGROUND

The 11-acre Stubblefield site (Figure 2, 2018 Explorations and Cross Section Locations) represents the remaining portion of a former 40-acre site that operated as a salvage yard from about 1950 to 2010 (it initially operated as a fat-rendering plant for about 5 years prior to 1950).

The site is located about 1½ miles west of downtown Walla Walla. Mill Creek, which flows west, is located directly north of the site and Myra Road comprises the western site boundary. Properties to the east and south are rural-residential with some agricultural use. Elevations at the site range from about 857 to 866 feet above mean sea level.

The original site consisted of a residence built in 1950 (later converted to an office) on the eastern boundary of the site and a main processing area in the north-central part of the site that included a shop, kiln, shear (cutter) and baler. Salvage materials were stored throughout the site and included scrap metal and liquid wastes.

In 1995, Walla Walla County purchased the western half (20 acres) of the site to construct a wastewater treatment plant. Salvage materials of the western half of the site were removed and consolidated on the eastern half of the site as part of the property transfer. The County acquired an additional 9 acres in 2008 to construct Myra Road on the western boundary of the current site. Again, salvage materials were removed from the purchased parcel and consolidated on the remaining parcel that continued to operate as a salvage and recycling facility.

When operating, the facility received scrap metal in the form of vehicles, drums, appliances, transformers, structural metal, agricultural materials (e.g., irrigation pipe, equipment), batteries, spent aluminum casings, cans and other materials. These materials were crushed and/or cut into smaller pieces using acetylene torches or a hydraulic shear and bundled for sale as scrap metal. Materials that could not be sold were disposed.

Numerous inspections, assessments, investigations and removal actions occurred at the site between 1999 and 2013, which are documented in the Final Removal Action Report for the Stubblefield Salvage Yard Site (E&E 2014). During site inspections, the following activities and observations were documented: improper handling of used oil, batteries, incinerator ash, and automotive fluids; spilled hydraulic fluids and stained soil; numerous uncovered drums (some bulging); leaking storage tanks; crushed or damaged batteries; and unpermitted burning of waste. Site assessment and investigation activities indicated a number of contaminants of concern (COCs) were present in soil or groundwater, including metals, PAHs, other semi-volatile organic compounds (SVOCs), VOCs, pesticides, PCBs and petroleum hydrocarbons such as diesel and motor oil, based on exceedances of EPA residential screening levels (RSL) and/or MTCA cleanup criteria.

The EPA initiated multiple time-critical removal actions between October 2009 and May 2013 to mitigate uncontrolled drums, excavate contaminated soil and remove asbestos-containing material. Additional details are provided in Section 4.2.

The EPA removal actions targeted the areas that were significantly contaminated. However, other areas of the site had documented contamination or were not assessed. Furthermore, following the removal action in 2013, several confirmation samples collected at the perimeter of the excavation contained COCs at

concentrations exceeding MTCA cleanup criteria. This RI/FS addresses data gaps associated with remaining contamination and supports Ecology in developing a Cleanup Action Plan (CAP) for the site.

## 2.1. Site Use

Operations ceased in 2010 and site structures were demolished during subsequent removal actions conducted by EPA and site preparation activities conducted by Konen. The site is currently undeveloped and vacant. Anticipated future site use is as part of a mixed commercial/residential development.

## 3.0 GEOLOGY AND HYDROGEOLOGY

The following sections provide information regarding regional and local geology, hydrogeology and surface hydrology.

### 3.1. Regional Geology

The geologic strata in the area is composed of alluvial quaternary deposits overlying Columbia Basin Basalt groups. These alluvial deposits range from relatively young river, cataclysmic flood, and eolian (wind-formed) deposits to older, partially cemented clay, silt, sand, and gravel. The characteristics and occurrence of these strata are described and summarized below.

***Quaternary Fine Unit:*** The low hills in the Walla Walla Basin are made mostly of loess and fine-grained cataclysmic flood deposits. Lithologic descriptors for these strata include terms such as soil, dirt, mud, clay, silt, silty sand, and fine sand. Commonly these strata consist of the layered silts and sands also known as Touchet Beds. For this project, these fine strata are referred to as the Quaternary fine unit. The Quaternary fine unit is the uppermost alluvial sediment unit found in the project area.

***Quaternary and Mio-Pliocene Coarse Unit:*** Uncemented and non-hardened sandy to gravelly strata to variably cemented sand, referred to as the Quaternary and Mio-Pliocene coarse unit, is found in the shallow subsurface (Newcomb 1965) at the site. These gravelly deposits are basaltic, moderately to well-bedded, have a silty to sandy matrix, and contain thin, local silt interbeds. The top of the unit slopes to the west and usually lies just a few feet below the ground surface in most stream valleys, and several tens of feet below the hills.

***Mio-Pliocene Fine Unit:*** The Mio-Pliocene fine deposits are below the coarse unit variously described as blue, green, gray, brown, and yellow silt, clay, sandy clay, and sandy mud. The Mio-Pliocene fine unit is thickest generally in the northeastern, north, central, and western basin where it can range between 300 and 500 feet thick. Basalt underlies the Mio-Pliocene fine unit. The basalt geology is summarized in the next section.

***Miocene Columbia River Basalt Group (CRBG):*** The CRBG is laterally extensive, covering an area of more than 59,000 square miles (Beeson et al. 1989) and spanning parts of Washington, Oregon, and Idaho. Individual basalt flows that make up the CRBG occur as laterally widespread sheets that cover up to several thousand square miles each. In south-central Washington, the CRBG is more than 10,000 feet thick and is subdivided into three primary units, or formations, designated (from youngest to oldest) the Saddle Mountains Basalt, Wanapum Basalt, and Grande Ronde Basalt (GWMA 2009a, 2011d; Swanson et al. 1979a, 1979b). The conditions in which the lava flow(s) created each unit govern the extent of each



formation. The Wanapum and Grande Ronde Basalt units were generated as a sheet like flow which allows for a single relatively uniform and continuous layer (Swanson et al. 1979a, 1979b).

Unlike the Wanapum and Grande Ronde Units, the Saddle Mountains basalt was emplaced extensively by intracanyon flows, where a sheet flow encounters a preexisting conduit like canyons or paleo river channels, which breaks up the sheet flow and allows for the conduit to act as a preferential pathway (Swanson et al. 1979a, 1979b) . The Saddle Mountains unit is laterally discontinuous in the site area due to the presence of intracanyon flows and is seen predominately in the Saddle Mountains Area to the northeast of the site.

The uppermost basalt beneath the project area is the Wanapum Basalt. The Wanapum Basalt is widespread and laterally continuous, but only found at the surface in canyons and valleys incised into the major uplifts surrounding the Walla Walla Basin, such as the Blue Mountains and the Horse Heaven Hills. The Wanapum Basalt is between 500 and 800 feet thick.

The Grande Ronde Basalt underlies the Wanapum Basalt and the entire project area. Grande Ronde Basalt outcrops are only found in the Snake River canyon near Lower Monumental Dam and in Wallula Gap on the Columbia River to the west and in the Blue Mountains to the east. Its thickness beneath the project area is not well known because no wells fully penetrate it (Burns et al. 2011; GWMA 2009a, 2011d; Kahle et al. 2011).

### **3.2. Site Geology**

Based on the boring, test pit and well logs (Appendix A Field Logs), the shallow soils at the site are generally composed of fine silt. The silty soils observed in the north tend to be more dense and stiff than other areas of the site. Cross sections developed for the site (Figure 2 shows cross section locations; Figures 3 through 6 depict cross sections) show that interbedded gravel and cobbles are present beneath the silt in the southern portion of the site and are at the surface in the northern portion of the site. The presence of sand, gravels, and cobbles also increases from south to north towards Mill Creek.

The southern portion of the site is higher in elevation and gently slopes downward towards Mill Creek, which forms the northern boundary of the site and is separated from the site by a levee. There are two topographic lows at the site: a swale located in the northwest corner and a depression towards the center of the eastern fence line. The soil conditions in these areas are similar to conditions elsewhere at the site but contain more organic matter and manmade debris.

### **3.3. Regional Hydrogeology**

The primary groundwater systems underlying the project area are found within the alluvial sediments overlying the CRBG and within the CRBG. Hydrologic characteristics of the alluvial and CRBG aquifer systems are summarized further in the following sections.

#### **3.3.1. Alluvial Aquifer System**

The alluvial aquifer system comprises all saturated sediments that overlie the CRBG. In the project area, the alluvial aquifer is hosted primarily by the Mio-Pliocene units and locally by the Quaternary coarse unit. The Quaternary fine unit, which also is a widespread alluvial unit, is not a significant water-bearing unit in the project area. The alluvial aquifer generally flows northwest towards Mill Creek.

Groundwater occurring within the alluvial aquifer system is predominantly unconfined and usually considered to be in hydrologic connection with surface water. Many streams have both gaining and losing reaches based on local topography, alluvial aquifer groundwater levels, and seasonal groundwater level variation and stream flow.

Recharge of the alluvial aquifer system is primarily from infiltration of precipitation, irrigation seepage, irrigation-return flow, and stream losses. Some recharge projects also exist in the area to recharge the alluvial aquifer including Stiller Pond, which is fed by Mill Creek discussed below.

### **3.3.2. Columbia River Basalt Aquifer System**

The CRBG groundwater system in the project area is regional in scale with the physical characteristics and properties of the CRBG affecting intrinsic hydraulic properties and potential distribution of groundwater (Beeson and Tolan 1990, 1996; Beeson et al. 1985, 1989; Reidel 1998; Reidel et al. 1994; USDOE 1988).

Groundwater within the CRBG aquifer system is typically confined and is stored and transmitted primarily in interflow zones. Where basalt flows are thick and laterally extensive there is little vertical hydraulic connectivity between interflow zones. Unconfined conditions may exist in permeable, uppermost portions of the basalt where exposed at the surface. The hydrogeology of the CRBG is discussed further in several reports, some of the more recent of which include Ely et al. 2014; GWMA 2009c, 2011b, 2011e; and Kahle et al. 2011.

Groundwater flow direction within basalt units exposed at the surface generally follows the land surface, flowing from topographic and structural uplands down-dip to low-lying areas. In deeper units, like those underlying the site, groundwater flow follows regional gradients that in the Walla Walla Basin will generally be to the west.

The basalt aquifer system is recharged via more permeable basalt strata exposed in the highlands surrounding the Walla Walla Basin and limited groundwater leakage from the overlying alluvial aquifer. Hansen et al. (1994) indicates that groundwater recharge in the central Columbia Basin can range from as low as zero to just a few inches. The majority of the recharge to the basalt occurs in the mountain areas surrounding the greater Columbia Basin, such as the Blue Mountains to the east of the site (GWMA 2009b, 2009d, 2011a, 2011c, 2012, 2013).

The alluvial system can be a recharge source for the underlying basalts, primarily in areas where the alluvial deposits overlying the basalt are highly permeable and where the nature of the underlying basalt favors infiltration.

Shallow basalts commonly discharge to coulees while deeper units predominantly discharge into structural/topographic lows like lakes, rivers and streams (Ely et al. 2014; Kahle et al. 2011).

### **3.4. Site Hydrogeology**

There is a shallow, unconfined alluvial aquifer below the site with groundwater ranging from 8 feet to 17 feet below ground surface (bgs). Groundwater elevation measurements during EPA's site assessments and the 2018 data gaps investigation indicate the general groundwater flow patterns at the site. This shallow aquifer consists of interbedded fine silt and sand, silty sand and gravels that overlay cobbles and cemented gravels. Groundwater flow at the site is generally from the southwest to the northwest

towards Mill Creek with a relatively flat gradient of 0.01 feet per foot (Figure 7, Groundwater Elevation Map, December 2018). The December 2018 groundwater elevations and water quality parameters are provided in Tables 1 and 2.

Surface runoff, in the form of sheet flow, runs from south to north following the topographic slope of the land towards Mill Creek; however, the levee separating the creek from the site likely prevents direct surface discharge to the creek. It is more likely that sheet flow collects in the topographic lows along the levee like the swale and infiltrates into shallow groundwater.

The soils observed at the site are classified as moderately permeable and imperfectly drained. The area receives 12 to 16 inches of rain per year; runoff is slow with little risk of erosion (NRCS 1964). Published permeability values for soil types are provided in Table I.

**TABLE I. PERMEABILITY OF REGIONAL SOILS**

Grain-Size Class	Hydraulic Conductivity (ft/day)	Porosity (%)
Sandy silt	4.9 to 11.5	34 to 61
Silty sand	13.1 to 23.0	26 to 53
Sand and gravel with high silt content	55.8 to 91.9	31 to 46
Poorly consolidated sand and gravel with low silt content	88.6 to 206.7	24 to 36

Note: Values based on Table 3.1. Range in Values of Porosity and Table 4.3 Hydraulic Conductivity of Unconsolidated Materials in Schwartz F.W. and H. Zhang, 2003, *Fundamentals of Ground Water*.

Although site-specific studies on the hydrogeologic properties have not been done for the site, extensive studies have been performed at the adjacent Milton Creek Water Treatment Plant as part of a groundwater recharge feasibility study (Golder 2007). The soil conditions described in the 2007 study are similar to deposits along Mill Creek and had hydraulic conductivities ranging from 6.3 to 169 feet per day with a geometric mean of 53 feet per day via falling head tests. These values are supported by those in the published literature provided in Table I.

### 3.5. Surface Water

Surface water is present at the site as Mill Creek (Figure 8, Mill Creek and Other Surface Water Features), which forms the northern boundary of the site. Mill Creek flows to the west for about 6.5 miles where it discharges into the Walla Walla River (E&E Inc. 2013); the headwaters are approximately 20 miles to the east. The creek was significantly altered in the late 1940s for flood control. Bennington Lake, an off-channel reservoir 4 miles upstream of the site was completed in 1941. Mill Creek was channelized from Bennington Lake to one mile west of the site; a section of the creek is below ground where it flows through downtown Walla Walla. The channelization consists of cross weirs spaced every 100 feet and riprap levees. The center of the channel is concrete lined with a low flow channel and baffles placed to allow fish passage (E&E Inc. 2013).

The portion of Mill Creek flowing by the site is federally operated by the Army Corp of Engineers. Flows in Mill Creek are also monitored by the Walla Walla Basin Watershed Council at Wallula Bridge, which is about 3 miles downstream of the site.

## 4.0 PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

Our review of available records indicated the previous investigations and remedial actions have been conducted at the site, as described in the following sections.

### 4.1. Previous Investigations

EPA, Ecology and Walla Walla County Department of Public Works have investigated contamination at and adjacent to the site:

- Ecology conducted inspections in 1999 and 2002 and documented improper handling of used oil, spent batteries, incinerator ash and automotive fluids at the site (EPA 2009).
- A Phase I Environmental Assessment for the Myra Road Extension project was conducted in 2005 by HDR Engineering, Inc. (HDR) for the Walla Walla County Public Works Department, which also documented the potential sources including automotive batteries, fluid spills, and full tanks and drums. HDR recommended the collection of soil and groundwater samples as a Phase II Assessment (HDR 2005).
- HDR followed up with a Phase II Environmental Assessment in 2006 and included chemical sampling. This study focused on the right-of-way property being considered for the Myra Road Extension project by the County. Soil and groundwater grab samples were collected from borings installed in the right of way, where Myra Road currently is located. Several metals (barium, cadmium, chromium and lead) were detected in the groundwater at concentrations greater than the federal maximum contaminant levels (MCLs) (HDR 2006). Contaminants did not exceed EPA screening levels in soil, except for methylene chloride at one location.
- A dangerous-waste compliance inspection conducted by Ecology in 2006 documented batteries on the ground, a hydraulic fluid spill and over 25 drums of used oil stored at the site. Bulging drums and soil staining at some of the drum locations were observed (EPA 2009).
- A 2007 inspection by Ecology again documented the presence of used oil, heavy oils, hydraulic fluids, and damaged batteries on the ground. Samples were not collected but conditions at the site prompted concerns of contamination by PAHs and other SVOCs (EPA 2009).
- EPA conducted a removal site evaluation based on seven field events from 2009 through 2012. Soil from 41 locations and groundwater from 9 locations (4 monitoring wells and 5 boreholes) in the former process area were sampled for metals, PCBs, total petroleum hydrocarbons (TPH), SVOCs, pesticides and VOCs. The process area was identified as a major source area of contamination (E&E 2012, 2014) based on screening level exceedances of metals (arsenic, lead), PCBs, TPH (diesel and oil range) and PAHs in soil. Groundwater samples exceeded screening levels for metals, PCBs, TPH, PAHs, phthalates and chloroform.
- EPA published an engineering evaluation/cost analysis (EE/CA) in 2013 for cleanup alternatives to address surface and subsurface soil contamination in the process area to protect human and ecological receptors. Alternatives included institutional controls, containment, treatment or excavation. Excavation and off-site disposal were recommended for the process area (E&E 2013).

## 4.2. Previous Remedial Actions

In 2009, EPA began two time-critical removal actions to remove contaminated soil in the main process area, and asbestos-containing materials and bulging drums elsewhere at the site. Several other EPA-led removal actions were conducted in 2012 and 2013 (E&E Inc. 2012, 2014).

- In October 2009, 21 drums containing PCB oil and sludges, petroleum or paint waste were removed from the site and disposed of: 40 cubic yards (cy) of PCB debris and 75 cy of lead-contaminated soil were also excavated and disposed off-site. Asbestos panels and 650 gallons of non-PCB oil were disposed off-site.
- In April 2012, 61 drums of hazardous wastes (e.g., liquid pesticides, waste oil, flammable liquids) and 20 cy of contaminated soil were removed from the site.
- In May 2013, EPA excavated about 13,000 tons of contaminated soil and disposed it at a non-hazardous waste facility. An additional 700 tons of soil were disposed at a hazardous waste facility. Both excavated areas were backfilled with imported soil. Additional asbestos waste and capacitors were also removed from the site and disposed off-site.
- Four groundwater monitoring wells were installed at the site in March 2010, which were abandoned in June 2013 during the removal action.
- Brush and debris (including some drums) were removed from the wooded swale in the northwest corner of the site adjacent to Mill Creek in June 2013.

## 5.0 2018 DATA GAPS EVALUATION

In 2018, GeoEngineers excavated 17 test pits, advanced 28 direct-push borings and installed 4 groundwater monitoring wells at the site to evaluate data gaps from previous investigations. Investigation activities included excavating test pits (to depths ranging from 5½ to 16½ feet bgs or the water table, whichever came first), advancing direct-push borings to depths ranging from 3 to 5 feet bgs, and installing groundwater monitoring wells to depths ranging between 14 and 22 feet bgs. Soil from the well borings was sampled prior to well installation. Soil samples were analyzed for PAHs, SVOCs, VOCs, pesticides, PCBs, petroleum hydrocarbon fractions and metals. Sampled groundwater was analyzed for SVOC, VOCs, PCBs, petroleum hydrocarbon fractions and metals. Field work was conducted in general accordance with the project work plan (GeoEngineers 2018).

The data gap investigation focused on four areas (Figure 2):

- Area A – Former Process Area (primarily in areas not excavated by EPA). Environmental concerns in this area include hydraulic fluid spills, uncovered automotive batteries and soil staining. Several confirmation samples were also collected within the previous excavation area.
- Area B – Waste Burning. Environmental concerns include combustion of automotive parts and miscellaneous debris.
- Area C – Miscellaneous Storage. Environmental concerns include storage of used automotive batteries on bare soil and 55-gallon drums with unknown contents. Soil staining was observed, and combustion of automotive engines and other parts reportedly occurred.

- Area D – Former Residence/Office. Environmental concerns included use of asbestos materials in siding and other structures. This house was demolished sometime in 2018 (after Ecology prepared the Scope of Work for the RI/FS). A well associated with the residence remains in the southeast portion of the site; a 2009 sample from this well suggested groundwater was contaminated with organic chemicals (PCBs and solvents).

### 5.1. Data Quality

The quality of the chemical results was evaluated and validated according to EPA guidance. Results were found to be acceptable for use, as qualified. The full validation memorandum is provided in Appendix B.

### 5.2. Terrestrial Ecological Evaluation

A terrestrial ecological evaluation (TEE) was conducted for the site to evaluate the need to include ecological risk-based screening levels. Ecology form ECY 030-300 (July 2015) was used to conduct the TEE and is included in Appendix C. To evaluate the TEE, it was conservatively assumed that the site would remain as is and future development of the site was not considered. The first step was to review if the site qualified for an exclusion from the TEE in accordance with Washington Administrative Code (WAC) 173-340-9491(1). The site didn't qualify for an exclusion because:

- Contamination was present at depths less than 6 feet bgs;
- A physical impermeable barrier was not anticipated for all areas where contamination was present; and
- There was more than 0.25 acres of contiguous undeveloped land around the site and metal concentrations were greater than natural background concentrations.

It was then evaluated if a simplified TEE was applicable to the site. A simplified TEE is applicable for the site because the site doesn't meet the criteria as outlined in WAC 173-340-7491(2). The site is not near an area where land use plans include restoring native species, environmentally sensitive areas or outdoor recreational parks. Threatened and endangered species are not believed to use the site and there is not at least 10 acres of continuous native vegetation within 500 feet of the site.

The simplified TEE included an exposure analysis, pathway analysis and contaminant analysis. The exposure analysis indicated additional evaluation was necessary because the area of contamination was greater than 350 square feet and using MTCA Table 749-1:

- The site is greater than 4 acres in size;
- The site is not an industrial or commercial property and PCBs are present at the site; and
- The habitat quality is likely intermediate because the site has been largely disturbed and vertical vegetation over 5 feet in height is limited; however, the site is relatively undeveloped as are the surrounding areas. Since the site is generally undeveloped land, it is also likely to attract wildlife.

A pathway analysis was then conducted for the site. The shallow contaminated soil at the site is exposed and there is no barrier to prevent exposure to contaminants. As a result, there is a pathway between shallow contaminated soil and soil biota, plants and wildlife. A contaminant analysis was then conducted and because contaminants listed in MTCA Table 749-2 are present at depths less than 6 feet bgs, further

evaluation was necessary. Because the exposure, pathway and contaminant analysis indicated additional evaluation was necessary, the values listed in Table 749-2 can be used as cleanup levels at the site.

### 5.3. Screening Levels

Chemical results from the 2018 investigation were compared to MTCA criteria that are protective of human health and the environment, based on exposure to soil and groundwater. The selection of screening levels for each site media (soil and groundwater) are based, in part, on: (1) contaminants present in each media; (2) potential land-use; and (3) potential receptors and exposure pathways present at the site.

Exposure scenarios assumed that people would be living or working on the property and potentially using the groundwater as drinking water; hence, those criteria resulting in unrestricted land use or drinking water as a beneficial use were used. To develop screening levels for the site, the more restrictive MTCA Method A or TEE soil screening levels (MTCA Table 749-2) were used. Thallium did not have a MTCA Method A cleanup level or TEE soil screening level; therefore, the MTCA Method B cleanup level was used.

### 5.4. Results

Results of the 2018 investigation are used to represent the nature and extent of contamination at the site under current conditions. All chemical groups (metals, PAHs, etc.) had one or more constituents detected in soil collected from the site; however, only 12 chemicals exceeded their respective screening levels in soil:

- Cadmium, chromium, copper, lead, zinc
- Benzo(a)pyrene and total carcinogenic PAHs (cPAHs)
- PCBs (Aroclors 1248, 1254 and 1260)
- Petroleum hydrocarbons-diesel fraction

Selenium, n-nitrosodimethylamine and nitrosodi-n-propylamine were not detected in soil samples but detection limits were greater than screening levels. These exceedances were not included in the nature and extent evaluation. Several SVOCs (1,2-diphenylhydrazine, 2,6-dinitrotoluene, 3,3-dichlorobenzene, hexachlorobenzene and pentachlorophenol) occasionally had elevated detection limits in test pit samples but were otherwise not detected or did not exceed screening levels. These detection limits were not treated as exceedances in the nature and extent evaluation. Originally thallium was detected in almost all shallow (direct push) soil samples and monitoring well borings and 57 percent of the sample concentrations exceeded the screening level for thallium. In contrast, thallium was only detected twice in deeper test pit samples from the same areas and did not exceed its screening level when detected. Thallium had not been identified as a contaminant of concern in prior investigations; however, a more protective screening level was used in the data gaps evaluation for this RI/FS.

Initial analysis for thallium was conducted using EPA Method 6010 which utilizes optical emission spectroscopy. Optical emission spectroscopy measures the intensity of light emitted by atoms in solution to determine metal concentrations. Laboratory method reporting limits (MRLs) were not able to meet the MTCA Method B Cleanup Level (0.8 milligrams per kilogram [mg/kg]) and therefore the results were reported to the laboratory method detection limit (MDL) which reports a lower concentration, but the results are estimated because of the precision of the analysis. Reporting to the MDL indicated that thallium could be present at concentrations greater than the MTCA Method B cleanup level.



Although the samples were 6 months out of hold time for metals, 10 of the direct-push soil samples were reanalyzed for thallium using EPA Method 6020, which uses mass spectroscopy and measures the mass of atoms in solution to determine metals concentrations. EPA Method 6020 is a more precise method than 6010 and provides lower MRL and MDLs when compared to the 6010 method. Analysis of the 10 samples using EPA Method 6020 indicated that thallium concentrations were less than the MTCA Method B cleanup level. A comparison of thallium results for the 10 direct-push soil samples using the EPA 6010 and 6020 analytical methods is provided on Table 16. Because the samples were analyzed out of hold time, five additional samples were collected by Ecology (HA-1 through HA-5) in November 2019 near and at the site and submitted to a different laboratory (Eurofins TestAmerica) for analysis of thallium using both the EPA 6010 and 6020 analytical methods. Analysis of the five additional soil samples for thallium by Eurofins TestAmerica indicated that thallium concentrations were less than the MTCA Method B cleanup level for both EPA Method 6010 reported to the MDL and EPA Method 6020 reported to the MDL. Laboratory chemical analysis results for the five additional samples are summarized in Table 17 and sample locations are shown on Figure 17. Laboratory analytical reports are provided in Appendix B.

Based on the re-analysis and the 2019 assessment, thallium was not carried forward as an indicator hazardous substance because analysis of soil samples from the site using EPA Method 6020 indicated thallium concentrations were less than the MTCA Method B cleanup level. Soil analytical data are provided in Tables 3 (direct push results) and 4 (test pit results). The distribution of contaminants exceeding screening levels in soil is provided in Figure 9, Soil Analytical Results – 2018 RI.

An X-ray fluorescence (XRF) instrument was used to screen for metals in soil at the site; however, laboratory analyses were also performed at the same locations and therefore took precedence in the evaluation of nature and extent. Petroleum contamination was screened using visual observations, water-sheen testing and headspace vapor measurements using a photoionization detector (PID). Table 5 contains the XRF readings compared to the laboratory results; field observations of sheen and PID measurements are included as part of the boring logs in Appendix A.

Very few contaminants were detected in groundwater (tetrachloroethene [PCE], diethylphthalate [DEP] and bis(2-ethylhexyl)phthalate [BEHP]). BEHP was the only contaminant exceeding its screening level in groundwater and occurred in only one well (MW-3) (Figure 10, Groundwater Analytical Results – 2018 RI). The magnitude of the exceedance was very low (less than 1.1 times the screening level). Based on the low BEHP concentration (less than twice the cleanup level) and the low frequency of detection (only one sample), BEHP was not carried forward as an indicator of hazardous substances per WAC 173-340-720(9). Therefore, this chemical was not included in the nature and extent of contamination in groundwater. Groundwater analytical data are provided in Table 6. Soil and groundwater laboratory analytical reports are included in Appendix B.

## 5.5. Areal Extent of Contamination

The COCs in soil samples collected from previously excavated areas within the former process area (Area A) were generally less than the screening levels, except for lead in the initial soil boring for monitoring well MW-4. Other soil samples within Area A that were not from within previously excavated areas had PAH exceedances (benzo[a]pyrene and cPAHs), particularly in the test pits along the northern boundary of the site. Soil samples from three locations within the former burn area (Area B) had several metals (cadmium and lead) and PAH exceedances; a soil sample from one location exceeded the PCB screening level. Samples from the former miscellaneous storage area (Area C) had a number of exceedances of PAHs; one



sample from the former drum storage field had an elevated diesel concentration. PCBs, cadmium and lead exceeded their screening levels in several other samples. The area around the former residence (Area D) had exceedances of PAHs and lead in soil samples collected where drums were originally stored.

PAHs and metals define the areal extent of contamination at the site. TPH and PCBs exceed screening levels at a few locations but co-occur with either PAHs or metals. Based on the areal extent of PAHs and metals, the portions of the site that will be evaluated in the FS are depicted in Figure 11, Areas Evaluated in the FS.

## **6.0 CONCEPTUAL SITE EXPOSURE MODEL**

GeoEngineers prepared a conceptual site exposure model (CSEM) to describe surface and subsurface site conditions, define the nature and extent of known contamination, and identify potential exposure pathways to site contaminants of concern and potential receptors. The CSEM was developed using data from the previous studies listed above, available monitoring well logs, results of the RI and our observations from site visits. The CSEM is graphically depicted in Figure 12 and further described below

Site contamination resulted from over 60 years of metal recycling operations, which primarily occurred in the former main process area; however, wastes were stored throughout the site, impacting the shallow soil and groundwater. Interim removal actions conducted between 2009 and 2013 focused on the removal of soil in the main process area and waste drums. These remedial actions addressed most of the contaminant sources present at the site. A former residence in the southeast portion of the site was demolished and the associated domestic well is no longer in use. In 2009, PCB Aroclor 1016, trichloroethylene (TCE) and chloroform were detected in this well, but concentrations were less than their respective MCLs. Surface water quality samples from Mill Creek (collected upstream, downstream and adjacent to the site) did not exceed criteria and surface water features on the site have been altered (much of the site has been graded) such that low-lying areas no longer pond significantly. Contaminated soil outside of the former process area remains the main environmental medium that may represent an exposure risk for site receptors.

Receptors are living organisms that can be exposed to contaminants that have been released to the environment. Receptors include people, wildlife, fish and other aquatic organisms and plants. Exposure pathways are how people or ecological receptors (wildlife, etc.) can be exposed to contaminants, either directly or indirectly. Exposure requires that contaminants partition from a contaminated medium (e.g., soil) across a biological membrane (e.g., skin, gut wall, lung surface) of a receptor following contact. Contact may involve touching or ingesting contaminated soil or water or ingesting contaminated food.

Based on local land use and zoning, trespassers, site workers (including remediation and construction workers), future residents and future commercial workers represent the groups of people that may be exposed to soil contaminants during redevelopment of the site. Currently, people can come into direct contact with contaminated soil when trespassing or performing construction activities; trespassers and workers could accidentally ingest contaminated soil if personal hygiene is lax. Ingestion of contaminated drinking water is unlikely as the domestic well is no longer in use. Future residents are unlikely to be exposed to either contaminated soil or groundwater (the site surface will be paved, covered with buildings or capped with clean soil/landscape material) and drinking water would be supplied by the City of Walla Walla.

Ecological receptors are few due to the disturbed nature of the site and lack of habitat. There was one small low-lying area (<0.1 acre) that was historically identified as a wetland; however, site grading has changed the hydrology of the wetland and it is no longer a distinct feature. Grasses and other annual plants (including invasives) are found in patches; the former wetland area has some remaining shrubs. The most likely ecological receptors at the site are small mammals (mice, voles) and raptors that may prey on them. Songbirds may migrate through the area, but there is little ground cover, trees or other habitat providing either refuge or food. Small mammals and birds may be exposed to site contamination through direct contact while burrowing in soil, incidental ingestion of soil while preening their feathers or cleaning their fur, and consumption of contaminated prey or food. No surface water features are present at the site that would provide a pathway for ingestion of or contact with contaminated water.

Mill Creek, a tributary of the Walla Walla River, is potential habitat for bull trout (*Salvelinus confluentus*) and the threatened Middle Columbia River steelhead trout (*Oncorhynchus mykiss*) and is designated as Critical Habitat under the Endangered Species Act for both these species. The endangered Upper Columbia River spring-run Chinook salmon (*Oncorhynchus tshawytscha*) may also occur in this drainage. However, Mill Creek is separated from the site by an earthen berm or dike with no direct discharge of surface water from the site to the creek. In addition, water samples collected in 2009 from Mill Creek (upstream, adjacent to and downstream of the site) showed no evidence of site-related contamination in the creek.

## 7.0 INDICATOR HAZARDOUS SUBSTANCES

The nature and extent of contamination at the site was evaluated and documented by comparing the concentrations of contaminants detected in the various site media to screening levels. This comparison allows for the elimination of those hazardous substances that contribute a small percentage of the overall threat to human health and the environment and identifies the contaminants that pose the greatest potential risk to people and ecological receptors, which are termed Indicator Hazardous Substances (IHSs). The identification of the site IHSs ultimately informs the technologies and remedies evaluated in the FS for Site cleanup.

Based on historical environmental investigations, metals, PAHs, PCBs, and petroleum were identified as COCs in both soil and groundwater for the site. Selected pesticides were detected in soil samples but not in groundwater samples. Chloroform, a VOC, also exceeded its screening level (SL) in groundwater. Since those historical investigations, EPA conducted a removal action addressing significant contaminant sources at the site, including process area contamination, drums and other waste material. The 2018 RI data suggest that metals, PAHs, PCBs and petroleum remain the COCs in soil; however, fewer individual contaminants exceed their screening levels. The only contaminant exceeding its screening level in groundwater under current conditions was BEHP and the reported value was only slightly greater than its screening level in one sample. BEHP was removed as an IHS, as explained in Section 5.3.

Although thallium (reported to the MDL) exceeded the proposed screening level using EPA Method 6010 during the initial sample analysis, it was not identified as an IHS because follow up analysis of the same samples (out of hold time) using EPA Method 6020 indicated thallium was less than the MTCA Method B cleanup level (Table 16). In addition, analysis of five reference samples collected by Ecology in November 2019 also indicated thallium was less than the MTCA Method B cleanup level at the site and in adjacent properties (Table 17 and Figure 17).

The frequency of detection of contaminants in soil and the frequency of exceedance of their respective screenings levels is provided in Table 7. Fourteen organic compounds and one metal were detected at a low level of frequency (less than 5 percent); only one of those contaminants (Aroclor 1248) exceeded its screening level. Thirty-one contaminants were detected more frequently (greater than 5 percent); of those 11 chemicals exceeded their respective screening level. Exceedance ratios (sample concentration ÷ screening level) were greater than 2.0, indicating statistical exclusions as IHS per WAC 173-340-740 (7) could not be used. In general, ratios of most IHS were less than 10.

Those contaminants that were both detected in greater than 5 percent of samples and exceeding their respective screening levels were selected as IHSs (except those compounds eliminated as described above) and summarized in Table II:

**TABLE II. INDICATORS OF HAZARDOUS SUBSTANCE**

Contaminant of Concern	Soil IHS	Groundwater IHS
<b>Metals</b>		
Cadmium	Yes	No
Chromium	Yes	No
Copper	Yes	No
Lead	Yes	No
Zinc	Yes	No
<b>PAHs</b>		
Benzo(a)pyrene	Yes	No
cPAHs	Yes	No
PCBs (Aroclars 1248, 1254, 1260 and total PCBs)	Yes	No
Diesel-range petroleum hydrocarbons (DRPH)	Yes	No

Other potential chemicals that were found at the site were not included as IHSs because they were not detected greater than SLs, were found in less than 5 percent of samples, had concentrations less than the screening levels and/or were less than background concentrations.

Cleanup levels were developed for IHSs measured in soil (no IHSs were identified for groundwater) and accounted for the potential receptors and exposure pathways present at the site.

**8.0 PROPOSED CLEANUP LEVELS**

The screening levels identified in Section 5.3 and shown in Tables 3, 4 and 6 are proposed as cleanup levels for the site IHSs. Table III below presents the proposed soil cleanup levels.

**TABLE III. PROPOSED SOIL CLEANUP LEVELS**

Contaminant of Concern	Basis of Cleanup Level (CUL)	Soil CUL (mg/kg)
Metals		
Cadmium	Method A–Unrestricted Land Use	2
Chromium	Ecological Screening Level	42
Copper	Ecological Screening Level	100
Lead	Ecological Screening Level	220
Zinc	Ecological Screening Level	270
PAHs		
Benzo(a)pyrene	Method A–Unrestricted Land Use	0.1
cPAHs	Method A–Unrestricted Land Use	0.1
PCBs	Method A–Unrestricted Land Use	1.0
Diesel-range petroleum hydrocarbons (DRPH)	Ecological Screening Level	460

## 9.0 RI SUMMARY

The extents of contamination are shown on Figure 11 and described in Section 5.5. Contamination was primarily located in the upper 3 feet of soil. Soil contamination deeper than 3 feet bgs was only noted at two locations (TP-7 and MW-4). PAH contamination greater than the cleanup level was detected at 5 feet bgs in TP-7 and lead greater than the cleanup level was detected at 7 to 8.5 feet bgs at location MW-4. Metals and PAH contamination greater than the cleanup level were detected at location DP-23 in the sampling interval 1.5 to 3 feet bgs. A sample below 3 feet bgs was not collected from DP-23.

COCs identified in the RI include metals, PAHs, DRPH and PCBs. DRPH greater than the cleanup level was detected at two sample locations (DP-6, DP-23) near the surface and was not detected at a depth greater than 3 feet at these locations. The extents of DRPH are expected to be minimal and as a result, each cleanup action developed for the site will include excavation and off-site disposal of soil near DP-6 and DP-23.

PCBs greater than the cleanup level were detected in shallow soil samples at three locations (DP-3, DP-6, and DP-14). PCBs were not detected in soil samples collected below a depth of 3 feet at these locations. PCBs are known carcinogens and the extent of PCB contaminated soil is expected to be minimal. As a result, each cleanup action developed for the site will include excavation and off-site disposal of soil near DP-3, DP-6 and DP-14.

VOCs and pesticides were not identified as COCs; therefore, the primary pathways that the selected cleanup action alternatives need to address are ingestion and direct contact of contaminated soil and inhalation of wind-blown soil as shown in the CSEM (Figure 12, Stubblefield Salvage Yard Conceptual Site Exposure Model). The vapor inhalation pathway and ingestion of contaminated groundwater pathways to humans are incomplete since contaminants are not likely present in this media. The selected cleanup action will need to address ingestion and direct contact exposure pathways in addition to mobilization of contaminated soil via wind and stormwater erosion.

Results of the 2018 soil and groundwater sampling are summarized below:

- Areas previously excavated by EPA generally are not contaminated.
- Groundwater contamination does not appear to be present at the site.
- Remaining contamination generally is found in shallow soil (less than 3 feet bgs) in areas not previously remediated.
- COCs are related to former recycling activities and primarily include metals and PAHs with localized areas also including PCBs and diesel.
- Thallium concentrations initially exceeded the proposed cleanup level in 57 percent of the soil samples using analytical EPA Method 6010. The soil samples were reanalyzed out of hold time for thallium using EPA Method 6020 (a more precise method) and the thallium concentrations were less than the MTCA Method B cleanup level. In addition, analysis for thallium from five additional references soil samples collected in November 2019, indicated thallium was less than the MTCA Method B cleanup level at the site.
- The contamination at the site does not appear to be impacting Mill Creek.

## **10.0 FEASIBILITY STUDY INTRODUCTION**

This FS was conducted to develop and evaluate cleanup alternatives to address soil contamination identified at the site. The RI did not indicate groundwater was contaminated at the site and therefore cleanup alternatives to address groundwater contamination were not considered. Previous assessments and data evaluations, as well as the RI, indicate that site soil contains COCs at concentrations greater than the site cleanup levels. Areas of the site requiring remediation were identified in Section 5.5 and are shown in Figure 11.

## **11.0 DEVELOPMENT OF CLEANUP ACTION ALTERNATIVES**

This section identifies the remedial action objectives and the initial screening of cleanup action alternatives for the site. An evaluation of the alternatives is presented in Section 13.0.

### **11.1. Remedial Action Objectives**

MTCA requires that cleanup actions meet the threshold requirements identified in WAC 173-340-360. According to this section of the code, the cleanup action shall:

- Protect human health and the environment – Each cleanup action alternative is assessed for its ability to protect present and future public health, safety, welfare, and the environment.
- Comply with cleanup standards – Proposed cleanup levels are identified in Section 8.0. The MTCA cleanup regulation specifies that a cleanup action alternative that does not comply with cleanup levels is an “interim action” not a “cleanup action.”
- Comply with applicable state and federal laws.
- Provide for compliance monitoring – The cleanup action must provide for monitoring to verify that the cleanup action remains effective over time.

- Use permanent solutions to the maximum extent practicable – Permanent solutions are those in which cleanup levels can be met without further action being required such as long-term monitoring and inspection or institutional controls.
- Provide for a reasonable restoration time frame – This refers to the estimate of time required to achieve cleanup levels or other performance standards.
- Consider public concerns – The FS cleanup action alternatives will seek to address the potential technical and administrative concerns of state and local regulatory entities, and concerns of the general public.

One remedial action objective (RAO) is to mitigate human exposure to contaminants by inhalation, dermal contact and ingestion. Another RAO is to mitigate ecological receptors (plants and animals) from exposure to contaminants.

## **11.2. General Categories of Response Actions and Initial Screening**

The general categories of remedial response actions identified for the site include:

- No Action;
- Institutional Controls;
- Engineering Controls;
- Off-site Disposal; and
- On-site Treatment.

### **11.2.1. No Action**

The no action alternative does not achieve the RAOs because it does not protect present and future public health, safety and welfare, and the environment. The no action alternative was not considered further.

### **11.2.2. Institutional Controls**

Institutional controls involve the placement of access barriers such as fencing and barricades to motorized and non-motorized travel, as well as withdrawal or restrictions on development of affected lands from future use (i.e., deed restrictions). The primary purpose of these controls is to minimize development and human activities on contaminated areas and provide protection to an implemented solution. While institutional controls do not achieve the stated goals and objectives of the cleanup action, they can protect the remedy that is implemented on site.

### **11.2.3. Engineering Controls**

Engineering controls mitigate or reduce off-site contaminant migration and provide a barrier to reduce exposure to human and ecological receptors. Engineering controls do not affect the chemical composition of the contaminated materials nor do they reduce the toxicity of the materials. Engineering controls could include such measures as capping, placement of a coarse permeable barrier (to eliminate access to contaminated soil from burrowing animals), placement of a low-permeability (geomembrane) liner, grading, and revegetation. Engineering controls were considered as a remedial strategy for the site.

#### **11.2.4. Off-Site Disposal**

Off-site disposal includes excavation and transport of contaminated material to an engineered, permitted landfill. Although this alternative can be very costly compared to other alternatives, it meets MTCA requirements, is a permanent solution and is retained as a cleanup alternative.

#### **11.2.5. Treatment**

Treatment options include methods such as incineration, bioremediation, chemical oxidation, soil washing and carbon treatment. These methods result in contaminant removal or transformation to reduce the toxicity of the original contaminants. Treatment methods are protective of human and ecological receptors and allow a beneficial use of the site. However, the primary contaminants at the site include heavy metals and PAHs, which are extremely difficult and costly to treat. Therefore, treatment was not retained as a cleanup alternative.

### **11.3. Feasibility Study Considerations**

The RI activities generally delineated the extent and types of contamination at the site; however, there are a few items to consider within the FS and during the cleanup action selection and engineering design components of this project. For the purposes of this FS, it was assumed that the property will be developed in the future as a mixed commercial and residential property. A conceptual site layout is provided in Figure 13, Conceptual Site Development Plan.

#### **11.4. Identification and Description of Cleanup Action Alternatives**

Three cleanup action alternatives were developed for the Stubblefield site. Based upon the information gathered for the RI cleanup action alternatives will address soil contamination at the site. Groundwater contamination was not identified as part of the RI. The approximate extent of contamination and areas that will need to be considered for cleanup actions are identified on Figure 11.

After removing soil contaminated with PCBs and DRPH greater than the cleanup levels, the primary contaminants remaining at the site are metals and PAHs in soil. To prevent exposure and migration of these contaminants, containment and capping are generally accepted remedial strategies. Containment and capping can be accomplished either at the site or off-site.

Three cleanup action alternatives were developed for the site. Areas shown on Figures 14, 15 and 16 and estimated contaminant depths were used to estimate the excavation quantities for the three alternatives as summarized on Table 8. The selected cleanup action alternatives provide an appropriate range of permanent cleanup actions for the site and are summarized in Table 9. The proposed alternatives are:

- Soil Alternative 1: Complete Excavation
- Soil Alternative 2: Excavation, Consolidation and Capping
- Soil Alternative 3: Limited Excavation and Selective Capping

Common to each cleanup action alternative is off-site disposal of PCB and DRPH contaminated soil. DRPH and PCB contaminated soil can be disposed at Waste Management's (WM's) Columbia Ridge Landfill located in Arlington, Oregon. Initial discussion with the local landfill (Sudbury) indicated that with approval from the state of Washington Department of Health (DOH) and Ecology, it is possible that they could accept



the contaminated soil in their Subtitle D landfill. The quoted disposal cost per ton from Sudbury was greater than the transport and disposal costs quoted by Waste Management for the Columbia Ridge Landfill. For the FS, it was assumed contaminated soil would be disposed at the Columbia Ridge Landfill because of the lower transportation and disposal costs. If lower disposal costs can be negotiated with Sudbury, this option should be explored as part of the final remedy.

Cleanup action alternatives selected for evaluation represent a reasonable range of potentially applicable cleanup options to provide a basis for evaluation. The design parameters used to develop these cleanup action alternatives are based on engineering judgment and current knowledge of site conditions. The final design for the selected alternative could require additional characterization and analysis to better define the scope and costs associated with the final cleanup action.

Cleanup action alternatives were developed to be consistent with the current and anticipated future land uses at the site. Future land use is expected to be mixed residential and commercial. A conceptual site layout is provided on Figure 13. Components of each cleanup action alternatives evaluated for the site are described below and are summarized in Table 9. Proposed excavation areas are provided on Figures 14, 15 and 16 for Alternatives 1, 2 and 3, respectively.

#### **11.4.1. Alternative 1 – Complete Excavation**

**Alternative 1, Complete Excavation** includes excavating contaminated soil and transporting it off-site to a Subtitle D landfill. Confirmation samples will be collected to confirm that the contamination was successfully removed. Areas designated for excavation are shown on Figure 14. Most of the areas shown on Figure 14 will be excavated to a depth of 2 to 3 feet bgs. Approximately one location (DP-23, within excavation area 1-C) will be excavated to a depth of 5 feet. The soil will be transported and disposed at WM's Columbia Ridge Landfill. If lower disposal rates are negotiated with the Sudbury Landfill, the soil could also be disposed there in coordination with Ecology and the DOH.

After soil removal, the site can be regraded to meet the needs of the planned development for the site. An environmental covenant will not be required for the site if confirmation sampling indicates soil contamination greater than the proposed cleanup levels is not present and the site can be developed without restrictions beyond normal development requirements established by the local, state and federal regulations.

The approximate cost for Alternative 1 is \$2,930,852 and the estimated remedial timeframe is approximately 3 to 6 months. A detailed estimated cost breakdown for Alternative 1 is provided on Table 10.

#### **11.4.2. Alternative 2 – Excavation, Consolidation and Capping**

**Alternative 2, Excavation, Consolidation and Capping** will include off-site disposal of the DRPH and PCB contaminated soil (Excavation areas 2-C, 2-D, 2-E and 2-F, as shown in Figure 15) leaving behind soil contaminated with PAHs and metals. Soil contaminated with metals and PAHs will be excavated and consolidated at the north end of the site as shown on Figure 15. Excavation depths are expected to be about 2 to 3 feet bgs, with the exception of excavation area 2-F around DP-23 as noted in Alternative 1. The consolidated soil will beneficially be used to raise existing grade in support of future site development.



Soil will be placed in lifts and compacted to support construction of vertical infrastructure as part of site redevelopment.

Current site development plans indicate that multifamily housing (apartments) will be located over the contaminated soil consolidation area. Paved parking surfaces and concrete slab on grade building foundations will serve as a sufficient cap over the contaminated soil. Where asphalt, concrete or building foundations are not planned, the area will be covered with a 1-foot clean soil cap, sourced from the site or from an off-site source. For cost estimating, it was assumed that the consolidation area identified on Figure 15 will be covered with a 1-foot soil cap (1.5 feet before compaction) sourced off-site. Approximately 14,996 cy of soil will be consolidated at an approximate average thickness of 5 feet within the consolidation area identified in Figure 15. If buildings or asphalt are used to cap the consolidation area, additional cost savings will be realized as the buildings and asphalt can be considered incidental to property development.

Consolidation of contaminated soil at the site will allow areas where contaminated soil will be removed to obtain a no further action designation if the current parcel is subdivided. Environmental covenants will not be needed for subdivided parcels where confirmation sampling confirms the contaminated soil was removed. An environmental covenant will be required for the parcel(s) where the consolidated contaminated soil is located. If the parcel is not subdivided, the covenant would apply for the entire parcel.

Stormwater infrastructure that utilizes infiltration will not be allowed within the extent of the soil consolidation area and special considerations will be required to handle stormwater on impervious surfaces over the contaminated soil area. Additional considerations may be required for installation of subsurface utilities including potable water sources to the buildings.

The approximate cost for Soil Alternative 2 is \$807,218 and the estimated remedial timeframe is approximately 2 to 3 months. A detailed estimated cost breakdown for Alternative 2 is provided on Table 11.

#### **11.4.3. Alternative 3 – Limited Excavation and Selective Capping**

**Alternative 3, Limited Excavation and Selective Capping** will utilize selective capping throughout the site to prevent contaminant exposure and migration. As with Alternatives 1 and 2, DRPH and PCB contaminated soil will be transported off-site and disposed of at an approved landfill (Excavation areas 3-D, 3-E, 3-F and 3-G, as shown in Figure 16). Alternative 3 minimizes the amount of earthwork required at the site; however, additional documentation will be required to ensure that contaminated areas are appropriately capped, especially outside building footprints and paved surfaces (areas generally considered as an impervious surface for stormwater management).

Areas identified on Figure 16 that will not be covered with pavement or a building will be covered with at least 1 foot of compacted cover soil sourced from uncontaminated areas at the site or from an off-site source. On-site soil cover borrow areas should be tested for the PAHs and metals listed on Tables 3 and 4 before it can be used as cover soil. PAHs and metals concentrations must be less than the proposed soil CULs listed in Tables 3 and 4 before the soil can be approved for use as a cover soil. For cost estimating, it was assumed that areas 3-A, 3-B and 3-C on Figure 16 will be covered with a 1-foot soil cap (1.5 feet before compaction) sourced off-site. If buildings or asphalt are used to cap the areas, additional cost savings will be realized as the buildings and asphalt can be considered incidental to property development.

Because most of the metal and PAH contamination will remain distributed through much of the current parcel, an environmental covenant will accompany the current parcel and subdivided parcels from the current configuration. Strategic placement of stormwater infrastructure that utilizes infiltration will also be required to avoid infiltrating stormwater through contaminated soil. Most of the contaminants appear to be located in the upper 2 to 3 feet and therefore limited excavation at stormwater infiltration areas or preventing stormwater infiltration in the upper 2 to 3 feet of capped soil would be needed.

The approximate cost for Alternative 3 is \$720,119 and the estimated remedial timeframe is approximately one to two months. A detailed estimated cost breakdown for Alternative 3 is provided on Table 12.

## **12.0 MTCA EVALUATION CRITERIA**

This section presents a description of the threshold requirements for cleanup actions under MTCA and the additional criteria used in this FS to evaluate the cleanup action alternatives.

### **12.1. Threshold Requirements**

Cleanup actions performed under MTCA must comply with several threshold requirements. Cleanup action alternatives that do not comply with these requirements are not considered suitable cleanup actions under MTCA. As provided in WAC 173-340-360(2)(a), cleanup action must:

- Protect human health and the environment;
- Comply with cleanup standards;
- Comply with applicable state and federal laws; and
- Provide for compliance monitoring.

#### **12.1.1. Protection of Human Health and the Environment**

Cleanup actions performed under MTCA must ensure that human health and the environment are protected.

#### **12.1.2. Compliance with Cleanup Standards**

Compliance with cleanup standards requires, in part, that cleanup levels are met at the applicable points of compliance. If a cleanup action does not comply with cleanup standards, the cleanup action is an interim action, not a cleanup action. Where a cleanup action involves containment of soil with hazardous substance concentrations exceeding cleanup levels at the point of compliance, the cleanup action may be determined to comply with cleanup standards, provided the requirements specified in WAC 173-340-740(6)(f) are met.

Cleanup alternatives must also comply with the Applicable or Relevant and Appropriate Requirements (ARARs) in accordance with WAC 173-340-710. An evaluation of the ARARs potentially applicable to each alternative was completed and is summarized in Summary of ARARs, Table 13. The alternatives evaluated in this FS comply with the intent of these laws and statutes and are protective of human health and the environment.

### 12.1.3. Compliance with Applicable State and Federal Laws

Cleanup actions conducted under MTCA must comply with applicable state and federal laws. The term "applicable state and federal laws" includes legally applicable requirements and those requirements that Ecology determines to be relevant and appropriate as described in WAC 173-340-710.

### 12.1.4. Provision for Compliance Monitoring

The cleanup action must allow for compliance monitoring in accordance with WAC 173-340-410. Compliance monitoring consists of protection monitoring, performance monitoring and conformational monitoring. Protection monitoring is conducted to confirm that human health and the environment are adequately protected during the construction, operation and maintenance phases of a cleanup action. Performance monitoring is conducted to confirm that the cleanup action has attained cleanup levels and/or, if applicable, remediation levels or other performance standards. Conformational monitoring is conducted to confirm the long-term effectiveness of the cleanup action once cleanup levels and/or, if applicable, remediation levels or other performance standards have been attained.

## 12.2. Other Requirements

Under MTCA, when selecting from the cleanup action alternatives that meet the threshold requirements described above, the alternatives must be further evaluated against the following additional criteria:

- **Use permanent solutions to the maximum extent practicable (WAC 173-340-360[2][b][i]):** MTCA Cleanup Regulation requires that when selecting from cleanup action alternatives that fulfill the threshold requirements, the selected action shall use permanent solutions to the maximum extent practicable (WAC 173-340-360[2][b][i]). MTCA specifies that the permanence of these qualifying alternatives shall be evaluated by balancing the costs and benefits of each of the alternatives using a "disproportionate cost analysis" in accordance with WAC 173-340-360(3)(e). The criteria for conducting a disproportionate cost analysis are described in Section 12.3.
- **Provide a reasonable restoration time frame (WAC 173-340-360[2][b][ii]):** In accordance with WAC 173-340-360(2)(b)(ii), selected cleanup actions must provide for a reasonable restoration time frame. The MTCA Cleanup Regulation lists factors to be considered in evaluating whether a cleanup action provides for a reasonable restoration time frame (WAC 173-340-360[4][b]).
- **Consideration of Public Concerns (WAC 173-340-360[2][b][iii]):** Ecology will consider public comments submitted during the RI/FS process in making its preliminary selection of an appropriate cleanup action alternative. This preliminary selection is subject to further public review and comment when the proposed remedy is published in the Draft Cleanup Action Plan.

## 12.3. MTCA Disproportionate Cost Analysis

The MTCA disproportionate cost analysis (DCA) is used to evaluate which of the cleanup action alternatives that meet the threshold requirements are permanent to the maximum extent practicable. This analysis involves comparing the costs and benefits of the alternatives and selecting the alternative whose incremental costs are not disproportionate to the incremental benefits. The evaluation criteria for the DCA are specified in WAC 173-340-360(2) and include protectiveness, permanence, long-term effectiveness, management of short-term risks, implementability and consideration of public concerns compared to overall cost.

As outlined in WAC 173-340-360(3)(e), the MTCA Cleanup Regulation provides a methodology that uses the criteria below to determine whether the costs associated with each cleanup action alternative are disproportionate relative to the incremental benefit of the alternative over the next lowest cost alternative. The comparison of benefits relative to costs may be quantitative but will often be qualitative. When possible for this FS, quantitative factors such as mass of contaminant removed or percentage of area of impacts remaining were compared to costs for the alternatives evaluated, but many of the benefits associated with the criteria described below were necessarily evaluated qualitatively. Costs are disproportionate to benefits if the incremental costs of the more permanent alternative exceed the incremental degree of benefits achieved over the lower-cost alternative (WAC 173-340-360[e][i]). Where two or more alternatives are equal in benefits, Ecology selects the less costly alternative (WAC 173-340-360[e][ii][c]).

The MTCA criteria used in the DCA are described below.

#### **12.3.1. Protectiveness**

The overall protectiveness of a cleanup action alternative is evaluated based on several factors. First, the extent to which human health and the environment are protected and the degree to which overall risk at a site is reduced are considered. Both on-site and off-site reductions in risk resulting from implementing the alternative are considered.

#### **12.3.2. Permanence**

MTCA specifies that when selecting a cleanup action alternative, preference shall be given to actions that are “permanent solutions to the maximum extent practicable.” Evaluation criteria include the degree to which the alternative permanently reduces the toxicity, mobility or mass of hazardous substances, including the effectiveness of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous substance releases and sources of releases, the degree of irreversibility of waste treatment processes, and the characteristics and quantity of treatment residuals generated.

#### **12.3.3. Long-Term Effectiveness**

Long-term effectiveness is a parameter that expresses the degree of certainty that the cleanup action alternative will be successful in maintaining compliance with cleanup levels over the long-term performance of the cleanup action. The MTCA Cleanup Regulation contains a specific preference ranking for different types of technologies that are to be considered as part of the comparative analysis. The ranking gives the highest preference to technologies such as reuse/recycling, treatment, immobilization/solidification, and disposal in an engineered, lined and monitored facility. Lower preference rankings are given to technologies such as on-site isolation/containment with attendant engineered controls, and institutional controls and monitoring.

#### **12.3.4. Management of Short-term Risks**

Evaluation of this criterion considers the relative magnitude and complexity of actions required to maintain protection of human health and the environment during implementation of the cleanup action. Cleanup actions carry short-term risks, such as potential mobilization of contaminants during construction, or safety risks typical of large construction projects. Some short-term risks can be managed using best practices during project design and construction, while other risks are inherent to project alternatives and can offset the long-term benefits of an alternative.

### **12.3.5. Implementability**

Implementability is an overall metric expressing the relative difficulty and uncertainty of implementing the cleanup action. Evaluation of implementability includes consideration of technical factors such as the availability of mature technologies and experienced contractors to accomplish the cleanup work. It also includes administrative factors associated with permitting and completing the cleanup.

### **12.3.6. Consideration of Public Concerns**

The public involvement process under MTCA is used to identify potential public concerns regarding cleanup action alternatives. The extent to which an alternative addresses those concerns is considered as part of the evaluation process. This includes concerns raised by individuals, community groups, local governments, tribes, federal and state agencies, and other organizations that may have an interest in or knowledge of the site. The public concerns for this site would generally be associated with environmental concerns and performance of the cleanup action, which are addressed under other criteria such as protectiveness and permanence.

### **12.3.7. Cost**

The analysis of cleanup action alternative costs under MTCA includes all costs associated with implementing an alternative, including design, construction, conformational monitoring, and institutional controls. Costs are intended to be comparable among different alternatives to assist in the overall analysis of relative costs and benefits of the alternatives. The costs to implement an alternative include the cost of construction and the net present value of any long-term costs. Long-term costs include operation and maintenance costs, monitoring costs, equipment replacement costs and the cost of maintaining institutional controls. Unit costs used to develop cost estimates for the cleanup action alternatives in this FS were derived using a combination of published engineering reference manuals (i.e., R.S. Means), construction cost estimates solicited from applicable vendors and contractors, review of actual costs incurred during similar, applicable projects, and professional judgment.

## **13.0 EVALUATION AND COMPARISON OF CLEANUP ALTERNATIVES**

This section provides an evaluation and comparative analysis of cleanup action alternatives developed for the site. The alternatives are evaluated with respect to the MTCA evaluation criteria described in Section 12.0 and compared to each other relative to expected performance under each criterion. The components of each cleanup action alternative are described in Section 11.4 and summarized in Table 9. Detailed evaluation of the alternatives is presented in Evaluation of Cleanup Action Alternatives, Table 14. The results of the evaluation are summarized in Summary of MTCA Evaluation and Ranking of Cleanup Action Alternatives, Table 15.

To evaluate reasonableness of costs, planning level estimates were developed for each cleanup action alternative. While adequate for decision making purposes, final cost estimates will depend on the scope of the final remedial design. Please note that (1) the estimated costs for each alternative are considered to be within a margin of +/- 20 percent; (2) unit costs were derived from local and national vendors; (3) long-term monitoring and maintenance are not included in the estimates; and (4) costs are based on 2019 dollars.

### **13.1. Threshold Requirements**

The alternatives developed meet the four MTCA threshold requirements described for cleanup actions: (1) protection of human health and the environment; (2) compliance with cleanup levels; (3) compliance with applicable state and federal regulations; and (4) provisions for compliance monitoring.

### **13.2. MTCA Disproportionate Cost Analysis**

As discussed in Section 12.3, the MTCA analysis of disproportionate costs is used to determine which cleanup alternative meets threshold requirements and is permanent to the maximum extent practicable. The alternatives were evaluated based on the relative benefits ranking factors of the DCA. Using a numeric scoring scale of 1 (lowest) to 5 (highest) and the evaluation criteria in Section 12.3 alternatives were ranked and evaluated as shown in Table 14. Each individual criterion is evaluated based on how it applies to each alternative. Table 15 present the summary of these results, including the summation of the resulting scores for each alternative and the determination of disproportionate cost. The conclusions of this evaluation are summarized in the following sections and the graphs below.

### **13.3. Protectiveness**

Alternative 1, Complete Excavation achieves a high level of protectiveness as a result of permanently removing the contamination from the site and relocating it to a controlled facility, however this doesn't reduce the toxicity of the COCs. Alternative 2, excavation, Consolidation and Capping and Alternative 3, Limited Excavation and Selective Capping also achieve high levels of protectiveness by reducing the exposure pathway to contaminants, but they will leave the contaminants at the site. Alternative 3 is least protective because the contaminants are distributed throughout a larger area of the site and site development will require strict oversight to ensure the soil caps are maintained.

### **13.4. Permanence**

Alternative 1, Complete Excavation achieves the highest level of permanence because contaminants are directly removed from the site. Alternative 2, Excavation, Consolidation and Capping and Alternative 3, Limited Excavation and Selective Capping have lesser and equal levels of permanence because the soil caps must be maintained.

### **13.5. Long-Term Effectiveness**

Alternative 1, Complete Excavation achieves the highest level of long-term effectiveness as a result of permanently removing contamination from the site and relocating it to a controlled facility. Alternative 2, Excavation, Consolidation and Capping and Alternative 3, Limited Excavation and Selective Capping achieve moderate to high levels of long-term effectiveness by capping the soil to reduce the exposure pathway. Alternative 3 was ranked lower than Alternative 2 because the contamination is more widespread and maintaining cap integrity over long periods of time would be more difficult.

### **13.6. Management of Short-Term Risks**

Alternative 3, Limited Excavation and Selective Capping achieves the highest level of managing short term risks because most of the contaminants are managed on site and it requires the least amount of soil handling. Alternative 2, Excavation, Consolidation and Capping has a higher risk than Alternative 3 because although most of the soil is managed on-site, it requires more earth moving activities to excavate and consolidate the contaminated soil into the designated area. Alternative 1, Complete Excavation has the

highest risk because the contaminated soil must be moved over long distances on public roadways over a long time period.

### **13.7. Technical and Administrative Implementability**

Alternative 1, Complete Excavation, Alternative 2 Excavation, Consolidation and Capping and Alternative 3, Limited Excavation and Selective Capping are not difficult to implement from a technical or constructability standpoint. Alternative 3, Limited Excavation and Selective Capping requires more administrative challenges to manage the capped areas widely distributed throughout the site and accompanying environmental covenants. Alternative 1, Complete Excavation, requires the least amount of administrative work because the contaminants are permanently removed from the site and an environmental covenant will not be required.

### **13.8. Consideration of Public Concerns**

Alternatives 1 and 2 will likely have the highest public acceptance. Alternative 1, Complete Excavation removes contamination from the site, but utilizes public roads to move all defined contaminated soil from the site. Alternative 2, Excavation, Consolidation and Capping uses public roads, but less contaminated soil is transported on public roads compared to Alternative 1. Alternative 2 leaves much of the contamination at the site, which could be a public concern equal to the concern of use of public roads. Alternative 3, Limited Excavation and Selective Capping has a similar public concern as Alternative 2, but this concern is more significant than Alternative 2 because the contamination remains distributed over larger areas.

The range of public concerns will not be known until the cleanup action plan is provided for public comments. The understanding of probable public concerns listed in this section is based on prior experience.

### **13.9. Reasonable Restoration Timeframe**

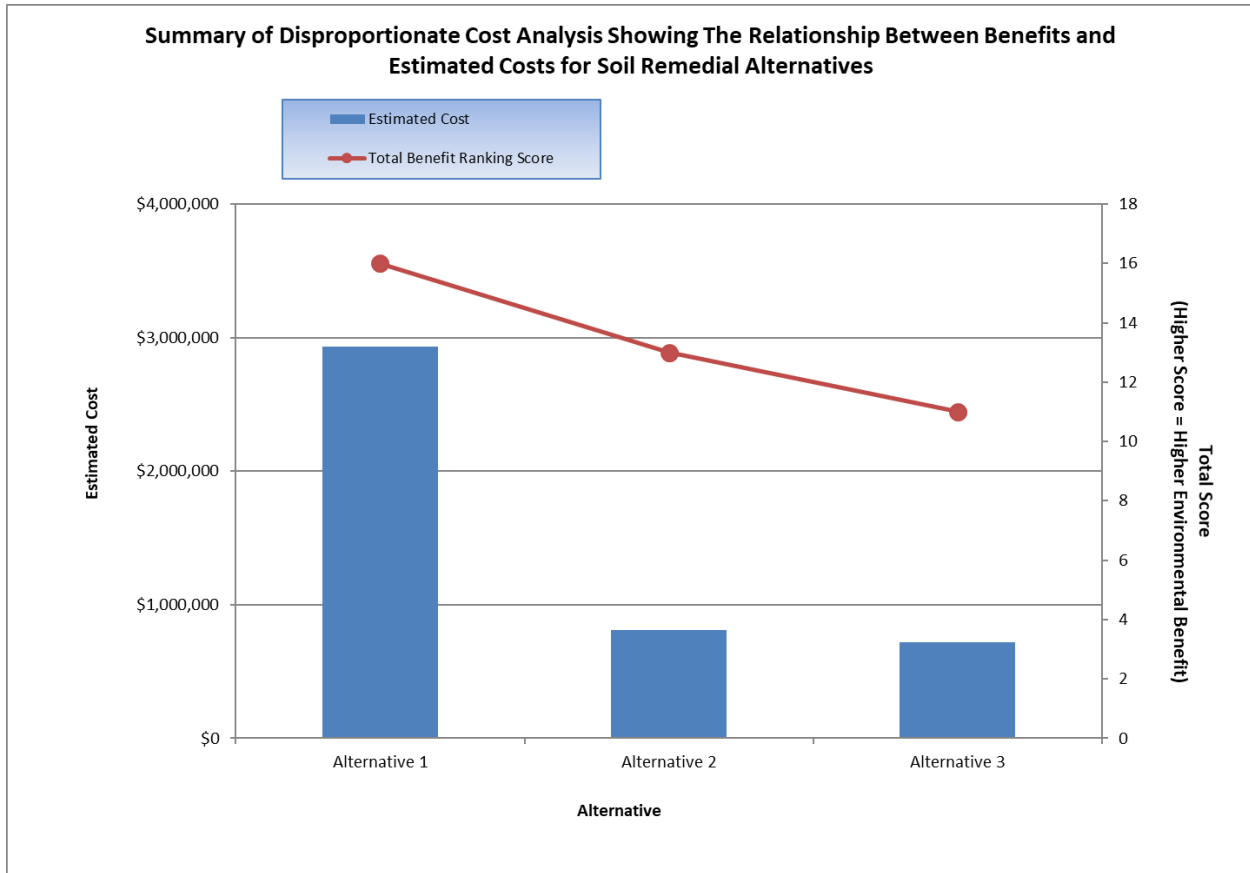
The restoration timeframe for the proposed alternatives is expected to be on the order of about 1 year for each alternative. This timeframe includes project design, permitting, contracting and construction. In general, each cleanup action alternative requires about the same restoration timeframe and they are not significantly different; however, due to the long travel distance, Alternative 1, Complete Excavation could take the longest to implement.

### **13.10. Cost**

For purposes of this evaluation, higher cost equates to a reduction in score. Alternative 1, Complete Excavation is the highest cost alternative by a factor of over 3 when compared to Alternatives 2 and 3. There is about a 10 percent cost difference between Alternative 2, Excavation, Consolidation and Capping and Alternative 3 Limited Excavation and Selective Capping. The cost estimates for each soil remediation alternative were developed as described in Section 11.4 and are presented in Tables 10 through 12. Estimated costs include design, implementation and performance and confirmational monitoring of the process.



## COST/BENEFIT RATIO



### 14.0 RECOMMENDED CLEANUP ACTION

Based on the DCA, Alternative 2, Excavation, Consolidation and Capping is the preferred alternative for remediation. Although the benefit ranking for Alternative 1, Complete Excavation was higher than Alternative 2, the cost was three times greater and the benefit rankings only varied by three points. The costs for Alternatives 2 and 3 were similar. The cost for Alternative 2 was about 10 percent higher than Alternative 3, but the benefit score was 18 percent higher. In compliance with MTCA [WAC 173-340-360(3)(e)(ii)(c)], Alternative 2 should be the preferred cleanup action alternative.

### 15.0 LIMITATIONS

We have prepared this RI/FS for use by the Washington State Department of Ecology. This RI/FS is not intended for use by others, and the information contained herein is not applicable to other sites.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this work plan was prepared. No warranty or other conditions express or implied should be understood.



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**Table 1**  
**Summary of Groundwater Elevations**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

Monitoring Well and Top of Casing Elevation <sup>1</sup> (feet)	Date Measured	Depth to Water <sup>2</sup> (feet)	Groundwater Elevation (feet)	PID <sup>3</sup> (ppm)
MW-1 875.55	12/6/18	17.66	857.89	NA
MW-2 861.67	12/6/18	6.28	855.39	NA
MW-3 866.34	12/6/18	10.23	856.11	NA
MW-4 865.16	12/6/18	9.25	855.91	NA

**Notes:**

<sup>1</sup>Elevations relative to North American Vertical Datum of 1988, as surveyed by Coffman Engineers, January 2019.

<sup>2</sup>Depths measured relative to the north side of the top of the PVC well casing.

<sup>3</sup>Photoionization detection (PID) measured in parts per million (ppm).

NC = Not calculated; NA = Not Measured

**Table 2**  
**Summary of Field-Measured Groundwater Quality Parameters<sup>1</sup>**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

<b>Monitoring Well</b>	<b>Date Collected</b>	<b>pH</b>	<b>Specific Conductivity (mS/cm)</b>	<b>Oxidation Reduction Potential (mV)</b>	<b>Dissolved Oxygen (mg/L)</b>	<b>Turbidity (NTU)</b>	<b>Temperature (°C)</b>
MW-1	12/6/18	6.67	2.221	162.2	2.92	4.5	12.7
MW-2	12/6/18	6.80	0.339	26.2	0.27	0.0	11.5
MW-3	12/6/18	7.22	2.248	42.3	1.19	24.1	14.4
MW-4	12/6/18	6.85	2.959	58.7	1.08	30.0	11.9

**Notes:**

<sup>1</sup>Reported water quality parameters reflect stabilized conditions at the conclusion of well purging during low-flow sampling.

°C = degrees Celsius; mS/cm = millisiemens per centimeter; mg/L = milligrams per liter; mV = millivolts;

NTU = nephelometric turbidity units



**Table 3**  
**Summary of Soil Chemical Analytical Results – Direct Push<sup>1</sup>**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

		Location ID	DP-1		DP-1		DP-2		DP-2		DP-3		DP-3		DP-4		DP-4		DP-5		DP-5		DP-6		DP-6		
		Sample ID	DP-1 (0.0-2.0)	DP-1 (4.0-5.0)	DP-2 (0.0-2.0)	DP-2 (4.0-5.0)	DP-3 (0.0-2.0)	DP-3 (3.0-5.0)	DP-4 (0.0-2.0)	DP-4 (3.0-5.0)	DP-5 (0.0-2.0)	DP-5 (3.0-5.0)	DP-6 (0.0-2.0)	DP-6 (3.0-5.0)													
		Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018
		Start Depth	0	4	0	4	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3	3
		End Depth	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5	5
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>12</sup>	mg/kg	0.77	U	0.98	U	1.3	U	0.88	U	0.81	U	0.80	U	0.94	U	1.2	U	1.5	U	1.2	U	1.4	J	2.5	J
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	44.6	J	3.1	U	2.9	U	2.9	U	14.1	J	2.9	U	3.1	U	3.5	U	18.7	J	3.5	U	507	J	4.8	J
	Motor oil-range organics	2,000	mg/kg	209	J	9.2	J	8.2	J	5.1	U	40.7	J	5.2	U	10.5	J	6.3	U	65.6	J	7.9	J	833	J	14.1	J
Metals <sup>5</sup>	Antimony	32	mg/kg	2.1	UJ	2.3	UJ	2.3	U	2.3	U	2.3	U	2.2	U	2.3	U	0.50	U	2.3	U	2.5	U	2.3	U	2.4	U
	Arsenic	20	mg/kg	5.6	J	1.5	J	2.3	J	2.0	J	2.2	J	1.5	J	2.2	J	0.38	J	3.2	J	1.5	J	5.2	J	1.7	J
	Beryllium	25	mg/kg	0.076	U	0.082	U	0.080	U	0.087	J	0.081	U	0.077	U	0.080	U	0.041	J	0.081	U	0.10	J	0.083	U	0.086	U
	Cadmium	2	mg/kg	1.9	J	0.12	U	0.21	J	0.12	U	0.44	J	0.14	J	0.12	U	0.026	U	0.53	J	0.13	U	6.3	J	0.14	J
	Chromium	42	mg/kg	163	J	7.8	J	7.1	J	7.0	J	8.6	J	8.1	J	8.2	J	2.8	J	10.3	J	9.2	J	60.1	J	10.4	J
	Copper	100	mg/kg	97.2	J	23.8	J	18.2	J	16.6	J	42.7	J	14.1	J	20.2	J	3.9	J	63.1	J	14.3	J	336	J	16.6	J
	Lead	220	mg/kg	158	J	8.1	J	4.5	J	4.4	J	46.4	J	4.1	J	24.8	J	1.7	J	123	J	4.9	J	865	J	40.5	J
	Lead (TCLP)	5 <sup>13</sup>	mg/L	--	J	--	J	--	J	--	J	--	J	--	J	--	J	--	J	--	J	--	J	0.64	J	--	J
	Mercury <sup>6</sup>	2	mg/kg	0.10	J	0.012	J	0.0091	U	0.0089	U	0.069	J	0.0095	U	0.026	J	0.0098	U	0.072	J	0.010	U	1.0	J	0.0091	U
	Nickel	100	mg/kg	48.5	J	7.5	J	8.4	J	7.5	J	9.3	J	6.6	J	9.4	J	2.6	J	10.6	J	6.5	J	48.3	J	7.0	J
	Selenium	0.8	mg/kg	1.9	U	2.0	U	2.0	U	2.0	U	2.0	U	1.9	U	2.0	U	0.43	U	2.0	U	2.2	U	2.0	U	2.1	U
	Silver	400	mg/kg	0.21	U	0.22	U	0.22	U	0.22	U	0.22	U	0.21	U	0.22	U	0.048	U	0.22	U	0.24	U	0.22	U	0.23	U
	Thallium	0.8	mg/kg	4.6	J	5.7	J	3.7	J	3.0	J	3.6	J	5.6	J	3.8	J	0.30	U	3.8	J	3.3	J	3.3	J	5.1	J
Zinc	270	mg/kg	506	J	79.0	J	56.3	J	60.4	J	153	J	59.2	J	68.8	J	8.3	J	114	J	37.6	J	1,690	J	62.9	J	
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	1,000	µg/kg	10.8	U	11.5	U	11.1	U	11.1	U	11.2	U	11.2	U	11.9	U	13.4	U	12.1	U	13.1	U	11.8	U	12.4	U
	PCB-Aroclor 1221		µg/kg	13.6	U	14.5	U	14.0	U	14.0	U	14.1	U	14.2	U	15.0	U	16.9	U	15.2	U	16.5	U	14.9	U	15.6	U
	PCB-Aroclor 1232		µg/kg	15.5	U	16.5	U	16.0	U	15.9	U	16.0	U	16.1	U	17.1	U	19.2	U	17.3	U	18.8	U	16.9	U	17.8	U
	PCB-Aroclor 1242		µg/kg	13.2	U	14.0	U	13.5	U	13.5	U	13.6	U	13.7	U	14.5	U	16.3	U	14.7	U	15.9	U	14.3	U	15.1	U
	PCB-Aroclor 1248		µg/kg	11.6	U	12.4	U	12.0	U	11.9	U	12.0	U	12.1	U	12.8	U	14.4	U	13.0	U	14.1	U	12.7	U	13.3	U
	PCB-Aroclor 1254		µg/kg	175	J	12.2	U	11.7	U	11.7	U	11.8	U	11.9	U	12.6	U	14.1	U	12.8	U	13.8	U	5,300	J	13.1	U
	PCB-Aroclor 1260		µg/kg	9.3	U	9.9	U	15.1	J	17.8	J	1,310	J	9.6	U	79.5	J	11.5	U	189	J	11.2	U	10.1	U	10.6	U
	Total PCB Aroclors		µg/kg	175	J	16.5	U	15.1	J	17.8	J	1,310	J	16.1	U	79.5	J	19.2	U	189	J	18.8	U	5,300	J	17.8	U

			Location ID	DP-1	DP-1	DP-2	DP-2	DP-3	DP-3	DP-4	DP-4	DP-5	DP-5	DP-6	DP-6												
			Sample ID	DP-1 (0.0-2.0)	DP-1 (4.0-5.0)	DP-2 (0.0-2.0)	DP-2 (4.0-5.0)	DP-3 (0.0-2.0)	DP-3 (3.0-5.0)	DP-4 (0.0-2.0)	DP-4 (3.0-5.0)	DP-5 (0.0-2.0)	DP-5 (3.0-5.0)	DP-6 (0.0-2.0)	DP-6 (3.0-5.0)												
			Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018												
			Start Depth	0	4	0	4	0	3	0	3	0	3	0	3												
			End Depth	2	5	2	5	2	5	2	5	2	5	2	5												
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft												
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	22.0	U	23.5	U	23.5	U	20.9	U	21.5	U	20.1	U	20.4	U	26.0	U	27.3	U	25.7	U	21.1	U	21.5	U
	1,1,1-Trichloroethane	2,000	µg/kg	32.7	U	34.9	U	34.9	U	31.1	U	31.9	U	29.8	U	30.2	U	38.5	U	40.5	U	38.2	U	31.2	U	32.0	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	12.4	U	13.2	U	13.2	U	11.8	U	12.0	U	11.3	U	11.4	U	14.6	U	15.3	U	14.4	U	11.8	U	12.1	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	81.4	U	87.0	U	86.9	U	77.4	U	79.3	U	74.2	U	75.2	U	95.9	U	101	U	95.0	U	77.8	U	79.6	U
	1,1,2-Trichloroethane	17,500	µg/kg	8.4	U	9.0	U	9.0	U	8.0	U	8.2	U	7.7	U	7.8	U	9.9	U	10.4	U	9.8	U	8.0	U	8.2	U
	1,1-Dichloroethane	175,000	µg/kg	7.9	U	8.4	U	8.4	U	7.5	U	7.7	U	7.2	U	7.3	U	9.3	U	9.7	U	9.2	U	7.5	U	7.7	U
	1,1-Dichloroethene	4,000,000	µg/kg	21.1	U	22.5	U	22.5	U	20.0	U	20.5	U	19.2	U	19.5	U	24.8	U	26.1	U	24.6	U	20.1	U	20.6	U
	1,1-Dichloropropene	NE	µg/kg	32.4	U	34.6	U	34.6	U	30.8	U	31.6	U	29.6	U	30.0	U	38.2	U	40.1	U	37.8	U	31.0	U	31.7	U
	1,2,3-Trichlorobenzene	NE	µg/kg	11.2	U	12.0	U	12.0	U	10.7	U	10.9	U	10.2	U	10.4	U	13.2	U	13.9	U	13.1	U	10.7	U	11.0	U
	1,2,3-Trichloropropane	33.3	µg/kg	18.4	U	19.6	U	19.6	U	17.5	U	17.9	U	16.8	U	17.0	U	21.7	U	22.8	U	21.4	U	17.6	U	18.0	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	15.6	U	16.6	U	16.6	U	14.8	U	15.2	U	14.2	U	14.4	U	18.4	U	19.3	U	18.2	U	14.9	U	15.2	U
	1,2,4-Trimethylbenzene	NE	µg/kg	14.0	U	15.0	U	15.0	U	13.3	U	13.7	U	12.8	U	13.0	U	16.5	U	17.4	U	16.4	U	13.4	U	13.7	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	244	U	261	U	261	U	232	U	238	U	223	U	226	U	288	U	302	U	285	U	233	U	239	U
	1,2-Dibromoethane (EDB) <sup>14</sup>	5	µg/kg	0.25	UJ	0.27	UJ	0.25	UJ	0.26	UJ	0.26	UJ	0.26	UJ	0.28	UJ	0.31	UJ	0.28	UJ	0.32	UJ	0.27	UJ	0.30	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.8	U	3.0	U	3.0	U	2.7	U	2.8	U	2.6	U	2.6	U	3.3	U	3.5	U	3.3	U	2.7	U	2.8	U
	1,2-Dichloroethane	11,000	µg/kg	7.7	U	8.2	U	8.2	U	7.3	U	7.5	U	7.0	U	7.1	U	9.1	U	9.6	U	9.0	U	7.4	U	7.5	U
	1,2-Dichloropropane	27,800	µg/kg	12.1	U	12.9	U	12.9	U	11.5	U	11.8	U	11.0	U	11.2	U	14.3	U	15.0	U	14.1	U	11.6	U	11.8	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	11.2	U	12.0	U	11.9	U	10.6	U	10.9	U	10.2	U	10.3	U	13.2	U	13.8	U	13.0	U	10.7	U	10.9	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.6	U	2.7	U	2.7	U	2.4	U	2.5	U	2.3	U	2.4	U	3.0	U	3.2	U	3.0	U	2.4	U	2.5	U
	1,3-Dichloropropane	NE	µg/kg	9.7	U	10.4	U	10.4	U	9.2	U	9.5	U	8.9	U	9.0	U	11.4	U	12.0	U	11.3	U	9.3	U	9.5	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	4.4	U	4.6	U	4.6	U	4.1	U	4.2	U	4.0	U	4.0	U	5.1	U	5.4	U	5.1	U	4.2	U	4.3	U
	2,2-Dichloropropane	NE	µg/kg	8.8	U	9.4	U	9.3	U	8.3	U	8.5	U	8.0	U	8.1	U	10.3	U	10.8	U	10.2	U	8.4	U	8.6	U
	2-Butanone (MEK)	48,000,000	µg/kg	37.3	U	39.9	U	39.8	U	35.5	U	36.4	U	34.0	U	34.5	U	44.0	U	46.2	U	43.6	U	35.7	U	36.5	U
	2-Chlorotoluene	1,600,000	µg/kg	3.5	U	3.7	U	3.7	U	3.3	U	3.4	U	3.1	U	3.2	U	4.1	U	4.3	U	4.0	U	3.3	U	3.4	U
	4-Chlorotoluene	NE	µg/kg	3.6	U	3.8	U	3.8	U	3.4	U	3.5	U	3.3	U	3.3	U	4.2	U	4.4	U	4.2	U	3.4	U	3.5	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	14.6	U	15.6	U	15.6	U	13.9	U	14.2	U	13.3	U	13.5	U	17.2	U	18.1	U	17.0	U	13.9	U	14.3	U
	Acetone	72,000,000	µg/kg	436	U	<b>931</b>	J	466	U	415	U	425	U	398	U	403	U	514	U	540	U	509	U	417	U	427	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	58.8	U	62.8	U	62.7	U	55.9	U	57.3	U	53.6	U	54.3	U	69.3	U	72.8	U	68.6	U	56.2	U	57.5	U
	Benzene	30	µg/kg	4.0	U	4.2	U	4.2	U	3.8	U	3.9	U	3.6	U	3.7	U	4.7	U	4.9	U	4.6	U	3.8	U	3.9	U
	Bromobenzene	NE	µg/kg	4.3	U	4.6	U	4.6	U	4.1	U	4.2	U	3.9	U	4.0	U	5.1	U	5.3	U	5.0	U	4.1	U	4.2	U
	Bromochloromethane	NE	µg/kg	24.3	U	25.9	U	25.9	U	23.1	U	23.7	U	22.1	U	22.4	U	28.6	U	30.1	U	28.3	U	23.2	U	23.7	U
	Bromodichloromethane	16,100	µg/kg	24.0	U	25.6	U	25.6	U	22.8	U	23.4	U	21.9	U	22.2	U	28.3	U	29.7	U	28.0	U	22.9	U	23.5	U
	Bromoform (Tribromomethane)	127,000	µg/kg	106	U	114	U	113	U	101	U	104	U	96.9	U	98.2	U	125	U	131	U	124	U	102	U	104	U
	Bromomethane	112,000	µg/kg	82.1	U	87.7	U	87.6	U	78.1	U	80.0	U	74.9	U	75.9	U	96.7	U	102	U	95.8	U	78.4	U	80.3	U
	Carbon Tetrachloride	14,300	µg/kg	33.5	U	35.8	U	35.8	U	31.9	U	32.7	U	30.6	U	31.0	U	39.5	U	41.5	U	39.1	U	32.0	U	32.8	U
Chlorobenzene	1,600,000	µg/kg	4.0	U	4.2	U	4.2	U	3.8	U	3.9	U	3.6	U	3.7	U	4.7	U	4.9	U	4.6	U	3.8	U	3.9	U	
Chloroethane	NE	µg/kg	36.5	U	39.0	U	38.9	U	34.7	U	35.6	U	33.3	U	33.7	U	43.0	U	45.2	U	42.6	U	34.9	U	35.7	U	
Chloroform	32,300	µg/kg	35.1	U	37.5	U	37.4	U	33.4	U	34.2	U	32.0	U	32.4	U	41.3	U	43.4	U	40.9	U	33.5	U	34.3	U	
Chloromethane	NE	µg/kg	16.8	U	18.0	U	18.0	U	16.0	U	16.4	U	15.4	U	15.6	U	19.8	U	20.8	U	19.6	U	16.1	U	16.5	U	
cis-1,2-Dichloroethene	160,000	µg/kg	11.6	U	12.4	U	12.4	U	11.1	U	11.3	U	10.6	U	10.8	U	13.7	U	14.4	U	13.6	U	11.1	U	11.4	U	
cis-1,3-Dichloropropene	NE	µg/kg	10.0	U	10.7	U	10.7	U	9.6	U	9.8	U	9.2	U	9.3	U	11.8	U	12.4	U	11.7	U	9.6	U	9.8	U	

		Location ID	DP-1	DP-1	DP-2	DP-2	DP-3	DP-3	DP-4	DP-4	DP-5	DP-5	DP-6	DP-6													
		Sample ID	DP-1 (0.0-2.0)	DP-1 (4.0-5.0)	DP-2 (0.0-2.0)	DP-2 (4.0-5.0)	DP-3 (0.0-2.0)	DP-3 (3.0-5.0)	DP-4 (0.0-2.0)	DP-4 (3.0-5.0)	DP-5 (0.0-2.0)	DP-5 (3.0-5.0)	DP-6 (0.0-2.0)	DP-6 (3.0-5.0)													
		Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018													
		Start Depth	0	4	0	4	0	3	0	3	0	3	0	3													
		End Depth	2	5	2	5	2	5	2	5	2	5	2	5													
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft													
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
VOCs <sup>8</sup>	Dibromochloromethane	11,900	µg/kg	8.1	U	8.7	U	8.7	U	7.7	U	7.9	U	7.4	U	7.5	U	9.6	U	10.1	U	9.5	U	7.8	U	8.0	U
	Dibromomethane	800,000	µg/kg	12.9	U	13.8	U	13.7	U	12.2	U	12.5	U	11.7	U	11.9	U	15.2	U	15.9	U	15.0	U	12.3	U	12.6	U
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	22.7	U	24.3	U	24.3	U	21.6	U	22.2	U	20.7	U	21.0	U	26.8	U	28.1	U	26.5	U	21.7	U	22.2	U
	Ethyl Ether	16,000,000	µg/kg	42.9	U	45.9	U	45.8	U	40.8	U	41.9	U	39.2	U	39.7	U	50.6	U	53.2	U	50.1	U	41.0	U	42.0	U
	Ethylbenzene	6,000	µg/kg	3.8	U	4.1	U	4.1	U	3.6	U	3.7	U	3.5	U	3.5	U	4.5	U	4.7	U	4.5	U	3.6	U	3.7	U
	HCFC-21	NE	µg/kg	97.0	U	104	U	103	U	92.2	U	94.5	U	88.4	U	89.6	U	114	U	120	U	113	U	92.7	U	94.8	U
	Hexachlorobutadiene	12,800	µg/kg	17.1	U	18.3	U	18.3	U	16.3	U	16.7	U	15.6	U	15.8	U	20.2	U	21.2	U	20.0	U	16.4	U	16.7	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.1	U	3.3	U	3.3	U	3.0	U	3.0	U	2.8	U	2.9	U	3.7	U	3.9	U	3.6	U	3.0	U	3.0	U
	Methyl t-butyl ether	100	µg/kg	8.4	U	8.9	U	8.9	U	7.9	U	8.1	U	7.6	U	7.7	U	9.8	U	10.3	U	9.7	U	8.0	U	8.2	U
	Methylene Chloride <sup>14</sup>	20	µg/kg	4.1	UJ	4.4	UJ	4.1	UJ	4.3	UJ	4.2	UJ	4.3	UJ	4.5	UJ	5.1	UJ	4.5	UJ	5.1	UJ	4.4	UJ	4.9	UJ
	Naphthalene	5,000	µg/kg	65.7	U	70.2	U	70.1	U	62.4	U	64.0	U	59.9	U	60.7	U	77.4	U	81.3	U	76.6	U	<b>71.6</b>	J	64.2	U
	n-Butylbenzene	4,000,000	µg/kg	33.4	U	35.7	U	35.6	U	31.8	U	32.6	U	30.5	U	30.9	U	39.4	U	41.3	U	39.0	U	31.9	U	32.7	U
	n-Propylbenzene	8,000,000	µg/kg	3.7	U	4.0	U	4.0	U	3.6	U	3.7	U	3.4	U	3.5	U	4.4	U	4.6	U	4.4	U	3.6	U	3.7	U
	p-Isopropyltoluene	NE	µg/kg	21.3	U	22.8	U	22.8	U	20.3	U	20.8	U	19.4	U	19.7	U	25.1	U	26.4	U	24.9	U	20.4	U	20.9	U
	Sec-Butylbenzene	8,000,000	µg/kg	13.4	U	14.4	U	14.3	U	12.8	U	13.1	U	12.3	U	12.4	U	15.8	U	16.6	U	15.7	U	12.8	U	13.1	U
	Styrene	16,000,000	µg/kg	3.2	U	3.4	U	3.4	U	3.0	U	3.1	U	2.9	U	3.0	U	3.8	U	4.0	U	3.7	U	3.1	U	3.1	U
	Tert-Butylbenzene	8,000,000	µg/kg	13.5	U	14.4	U	14.4	U	12.8	U	13.1	U	12.3	U	12.5	U	15.9	U	16.7	U	15.7	U	12.9	U	13.2	U
	Tetrachloroethene	50	µg/kg	24.7	U	26.4	U	26.4	U	23.5	U	24.1	U	22.5	U	22.8	U	29.1	U	30.6	U	28.8	U	23.6	U	24.2	U
	Tetrahydrofuran	NE	µg/kg	102	U	109	U	109	U	97.0	U	99.4	U	93.0	U	94.3	U	120	U	126	U	119	U	97.5	U	99.8	U
	Toluene	7,000	µg/kg	17.1	U	18.3	U	18.3	U	16.3	U	16.7	U	15.6	U	15.8	U	20.2	U	21.2	U	20.0	U	16.4	U	16.7	U
	Total Xylenes	9,000	µg/kg	16.3	U	17.4	U	17.4	U	15.5	U	15.9	U	14.8	U	15.0	U	19.2	U	20.1	U	19.0	U	15.6	U	15.9	U
	trans-1,2-Dichloroethene	1,600,000	µg/kg	32.8	U	35.1	U	35.0	U	31.2	U	32.0	U	29.9	U	30.3	U	38.7	U	40.6	U	38.3	U	31.4	U	32.1	U
	trans-1,3-Dichloropropene	NE	µg/kg	9.8	U	10.4	U	10.4	U	9.3	U	9.5	U	8.9	U	9.0	U	11.5	U	12.1	U	11.4	U	9.3	U	9.5	U
	Trichloroethene	30	µg/kg	10.8	U	11.6	U	11.5	U	10.3	U	10.5	U	9.9	U	10	U	12.7	U	13.4	U	12.6	U	10.3	U	10.6	U
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	122	U	131	U	131	U	116	U	119	U	112	U	113	U	144	U	151	U	143	U	117	U	120	U	
Vinyl Chloride	240,000	µg/kg	13.8	U	14.8	U	14.7	U	13.1	U	13.5	U	12.6	U	12.8	U	16.3	U	17.1	U	16.1	U	13.2	U	13.5	U	
PAHs <sup>9</sup>	1-Methylnaphthalene	5,000	µg/kg	<b>6.3</b>	J	0.67	U	0.65	U	0.65	U	0.65	U	0.65	U	6.9	U	0.78	U	0.70	U	0.76	U	342	U	0.72	U
	2-Methylnaphthalene		µg/kg	<b>4.4</b>	J	0.63	U	0.61	U	0.61	U	0.61	U	0.62	U	6.5	U	0.73	U	<b>0.85</b>	J	0.71	U	323	U	0.68	U
	Naphthalene		µg/kg	<b>3.3</b>	J	0.96	U	0.93	U	0.93	U	0.94	U	0.94	U	9.9	U	1.1	U	<b>1.2</b>	J	1.1	U	<b>1,040</b>	J	1.0	U
	Acenaphthene	NE	µg/kg	<b>3.2</b>	J	<b>0.52</b>	J	<b>0.79</b>	J	0.49	U	0.50	U	0.50	U	<b>20.7</b>	J	0.59	U	<b>3.0</b>	J	0.58	U	<b>1,840</b>	J	<b>2.6</b>	J
	Acenaphthylene	NE	µg/kg	<b>45.3</b>	J	0.62	U	0.60	U	0.60	U	0.60	U	0.60	U	6.4	U	0.72	U	<b>4.4</b>	J	0.70	U	316	U	0.67	U
	Anthracene	NE	µg/kg	<b>43.0</b>	J	0.58	U	0.57	U	0.57	U	0.57	U	0.57	U	<b>177</b>		0.68	U	<b>21.1</b>		0.66	U	<b>6,200</b>	J	<b>10.6</b>	J
	Benzo(a)anthracene	NE	µg/kg	<b>147</b>	J	<b>1.7</b>	J	1.3	U	1.3	U	<b>6.6</b>	J	1.3	U	<b>1,380</b>		1.6	U	<b>108</b>		1.5	U	<b>20,700</b>		<b>47.7</b>	
	Benzo(a)pyrene	100	µg/kg	<b>122</b>	J	<b>2.2</b>	J	0.83	U	0.83	U	<b>6.2</b>	J	0.84	U	<b>804</b>		1.0	U	<b>77.0</b>		0.97	U	<b>14,200</b>		<b>42.5</b>	
	Benzo(b)fluoranthene	NE	µg/kg	<b>175</b>	J	<b>2.5</b>	J	<b>0.63</b>	J	0.45	U	<b>9.1</b>	J	0.46	U	<b>1,070</b>		<b>0.89</b>	J	<b>126</b>		0.53	U	<b>19,300</b>		<b>56.7</b>	
	Benzo(g,h,i)perylene	NE	µg/kg	<b>72.4</b>	J	<b>1.4</b>	J	0.76	U	0.76	U	<b>5.4</b>	J	0.77	U	<b>303</b>		0.92	U	<b>59.3</b>		0.89	U	<b>9,160</b>		<b>28.7</b>	
	Benzo(k)fluoranthene	NE	µg/kg	<b>66.4</b>	J	<b>1.1</b>	J	1.0	U	1.0	U	<b>3.5</b>	J	1.0	U	<b>484</b>		1.2	U	<b>48.1</b>		1.2	U	<b>8,310</b>		<b>23.9</b>	
	Chrysene	NE	µg/kg	<b>161</b>	J	<b>1.7</b>	J	1.6	U	1.6	U	<b>6.2</b>	J	1.7	U	<b>1,260</b>		2.0	U	<b>115</b>		1.9	U	<b>18,900</b>		<b>45.7</b>	
	Dibenzo(a,h)anthracene	NE	µg/kg	<b>26.3</b>	J	0.58	U	0.56	U	0.56	U	<b>1.0</b>	J	0.56	U	<b>116</b>	J	0.67	U	<b>12.1</b>	J	0.65	U	<b>1,890</b>	J	<b>8.1</b>	J
Fluoranthene	NE	µg/kg	<b>259</b>	J	0.53	UJ	0.52	UJ	0.52	UJ	0.52	UJ	0.52	UJ	<b>2,220</b>	J	0.62	UJ	<b>195</b>	J	0.60	UJ	<b>42,000</b>	J	<b>82.8</b>	J	
Fluorene	NE	µg/kg	<b>18.1</b>	J	<b>0.40</b>	J	0.38	U	0.38	U	<b>1.2</b>	J	0.38	U	<b>8.6</b>	J	0.45	U	<b>2.6</b>	J	0.44	U	<b>1,970</b>	J	<b>3.2</b>	J	

				Location ID	DP-1	DP-1	DP-2	DP-2	DP-3	DP-3	DP-4	DP-4	DP-5	DP-5	DP-6	DP-6											
				Sample ID	DP-1 (0.0-2.0)	DP-1 (4.0-5.0)	DP-2 (0.0-2.0)	DP-2 (4.0-5.0)	DP-3 (0.0-2.0)	DP-3 (3.0-5.0)	DP-4 (0.0-2.0)	DP-4 (3.0-5.0)	DP-5 (0.0-2.0)	DP-5 (3.0-5.0)	DP-6 (0.0-2.0)	DP-6 (3.0-5.0)											
				Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018											
				Start Depth	0	4	0	4	0	3	0	3	0	3	0	3											
				End Depth	2	5	2	5	2	5	2	5	2	5	2	5											
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft												
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
PAHs <sup>9</sup>	Indeno(1,2,3-c,d)pyrene	NE	µg/kg	62.6	J	1.3	J	0.81	U	0.81	U	4.2	J	0.82	U	300		0.97	U	48.4		0.95	U	7,440		25.7	
	Phenanthrene	NE	µg/kg	123	J	2.4	U	2.3	U	2.3	U	3.5	J	2.3	U	98.7	J	2.8	U	57.7		2.7	U	20,100		31.5	
	Pyrene	NE	µg/kg	235	J	1.9	U	1.8	U	1.8	U	1.9	U	1.9	U	2,240		2.2	U	184		2.2	U	37,000		71.7	
	Total cPAH TEQ (ND=DL) <sup>10,11</sup>	100	µg/kg	171.3	J	2.91	J	0.670	J	0.629	U	8.70	J	0.636	U	1,151.6	J	0.821	J	112.41	J	0.736	U	20,153	J	59.17	J

				Location ID	DP-7	DP-7	DP-8	DP-8	DP-9	DP-9	DP-10	DP-10	DP-11	DP-11	DP-12	DP-12											
				Sample ID	DP-7 (0.0-2.0)	DP-7 (3.0-5.0)	DP-8 (0.0-2.0)	DP-8 (3.0-5.0)	DP-9 (0.0-2.0)	DP-9 (3.0-5.0)	DP-10 (0.0-2.0)	DP-10 (3.0-5.0)	DP-11 (0.0-2.0)	DP-11 (3.0-5.0)	DP-12 (0.0-2.0)	DP-12 (3.0-5.0)											
				Sample Date	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018											
				Start Depth	0	3	0	3	0	3	0	3	0	3	0	3											
				End Depth	2	5	2	5	2	5	2	5	2	5	2	5											
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft											
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>12</sup>	mg/kg	1.1	U	0.95	U	1.0	U	1.7	J	0.83	U	1.0	U	0.93	U	1.2	U	0.91	U	1.0	U	0.97	U	0.95	U
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	58.9		3.4	U	5.4	J	3.4	U	3.1	U	3.4	U	3.1	U	3.4	U	3.0	U	3.2	U	5.4	J	3.0	U
	Motor oil-range organics	2,000	mg/kg	168		6.1	U	15.0		6.1	U	6.5	J	6.0	U	7.1	J	6.2	U	5.7	J	5.7	U	20.6		5.3	U
Metals <sup>5</sup>	Antimony	32	mg/kg	2.9	J	0.53	U	2.4	U	0.52	U	2.3	U	0.48	U	2.3	U	0.52	U	2.2	UJ	2.2	UJ	2.2	U	2.2	U
	Arsenic	20	mg/kg	2.7	J	0.59	J	2.9	J	0.84	J	1.7	J	0.93	J	1.7	J	1.6		2.2	J	1.2	U	1.8	J	1.4	J
	Beryllium	25	mg/kg	0.079	U	0.058	J	0.086	U	0.077	J	0.081	U	0.040	J	0.11	J	0.031	J	0.079	U	0.080	U	0.077	U	0.078	U
	Cadmium	2	mg/kg	1.4		0.044	J	0.34	J	0.027	U	0.26	J	0.026	U	0.22	J	0.027	U	0.18	J	0.12	U	0.53	J	0.12	U
	Chromium	42	mg/kg	12.4		5.3		11.7		4.2		7.5		4.5		8.0		5.5		8.1		7.6		8.0		6.6	
	Copper	100	mg/kg	113		10.6		36.9		10.2		18.6		10.7		18.5		11.9		16.6		12.3		30.1		15.6	
	Lead	220	mg/kg	107		3.3		54.1		3.1		5.3		2.4		8.7		2.7		6.6		3.7		542		31.0	
	Lead (TCLP)	5 <sup>13</sup>	mg/L	--		--		--		--		--		--		--		--		--		--		0.19	J	--	
	Mercury <sup>6</sup>	2	mg/kg	0.28		0.011	U	0.019	J	0.011	U	0.0090	U	0.011	U	0.022		0.011	U	0.0089	U	0.0099	U	0.0093	U	0.0093	U
	Nickel	100	mg/kg	13.3		4.0		10.1		4.4		8.2		4.9		7.7		5.9		7.7		6.3		9.4		6.8	
	Selenium	0.8	mg/kg	1.9	U	0.46	U	2.1	U	0.45	U	2.0	U	0.42	U	2.0	U	0.45	U	1.9	U	2.0	U	1.9	U	1.9	U
	Silver	400	mg/kg	0.21	U	0.051	U	0.23	U	0.050	U	0.22	U	0.047	U	0.23	U	0.050	U	0.21	U	0.22	U	0.21	U	0.21	U
	Thallium	0.8	mg/kg	3.5	J	0.34	J	3.8	J	0.47	J	4.3	J	0.30	U	3.4	J	0.91	J	3.8	J	2.4	J	3.6	J	2.0	J
Zinc	270	mg/kg	223		20.8		111		19.4		53.4		18.7		65.1		29.1		61.3		44.8		171		57.7		
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	1,000	µg/kg	12.0	U	12.8	U	12.0	U	12.9	U	11.7	U	12.8	U	11.7	U	13.0	U	11.5	U	12.0	U	11.0	U	11.3	U
	PCB-Aroclor 1221		µg/kg	15.1	U	16.1	U	15.2	U	16.3	U	14.8	U	16.2	U	14.8	U	16.4	U	14.5	U	15.1	U	13.9	U	14.3	U
	PCB-Aroclor 1232		µg/kg	17.2	U	18.4	U	17.3	U	18.6	U	16.8	U	18.4	U	16.9	U	18.7	U	16.5	U	17.2	U	15.8	U	16.2	U
	PCB-Aroclor 1242		µg/kg	14.6	U	15.6	U	14.7	U	15.8	U	14.3	U	15.6	U	14.3	U	15.9	U	14.0	U	14.6	U	13.4	U	13.8	U
	PCB-Aroclor 1248		µg/kg	12.9	U	13.8	U	13.0	U	13.9	U	12.6	U	13.8	U	12.6	U	14.0	U	12.3	U	12.9	U	11.8	U	12.2	U
	PCB-Aroclor 1254		µg/kg	798		13.5	U	12.7	U	13.7	U	12.4	U	13.6	U	12.4	U	13.8	U	12.1	U	12.6	U	11.6	U	11.9	U
	PCB-Aroclor 1260		µg/kg	10.3	U	11.0	U	70.6		11.1	U	66.7		11.0	U	10.1	U	11.2	U	9.8	U	10.3	U	37.9	J	9.7	U
	Total PCB Aroclors		µg/kg	798		18.4	U	70.6		18.6	U	66.7		18.4	U	16.9	U	18.7	U	16.5	U	17.2	U	37.9	J	16.2	U

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	Location ID		DP-7		DP-8		DP-9		DP-10		DP-11		DP-12											
				Sample ID	Sample Date	DP-7 (0.0-2.0)	DP-7 (3.0-5.0)	DP-8 (0.0-2.0)	DP-8 (3.0-5.0)	DP-9 (0.0-2.0)	DP-9 (3.0-5.0)	DP-10 (0.0-2.0)	DP-10 (3.0-5.0)	DP-11 (0.0-2.0)	DP-11 (3.0-5.0)	DP-12 (0.0-2.0)	DP-12 (3.0-5.0)										
				0	3	0	3	0	3	0	3	0	3	0	3	0	3										
				2	5	2	5	2	5	2	5	2	5	2	5	2	5										
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft											
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	25.6	U	28.8	U	25.2	U	31.1	U	19.8	U	28.1	U	27.0	U	26.5	U	22.6	U	23.2	U	23.2	U	22.5	U
	1,1,1-Trichloroethane	2,000	µg/kg	38.0	U	42.8	U	37.4	U	46.1	U	29.4	U	41.7	U	40.1	U	39.4	U	33.5	U	34.4	U	34.4	U	33.4	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	14.4	U	16.2	U	14.1	U	17.4	U	11.1	U	15.8	U	15.1	U	14.9	U	12.7	U	13.0	U	13.0	U	12.6	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	94.6	U	107	U	93.0	U	115	U	73.2	U	104	U	99.7	U	98.1	U	83.5	U	85.7	U	85.7	U	83.1	U
	1,1,2-Trichloroethane	17,500	µg/kg	9.8	U	11.0	U	9.6	U	11.8	U	7.6	U	10.7	U	10.3	U	10.1	U	8.6	U	8.8	U	8.8	U	8.6	U
	1,1-Dichloroethane	175,000	µg/kg	9.1	U	10.3	U	9.0	U	11.1	U	7.1	U	10.0	U	9.6	U	9.5	U	8.1	U	8.3	U	8.3	U	8.0	U
	1,1-Dichloroethene	4,000,000	µg/kg	24.5	UJ	27.6	UJ	24.1	UJ	29.7	UJ	18.9	UJ	26.9	UJ	25.8	UJ	25.4	UJ	21.6	UJ	22.2	UJ	22.2	UJ	21.5	UJ
	1,1-Dichloropropene	NE	µg/kg	37.7	U	42.4	U	37.0	U	45.8	U	29.2	U	41.4	U	39.7	U	39.1	U	33.2	U	34.1	U	34.1	U	33.1	U
	1,2,3-Trichlorobenzene	NE	µg/kg	13.0	U	14.7	U	12.8	U	15.8	U	10.1	U	14.3	U	13.7	U	13.5	U	11.5	U	11.8	U	11.8	U	11.4	U
	1,2,3-Trichloropropane	33.3	µg/kg	21.4	U	24.1	U	21.0	U	25.9	U	16.5	U	23.5	U	22.5	U	22.2	U	18.9	U	19.4	U	19.4	U	18.8	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	18.1	U	20.4	U	17.8	U	22.0	U	14.0	U	19.9	U	19.1	U	18.8	U	16.0	U	16.4	U	16.4	U	15.9	U
	1,2,4-Trimethylbenzene	NE	µg/kg	16.3	U	18.4	U	16.0	U	19.8	U	12.6	U	17.9	U	17.2	U	16.9	U	14.4	U	14.8	U	14.8	U	14.3	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	284	U	320	U	279	U	345	U	220	U	312	U	299	U	294	U	250	U	257	U	257	U	249	U
	1,2-Dibromoethane (EDB) <sup>14</sup>	5	µg/kg	0.29	UJ	0.30	UJ	0.29	UJ	0.30	UJ	0.29	UJ	0.30	UJ	0.28	UJ	0.31	UJ	0.27	UJ	0.28	UJ	0.26	UJ	0.27	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	3.3	U	3.7	U	3.2	U	4.0	U	2.6	U	3.6	U	3.5	U	3.4	U	2.9	U	3.0	U	3.0	U	2.9	U
	1,2-Dichloroethane	11,000	µg/kg	9.0	U	10.1	U	8.8	U	10.9	U	6.9	U	9.8	U	9.5	U	9.3	U	7.9	U	8.1	U	8.1	U	7.9	U
	1,2-Dichloropropane	27,800	µg/kg	14.1	U	15.8	U	13.8	U	17.1	U	10.9	U	15.4	U	14.8	U	14.6	U	12.4	U	12.7	U	12.7	U	12.3	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	13.0	U	14.6	U	12.8	U	15.8	U	10.1	U	14.3	U	13.7	U	13.5	U	11.5	U	11.8	U	11.8	U	11.4	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	3.0	U	3.3	U	2.9	U	3.6	U	2.3	U	3.3	U	3.1	U	3.1	U	2.6	U	2.7	U	2.7	U	2.6	U
	1,3-Dichloropropane	NE	µg/kg	11.3	U	12.7	U	11.1	U	13.7	U	8.7	U	12.4	U	11.9	U	11.7	U	10	U	10.2	U	10.2	U	9.9	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	5.1	U	5.7	U	5.0	U	6.1	U	3.9	U	5.6	U	5.3	U	5.2	U	4.5	U	4.6	U	4.6	U	4.4	U
	2,2-Dichloropropane	NE	µg/kg	10.2	U	11.5	U	10.0	U	12.4	U	7.9	U	11.2	U	10.7	U	10.6	U	9.0	U	9.2	U	9.2	U	8.9	U
	2-Butanone (MEK)	48,000,000	µg/kg	43.4	U	48.9	U	42.7	U	52.7	U	33.6	U	47.6	U	45.7	U	45.0	U	38.3	U	39.3	U	39.3	U	38.1	U
	2-Chlorotoluene	1,600,000	µg/kg	4.0	U	4.5	U	3.9	U	4.9	U	3.1	U	4.4	U	4.2	U	4.2	U	3.5	U	3.6	U	3.6	U	3.5	U
	4-Chlorotoluene	NE	µg/kg	4.2	U	4.7	U	4.1	U	5.1	U	3.2	U	4.6	U	4.4	U	4.3	U	3.7	U	3.8	U	3.8	U	3.7	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	17.0	U	19.1	U	16.7	U	20.6	U	13.1	U	18.6	U	17.9	U	17.6	U	15.0	U	15.4	U	15.4	U	14.9	U
	Acetone	72,000,000	µg/kg	507	U	571	U	499	U	616	U	393	U	557	U	535	U	526	U	448	U	460	U	459	U	445	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	68.3	U	77.0	U	67.2	U	83.0	U	52.9	U	75.0	U	72.0	U	70.9	U	60.3	U	61.9	U	61.9	U	60.0	U
	Benzene	30	µg/kg	4.6	U	5.2	U	4.5	U	5.6	U	3.6	U	5.0	U	4.8	U	4.8	U	4.1	U	4.2	U	4.2	U	4.0	U
	Bromobenzene	NE	µg/kg	5.0	U	5.6	U	4.9	U	6.1	U	3.9	U	5.5	U	5.3	U	5.2	U	4.4	U	4.5	U	4.5	U	4.4	U
	Bromochloromethane	NE	µg/kg	28.2	U	31.8	U	27.7	U	34.3	U	21.8	U	31.0	U	29.7	U	29.3	U	24.9	U	25.6	U	25.6	U	24.8	U
	Bromodichloromethane	16,100	µg/kg	27.9	U	31.4	U	27.4	U	33.9	U	21.6	U	30.6	U	29.4	U	28.9	U	24.6	U	25.3	U	25.3	U	24.5	U
	Bromoform (Tribromomethane)	127,000	µg/kg	123	U	139	U	121	U	150	U	95.6	U	136	U	130	U	128	U	109	U	112	U	112	U	108	U
	Bromomethane	112,000	µg/kg	95.4	U	107	U	93.8	U	116	U	73.9	U	105	U	101	U	98.9	U	84.2	U	86.5	U	86.4	U	83.8	U
Carbon Tetrachloride	14,300	µg/kg	39.0	U	43.9	U	38.3	U	47.3	U	30.2	U	42.8	U	41.1	U	40.4	U	34.4	U	35.3	U	35.3	U	34.2	U	
Chlorobenzene	1,600,000	µg/kg	4.6	U	5.2	U	4.5	U	5.6	U	3.6	U	5.0	U	4.8	U	4.8	U	4.1	U	4.2	U	4.2	U	4.0	U	
Chloroethane	NE	µg/kg	42.4	U	47.8	U	41.7	U	51.5	U	32.8	U	46.5	U	44.7	U	44.0	U	37.4	U	38.4	U	38.4	U	37.2	U	
Chloroform	32,300	µg/kg	40.8	U	45.9	U	40.1	U	49.5	U	31.6	U	44.8	U	43.0	U	42.3	U	36.0	U	37.0	U	36.9	U	35.8	U	
Chloromethane	NE	µg/kg	19.6	U	22.0	U	19.2	U	23.8	U	15.2	U	21.5	U	20.6	U	20.3	U	17.3	U	17.7	U	17.7	U	17.2	U	
cis-1,2-Dichloroethene	160,000	µg/kg	13.5	U	15.2	U	13.3	U	16.4	U	10.5	U	14.8	U	14.3	U	14.0	U	11.9	U	12.3	U	12.2	U	11.9	U	
cis-1,3-Dichloropropene	NE	µg/kg	11.7	U	13.2	U	11.5	U	14.2	U	9.0	U	12.8	U	12.3	U	12.1	U	10.3	U	10.6	U	10.6	U	10.3	U	

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	Location ID		DP-7		DP-8		DP-9		DP-10		DP-11		DP-12							
				Sample ID	Sample Date	DP-7 (0.0-2.0)	DP-7 (3.0-5.0)	DP-8 (0.0-2.0)	DP-8 (3.0-5.0)	DP-9 (0.0-2.0)	DP-9 (3.0-5.0)	DP-10 (0.0-2.0)	DP-10 (3.0-5.0)	DP-11 (0.0-2.0)	DP-11 (3.0-5.0)	DP-12 (0.0-2.0)	DP-12 (3.0-5.0)						
				0	11/27/2018	3	11/27/2018	0	11/27/2018	3	11/27/2018	0	11/27/2018	3	11/27/2018	0	11/27/2018	3	11/27/2018	0	11/27/2018	3	11/27/2018
				2		5		2		5		2		5		2		5		2		5	
				ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
VOCs <sup>8</sup>	Dibromochloromethane	11,900	µg/kg	9.5	U	10.7	U	9.3	U	11.5	U	7.3	U	10.4	U	10	U	9.8	U	8.3	U	8.6	U
	Dibromomethane	800,000	µg/kg	15.0	UJ	16.8	UJ	14.7	UJ	18.2	UJ	11.6	UJ	16.4	UJ	15.8	UJ	15.5	UJ	13.2	UJ	13.6	UJ
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	26.4	U	29.8	U	26.0	U	32.1	U	20.5	U	29.0	U	27.9	U	27.4	U	23.3	U	23.9	U
	Ethyl Ether	16,000,000	µg/kg	49.9	U	56.2	U	49.1	U	60.6	U	38.6	U	54.8	U	52.6	U	51.7	U	44.0	U	45.2	U
	Ethylbenzene	6,000	µg/kg	4.4	U	5.0	U	4.4	U	5.4	U	3.5	J	4.9	U	4.7	U	4.6	U	3.9	U	4.0	U
	HCFC-21	NE	µg/kg	113	U	127	U	111	U	137	U	87.2	U	124	U	119	U	117	U	99.5	U	102	U
	Hexachlorobutadiene	12,800	µg/kg	19.9	U	22.4	U	19.6	U	24.2	U	15.4	U	21.8	U	21.0	U	20.6	U	17.6	U	18.0	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.6	U	4.1	U	3.6	U	4.4	U	2.8	U	4.0	U	3.8	U	3.8	U	3.2	U	3.3	U
	Methyl t-butyl ether	100	µg/kg	9.7	U	10.9	U	9.5	U	11.8	U	7.5	U	10.7	U	10.2	U	10.1	U	8.6	U	8.8	U
	Methylene Chloride <sup>14</sup>	20	µg/kg	4.8	UJ	4.9	UJ	4.7	UJ	4.9	UJ	4.6	UJ	4.9	UJ	4.5	UJ	5.1	UJ	4.4	UJ	4.5	UJ
	Naphthalene	5,000	µg/kg	76.3	U	86.0	U	75.1	U	92.7	U	59.1	U	83.8	U	80.5	U	79.1	U	67.4	U	69.2	U
	n-Butylbenzene	4,000,000	µg/kg	38.8	U	43.7	U	38.2	U	47.1	U	30.1	U	42.6	U	40.9	U	40.2	U	34.3	U	35.2	U
	n-Propylbenzene	8,000,000	µg/kg	4.4	U	4.9	U	4.3	U	5.3	U	3.4	U	4.8	U	4.6	U	4.5	U	3.8	U	3.9	U
	p-Isopropyltoluene	NE	µg/kg	24.8	U	27.9	U	24.4	U	30.1	U	19.2	U	27.2	U	26.1	U	25.7	U	21.9	U	22.5	U
	Sec-Butylbenzene	8,000,000	µg/kg	15.6	U	17.6	U	15.4	U	19.0	U	12.1	U	17.2	U	16.5	U	16.2	U	13.8	U	14.2	U
	Styrene	16,000,000	µg/kg	3.7	U	4.2	U	3.7	U	4.5	U	2.9	U	4.1	U	3.9	U	3.9	U	3.3	U	3.4	U
	Tert-Butylbenzene	8,000,000	µg/kg	15.7	U	17.6	U	15.4	U	19.0	U	12.1	U	17.2	U	16.5	U	16.2	U	13.8	U	14.2	U
	Tetrachloroethene	50	µg/kg	28.7	UJ	32.3	UJ	28.2	UJ	34.9	UJ	22.2	UJ	31.5	UJ	30.3	UJ	29.8	UJ	25.3	UJ	26.0	UJ
	Tetrahydrofuran	NE	µg/kg	119	U	134	U	117	U	144	U	91.8	U	130	U	125	U	123	U	105	U	107	U
	Toluene	7,000	µg/kg	19.9	U	22.4	U	19.6	U	24.2	U	15.4	U	21.8	U	21.0	U	20.6	U	17.6	U	18.0	U
	Total Xylenes	9,000	µg/kg	18.9	U	21.3	U	18.6	U	23.0	U	14.6	U	20.8	U	19.9	U	19.6	U	16.7	U	17.1	U
	trans-1,2-Dichloroethene	1,600,000	µg/kg	38.2	U	43.0	U	37.5	U	46.3	U	29.5	U	41.9	U	40.2	U	39.6	U	33.7	U	34.6	U
	trans-1,3-Dichloropropene	NE	µg/kg	11.3	U	12.8	U	11.1	U	13.8	U	8.8	U	12.4	U	12.0	U	11.8	U	10.0	U	10.3	U
	Trichloroethene	30	µg/kg	12.6	UJ	14.2	UJ	12.4	UJ	15.3	UJ	9.7	UJ	13.8	UJ	13.3	UJ	13.0	UJ	11.1	UJ	11.4	UJ
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	142	U	160	U	140	U	173	U	110	U	156	U	150	U	147	U	126	U	129	U	
Vinyl Chloride	240,000	µg/kg	16.0	U	18.1	U	15.8	U	19.5	U	12.4	U	17.6	U	16.9	U	16.6	U	14.2	U	14.5	U	
PAHs <sup>9</sup>	1-Methylnaphthalene	5,000	µg/kg	0.70	U	0.75	U	0.70	U	0.75	U	0.67	U	0.74	U	0.68	U	0.75	U	0.66	U	0.69	U
	2-Methylnaphthalene		µg/kg	0.66	U	0.71	U	0.66	U	0.71	U	0.64	U	0.70	U	0.64	U	0.71	U	0.62	U	0.65	U
	Naphthalene		µg/kg	1.0	U	1.1	U	1.0	U	1.1	U	0.97	U	1.1	U	0.98	U	1.1	U	0.95	U	1.0	U
	Acenaphthene	NE	µg/kg	1.5	J	0.57	U	0.53	U	0.57	U	0.52	U	0.57	U	2.4	J	0.58	U	1.4	J	0.53	U
	Acenaphthylene	NE	µg/kg	0.64	U	0.69	U	0.65	U	0.69	U	0.62	U	0.69	U	1.1	J	0.70	U	3.7	J	3.9	J
	Anthracene	NE	µg/kg	6.2	J	0.66	U	0.61	U	0.65	U	0.59	U	0.65	U	22.9		0.66	U	1.7	J	1.5	J
	Benzo(a)anthracene	NE	µg/kg	14.5		1.6	J	3.6	J	1.5	U	2.2	J	1.5	U	250		1.5	U	1.3	U	1.4	U
	Benzo(a)pyrene	100	µg/kg	13.4		1.5	J	4.1	J	0.96	U	2.0	J	0.95	U	196		0.97	U	1.1	J	0.89	U
	Benzo(b)fluoranthene	NE	µg/kg	18.2		1.9	J	5.6	J	0.52	U	3.0	J	0.52	U	272		0.52	U	0.46	U	0.48	U
	Benzo(g,h,i)perylene	NE	µg/kg	10.6	J	0.89	U	5.0	J	0.88	U	0.80	U	0.88	U	121		0.89	U	0.78	U	0.82	U
	Benzo(k)fluoranthene	NE	µg/kg	7.5	J	1.2	U	2.4	J	1.2	U	1.6	J	1.2	U	108		1.2	U	1.0	U	1.1	U
	Chrysene	NE	µg/kg	15.3		1.9	U	4.0	J	1.9	U	2.8	J	1.9	U	263		1.9	U	1.7	U	1.8	U
	Dibenzo(a,h)anthracene	NE	µg/kg	2.0	J	0.65	U	0.60	U	0.64	U	0.58	U	0.64	U	39.6		0.65	U	0.57	U	0.60	U
	Fluoranthene	NE	µg/kg	27.6	J	0.60	UJ	0.56	UJ	0.60	UJ	0.54	UJ	0.59	UJ	347	J	0.60	UJ	0.53	UJ	0.55	UJ
Fluorene	NE	µg/kg	1.2	J	0.44	U	0.41	U	0.44	U	0.39	U	0.43	U	1.6	J	0.53	J	1.7	J	1.8	J	



				Location ID		DP-7		DP-7		DP-8		DP-8		DP-9		DP-9		DP-10		DP-10		DP-11		DP-11		DP-12		DP-12	
				Sample ID		DP-7 (0.0-2.0)		DP-7 (3.0-5.0)		DP-8 (0.0-2.0)		DP-8 (3.0-5.0)		DP-9 (0.0-2.0)		DP-9 (3.0-5.0)		DP-10 (0.0-2.0)		DP-10 (3.0-5.0)		DP-11 (0.0-2.0)		DP-11 (3.0-5.0)		DP-12 (0.0-2.0)		DP-12 (3.0-5.0)	
				Sample Date		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018	
				Start Depth		0		3		0		3		0		3		0		3		0		3		0		3	
				End Depth		2		5		2		5		2		5		2		5		2		5		2		5	
				Depth Unit		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																										
PAHs <sup>9</sup>	Indeno(1,2,3-c,d)pyrene	NE	µg/kg	8.4	J	0.94	U	3.8	J	0.94	U	0.84	U	0.93	U	107		0.94	U	0.83	U	0.87	U	8.1	J	0.82	U		
	Phenanthrene	NE	µg/kg	15.3		2.7	U	6.4	J	2.7	U	2.4	U	2.7	U	47.5		2.7	U	2.6	J	2.7	J	4.6	J	2.3	U		
	Pyrene	NE	µg/kg	25.9		2.1	U	2.0	U	2.1	U	1.9	U	2.1	U	353		2.2	U	1.9	U	2.0	U	10.0	J	1.9	U		
	Total cPAH TEQ (ND=DL) <sup>10,11</sup>	100	µg/kg	18.61	J	2.00	J	5.71	J	0.730	U	2.78	J	0.724	U	276.3		0.735	U	1.32	J	0.677	U	11.66	J	0.636	U		

				Location ID		DP-13		DP-13		DP-14		DP-14		DP-15		DP-15		DP-16		DP-16		DP-17		DP-17		DP-18		DP-18	
				Sample ID		DP-13 (0.0-2.0)		DP-13 (3.0-5.0)		DP-14 (0.0-2.0)		DP-14 (3.0-5.0)		DP-15 (0.0-2.0)		DP-15 (3.0-5.0)		DP-16 (0.0-2.0)		DP-16 (3.0-5.0)		DP-17 (0.0-2.0)		DP-17 (3.0-5.0)		DP-18 (0.0-2.0)		DP-18 (3.0-5.0)	
				Sample Date		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018	
				Start Depth		0		3		0		3		0		3		0		3		0		3		0		3	
				End Depth		2		5		2		5		2		5		2		5		2		5		2		5	
				Depth Unit		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																										
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>12</sup>	mg/kg	1.3	J	1.1	U	1.5	J	0.99	U	0.94	U	1.1	U	0.93	U	1.2	U	0.93	U	0.92	U	0.84	U	1.1	U		
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	7.5	J	3.3	U	114		3.1	U	110		7.3	J	3.0	U	3.3	U	3.1	U	3.1	U	3.0	U	3.4	U		
	Motor oil-range organics	2,000	mg/kg	22.8		5.9	U	431		6.2	J	377		7.0	J	6.9	J	5.9	U	5.6	U	5.6	U	5.4	U	6.1	U		
Metals <sup>5</sup>	Antimony	32	mg/kg	0.45	U	0.49	U	0.43	U	0.47	U	1.6		0.48	U	2.2	U	2.6	U	2.3	U	2.4	U	2.3	U	2.5	U		
	Arsenic	20	mg/kg	2.0		1.2	J	4.8		1.5		2.8		0.54	J	2.8	J	2.2	J	1.8	J	1.7	J	1.8	J	2.2	J		
	Beryllium	25	mg/kg	0.016	U	0.029	J	0.018	J	0.059	J	0.028	J	0.036	J	0.077	U	0.092	U	0.082	U	0.087	U	0.083	U	0.097	J		
	Cadmium	2	mg/kg	0.27		0.026	U	2.5		0.18	J	1.1		0.058	J	1.9		0.22	J	0.13	J	0.23	J	0.12	U	0.15	J		
	Chromium	42	mg/kg	6.7		5.4		18.1		5.5		8.8		3.5		29.7		7.6		6.8		9.2		7.1		7.5			
	Copper	100	mg/kg	34.8		12.8		139		19.7		74.5		7.7		193		14.9		15.7		23.0		15.5		20.8			
	Lead	220	mg/kg	53.7		3.4		128		11.2		277		1.8		118		4.0		3.4		5.0		4.5		3.9			
	Lead (TCLP)	5 <sup>13</sup>	mg/L	--		--		--		--		--		--		--		--		--		--		--		--			
	Mercury <sup>6</sup>	2	mg/kg	0.21		0.010	U	0.12		0.0094	U	0.21		0.0097	U	0.070		0.010	U	0.0097	U	0.0092	U	0.0090	U	0.0097	U		
	Nickel	100	mg/kg	8.6		5.4		17.6		5.7		10.5		3.5		22.5		7.2		7.8		9.2		6.9		8.7			
	Selenium	0.8	mg/kg	0.39	U	0.43	U	0.37	U	0.41	U	0.38	U	0.42	U	1.9	U	2.2	U	2.0	U	2.1	U	2.0	U	2.2	U		
	Silver	400	mg/kg	0.044	U	0.047	U	0.19	J	0.045	U	0.042	U	0.046	U	0.21	U	0.25	U	0.22	U	0.24	U	0.22	U	0.24	U		
	Thallium	0.8	mg/kg	0.44	J	0.96	J	0.74	J	1.1	J	0.86	J	0.39	J	3.5	J	4.0	J	3.0	J	4.1	J	3.1	J	3.3	J		
Zinc	270	mg/kg	105		35.4		383		53.6		228		15.4		256		48.9		47.0		64.8		52.7		51.8				
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	1,000	µg/kg	11.1	U	12.6	U	11.2	U	11.9	U	11.4	U	11.8	U	11.6	U	12.6	U	11.8	U	11.9	U	11.3	U	12.9	U		
	PCB-Aroclor 1221		µg/kg	14.1	U	15.9	U	14.1	U	15.0	U	14.4	U	15.0	U	14.7	U	15.9	U	14.9	U	15.0	U	14.3	U	16.3	U		
	PCB-Aroclor 1232		µg/kg	16.0	U	18.1	U	16.1	U	17.0	U	16.4	U	17.0	U	16.7	U	18.1	U	16.9	U	17.1	U	16.2	U	18.5	U		
	PCB-Aroclor 1242		µg/kg	13.6	U	15.3	U	13.6	U	14.5	U	13.9	U	14.4	U	14.2	U	15.4	U	14.3	U	14.5	U	13.8	U	15.7	U		
	PCB-Aroclor 1248		µg/kg	210		13.5	U	1,620		12.8	U	488		12.8	U	12.5	U	13.6	U	12.7	U	12.8	U	12.2	U	13.9	U		
	PCB-Aroclor 1254		µg/kg	119		13.3	U	11.8	U	12.5	U	352		12.5	U	12.3	U	13.3	U	12.4	U	12.6	U	11.9	U	13.6	U		
	PCB-Aroclor 1260		µg/kg	9.6	U	10.8	U	868		10.2	U	9.8	U	10.2	U	10	U	10.8	U	10.1	U	10.2	U	9.7	U	11.1	U		
	Total PCB Aroclors		µg/kg	329		18.1	U	2,488		17.0	U	840		17.0	U	16.7	U	18.1	U	16.9	U	17.1	U	16.2	U	18.5	U		

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	DP-13		DP-14		DP-15		DP-16		DP-17		DP-18													
				DP-13 (0.0-2.0)	DP-13 (3.0-5.0)	DP-14 (0.0-2.0)	DP-14 (3.0-5.0)	DP-15 (0.0-2.0)	DP-15 (3.0-5.0)	DP-16 (0.0-2.0)	DP-16 (3.0-5.0)	DP-17 (0.0-2.0)	DP-17 (3.0-5.0)	DP-18 (0.0-2.0)	DP-18 (3.0-5.0)												
				Location ID	DP-13	DP-13	DP-14	DP-14	DP-15	DP-15	DP-16	DP-16	DP-17	DP-17	DP-18	DP-18											
				Sample ID	DP-13 (0.0-2.0)	DP-13 (3.0-5.0)	DP-14 (0.0-2.0)	DP-14 (3.0-5.0)	DP-15 (0.0-2.0)	DP-15 (3.0-5.0)	DP-16 (0.0-2.0)	DP-16 (3.0-5.0)	DP-17 (0.0-2.0)	DP-17 (3.0-5.0)	DP-18 (0.0-2.0)	DP-18 (3.0-5.0)											
				Sample Date	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018											
				Start Depth	0	3	0	3	0	3	0	3	0	3	0	3											
				End Depth	2	5	2	5	2	5	2	5	2	5	2	5											
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft											
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	22.8	U	25.1	U	22.6	U	26.4	U	25.6	U	25.1	U	25.7	U	26.9	U	24.3	U	21.1	U	22.6	U	28.8	U
	1,1,1-Trichloroethane	2,000	µg/kg	33.9	U	37.3	U	33.5	U	39.2	U	37.9	U	37.2	U	38.2	U	39.9	U	36.1	U	31.3	U	33.5	U	42.8	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	12.8	U	14.1	U	12.7	U	14.8	U	14.3	U	14.1	U	14.4	U	15.1	U	13.6	U	11.8	U	12.7	U	16.2	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	84.3	U	92.9	U	83.4	U	97.7	U	94.4	U	92.6	U	95.1	U	99.4	U	89.8	U	77.8	U	83.4	U	106	U
	1,1,2-Trichloroethane	17,500	µg/kg	8.7	U	9.6	U	8.6	U	10.1	U	9.7	U	9.5	U	9.8	U	10.3	U	9.3	U	8.0	U	8.6	U	11.0	U
	1,1-Dichloroethane	175,000	µg/kg	8.2	U	9.0	U	8.1	U	9.4	U	9.1	U	9.0	U	9.2	U	9.6	U	8.7	U	7.5	U	8.1	U	10.3	U
	1,1-Dichloroethene	4,000,000	µg/kg	21.8	UJ	24.0	UJ	21.6	UJ	25.3	UJ	24.4	U	23.9	U	24.6	U	25.7	U	23.2	U	20.1	U	21.6	U	27.5	U
	1,1-Dichloropropene	NE	µg/kg	33.6	U	37.0	U	33.2	U	38.9	U	37.6	U	36.9	U	37.9	U	39.6	U	35.8	U	31.0	U	33.2	U	42.4	U
	1,2,3-Trichlorobenzene	NE	µg/kg	11.6	U	12.8	U	11.5	U	13.5	U	13.0	U	12.8	U	13.1	U	13.7	U	12.4	U	10.7	U	11.5	U	14.7	U
	1,2,3-Trichloropropane	33.3	µg/kg	19.0	U	21.0	U	18.8	U	22.1	U	21.3	U	20.9	U	21.5	U	22.5	U	20.3	U	17.6	U	18.8	U	24.0	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	16.1	U	17.8	U	16.0	U	18.7	U	18.1	U	17.7	U	18.2	U	19.0	U	17.2	U	14.9	U	16.0	U	20.4	U
	1,2,4-Trimethylbenzene	NE	µg/kg	14.5	U	16.0	U	14.4	U	16.8	U	16.3	U	16.0	U	16.4	U	17.1	U	15.5	U	13.4	U	14.4	U	18.3	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	253	U	279	U	250	U	293	U	283	U	278	U	285	U	298	U	269	U	234	U	250	U	319	U
	1,2-Dibromoethane (EDB) <sup>14</sup>	5	µg/kg	0.26	UJ	0.31	UJ	0.27	UJ	0.29	UJ	0.28	UJ	0.29	UJ	0.28	UJ	0.30	UJ	0.28	UJ	0.29	UJ	0.27	UJ	0.31	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.9	U	3.2	U	2.9	U	3.4	U	3.3	U	3.2	U	3.3	U	3.5	U	3.1	U	2.7	U	2.9	U	3.7	U
	1,2-Dichloroethane	11,000	µg/kg	8.0	U	8.8	U	7.9	U	9.3	U	9.0	U	8.8	U	9.0	U	9.4	U	8.5	U	7.4	U	7.9	U	10.1	U
	1,2-Dichloropropane	27,800	µg/kg	12.5	U	13.8	U	12.4	U	14.5	U	14.0	U	13.8	U	14.1	U	14.8	U	13.3	U	11.6	U	12.4	U	15.8	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	11.6	U	12.8	U	11.5	U	13.4	U	13.0	U	12.7	U	13.1	U	13.7	U	12.3	U	10.7	U	11.5	U	14.6	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.6	U	2.9	U	2.6	U	3.1	U	3.0	U	2.9	U	3.0	U	3.1	U	2.8	U	2.4	U	2.6	U	3.3	U
	1,3-Dichloropropane	NE	µg/kg	10.1	U	11.1	U	10	U	11.7	U	11.3	U	11.0	U	11.3	U	11.9	U	10.7	U	9.3	U	10	U	12.7	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	4.5	U	5.0	U	4.5	U	5.2	U	5.0	U	4.9	U	5.1	U	5.3	U	4.8	U	4.2	U	4.5	U	5.7	U
	2,2-Dichloropropane	NE	µg/kg	9.1	U	10	U	9.0	U	10.5	U	10.2	U	10	U	10.2	U	10.7	U	9.7	U	8.4	U	9.0	U	11.5	U
	2-Butanone (MEK)	48,000,000	µg/kg	38.7	U	42.6	U	38.3	U	44.8	U	43.3	U	42.4	U	43.6	U	45.6	U	41.2	U	35.7	U	38.3	U	48.8	U
	2-Chlorotoluene	1,600,000	µg/kg	3.6	U	3.9	U	3.5	U	4.1	U	4.0	U	3.9	U	4.0	U	4.2	U	3.8	U	3.3	U	3.5	U	4.5	U
	4-Chlorotoluene	NE	µg/kg	3.7	U	4.1	U	3.7	U	4.3	U	4.2	U	4.1	U	4.2	U	4.4	U	4.0	U	3.4	U	3.7	U	4.7	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	15.1	U	16.7	U	15.0	U	17.5	U	16.9	U	16.6	U	17.1	U	17.8	U	16.1	U	14.0	U	15.0	U	19.1	U
	Acetone	72,000,000	µg/kg	452	U	498	U	447	U	524	U	506	U	496	U	510	U	533	U	482	U	417	U	447	U	571	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	60.9	U	67.1	U	60.3	U	70.6	U	68.2	U	66.9	U	68.7	U	71.8	U	64.9	U	56.2	U	60.3	U	76.9	U
	Benzene	30	µg/kg	4.1	U	4.5	U	4.1	U	4.7	U	4.6	U	4.5	U	4.6	U	4.8	U	4.4	U	3.8	U	4.1	U	5.2	U
	Bromobenzene	NE	µg/kg	4.5	U	4.9	U	4.4	U	5.2	U	5.0	U	4.9	U	5.0	U	5.3	U	4.8	U	4.1	U	4.4	U	5.6	U
	Bromochloromethane	NE	µg/kg	25.1	U	27.7	U	24.9	U	29.1	U	28.2	U	27.6	U	28.4	U	29.7	U	26.8	U	23.2	U	24.9	U	31.7	U
	Bromodichloromethane	16,100	µg/kg	24.9	U	27.4	U	24.6	U	28.8	U	27.8	U	27.3	U	28.0	U	29.3	U	26.5	U	23.0	U	24.6	U	31.4	U
	Bromoform (Tribromomethane)	127,000	µg/kg	110	U	121	U	109	U	128	U	123	U	121	U	124	U	130	U	117	U	102	U	109	U	139	U
Bromomethane	112,000	µg/kg	85.0	U	93.7	U	84.1	U	98.5	U	95.2	U	93.4	U	95.9	U	100	U	90.6	U	78.5	U	84.1	U	107	U	
Carbon Tetrachloride	14,300	µg/kg	34.7	U	38.3	U	34.4	U	40.3	U	38.9	U	38.1	U	39.2	U	41.0	U	37.0	U	32.1	U	34.4	U	43.9	U	
Chlorobenzene	1,600,000	µg/kg	4.1	U	4.5	U	4.1	U	4.7	U	4.6	U	4.5	U	4.6	U	4.8	U	4.4	U	3.8	U	4.1	U	5.2	U	
Chloroethane	NE	µg/kg	37.8	U	41.6	U	37.4	U	43.8	U	42.3	U	41.5	U	42.6	U	44.6	U	40.3	U	34.9	U	37.4	U	47.7	U	
Chloroform	32,300	µg/kg	36.3	U	40.0	U	36.0	U	42.1	U	40.7	U	39.9	U	41.0	U	42.9	U	38.7	U	33.6	U	36.0	U	45.9	U	
Chloromethane	NE	µg/kg	17.4	U	19.2	U	17.3	U	20.2	U	19.5	U	19.1	U	19.7	U	20.6	U	18.6	U	16.1	U	17.3	U	22.0	U	
cis-1,2-Dichloroethene	160,000	µg/kg	12.0	U	13.3	U	11.9	U	14.0	U	13.5	U	13.2	U	13.6	U	14.2	U	12.8	U	11.1	U	11.9	U	15.2	U	
cis-1,3-Dichloropropene	NE	µg/kg	10.4	U	11.5	U	10.3	U	12.1	U	11.7	U	11.4	U	11.7	U	12.3	U	11.1	U	9.6	U	10.3	U	13.1	U	

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	Location ID		DP-13		DP-14		DP-15		DP-16		DP-17		DP-18													
				Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date										
				DP-13 (0.0-2.0)	DP-13 (3.0-5.0)	DP-14 (0.0-2.0)	DP-14 (3.0-5.0)	DP-15 (0.0-2.0)	DP-15 (3.0-5.0)	DP-16 (0.0-2.0)	DP-16 (3.0-5.0)	DP-17 (0.0-2.0)	DP-17 (3.0-5.0)	DP-18 (0.0-2.0)	DP-18 (3.0-5.0)														
				11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018													
				0	3	0	3	0	3	0	3	0	3	0	3	0	3												
				2	5	2	5	2	5	2	5	2	5	2	5	2	5												
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft													
VOCs <sup>8</sup>	Dibromochloromethane	11,900	µg/kg	8.4	U	9.3	U	8.3	U	9.8	U	9.4	U	9.3	U	9.5	U	9.9	U	9.0	U	7.8	U	8.3	U	10.6	U		
	Dibromomethane	800,000	µg/kg	13.3	UJ	14.7	UJ	13.2	UJ	15.4	UJ	14.9	U	14.6	U	15.0	U	15.7	U	14.2	U	12.3	U	13.2	U	16.8	U		
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	23.5	U	25.9	U	23.3	U	27.3	U	26.4	U	25.9	U	26.6	U	27.8	U	25.1	U	21.7	U	23.3	U	29.7	U		
	Ethyl Ether	16,000,000	µg/kg	44.5	U	49.0	U	44.0	U	51.5	U	49.8	U	48.8	U	50.2	U	52.5	U	47.4	U	41.1	U	44.0	U	56.2	U		
	Ethylbenzene	6,000	µg/kg	4.0	U	4.4	U	5.6	J	4.6	U	4.4	U	4.3	U	4.5	U	4.7	U	4.2	U	3.7	U	3.9	U	5.0	U		
	HCFC-21	NE	µg/kg	100	U	111	U	99.4	U	116	U	112	U	110	U	113	U	118	U	107	U	92.7	U	99.4	U	127	U		
	Hexachlorobutadiene	12,800	µg/kg	17.7	U	19.5	U	17.5	U	20.5	U	19.9	U	19.5	U	20.0	U	20.9	U	18.9	U	16.4	U	17.5	U	22.4	U		
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.2	U	3.6	U	3.2	U	3.7	U	3.6	U	3.5	U	3.6	U	3.8	U	3.4	U	3.0	U	3.2	U	4.1	U		
	Methyl t-butyl ether	100	µg/kg	8.6	U	9.5	U	8.6	U	10.0	U	9.7	U	9.5	U	9.8	U	10.2	U	9.2	U	8.0	U	8.6	U	10.9	U		
	Methylene Chloride <sup>14</sup>	20	µg/kg	4.2	UJ	5.0	UJ	4.6	J	4.7	UJ	4.5	UJ	4.7	UJ	4.6	UJ	4.8	UJ	4.6	UJ	4.7	UJ	4.4	UJ	5.0	UJ		
	Naphthalene	5,000	µg/kg	68.0	U	75.0	U	67.3	U	78.8	U	76.2	U	74.7	U	76.7	U	80.2	U	72.5	U	62.8	U	67.3	U	85.9	U		
	n-Butylbenzene	4,000,000	µg/kg	34.6	U	38.1	U	34.2	U	40.1	U	38.7	U	38.0	U	39.0	U	40.8	U	36.9	U	31.9	U	34.2	U	43.7	U		
	n-Propylbenzene	8,000,000	µg/kg	3.9	U	4.3	U	3.8	U	4.5	U	4.3	U	4.3	U	4.4	U	4.6	U	4.1	U	3.6	U	3.8	U	4.9	U		
	p-Isopropyltoluene	NE	µg/kg	22.1	U	24.3	U	21.9	U	25.6	U	24.7	U	24.3	U	24.9	U	26.1	U	23.5	U	20.4	U	21.9	U	27.9	U		
	Sec-Butylbenzene	8,000,000	µg/kg	13.9	U	15.3	U	13.8	U	16.1	U	15.6	U	15.3	U	15.7	U	16.4	U	14.8	U	12.9	U	13.8	U	17.6	U		
	Styrene	16,000,000	µg/kg	3.3	U	3.7	U	826		3.8	U	3.7	U	3.6	U	3.7	U	3.9	U	3.5	U	3.1	U	3.3	U	4.2	U		
	Tert-Butylbenzene	8,000,000	µg/kg	14.0	U	15.4	U	13.8	U	16.2	U	15.6	U	15.3	U	15.7	U	16.5	U	14.9	U	12.9	U	13.8	U	17.6	U		
	Tetrachloroethene	50	µg/kg	25.6	UJ	28.2	UJ	25.3	UJ	29.6	UJ	28.7	U	28.1	U	28.9	U	30.2	U	27.3	U	23.6	U	25.3	U	32.3	U		
	Tetrahydrofuran	NE	µg/kg	106	U	116	U	105	U	122	U	118	U	116	U	119	U	125	U	113	U	97.6	U	105	U	133	U		
	Toluene	7,000	µg/kg	17.7	U	19.5	U	17.5	U	20.5	U	19.9	U	19.5	U	20.0	U	20.9	U	18.9	U	16.4	U	17.5	U	22.4	U		
	Total Xylenes	9,000	µg/kg	16.9	U	18.6	U	16.7	U	19.5	U	18.9	U	18.5	U	19.0	U	19.9	U	18.0	U	15.6	U	16.7	U	21.3	U		
	trans-1,2-Dichloroethene	1,600,000	µg/kg	34.0	U	37.5	U	33.7	U	39.4	U	38.1	U	37.3	U	38.4	U	40.1	U	36.2	U	31.4	U	33.7	U	42.9	U		
	trans-1,3-Dichloropropene	NE	µg/kg	10.1	U	11.1	U	10	U	11.7	U	11.3	U	11.1	U	11.4	U	11.9	U	10.8	U	9.3	U	10	U	12.8	U		
	Trichloroethene	30	µg/kg	11.2	UJ	12.4	UJ	11.1	UJ	13.0	UJ	12.6	U	12.3	U	12.6	U	13.2	U	11.9	U	10.3	U	11.1	U	14.1	U		
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	127	U	140	U	125	U	147	U	142	U	139	U	143	U	149	U	135	U	117	U	125	U	160	U			
Vinyl Chloride	240,000	µg/kg	14.3	U	15.8	U	14.2	U	16.6	U	16.0	U	15.7	U	16.1	U	16.9	U	15.2	U	13.2	U	14.2	U	18.1	U			
PAHs <sup>9</sup>	1-Methylnaphthalene	5,000	µg/kg	0.65	U	0.73	U	1.6	J	0.69	U	0.67	U	0.69	U	3.4	U	0.73	U	0.69	U	0.69	U	0.66	U	0.75	U		
	2-Methylnaphthalene		µg/kg	0.61	U	0.69	U	2.0	J	0.65	U	0.63	U	0.65	U	3.2	U	0.69	U	0.65	U	0.65	U	0.65	U	0.62	U	0.71	U
	Naphthalene		µg/kg	0.94	U	1.1	U	1.7	J	0.99	U	0.96	U	1.0	U	4.9	U	1.1	U	0.99	U	1.0	U	0.95	U	1.1	U		
	Acenaphthene	NE	µg/kg	0.73	J	0.56	U	7.4	J	0.53	U	0.51	U	0.53	U	56.1	J	0.56	U	0.52	U	0.53	U	0.50	U	0.58	U		
	Acenaphthylene	NE	µg/kg	2.6	J	1.4	J	7.3	J	1.3	J	6.6	J	0.64	U	3.1	U	0.68	U	0.63	U	0.64	U	0.61	U	0.70	U		
	Anthracene	NE	µg/kg	2.0	J	0.88	J	39.4		0.86	J	11.5	J	0.60	U	358		0.64	U	0.60	U	0.61	U	0.58	U	0.66	U		
	Benzo(a)anthracene	NE	µg/kg	7.1	J	1.5	U	150		1.4	U	16.5		1.4	U	578		1.5	U	1.4	U	1.4	U	1.3	U	1.5	U		
	Benzo(a)pyrene	100	µg/kg	10.5	J	0.94	U	142		0.89	U	16.7		0.89	U	378		0.94	U	0.88	U	0.89	U	0.84	U	0.97	U		
	Benzo(b)fluoranthene	NE	µg/kg	13.8		0.51	U	194		0.75	J	18.3		0.78	J	522		0.51	U	0.48	U	0.48	U	0.48	U	0.87	J	0.52	U
	Benzo(g,h,i)perylene	NE	µg/kg	9.6	J	0.86	U	88.0		0.82	U	11.6	J	0.82	U	221		0.87	U	0.81	U	0.82	U	0.78	U	0.89	U		
	Benzo(k)fluoranthene	NE	µg/kg	5.6	J	1.2	U	77.1		1.1	U	7.8	J	1.1	U	224		1.2	U	1.1	U	1.1	U	1.0	U	1.2	U		
	Chrysene	NE	µg/kg	8.8	J	1.9	U	157		1.8	U	12.3	J	1.8	U	553		1.9	U	1.7	U	1.8	U	1.7	U	1.9	U		
	Dibenzo(a,h)anthracene	NE	µg/kg	2.5	J	0.63	U	23.2		0.59	U	0.58	U	0.60	U	61.3	J	0.63	U	0.59	U	0.60	U	0.57	U	0.65	U		
	Fluoranthene	NE	µg/kg	11.4	J	0.58	UJ	241	J	0.55	UJ	31.8		1.3	J	1,480		0.59	U	0.55	U	0.55	U	0.62	J	0.60	U		
Fluorene	NE	µg/kg	0.99	J	0.43	U	7.1	J	0.40	U	3.9	J	0.40	U	54.9	J	0.43	U	0.40	U	0.41	U	0.38	U	0.44	U			

				Location ID	DP-13	DP-13	DP-14	DP-14	DP-15	DP-15	DP-16	DP-16	DP-17	DP-17	DP-18	DP-18											
				Sample ID	DP-13 (0.0-2.0)	DP-13 (3.0-5.0)	DP-14 (0.0-2.0)	DP-14 (3.0-5.0)	DP-15 (0.0-2.0)	DP-15 (3.0-5.0)	DP-16 (0.0-2.0)	DP-16 (3.0-5.0)	DP-17 (0.0-2.0)	DP-17 (3.0-5.0)	DP-18 (0.0-2.0)	DP-18 (3.0-5.0)											
				Sample Date	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018											
				Start Depth	0	3	0	3	0	3	0	3	0	3	0	3											
				End Depth	2	5	2	5	2	5	2	5	2	5	2	5											
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft											
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																								
PAHs <sup>9</sup>	Indeno(1,2,3-c,d)pyrene	NE	µg/kg	6.3	J	0.91	U	71.6		0.86	U	9.0	J	0.87	U	208		0.92	U	0.86	U	0.87	U	0.82	U	0.94	U
	Phenanthrene	NE	µg/kg	5.1	J	2.6	U	114		2.5	U	30.6		2.5	U	1,080		2.6	U	2.5	U	2.5	U	2.4	U	2.7	U
	Pyrene	NE	µg/kg	11.7	J	2.1	U	220		2.0	U	31.4		2.0	U	1,260		2.1	U	2.0	U	2.0	U	1.9	U	2.2	U
	Total cPAH TEQ (ND=DL) <sup>10,11</sup>	100	µg/kg	14.12	J	0.717	U	195.16		0.727	J	22.01	J	0.731	J	542.86	J	0.718	U	0.670	U	0.677	U	0.70	J	0.735	U

			Location ID	DP-19	DP-19	DP-20	DP-20	DP-21	DP-21	DP-22	DP-22	DP-23	DP-23										
			Sample ID	DP-19 (0.0-2.0)	DP-19 (2.0-3.5)	DP-20 (0.0-2.0)	DP-20 (3.0-5.0)	DP-21 (0.0-1.5)	DP-21 (1.5-3.0)	DP-22 (0.0-2.0)	DP-22 (2.0-4.0)	DP-23 (0.0-1.5)	DP-23 (1.5-3.0)										
			Sample Date	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018										
			Start Depth	0	2	0	3	0	1.5	0	2	0	1.5										
			End Depth	2	3.5	2	5	1.5	3	2	4	1.5	3										
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft										
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																				
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>12</sup>	mg/kg	0.79	U	0.93	U	1.0	U	1.1	U	0.92	U	1.1	U	1.0	U	1.1	U	1.1	U	0.97	U
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	<b>8.3</b>	J	2.9	U	3.1	U	3.4	U	<b>25.9</b>	J	<b>35.7</b>		2.8	U	3.2	U	<b>2,510</b>		<b>115</b>	
	Motor oil-range organics	2,000	mg/kg	<b>40.0</b>		<b>9.2</b>	J	<b>8.7</b>	J	6.1	U	<b>34.7</b>	J	<b>30.5</b>		4.9	U	5.7	U	<b>1,670</b>		<b>126</b>	
Metals <sup>5</sup>	Antimony	32	mg/kg	2.2	U	2.2	U	2.4	U	0.53	U	0.44	UJ	0.49	UJ	0.40	U	0.49	U	0.47	U	2.4	U
	Arsenic	20	mg/kg	<b>1.8</b>	J	<b>2.3</b>	J	<b>2.6</b>	J	<b>0.75</b>	J	<b>2.2</b>	J	<b>1.2</b>	J	<b>1.3</b>		<b>1.1</b>	J	<b>2.3</b>		<b>2.0</b>	J
	Beryllium	25	mg/kg	0.080	U	0.080	U	<b>0.090</b>	J	<b>0.084</b>	J	<b>0.030</b>	J	<b>0.049</b>	J	0.014	U	<b>0.046</b>	J	0.017	U	0.085	U
	Cadmium	2	mg/kg	<b>1.5</b>		0.12	U	<b>3.0</b>		0.028	U	<b>0.13</b>	J	<b>0.056</b>	J	<b>0.040</b>	J	0.026	U	<b>0.51</b>		<b>1.4</b>	
	Chromium	42	mg/kg	<b>31.5</b>		<b>7.7</b>		<b>30.1</b>		<b>6.2</b>		<b>7.0</b>	J	<b>5.1</b>	J	<b>6.1</b>		<b>9.5</b>		<b>8.0</b>		<b>23.1</b>	
	Copper	100	mg/kg	<b>71.7</b>		<b>23.6</b>		<b>555</b>		<b>12.1</b>		<b>21.7</b>	J	<b>12.5</b>	J	<b>18.0</b>		<b>16.8</b>		<b>58.6</b>		<b>473</b>	
	Lead	220	mg/kg	<b>82.5</b>		<b>26.6</b>		<b>295</b>		<b>3.4</b>		<b>184</b>	J	<b>5.6</b>	J	<b>4.9</b>		<b>10.7</b>		<b>71.1</b>		<b>91.8</b>	
	Lead (TCLP)	5 <sup>13</sup>	mg/L	--		--		--		--		--		--		--		--		--		--	
	Mercury <sup>6</sup>	2	mg/kg	<b>0.027</b>		<b>0.013</b>	J	<b>0.12</b>		0.011	U	<b>0.028</b>		<b>0.0094</b>	J	<b>0.014</b>	J	0.010	U	<b>0.057</b>		<b>0.026</b>	
	Nickel	100	mg/kg	<b>21.3</b>		<b>7.5</b>		<b>20.9</b>		<b>4.6</b>		<b>6.7</b>	J	<b>4.7</b>	J	<b>7.6</b>		<b>6.0</b>		<b>6.9</b>		<b>15.7</b>	
	Selenium	0.8	mg/kg	<b>1.9</b>	U	<b>1.9</b>	U	<b>2.1</b>	U	0.46	U	0.38	UJ	0.43	UJ	0.35	U	0.42	U	0.41	U	<b>2.1</b>	U
	Silver	400	mg/kg	0.22	U	0.22	U	0.23	U	0.051	U	0.042	UJ	0.047	UJ	0.038	U	0.047	U	0.045	U	0.23	U
	Thallium	0.8	mg/kg	<b>3.4</b>	J	<b>2.3</b>	J	<b>2.3</b>	J	<b>0.93</b>	J	0.27	UJ	<b>0.40</b>	J	<b>0.39</b>	J	<b>0.90</b>	J	<b>0.37</b>	J	<b>1.8</b>	J
Zinc	270	mg/kg	<b>264</b>		<b>122</b>		<b>592</b>		<b>26.9</b>		<b>66.1</b>	J	<b>37.9</b>	J	<b>36.0</b>		<b>40.6</b>		<b>148</b>		<b>568</b>		
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	1,000	µg/kg	11.2	U	11.2	U	11.9	U	13.0	U	11.0	U	11.9	U	10.5	U	11.9	U	11.5	U	11.9	U
	PCB-Aroclor 1221		µg/kg	14.1	U	14.1	U	15.0	U	16.4	U	13.8	U	15.0	U	13.2	U	15.1	U	14.6	U	15.0	U
	PCB-Aroclor 1232		µg/kg	16.1	U	16.1	U	17.1	U	18.6	U	15.8	U	17.1	U	15.0	U	17.2	U	16.6	U	17.1	U
	PCB-Aroclor 1242		µg/kg	13.6	U	13.7	U	14.5	U	15.8	U	13.4	U	14.5	U	12.8	U	14.6	U	14.1	U	14.5	U
	PCB-Aroclor 1248		µg/kg	12.1	U	12.1	U	12.8	U	14.0	U	11.8	U	12.8	U	11.3	U	12.9	U	12.4	U	12.8	U
	PCB-Aroclor 1254		µg/kg	<b>69.5</b>		11.8	U	12.6	U	13.7	U	<b>22.9</b>	J	12.6	U	<b>13.8</b>	J	<b>25.7</b>	J	<b>425</b>		<b>625</b>	
	PCB-Aroclor 1260		µg/kg	9.6	U	9.6	U	10.2	U	11.1	U	9.4	U	10.2	U	9.0	U	10.3	U	9.9	U	10.2	U
	Total PCB Aroclors		µg/kg	<b>69.5</b>		16.1	U	17.1	U	18.6	U	<b>22.9</b>	J	17.1	U	<b>13.8</b>	J	<b>25.7</b>	J	<b>425</b>		<b>625</b>	

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	DP-19		DP-19		DP-20		DP-20		DP-21		DP-21		DP-22		DP-22		DP-23		DP-23	
				DP-19 (0.0-2.0)	DP-19 (2.0-3.5)	DP-19 (0.0-2.0)	DP-19 (2.0-3.5)	DP-20 (0.0-2.0)	DP-20 (3.0-5.0)	DP-21 (0.0-1.5)	DP-21 (1.5-3.0)	DP-22 (0.0-2.0)	DP-22 (2.0-4.0)	DP-23 (0.0-1.5)	DP-23 (1.5-3.0)								
Location ID				11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	
Sample ID				0	2	0	3	0	1.5	0	1.5	0	2	0	2	0	4	0	1.5	0	1.5	0	1.5
Sample Date				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Start Depth																							
End Depth																							
Depth Unit																							
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	22.2	U	23.1	U	25.4	U	30.1	U	28.9	U	28.6	U	29.4	U	30.2	U	29.7	U	25.4	U
	1,1,1-Trichloroethane	2,000	µg/kg	32.9	U	34.3	U	37.7	U	44.7	U	42.8	U	42.5	U	43.6	U	44.9	U	44.0	U	37.8	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	12.4	U	13.0	U	14.3	U	16.9	U	16.2	U	16.1	U	16.5	U	17.0	U	16.6	U	14.3	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	81.9	U	85.5	U	93.9	U	111	U	107	U	106	U	108	U	112	U	110	U	94.0	U
	1,1,2-Trichloroethane	17,500	µg/kg	8.4	U	8.8	U	9.7	U	11.5	U	11.0	U	10.9	U	11.2	U	11.5	U	11.3	U	9.7	U
	1,1-Dichloroethane	175,000	µg/kg	7.9	U	8.3	U	9.1	U	10.8	U	10.3	U	10.2	U	10.5	U	10.8	U	10.6	U	9.1	U
	1,1-Dichloroethene	4,000,000	µg/kg	21.2	U	22.1	U	24.3	U	28.8	U	27.6	U	27.4	U	28.0	U	28.9	U	28.3	U	24.3	U
	1,1-Dichloropropene	NE	µg/kg	32.6	U	34.0	U	37.4	U	44.3	U	42.5	U	42.1	U	43.2	U	44.5	U	43.6	U	37.4	U
	1,2,3-Trichlorobenzene	NE	µg/kg	11.3	U	11.8	U	12.9	U	15.3	U	14.7	U	14.6	U	14.9	U	15.4	U	15.1	U	12.9	U
	1,2,3-Trichloropropane	33.3	µg/kg	18.5	U	19.3	U	21.2	U	25.1	U	24.1	U	23.9	U	24.5	U	25.2	U	24.7	U	21.2	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	15.7	U	16.4	U	18.0	U	21.3	U	20.4	U	20.2	U	20.8	U	21.4	U	21.0	U	18.0	U
	1,2,4-Trimethylbenzene	NE	µg/kg	14.1	U	14.7	U	16.2	U	19.2	U	18.4	U	18.2	U	18.7	U	19.3	U	18.9	U	16.2	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	246	U	256	U	282	U	334	U	320	U	317	U	325	U	335	U	329	U	282	U
	1,2-Dibromoethane (EDB) <sup>14</sup>	5	µg/kg	0.27	UJ	0.26	UJ	0.28	UJ	0.32	UJ	0.25	UJ	0.28	UJ	0.26	UJ	0.29	UJ	0.26	UJ	0.29	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.9	U	3.0	U	3.3	U	3.9	U	3.7	U	3.7	U	3.8	U	3.9	U	3.8	U	3.3	U
	1,2-Dichloroethane	11,000	µg/kg	7.8	U	8.1	U	8.9	U	10.5	U	10.1	U	10.0	U	10.3	U	10.6	U	10.4	U	8.9	U
	1,2-Dichloropropane	27,800	µg/kg	12.2	U	12.7	U	14.0	U	16.5	U	15.9	U	15.7	U	16.1	U	16.6	U	16.3	U	14.0	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	11.3	U	11.7	U	12.9	U	15.3	U	14.7	U	14.5	U	14.9	U	15.3	U	15.1	U	12.9	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.6	U	2.7	U	2.9	U	3.5	U	3.3	U	3.3	U	3.4	U	3.5	U	3.4	U	2.9	U
	1,3-Dichloropropane	NE	µg/kg	9.8	U	10.2	U	11.2	U	13.3	U	12.7	U	12.6	U	12.9	U	13.3	U	13.1	U	11.2	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	4.4	U	4.6	U	5.0	U	5.9	U	5.7	U	5.7	U	5.8	U	6.0	U	5.9	U	5.0	U
	2,2-Dichloropropane	NE	µg/kg	8.8	U	9.2	U	10.1	U	12.0	U	11.5	U	11.4	U	11.7	U	12.0	U	11.8	U	10.1	U
	2-Butanone (MEK)	48,000,000	µg/kg	37.6	U	39.2	U	43.1	U	51.0	U	48.9	U	48.5	U	49.7	U	51.2	U	50.3	U	43.1	U
	2-Chlorotoluene	1,600,000	µg/kg	3.5	U	3.6	U	4.0	U	4.7	U	4.5	U	4.5	U	4.6	U	4.7	U	4.6	U	4.0	U
	4-Chlorotoluene	NE	µg/kg	3.6	U	3.8	U	4.1	U	4.9	U	4.7	U	4.7	U	4.8	U	4.9	U	4.8	U	4.1	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	14.7	U	15.3	U	16.8	U	19.9	U	19.1	U	19.0	U	19.4	U	20.0	U	19.6	U	16.9	U
	Acetone	72,000,000	µg/kg	439	U	458	U	504	U	596	U	572	U	567	U	581	U	599	U	588	U	504	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	59.2	U	61.7	U	67.9	U	80.3	U	77.1	U	76.4	U	78.3	U	80.7	U	79.2	U	67.9	U
	Benzene	30	µg/kg	4.0	U	4.2	U	4.6	U	5.4	U	5.2	U	5.1	U	5.3	U	5.4	U	5.3	U	4.6	U
	Bromobenzene	NE	µg/kg	4.3	U	4.5	U	5.0	U	5.9	U	5.6	U	5.6	U	5.7	U	5.9	U	5.8	U	5.0	U
Bromochloromethane	NE	µg/kg	24.4	U	25.5	U	28.0	U	33.2	U	31.8	U	31.5	U	32.3	U	33.3	U	32.7	U	28.0	U	
Bromodichloromethane	16,100	µg/kg	24.2	U	25.2	U	27.7	U	32.8	U	31.4	U	31.2	U	32.0	U	32.9	U	32.3	U	27.7	U	
Bromoform (Tribromomethane)	127,000	µg/kg	107	U	112	U	123	U	145	U	139	U	138	U	142	U	146	U	143	U	123	U	
Bromomethane	112,000	µg/kg	82.6	U	86.2	U	94.7	U	112	U	108	U	107	U	109	U	113	U	111	U	94.8	U	
Carbon Tetrachloride	14,300	µg/kg	33.8	U	35.2	U	38.7	U	45.8	U	44.0	U	43.6	U	44.7	U	46.0	U	45.2	U	38.7	U	
Chlorobenzene	1,600,000	µg/kg	4.0	U	4.2	U	4.6	U	5.4	U	5.2	U	5.1	U	5.3	U	5.4	U	5.3	U	4.6	U	
Chloroethane	NE	µg/kg	36.7	U	38.3	U	42.1	U	49.8	U	47.8	U	47.4	U	48.6	U	50.1	U	49.1	U	42.1	U	
Chloroform	32,300	µg/kg	35.3	U	36.8	U	40.5	U	47.9	U	46.0	U	45.6	U	46.7	U	48.1	U	47.2	U	40.5	U	
Chloromethane	NE	µg/kg	16.9	U	17.7	U	19.4	U	23.0	U	22.1	U	21.9	U	22.4	U	23.1	U	22.7	U	19.4	U	
cis-1,2-Dichloroethene	160,000	µg/kg	11.7	U	12.2	U	13.4	U	15.9	U	15.2	U	15.1	U	15.5	U	16.0	U	15.7	U	13.4	U	
cis-1,3-Dichloropropene	NE	µg/kg	10.1	U	10.6	U	11.6	U	13.7	U	13.2	U	13.1	U	13.4	U	13.8	U	13.5	U	11.6	U	



Location ID				DP-19		DP-19		DP-20		DP-20		DP-21		DP-21		DP-22		DP-22		DP-23		DP-23	
Sample ID				DP-19 (0.0-2.0)		DP-19 (2.0-3.5)		DP-20 (0.0-2.0)		DP-20 (3.0-5.0)		DP-21 (0.0-1.5)		DP-21 (1.5-3.0)		DP-22 (0.0-2.0)		DP-22 (2.0-4.0)		DP-23 (0.0-1.5)		DP-23 (1.5-3.0)	
Sample Date				11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018	
Start Depth				0		2		0		3		0		1.5		0		2		0		1.5	
End Depth				2		3.5		2		5		1.5		3		2		4		1.5		3	
Depth Unit				ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																				
VOCs <sup>8</sup>	Dibromochloromethane	11,900	µg/kg	8.2	U	8.5	U	9.4	U	11.1	U	10.7	U	10.6	U	10.8	U	11.2	U	11.0	U	9.4	U
	Dibromomethane	800,000	µg/kg	13.0	U	13.5	U	14.9	U	17.6	U	16.9	U	16.7	U	17.1	U	17.7	U	17.3	U	14.9	U
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	22.9	U	23.9	U	26.2	U	31.1	U	29.8	U	29.5	U	30.3	U	31.2	U	30.6	U	26.2	U
	Ethyl Ether	16,000,000	µg/kg	43.2	U	45.1	U	49.6	U	58.7	U	56.3	U	55.8	U	57.2	U	58.9	U	57.8	U	49.6	U
	Ethylbenzene	6,000	µg/kg	3.8	U	4.0	U	4.4	U	5.2	U	5.0	U	5.0	U	5.1	U	5.2	U	5.1	U	4.4	U
	HCFC-21	NE	µg/kg	97.6	U	102	U	112	U	132	U	127	U	126	U	129	U	133	U	131	U	112	U
	Hexachlorobutadiene	12,800	µg/kg	17.2	U	18.0	U	19.8	U	23.4	U	22.4	U	22.2	U	22.8	U	23.5	U	23.0	U	19.8	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.1	U	3.3	U	3.6	U	4.3	U	4.1	U	4.0	U	4.2	U	4.3	U	4.2	U	3.6	U
	Methyl t-butyl ether	100	µg/kg	8.4	U	8.8	U	9.6	U	11.4	U	10.9	U	10.8	U	11.1	U	11.5	U	11.2	U	9.6	U
	Methylene Chloride <sup>14</sup>	20	µg/kg	4.4	UJ	4.3	UJ	4.5	UJ	5.2	UJ	4.1	UJ	4.5	UJ	4.1	UJ	4.7	UJ	4.3	UJ	4.8	UJ
	Naphthalene	5,000	µg/kg	66.1	U	69.0	U	75.8	U	89.7	U	86.1	U	85.3	U	87.5	U	<b>163</b>	J	88.4	U	75.8	U
	n-Butylbenzene	4,000,000	µg/kg	33.6	U	35.1	U	38.5	U	45.6	U	43.8	U	43.4	U	44.5	U	45.8	U	45.0	U	38.6	U
	n-Propylbenzene	8,000,000	µg/kg	3.8	U	3.9	U	4.3	U	5.1	U	4.9	U	4.9	U	5.0	U	5.1	U	5.0	U	4.3	U
	p-Isopropyltoluene	NE	µg/kg	21.5	U	22.4	U	24.6	U	29.1	U	28.0	U	27.7	U	28.4	U	29.3	U	28.7	U	24.6	U
	Sec-Butylbenzene	8,000,000	µg/kg	13.5	U	14.1	U	15.5	U	18.4	U	17.6	U	17.5	U	17.9	U	18.4	U	18.1	U	15.5	U
	Styrene	16,000,000	µg/kg	3.2	U	3.4	U	3.7	U	4.4	U	4.2	U	4.2	U	4.3	U	4.4	U	4.3	U	3.7	U
	Tert-Butylbenzene	8,000,000	µg/kg	13.6	U	14.1	U	15.5	U	18.4	U	17.7	U	17.5	U	17.9	U	18.5	U	18.1	U	15.6	U
	Tetrachloroethene	50	µg/kg	24.9	U	25.9	U	28.5	U	33.7	U	32.4	U	32.1	U	32.9	U	33.9	U	33.3	U	28.5	U
	Tetrahydrofuran	NE	µg/kg	103	U	107	U	118	U	139	U	134	U	133	U	136	U	140	U	137	U	118	U
	Toluene	7,000	µg/kg	17.2	U	18.0	U	19.8	U	23.4	U	22.4	U	22.2	U	22.8	U	23.5	U	23.0	U	19.8	U
Total Xylenes	9,000	µg/kg	16.4	U	17.1	U	18.8	U	22.2	U	21.3	U	21.2	U	21.7	U	22.3	U	21.9	U	18.8	U	
trans-1,2-Dichloroethene	1,600,000	µg/kg	33.1	U	34.5	U	37.9	U	44.9	U	43.0	U	42.7	U	43.8	U	45.1	U	44.2	U	37.9	U	
trans-1,3-Dichloropropene	NE	µg/kg	9.8	U	10.2	U	11.3	U	13.3	U	12.8	U	12.7	U	13.0	U	13.4	U	13.1	U	11.3	U	
Trichloroethene	30	µg/kg	10.9	U	11.4	U	12.5	U	14.8	U	14.2	U	14.1	U	14.4	U	14.8	U	14.6	U	12.5	U	
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	123	U	129	U	141	U	167	U	160	U	159	U	163	U	168	U	165	U	141	U	
Vinyl Chloride	240,000	µg/kg	13.9	U	14.5	U	15.9	U	18.9	U	18.1	U	17.9	U	18.4	U	18.9	U	18.6	U	15.9	U	
PAHs <sup>9</sup>	1-Methylnaphthalene	5,000	µg/kg	0.65	U	0.65	U	14.0	U	0.76	U	3.2	U	0.70	U	0.61	U	0.70	U	3.4	U	13.8	U
	2-Methylnaphthalene		µg/kg	<b>0.91</b>	J	0.62	U	13.2	U	0.72	U	3.0	U	0.66	U	0.58	U	0.66	U	3.2	U	13.1	U
	Naphthalene		µg/kg	<b>1.2</b>	J	0.94	U	20.1	U	1.1	U	4.6	U	1.0	U	0.88	U	1.0	U	<b>6.1</b>	J	<b>27.9</b>	J
	Acenaphthene	NE	µg/kg	0.50	U	<b>0.89</b>	J	<b>83.8</b>	J	0.58	U	<b>2.7</b>	J	0.53	U	0.47	U	0.53	U	<b>41.9</b>	J	<b>452</b>	
	Acenaphthylene	NE	µg/kg	<b>2.0</b>	J	0.60	U	<b>92.2</b>	J	0.70	U	<b>17.3</b>	J	<b>1.0</b>	J	0.56	U	<b>1.2</b>	J	3.1	U	12.8	U
	Anthracene	NE	µg/kg	<b>4.4</b>	J	<b>1.8</b>	J	<b>666</b>		0.67	U	<b>46.2</b>	J	<b>2.3</b>	J	<b>0.66</b>	J	<b>2.6</b>	J	<b>175</b>		<b>1,910</b>	
	Benzo(a)anthracene	NE	µg/kg	<b>11.9</b>	J	<b>4.7</b>	J	<b>1,510</b>		1.5	U	<b>204</b>		<b>8.3</b>	J	<b>1.9</b>	J	<b>5.6</b>	J	<b>200</b>		<b>1,910</b>	
	Benzo(a)pyrene	100	µg/kg	<b>12.2</b>		<b>6.5</b>	J	<b>498</b>		0.98	U	<b>245</b>		<b>12.3</b>	J	<b>1.3</b>	J	<b>6.7</b>	J	<b>122</b>		<b>1,070</b>	
	Benzo(b)fluoranthene	NE	µg/kg	<b>28.2</b>		<b>9.2</b>	J	<b>1,190</b>		0.53	U	<b>510</b>		<b>28.7</b>		<b>2.3</b>	J	<b>13.4</b>		<b>190</b>		<b>1,640</b>	
	Benzo(g,h,i)perylene	NE	µg/kg	<b>24.3</b>		<b>6.7</b>	J	<b>197</b>	J	0.90	U	<b>230</b>		<b>14.8</b>		<b>1.6</b>	J	<b>7.4</b>	J	<b>95.3</b>		<b>636</b>	
	Benzo(k)fluoranthene	NE	µg/kg	<b>10.9</b>	J	<b>4.4</b>	J	<b>503</b>		1.2	U	<b>204</b>		<b>9.3</b>	J	<b>1.1</b>	J	<b>5.4</b>	J	<b>76.7</b>		<b>856</b>	
	Chrysene	NE	µg/kg	<b>15.7</b>		<b>6.0</b>	J	<b>1,880</b>		1.9	U	<b>394</b>		<b>18.0</b>		<b>2.3</b>	J	<b>10.1</b>	J	<b>227</b>		<b>1,860</b>	
	Dibenzo(a,h)anthracene	NE	µg/kg	<b>7.2</b>	J	<b>1.2</b>	J	<b>83.0</b>	J	0.66	U	<b>58.9</b>	J	<b>3.6</b>	J	0.53	U	<b>1.6</b>	J	<b>17.5</b>	J	<b>145</b>	J
	Fluoranthene	NE	µg/kg	<b>24.7</b>		<b>9.5</b>	J	<b>7,020</b>		0.61	U	<b>494</b>		<b>16.5</b>		<b>4.3</b>	J	<b>14.7</b>		<b>601</b>		<b>5,430</b>	
Fluorene	NE	µg/kg	<b>0.80</b>	J	0.38	U	<b>151</b>	J	0.44	U	<b>4.4</b>	J	0.41	U	0.36	U	0.41	U	<b>44.0</b>	J	<b>472</b>		

				Location ID		DP-19		DP-19		DP-20		DP-20		DP-21		DP-21		DP-22		DP-22		DP-23		DP-23	
				Sample ID		DP-19 (0.0-2.0)		DP-19 (2.0-3.5)		DP-20 (0.0-2.0)		DP-20 (3.0-5.0)		DP-21 (0.0-1.5)		DP-21 (1.5-3.0)		DP-22 (0.0-2.0)		DP-22 (2.0-4.0)		DP-23 (0.0-1.5)		DP-23 (1.5-3.0)	
				Sample Date		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018	
				Start Depth		0		2		0		3		0		1.5		0		2		0		1.5	
				End Depth		2		3.5		2		5		1.5		3		2		4		1.5		3	
				Depth Unit		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																						
PAHs <sup>9</sup>	Indeno(1,2,3-c,d)pyrene	NE	µg/kg	17.7		5.2	J	194	J	0.95	U	173		10.6	J	1.1	J	5.6	J	72.2		595			
	Phenanthrene	NE	µg/kg	11.5	J	5.9	J	2,630		2.7	U	79.9		2.5	U	2.2	U	4.5	J	456		4,800			
	Pyrene	NE	µg/kg	22.4		9.6	J	5,590		2.2	U	611		21.4		3.9	J	13.6		549		4,790			
	Total cPAH TEQ (ND=DL) <sup>10,11</sup>	100	µg/kg	19.95	J	9.03	J	864.80	J	0.742	U	363.93	J	18.53	J	1.99	J	9.96	J	179.91	J	1,603.2	J		

				Location ID	DP-24	DP-24	DP-25	DP-25	DP-26	DP-26	DP-27	DP-27	DP-28	DP-28									
				Sample ID	DP-24 (0.0-1.5)	DP-24 (1.5-3.0)	DP-25 (0.0-2.0)	DP-25 (3.0-5.0)	DP-26 (0.0-1.5)	DP-26 (1.5-3.0)	DP-27 (0.0-2.0)	DP-27 (3.0-4.0)	DP-28 (0.0-2.0)	DP-28 (2.0-4.0)									
				Sample Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018									
				Start Depth	0	1.5	0	3	0	1.5	0	3	0	2									
				End Depth	1.5	3	2	5	1.5	3	2	4	2	4									
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft									
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																				
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>12</sup>	mg/kg	1.1	U	0.79	UJ	1.5	U	1.2	U	1.2	U	3.2	J	2.9	J	1.2	U	1.7	J	5.7	J
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	14.5	J	2.9	U	3.1	U	8.4	J	11.6	J	5.9	J	3.1	U	14.0	J	3.1	U	3.2	U
	Motor oil-range organics	2,000	mg/kg	48.5		6.7	J	5.8	J	26.7		20.4		34.0		10.6	J	28.5		5.5	U	5.7	U
Metals <sup>5</sup>	Antimony	32	mg/kg	0.45	U	0.42	U	0.44	U	0.49	U	7.6		0.43	U	0.49	U	0.49	U	0.47	U	0.48	U
	Arsenic	20	mg/kg	1.6		1.2		1.3		0.78	J	1.4		1.0	J	1.6		0.99	J	1.4		1.0	J
	Beryllium	25	mg/kg	0.016	U	0.049	J	0.016	U	0.017	U	0.016	U	0.015	U	0.017	U	0.047	J	0.017	U	0.017	U
	Cadmium	2	mg/kg	0.46		0.060	J	0.045	J	0.026	U	0.18		0.029	J	0.40		0.11	J	0.24		0.025	U
	Chromium	42	mg/kg	7.2		6.0		5.5		3.9		10.8		5.0		6.4		8.1		6.0		4.7	
	Copper	100	mg/kg	65.0		21.1		16.7		10.3		98.8		14.8		52.5		23.0		46.3		14.7	
	Lead	220	mg/kg	37.0		79.4		8.1		2.4		1,600		3.9		38.4		19.3		22.0		4.1	
	Lead (TCLP)	5 <sup>13</sup>	mg/L	--		--		--		--		0.0098	U	--		--		--		--		--	
	Mercury <sup>6</sup>	2	mg/kg	0.051		0.0088	J	0.020	J	0.010	U	0.047		0.0085	U	0.047		0.023		0.032		0.0093	U
	Nickel	100	mg/kg	6.4		5.2		4.8		3.8		6.9		4.6		6.3		5.7		5.7		4.6	
	Selenium	0.8	mg/kg	0.39	U	0.36	U	0.39	U	0.42	U	0.38	U	0.38	U	0.43	U	0.43	U	0.41	U	0.42	U
	Silver	400	mg/kg	0.043	U	0.040	U	0.043	U	0.047	U	0.71		0.042	U	0.047	U	0.047	U	0.045	U	0.046	U
	Thallium	0.8	mg/kg	0.52	J	0.46	J	0.77	J	0.53	J	0.76	J	0.74	J	0.71	J	0.30	U	0.61	J	0.37	J
Zinc	270	mg/kg	94.6		50.2		43.2		24.2		70.2		29.5		102		57.5		68.7		32.6		
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	1,000	µg/kg	10.9	U	11.0	U	11.7	U	12.1	U	11.1	U	11.6	U	11.9	U	12.2	U	11.7	U	12.0	U
	PCB-Aroclor 1221		µg/kg	13.8	U	13.9	U	14.8	U	15.2	U	14.0	U	14.7	U	15.0	U	15.4	U	14.7	U	15.2	U
	PCB-Aroclor 1232		µg/kg	15.7	U	15.8	U	16.9	U	17.3	U	15.9	U	16.7	U	17.1	U	17.6	U	16.8	U	17.3	U
	PCB-Aroclor 1242		µg/kg	13.3	U	13.4	U	14.3	U	14.7	U	13.5	U	14.2	U	14.5	U	14.9	U	14.2	U	14.6	U
	PCB-Aroclor 1248		µg/kg	11.8	U	11.9	U	12.7	U	13.0	U	11.9	U	12.5	U	12.8	U	13.2	U	12.6	U	12.9	U
	PCB-Aroclor 1254		µg/kg	11.5	U	11.6	U	12.4	U	12.7	U	11.7	U	12.3	U	12.6	U	12.9	U	12.3	U	12.7	U
	PCB-Aroclor 1260		µg/kg	58.0		9.5	U	10.1	U	10.4	U	19.3	J	10	U	28.8	J	10.5	U	10.0	U	10.3	U
	Total PCB Aroclors		µg/kg	58.0		15.8	U	16.9	U	17.3	U	19.3	J	16.7	U	28.8	J	17.6	U	16.8	U	17.3	U

				Location ID	DP-24	DP-24	DP-25	DP-25	DP-26	DP-26	DP-27	DP-27	DP-28	DP-28							
				Sample ID	DP-24 (0.0-1.5)	DP-24 (1.5-3.0)	DP-25 (0.0-2.0)	DP-25 (3.0-5.0)	DP-26 (0.0-1.5)	DP-26 (1.5-3.0)	DP-27 (0.0-2.0)	DP-27 (3.0-4.0)	DP-28 (0.0-2.0)	DP-28 (2.0-4.0)							
				Sample Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018							
				Start Depth	0	1.5	0	3	0	1.5	0	3	0	2							
				End Depth	1.5	3	2	5	1.5	3	2	4	2	4							
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft							
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																		
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	27.9	U	18.9	U	--	--	--	--	31.6	U	29.6	U	30.3	U	29.5	U		
	1,1,1-Trichloroethane	2,000	µg/kg	41.4	U	28.1	U	--	--	--	--	46.8	U	44.0	U	44.9	U	43.8	U		
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	15.7	U	10.6	U	--	--	--	--	17.7	U	16.6	U	17.0	U	16.6	U		
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	103	U	69.9	U	--	--	--	--	117	U	109	U	112	U	109	U		
	1,1,2-Trichloroethane	17,500	µg/kg	10.6	U	7.2	U	--	--	--	--	12.0	U	11.3	U	11.5	U	11.3	U		
	1,1-Dichloroethane	175,000	µg/kg	10	U	6.8	U	--	--	--	--	11.3	U	10.6	U	10.8	U	10.6	U		
	1,1-Dichloroethene	4,000,000	µg/kg	26.7	U	18.1	U	--	--	--	--	30.1	U	28.3	U	28.9	U	28.2	U		
	1,1-Dichloropropene	NE	µg/kg	41.1	U	27.9	U	--	--	--	--	46.4	U	43.6	U	44.5	U	43.5	U		
	1,2,3-Trichlorobenzene	NE	µg/kg	14.2	U	9.6	U	--	--	--	--	16.1	U	15.1	U	15.4	U	15.0	U		
	1,2,3-Trichloropropane	33.3	µg/kg	23.3	U	15.8	U	--	--	--	--	26.3	U	24.7	U	25.2	U	24.6	U		
	1,2,4-Trichlorobenzene	34,500	µg/kg	19.7	U	13.4	U	--	--	--	--	22.3	U	20.9	U	21.4	U	20.9	U		
	1,2,4-Trimethylbenzene	NE	µg/kg	17.8	U	12.1	U	--	--	--	--	20.1	U	18.9	U	19.3	U	18.8	U		
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	309	U	210	U	--	--	--	--	350	U	328	U	335	U	327	U		
	1,2-Dibromoethane (EDB) <sup>14</sup>	5	µg/kg	0.26	UJ	0.26	UJ	0.28	UJ	0.29	UJ	0.26	UJ	0.28	UJ	0.29	UJ	0.28	UJ	0.29	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	3.6	U	2.4	U	--	--	--	--	4.1	U	3.8	U	3.9	U	3.8	U		
	1,2-Dichloroethane	11,000	µg/kg	9.8	U	6.6	U	--	--	--	--	11.1	U	10.4	U	10.6	U	10.3	U		
	1,2-Dichloropropane	27,800	µg/kg	15.3	U	10.4	U	--	--	--	--	17.3	U	16.3	U	16.6	U	16.2	U		
	1,3,5-Trimethylbenzene	800,000	µg/kg	14.2	U	9.6	U	--	--	--	--	16.0	U	15.0	U	15.4	U	15.0	U		
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	3.2	U	2.2	U	--	--	--	--	3.7	U	3.4	U	3.5	U	3.4	U		
	1,3-Dichloropropane	NE	µg/kg	12.3	U	8.3	U	--	--	--	--	13.9	U	13.1	U	13.3	U	13.0	U		
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	5.5	U	3.7	U	--	--	--	--	6.2	U	5.8	U	6.0	U	5.8	U		
	2,2-Dichloropropane	NE	µg/kg	11.1	U	7.5	U	--	--	--	--	12.5	U	11.8	U	12.0	U	11.7	U		
	2-Butanone (MEK)	48,000,000	µg/kg	47.3	U	32.1	U	--	--	--	--	53.5	U	50.2	U	51.3	U	50.0	U		
	2-Chlorotoluene	1,600,000	µg/kg	4.4	U	3.0	U	--	--	--	--	4.9	U	4.6	U	4.7	U	4.6	U		
	4-Chlorotoluene	NE	µg/kg	4.6	U	3.1	U	--	--	--	--	5.1	U	4.8	U	4.9	U	4.8	U		
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	18.5	U	12.5	U	--	--	--	--	20.9	U	19.6	U	20.0	U	19.6	U		
	Acetone	72,000,000	µg/kg	553	U	375	U	--	--	--	--	625	U	587	U	599	U	585	U		
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	74.5	U	50.5	U	--	--	--	--	84.2	U	79.1	U	80.7	U	78.8	U		
	Benzene	30	µg/kg	5.0	U	3.4	U	--	--	--	--	5.7	U	5.3	U	5.4	U	5.3	U		
	Bromobenzene	NE	µg/kg	5.5	U	3.7	U	--	--	--	--	6.2	U	5.8	U	5.9	U	5.8	U		
Bromochloromethane	NE	µg/kg	30.8	U	20.9	U	--	--	--	--	34.8	U	32.6	U	33.3	U	32.5	U			
Bromodichloromethane	16,100	µg/kg	30.4	U	20.6	U	--	--	--	--	34.4	U	32.3	U	33.0	U	32.2	U			
Bromoform (Tribromomethane)	127,000	µg/kg	135	U	91.3	U	--	--	--	--	152	U	143	U	146	U	142	U			
Bromomethane	112,000	µg/kg	104	U	70.5	U	--	--	--	--	118	U	110	U	113	U	110	U			
Carbon Tetrachloride	14,300	µg/kg	42.5	U	28.8	U	--	--	--	--	48.0	U	45.1	U	46.1	U	45.0	U			
Chlorobenzene	1,600,000	µg/kg	5.0	U	3.4	U	--	--	--	--	5.7	U	5.3	U	5.4	U	5.3	U			
Chloroethane	NE	µg/kg	46.2	U	31.4	U	--	--	--	--	52.3	U	49.1	U	50.1	U	48.9	U			
Chloroform	32,300	µg/kg	44.5	U	30.1	U	--	--	--	--	50.2	U	47.2	U	48.2	U	47.0	U			
Chloromethane	NE	µg/kg	21.3	U	14.5	U	--	--	--	--	24.1	U	22.6	U	23.1	U	22.6	U			
cis-1,2-Dichloroethene	160,000	µg/kg	14.7	U	10	U	--	--	--	--	16.7	U	15.6	U	16.0	U	15.6	U			
cis-1,3-Dichloropropene	NE	µg/kg	12.7	U	8.6	U	--	--	--	--	14.4	U	13.5	U	13.8	U	13.5	U			

				Location ID	DP-24	DP-24	DP-25	DP-25	DP-26	DP-26	DP-27	DP-27	DP-28	DP-28									
				Sample ID	DP-24 (0.0-1.5)	DP-24 (1.5-3.0)	DP-25 (0.0-2.0)	DP-25 (3.0-5.0)	DP-26 (0.0-1.5)	DP-26 (1.5-3.0)	DP-27 (0.0-2.0)	DP-27 (3.0-4.0)	DP-28 (0.0-2.0)	DP-28 (2.0-4.0)									
				Sample Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018									
				Start Depth	0	1.5	0	3	0	1.5	0	3	0	2									
				End Depth	1.5	3	2	5	1.5	3	2	4	2	4									
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft									
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																				
VOCs <sup>8</sup>	Dibromochloromethane	11,900	µg/kg	10.3	U	7.0	U	--	--	--	--	11.7	U	10.9	U	11.2	U	10.9	U				
	Dibromomethane	800,000	µg/kg	16.3	U	11.1	U	--	--	--	--	18.4	U	17.3	U	17.7	U	17.3	U				
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	28.8	U	19.5	U	--	--	--	--	32.6	U	30.6	U	31.2	U	30.5	U				
	Ethyl Ether	16,000,000	µg/kg	54.4	U	36.9	U	--	--	--	--	61.5	U	57.7	U	59.0	U	57.6	U				
	Ethylbenzene	6,000	µg/kg	4.8	U	<b>3.8</b>	J	--	--	--	--	5.5	U	5.1	U	5.2	U	5.1	U				
	HCFC-21	NE	µg/kg	123	U	83.3	U	--	--	--	--	139	U	130	U	133	U	130	U				
	Hexachlorobutadiene	12,800	µg/kg	21.7	U	14.7	U	--	--	--	--	24.5	U	23.0	U	23.5	U	23.0	U				
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.9	U	2.7	U	--	--	--	--	4.5	U	4.2	U	4.3	U	4.2	U				
	Methyl t-butyl ether	100	µg/kg	10.6	U	7.2	U	--	--	--	--	12.0	U	11.2	U	11.5	U	11.2	U				
	Methylene Chloride <sup>14</sup>	20	µg/kg	4.2	UJ	4.2	UJ	4.6	UJ	4.7	UJ	4.2	UJ	4.6	UJ	4.7	UJ	4.9	UJ	4.5	UJ		
	Naphthalene	5,000	µg/kg	83.2	U	56.4	U	--	--	--	--	94.1	U	88.3	U	90.2	U	88.1	U				
	n-Butylbenzene	4,000,000	µg/kg	42.3	U	28.7	U	--	--	--	--	47.8	U	44.9	U	45.9	U	44.8	U				
	n-Propylbenzene	8,000,000	µg/kg	4.7	U	3.2	U	--	--	--	--	5.4	U	5.0	U	5.1	U	5.0	U				
	p-Isopropyltoluene	NE	µg/kg	27.0	U	18.3	U	--	--	--	--	30.5	U	28.7	U	29.3	U	28.6	U				
	Sec-Butylbenzene	8,000,000	µg/kg	17.0	U	11.6	U	--	--	--	--	19.3	U	18.1	U	18.5	U	18.0	U				
	Styrene	16,000,000	µg/kg	4.1	U	2.7	U	--	--	--	--	4.6	U	4.3	U	4.4	U	4.3	U				
	Tert-Butylbenzene	8,000,000	µg/kg	17.1	U	11.6	U	--	--	--	--	19.3	U	18.1	U	18.5	U	18.1	U				
	Tetrachloroethene	50	µg/kg	31.3	U	21.2	U	--	--	--	--	35.4	U	33.2	U	33.9	U	33.1	U				
	Tetrahydrofuran	NE	µg/kg	129	U	87.7	U	--	--	--	--	146	U	137	U	140	U	137	U				
	Toluene	7,000	µg/kg	21.7	U	14.7	U	--	--	--	--	24.5	U	23.0	U	23.5	U	23.0	U				
Total Xylenes	9,000	µg/kg	20.6	U	14.0	U	--	--	--	--	23.3	U	21.9	U	22.4	U	21.8	U					
trans-1,2-Dichloroethene	1,600,000	µg/kg	41.6	U	28.2	U	--	--	--	--	47.0	U	44.2	U	45.1	U	44.0	U					
trans-1,3-Dichloropropene	NE	µg/kg	12.4	U	8.4	U	--	--	--	--	14.0	U	13.1	U	13.4	U	13.1	U					
Trichloroethene	30	µg/kg	13.7	U	9.3	U	--	--	--	--	15.5	U	14.5	U	14.9	U	14.5	U					
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	155	U	105	U	--	--	--	--	175	U	165	U	168	U	164	U					
Vinyl Chloride	240,000	µg/kg	17.5	U	11.9	U	--	--	--	--	19.8	U	18.6	U	19.0	U	18.5	U					
PAHs <sup>9</sup>	1-Methylnaphthalene	5,000	µg/kg	<b>1.1</b>	J	0.64	U	<b>3.4</b>	J	0.70	U	<b>0.78</b>	J	0.67	U	0.69	U	0.71	U	0.68	U	0.70	U
	2-Methylnaphthalene		µg/kg	<b>1.6</b>	J	0.61	U	<b>1.6</b>	J	0.66	U	<b>0.84</b>	J	0.64	U	0.65	U	0.67	U	0.64	U	0.66	U
	Naphthalene		µg/kg	<b>1.6</b>	J	0.93	U	<b>4.1</b>	J	1.0	U	<b>0.97</b>	J	0.97	U	1.0	U	1.0	U	0.98	U	1.0	U
	Acenaphthene	NE	µg/kg	<b>11.5</b>	J	0.49	U	<b>13.8</b>	J	0.54	U	<b>21.1</b>	J	0.52	U	<b>10.6</b>	J	0.54	U	0.52	U	0.54	U
	Acenaphthylene	NE	µg/kg	<b>17.2</b>	J	<b>2.2</b>	J	<b>56.6</b>	J	0.65	U	<b>1.5</b>	J	0.62	U	<b>2.3</b>	J	0.66	U	0.63	U	0.65	U
	Anthracene	NE	µg/kg	<b>59.1</b>	J	<b>5.4</b>	J	<b>137</b>	J	0.61	U	<b>100</b>	J	<b>1.7</b>	J	<b>69.3</b>	J	0.62	U	<b>4.3</b>	J	<b>1.8</b>	J
	Benzo(a)anthracene	NE	µg/kg	<b>118</b>	J	<b>11.7</b>	J	<b>273</b>	J	1.4	U	<b>175</b>	J	<b>6.1</b>	J	<b>130</b>	J	<b>3.9</b>	J	<b>7.9</b>	J	<b>4.9</b>	J
	Benzo(a)pyrene	100	µg/kg	<b>83.9</b>	J	<b>13.4</b>	J	<b>278</b>	J	0.90	U	<b>164</b>	J	<b>5.0</b>	J	<b>119</b>	J	<b>4.5</b>	J	<b>9.4</b>	J	<b>3.3</b>	J
	Benzo(b)fluoranthene	NE	µg/kg	<b>265</b>	J	<b>37.5</b>	J	<b>325</b>	J	0.49	U	<b>216</b>	J	<b>9.9</b>	J	<b>130</b>	J	<b>6.2</b>	J	<b>15.0</b>	J	<b>4.8</b>	J
	Benzo(g,h,i)perylene	NE	µg/kg	<b>90.0</b>	J	<b>10.6</b>	J	<b>194</b>	J	0.83	U	<b>113</b>	J	<b>3.2</b>	J	<b>63.1</b>	J	<b>3.8</b>	J	<b>10.6</b>	J	0.83	U
	Benzo(k)fluoranthene	NE	µg/kg	<b>93.9</b>	J	<b>13.1</b>	J	<b>92.1</b>	J	1.1	U	<b>64.4</b>	J	<b>3.1</b>	J	<b>60.0</b>	J	<b>2.3</b>	J	<b>6.0</b>	J	<b>1.7</b>	J
	Chrysene	NE	µg/kg	<b>234</b>	J	<b>29.5</b>	J	<b>241</b>	J	1.8	U	<b>171</b>	J	<b>8.9</b>	J	<b>106</b>	J	<b>4.0</b>	J	<b>10.3</b>	J	<b>4.2</b>	J
	Dibenzo(a,h)anthracene	NE	µg/kg	<b>34.8</b>	J	<b>5.0</b>	J	<b>40.5</b>	J	0.61	U	<b>37.5</b>	J	<b>1.1</b>	J	<b>18.7</b>	J	0.61	U	0.59	U	0.61	U
	Fluoranthene	NE	µg/kg	<b>372</b>	J	<b>41.5</b>	J	<b>584</b>	J	0.56	U	<b>332</b>	J	<b>17.6</b>	J	<b>234</b>	J	<b>5.7</b>	J	<b>10.3</b>	J	<b>9.0</b>	J
Fluorene	NE	µg/kg	<b>9.6</b>	J	<b>0.70</b>	J	<b>31.9</b>	J	0.41	U	<b>16.8</b>	J	0.39	U	<b>11.4</b>	J	0.42	U	0.40	U	0.41	U	

				Location ID	DP-24	DP-24	DP-25	DP-25	DP-26	DP-26	DP-27	DP-27	DP-28	DP-28									
				Sample ID	DP-24 (0.0-1.5)	DP-24 (1.5-3.0)	DP-25 (0.0-2.0)	DP-25 (3.0-5.0)	DP-26 (0.0-1.5)	DP-26 (1.5-3.0)	DP-27 (0.0-2.0)	DP-27 (3.0-4.0)	DP-28 (0.0-2.0)	DP-28 (2.0-4.0)									
				Sample Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018									
				Start Depth	0	1.5	0	3	0	1.5	0	3	0	2									
				End Depth	1.5	3	2	5	1.5	3	2	4	2	4									
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft									
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																				
PAHs <sup>9</sup>	Indeno(1,2,3-c,d)pyrene	NE	µg/kg	<b>80.7</b>		<b>11.8</b>	J	<b>160</b>	J	0.88	U	<b>101</b>		<b>3.0</b>	J	<b>63.2</b>		<b>3.0</b>	J	<b>8.1</b>	J	0.88	U
	Phenanthrene	NE	µg/kg	<b>183</b>		<b>15.5</b>		<b>428</b>	J	2.5	U	<b>256</b>		<b>11.0</b>	J	<b>182</b>		2.6	U	<b>5.1</b>	J	<b>5.5</b>	J
	Pyrene	NE	µg/kg	<b>299</b>		<b>34.3</b>		<b>583</b>	J	2.0	U	<b>288</b>		<b>18.2</b>		<b>237</b>		<b>5.5</b>	J	<b>11.9</b>	J	<b>6.9</b>	J
	Total cPAH TEQ (ND=DL) <sup>10,11</sup>	100	µg/kg	<b>145.48</b>		<b>21.61</b>	J	<b>369.47</b>	J	0.683	U	<b>225.1</b>		<b>7.41</b>	J	<b>160.25</b>		<b>6.11</b>	J	<b>13.23</b>	J	<b>4.56</b>	J

Notes:

<sup>1</sup>Samples analyzed by Pace Analytical Services, LLC. located in Minneapolis, Minnesota.

<sup>2</sup>Washington State Model Toxics Control Act (MTCA) Method A and B Soil Cleanup Levels (CULs) for Unrestricted Land Use.

<sup>3</sup>MTCA Method B Soil CULs used if Method A Soil CULs are NE. The MTCA Method B CUL shown is the lowest for either carcinogen or non-carcinogen.

<sup>4</sup>Gasoline, Diesel and Oil-Range Petroleum Hydrocarbons (GRPH, DRPH, ORPH) analyzed using Northwest Methods NWTPH-Gx and NWTPH-Dx.

<sup>5</sup>Metals analyzed using EPA Method 6010D.

<sup>6</sup>Mercury analyzed using EPA Method 7471B.

<sup>7</sup>Polychlorinated biphenyl's (PCBs) analyzed using EPA Method 8082A.

<sup>8</sup>Volatile organic compounds (VOCs) analyzed using EPA Method 8260B.

<sup>9</sup>Polycyclic aromatic hydrocarbons (PAHs) analyzed using EPA Method 8270D by SIM.

<sup>10</sup>Carcinogenic PAH (cPAH) toxic equivalency (TEQ) calculated using toxic equivalency factors (TEF) from MTCA Table 708-2, based on methodology described in MTCA Cleanup Regulation Washington Administrative Code (WAC) 173-340-708.

<sup>11</sup>The TEQ reported was calculated using half the laboratory method detection limits for cPAHs that were reported as non-detected (ND).

<sup>12</sup>The GRPH cleanup level is 100 mg/kg unless benzene is present, in which case the cleanup level is 30 mg/kg.

<sup>13</sup>Resource Conservation and Recovery Act (RCRA) regulatory level for the maximum concentration of lead for toxicity characteristics.

<sup>14</sup>Results reported in the table were analyzed using the EPA 5035 low level preparation method.

NE = not established; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; U = analyte was not detected greater than the method detection limit; J = estimated result; UJ - analyte was not detected greater than the method detection limit and is considered an estimated result;

"-" = not tested; TCLP = toxicity characteristic leaching procedure

**Bold** indicates that the analyte was detected greater than the laboratory method detection limit.

**Bold** and shading indicates analyte was detected above the applicable cleanup level concentration.

**Yellow** shading indicates analyte was not detected above the method detection limit, but the method detection limit was greater than or equal to the referenced cleanup level.

**Table 4**  
**Summary of Soil Chemical Analytical Results – Test Pit and Monitoring Wells<sup>1</sup>**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-1		TP-1		TP-2		TP-2		TP-3		TP-3		TP-4		TP-4		TP-5		TP-5		TP-6		TP-6		TP-7		TP-7		TP-8	
				TP-1 (2)	TP-1 (5)	TP-2 (3)	TP-2 (6)	TP-3 (3)	TP-3 (6)	TP-4 (3)	TP-4 (6)	TP-5 (3)	TP-5 (6)	TP-6 (2)	TP-6 (5)	TP-7 (2)	TP-7 (5)	TP-8 (7)															
Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018		
Start Depth	2	5	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	2	5	2	5	2	5	2	5	7				
End Depth	2	5	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	3	6	2	5	2	5	2	5	7						
Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>14</sup>	mg/kg	0.76	U	0.79	U	0.68	U	0.69	U	0.77	UJ	0.78	U	0.92	U	0.69	U	0.77	U	0.76	U	0.85	U	2.0	J	4.0	J	0.71	U	0.70	U
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	2.9	U	2.9	U	2.5	U	2.6	U	5.6	J	2.6	U	5.2	J	2.6	U	7.1	J	2.7	U	15.8	J	2.9	J	14.2	J	4.2	J	7.6	J
NWTPH-DX <sup>4</sup>	Motor oil-range organics	2,000	mg/kg	8.5	J	5.2	U	4.5	U	7.8	J	19.1	J	5.5	J	15.4	J	4.6	U	24.5	J	4.8	U	38.2	J	10.8	J	85.4	J	20.0	J	4.6	U
Metals <sup>5</sup>	Antimony	25	mg/kg	2.2	UJ	0.46	UJ	0.39	U	0.39	U	0.42	U	0.38	U	0.44	U	0.40	U	0.43	U	0.41	U	0.47	U	0.39	U	0.55	U	0.40	U	0.40	U
	Arsenic	20	mg/kg	1.7	J	1.3	J	1.0	J	0.99	J	1.4	J	1.0	J	1.9	J	1.0	J	1.3	J	1.1	J	2.0	J	1.2	J	2.2	J	0.84	J	1.1	J
	Beryllium	160	mg/kg	0.62	J	0.45	J	0.34	J	0.25	J	0.40	J	0.33	J	0.44	J	0.28	J	0.37	J	0.38	J	0.45	J	0.30	J	0.57	J	0.30	J	0.37	J
	Cadmium	2	mg/kg	0.12	U	0.076	J	0.13	J	0.067	J	0.14	J	0.023	J	0.078	J	0.021	U	0.077	J	0.022	U	0.13	J	0.068	J	0.23	J	0.024	J	0.047	J
	Chromium	42	mg/kg	7.6	J	6.3	J	3.4	J	2.5	J	6.4	J	3.5	J	8.4	J	2.3	J	6.0	J	4.8	J	9.1	J	3.5	J	9.4	J	3.5	J	3.7	J
	Copper	100	mg/kg	14.6	J	14.2	J	16.7	J	10.2	J	17.9	J	9.6	J	13.9	J	8.2	J	12.1	J	10.7	J	15.9	J	18.0	J	21.1	J	10.7	J	10.9	J
	Lead	220	mg/kg	9.3	J	10.2	J	19.6	J	6.8	J	29.7	J	3.5	J	13.1	J	2.7	J	21.2	J	3.6	J	21.4	J	9.6	J	45.4	J	34.3	J	6.6	J
	Mercury <sup>6</sup>	2	mg/kg	0.034	J	0.049	J	0.018	J	0.0083	J	0.073	J	0.017	J	0.075	J	0.023	J	0.23	J	0.015	J	0.10	J	0.084	J	0.11	J	0.035	J	0.023	J
	Nickel	100	mg/kg	5.6	J	4.7	J	3.7	J	3.6	J	4.9	J	3.1	J	6.3	J	2.5	J	4.6	J	3.3	J	7.8	J	3.0	J	7.0	J	2.9	J	2.9	J
	Selenium	0.8	mg/kg	2.0	U	0.40	U	0.34	U	0.34	U	0.36	U	0.33	U	0.38	U	0.35	U	0.37	U	0.36	U	0.41	U	0.34	U	0.48	U	0.35	U	0.35	U
	Silver	400	mg/kg	0.043	UJ	0.098	J	0.038	U	0.048	J	0.048	J	0.036	U	0.044	J	0.039	U	0.045	J	0.040	U	0.065	J	0.038	U	0.056	J	0.039	U	0.038	U
	Thallium	0.8	mg/kg	1.4	U	0.28	U	0.24	U	0.23	U	0.25	U	0.27	J	0.27	U	0.25	U	0.26	U	0.25	U	0.29	U	0.24	U	0.34	U	0.25	U	0.24	U
	Zinc	270	mg/kg	68.0	J	58.4	J	63.7	J	35.7	J	61.8	J	44.5	J	49.4	J	30.5	J	56.2	J	35.1	J	73.0	J	53.6	J	107	J	46.8	J	35.6	J
Pesticides <sup>7</sup>	4,4'-DDD	4,170	µg/kg	3.6	U	3.7	U	1.6	J	0.33	U	1.8	U	0.33	U	0.77	U	0.32	U	0.70	U	0.33	U	0.76	U	0.34	U	8.1	J	0.87	J	0.33	U
	4,4'-DDE	2,940	µg/kg	266	J	196	J	7.6	J	1.8	J	9.9	J	0.27	U	1.6	J	0.26	U	0.57	U	0.27	U	4.0	J	0.86	J	32.4	J	0.93	J	0.27	U
	4,4'-DDT	3,000	µg/kg	21.8	J	45.3	J	2.6	J	1.5	J	27.3	J	0.45	U	1.1	U	0.45	U	0.96	U	0.46	U	1.0	U	0.89	J	6.8	J	0.92	U	0.46	U
	Aldrin	58.8	µg/kg	2.0	U	2.0	U	0.18	U	0.18	U	1.0	U	0.18	U	0.43	U	0.18	U	0.39	U	0.19	U	0.42	U	0.19	U	1.1	J	0.37	U	0.18	U
	Alpha-BHC	159	µg/kg	1.5	U	1.5	U	0.13	U	0.13	U	0.72	U	0.13	U	0.31	U	0.13	U	0.28	U	0.13	U	0.30	U	0.14	U	0.38	U	0.27	U	0.13	U
	alpha-Chlordane (cis)	NE	µg/kg	1.6	U	1.6	U	0.25	J	0.15	U	18.8	J	0.15	U	0.34	U	0.14	U	0.31	U	0.15	U	0.35	J	0.15	U	1.7	J	0.30	U	0.15	U
	beta or gamma-Chlordane (trans)	NE	µg/kg	4.6	U	4.6	U	0.41	U	0.42	U	2.3	U	0.41	U	0.98	U	0.41	U	0.88	U	0.42	U	0.96	U	0.43	U	4.5	J	0.84	U	0.42	U
	Beta-BHC	556	µg/kg	2.7	U	2.7	U	0.24	U	0.24	U	15.7	J	0.24	U	0.57	U	0.24	U	0.51	U	0.25	U	0.56	U	0.25	U	1.8	J	0.49	U	0.24	U
	Chlordane (Total)	2,860	µg/kg	36.6	U	36.7	U	3.2	U	3.3	U	18.1	U	3.3	U	7.7	U	3.2	U	7.0	U	3.4	U	7.6	U	3.4	U	9.6	U	6.7	U	3.3	U
	Delta-BHC	NE	µg/kg	1.7	U	1.7	U	0.15	U	0.15	U	0.82	U	0.15	U	0.35	U	0.15	U	0.32	U	0.15	U	0.34	U	0.16	U	0.43	U	0.30	U	0.15	U
	Dieldrin	62.5	µg/kg	3.9	U	3.9	U	0.99	J	0.35	U	4.2	J	0.35	U	0.82	U	0.34	U	0.74	U	0.35	U	0.80	U	0.36	U	5.7	J	0.71	U	0.35	U
	Endosulfan I	NE	µg/kg	1.8	U	1.8	U	0.22	J	0.16	U	26.1	J	0.16	U	0.38	U	0.16	U	0.34	U	0.17	U	0.37	U	0.17	U	0.84	J	0.33	U	0.16	U
	Endosulfan II	NE	µg/kg	4.0	U	4.1	U	1.2	J	0.36	U	9.8	J	0.36	U	0.85	U	0.36	U	0.77	U	0.37	U	0.84	U	0.38	U	2.7	J	0.74	U	0.37	U
	Endosulfan Sulfate	NE	µg/kg	4.1	U	4.1	U	0.36	U	0.37	U	81.6	J	0.37	U	1.4	J	0.37	U	0.79	U	0.38	U	2.1	J	0.39	U	2.7	J	0.75	U	0.37	U
	Endrin	24,000	µg/kg	3.6	U	3.6	U	0.31	U	0.32	U	1.8	U	0.32	U	0.75	U	0.32	U	0.68	U	0.33	U	0.74	U	0.34	U	0.93	U	0.65	U	0.32	U
	Endrin Aldehyde	NE	µg/kg	12.5	U	12.6	U	1.1	U	1.1	U	43.5	J	1.1	U	2.6	U	1.1	U	2.4	U	1.1	U	2.6	U	1.2	U	5.1	J	2.3	U	1.1	U
	Endrin Ketone	NE	µg/kg	4.7	U	4.8	U	0.42	U	0.43	U	22.6	J	0.43	U	1.0	U	0.42	U	0.91	U	0.43	U	0.98	U	0.45	U	1.2	U	0.87	U	0.43	U
	Heptachlor	222	µg/kg	2.2	U	2.2	U	0.19	U	0.19	U	1.1	U	0.19	U	0.46	U	0.19	U	0.41	U	0.20	U	0.45	U	0.20	U	0.57	U	0.40	U	0.20	U
	Heptachlor Epoxide	110	µg/kg	1.9	U	2.6	J	0.32	J	0.17	U	5.0	J	0.17	U	0.40	U	0.17	U	0.36	U	0.17	U	0.39	U	0.18	U	1.5	J	0.35	U	0.17	U
	Lindane (Gamma-BHC)	10	µg/kg	1.7	U	1.7	U	0.15	U	0.15	U	0.85	U	0.15	U	0.36	U	0.15	U	0.33	U	0.16	U	0.35	U	0.16	U	0.45	U	0.31	U	0.15	U
Methoxychlor	400,000	µg/kg	30.2	U	30.3	U	2.7	U	2.7	U	77.2	J	2.7	U	6.4	U	2.7	U	5.8	U	2.8	U	11.2	J	2.8	U	7.9	U	5.5	U	2.7	U	
Toxaphene	909	µg/kg	95.2	U	95.5	U	79.7	J	8.6	U	47.1	U	8.5	U	20.1	U	8.4	U	18.2	U	8.7	U	19.7	U	8.9</								



Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7		TP-8															
				TP-1 (2)	TP-1 (5)	TP-2 (3)	TP-2 (6)	TP-3 (3)	TP-3 (6)	TP-4 (3)	TP-4 (6)	TP-5 (3)	TP-5 (6)	TP-6 (2)	TP-6 (5)	TP-7 (2)	TP-7 (5)	TP-8 (7)															
				11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018														
				2	5	3	6	3	6	3	6	3	6	2	5	2	5	7															
				2	5	3	6	3	6	3	6	3	6	2	5	2	5	7															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
PCB Aroclors <sup>8</sup>	PCB-Aroclor 1016	1,000	µg/kg	11.1	U	11.1	U	9.7	U	9.9	U	10.9	U	9.9	U	11.6	U	9.8	U	10.6	U	10.1	U	11.5	U	10.4	U	14.5	U	10.0	U	10.0	U
	PCB-Aroclor 1221		µg/kg	14.0	U	14.0	U	12.2	U	12.5	U	13.8	U	12.5	U	14.7	U	12.4	U	13.3	U	12.8	U	14.5	U	13.2	U	18.3	U	12.7	U	12.6	U
	PCB-Aroclor 1232		µg/kg	15.9	U	16.0	U	13.9	U	14.3	U	15.7	U	14.3	U	16.7	U	14.1	U	15.2	U	14.5	U	16.5	U	15.0	U	20.8	U	14.4	U	14.4	U
	PCB-Aroclor 1242		µg/kg	13.5	U	13.5	U	11.8	U	12.1	U	13.3	U	12.1	U	14.1	U	12.0	U	12.9	U	12.3	U	14.0	U	12.7	U	17.7	U	12.2	U	12.2	U
	PCB-Aroclor 1248		µg/kg	11.9	U	12.0	U	10.4	U	10.7	U	11.8	U	10.7	U	12.5	U	10.6	U	11.4	U	10.9	U	12.3	U	11.2	U	15.6	U	10.8	U	10.8	U
	PCB-Aroclor 1254		µg/kg	11.7	U	11.7	U	10.2	U	10.5	U	11.5	U	10.5	U	12.3	U	10.4	U	11.2	U	10.7	U	12.1	U	11.0	U	15.3	U	10.6	U	10.6	U
	PCB-Aroclor 1260		µg/kg	9.5	U	9.5	U	8.3	U	8.5	U	9.4	U	8.5	U	10	U	8.4	U	9.1	U	8.7	U	9.8	U	9.0	U	360		8.6	U	8.6	U
	Total PCB Aroclors		µg/kg	15.9	U	16.0	U	13.9	U	14.3	U	15.7	U	14.3	U	16.7	U	14.1	U	15.2	U	14.5	U	16.5	U	15.0	U	360		14.4	U	14.4	U
VOCs <sup>9</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	19.4	U	18.7	U	16.8	U	16.2	U	18.9	U	17.6	U	20.6	U	16.7	U	18.9	U	18.1	U	19.5	U	17.9	U	27.8	U	17.3	U	17.7	U
	1,1,1-Trichloroethane	2,000	µg/kg	28.7	U	27.7	U	25.0	U	24.0	U	28.1	U	26.1	U	30.5	U	24.8	U	28.0	U	26.9	U	29.0	U	26.5	U	41.2	U	25.6	U	26.2	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	10.9	U	10.5	U	9.4	U	9.1	U	10.6	U	9.9	U	11.5	U	9.4	U	10.6	U	10.2	U	11.0	U	10.0	U	15.6	U	9.7	U	9.9	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	71.6	U	68.9	U	62.2	U	59.9	U	69.9	U	65.0	U	76.0	U	61.7	U	69.7	U	67.0	U	72.2	U	66.1	U	103	U	63.8	U	65.3	U
	1,1,2-Trichloroethane	17,500	µg/kg	7.4	U	7.1	U	6.4	U	6.2	U	7.2	U	6.7	U	7.8	U	6.4	U	7.2	U	6.9	U	7.4	U	6.8	U	10.6	U	6.6	U	6.7	U
	1,1-Dichloroethane	175,000	µg/kg	6.9	U	6.7	U	6.0	U	5.8	U	6.8	U	6.3	U	7.4	U	6.0	U	6.7	U	6.5	U	7.0	U	6.4	U	9.9	U	6.2	U	6.3	U
	1,1-Dichloroethene	4,000,000	µg/kg	18.5	U	17.8	U	16.1	U	15.5	U	18.1	U	16.8	U	19.7	U	15.9	U	18.0	U	17.3	U	18.7	U	17.1	U	26.5	U	16.5	U	16.9	U
	1,1-Dichloropropene	NE	µg/kg	28.5	U	27.4	U	24.8	U	23.8	U	27.8	U	25.9	U	30.3	U	24.6	U	27.8	U	26.7	U	28.8	U	26.3	U	40.9	U	25.4	U	26.0	U
	1,2,3-Trichlorobenzene	NE	µg/kg	9.9	U	9.5	U	8.6	U	8.2	U	9.6	U	9.0	U	10.5	U	8.5	U	9.6	U	9.2	U	9.9	U	9.1	U	14.1	U	8.8	U	9.0	U
	1,2,3-Trichloropropane	33.3	µg/kg	16.2	U	15.6	U	14.0	U	13.5	U	15.8	U	14.7	U	17.2	U	13.9	U	15.7	U	15.1	U	16.3	U	14.9	U	23.2	U	14.4	U	14.8	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	13.7	U	13.2	U	11.9	U	11.5	U	13.4	U	12.4	U	14.5	U	11.8	U	13.3	U	12.8	U	13.8	U	12.6	U	19.6	U	12.2	U	12.5	U
	1,2,4-Trimethylbenzene	NE	µg/kg	12.3	U	11.9	U	10.7	U	10.3	U	12.1	U	11.2	U	13.1	U	10.6	U	12.0	U	11.6	U	12.4	U	11.4	U	17.7	U	11.0	U	11.3	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	215	U	207	U	187	U	180	U	210	U	195	U	228	U	185	U	209	U	201	U	217	U	198	U	308	U	192	U	196	U
	1,2-Dibromoethane (EDB) <sup>15</sup>	5	µg/kg	0.27	U	0.26	U	0.24	U	0.23	U	0.25	U	0.23	U	0.27	U	0.22	U	0.24	U	0.25	U	0.27	U	0.25	U	0.36	U	0.24	U	0.23	U
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.5	U	2.4	U	2.2	U	2.1	U	2.4	U	2.3	U	2.6	U	2.1	U	2.4	U	2.3	U	2.5	U	2.3	U	3.6	U	2.2	U	2.3	U
	1,2-Dichloroethane	11,000	µg/kg	6.8	U	6.5	U	5.9	U	5.7	U	6.6	U	6.2	U	7.2	U	5.8	U	6.6	U	6.4	U	9.3	U	6.3	U	9.7	U	6.1	U	6.2	U
	1,2-Dichloropropane	27,800	µg/kg	10.6	U	10.2	U	9.2	U	8.9	U	10.4	U	9.7	U	11.3	U	9.2	U	10.4	U	10	U	10.7	U	9.8	U	15.2	U	9.5	U	9.7	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	9.8	U	9.5	U	8.5	U	8.2	U	9.6	U	8.9	U	10.4	U	8.5	U	9.6	U	9.2	U	9.9	U	9.1	U	14.1	U	8.8	U	9.0	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.2	U	2.2	U	2.0	U	1.9	U	2.2	U	2.0	U	2.4	U	1.9	U	2.2	U	2.1	U	2.3	U	2.1	U	3.2	U	2.0	U	2.0	U
	1,3-Dichloropropane	NE	µg/kg	8.5	U	8.2	U	7.4	U	7.1	U	8.3	U	7.8	U	9.1	U	7.4	U	8.3	U	8.0	U	8.6	U	7.9	U	12.2	U	7.6	U	7.8	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	3.8	U	3.7	U	3.3	U	3.2	U	3.7	U	3.5	U	4.1	U	3.3	U	3.7	U	3.6	U	3.9	U	3.5	U	5.5	U	3.4	U	3.5	U
	2,2-Dichloropropane	NE	µg/kg	7.7	U	7.4	U	6.7	U	6.4	U	7.5	U	7.0	U	8.2	U	6.6	U	7.5	U	7.2	U	7.8	U	7.1	U	11.0	U	6.9	U	7.0	U
	2-Butanone (MEK)	48,000,000	µg/kg	32.8	U	31.6	U	28.5	U	27.5	U	32.1	U	29.8	U	34.9	U	28.3	U	32.0	U	30.7	U	33.1	U	30.3	U	47.1	U	29.3	U	30.0	U
	2-Chlorotoluene	1,600,000	µg/kg	3.0	U	2.9	U	2.6	U	2.5	U	3.0	U	2.8	U	3.2	U	2.6	U	3.0	U	2.8	U	3.1	U	2.8	U	4.4	U	2.7	U	2.8	U
	4-Chlorotoluene	NE	µg/kg	3.2	U	3.0	U	2.7	U	2.6	U	3.1	U	2.9	U	3.4	U	2.7	U	3.1	U	3.0	U	3.2	U	2.9	U	4.5	U	2.8	U	2.9	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	12.8	U	12.4	U	11.1	U	10.7	U	12.5	U	11.6	U	13.6	U	11.1	U	12.5	U	12.0	U	12.9	U	11.8	U	18.4	U	11.4	U	11.7	U
	Acetone	72,000,000	µg/kg	384	U	370	U	333	U	321	U	375	U	348	U	408	U	331	U	374	U	359	U	387	U	354	U	550	U	342	U	350	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	51.7	U	49.8	U	44.9	U	43.2	U	50.5	U	46.9	U	54.9	U	44.5	U	50.4	U	48.4	U	52.2	U	47.7	U	74.1	U	46.1	U	47.2	U
	Benzene	30	µg/kg	3.5	U	3.4	U	3.0	U	2.9	U	3.4	U	3.2	U	3.7	U	3.0	U	3.4	U	3.3	U	3.5	U	3.2	U	5.0	U	3.1	U	3.2	U
	Bromobenzene	NE	µg/kg	3.8	U	3.6	U	3.3	U	3.2	U	3.7	U	3.4	U	4.0	U	3.3	U	3.7	U	3.5	U	3.8	U	3.5	U	5.4	U	3.4	U	3.5	U
	Bromochloromethane	NE	µg/kg	21.3	U	20.6	U	18.5	U	17.9	U	20.9	U	19.4	U	22.7	U	18.4	U	20.8	U	20.0	U	21.5	U	19.7	U	30.6	U	19.0	U		

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7		TP-8															
				TP-1 (2)	TP-1 (5)	TP-2 (3)	TP-2 (6)	TP-3 (3)	TP-3 (6)	TP-4 (3)	TP-4 (6)	TP-5 (3)	TP-5 (6)	TP-6 (2)	TP-6 (5)	TP-7 (2)	TP-7 (5)	TP-8 (7)															
				11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018														
				2	5	3	6	3	6	3	6	3	6	2	5	2	5	7															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
VOCs <sup>9</sup>	Chloroethane	NE	µg/kg	32.1	U	30.9	U	27.9	U	26.8	U	31.3	U	29.1	U	34.1	U	27.6	U	31.3	U	30.0	U	32.4	U	29.6	U	46.0	U	28.6	U	29.3	U
	Chloroform	32,300	µg/kg	30.8	U	29.7	U	26.8	U	25.8	U	30.1	U	28.0	U	32.8	U	26.6	U	30.0	U	28.9	U	31.1	U	28.5	U	44.2	U	27.5	U	28.2	U
	Chloromethane	NE	µg/kg	14.8	U	14.3	U	12.9	U	12.4	U	14.5	U	13.4	U	15.7	U	12.8	U	14.4	U	13.9	U	14.9	U	13.7	U	21.2	U	13.2	U	13.5	U
	cis-1,2-Dichloroethene	160,000	µg/kg	10.2	U	9.9	U	8.9	U	8.6	U	10	U	9.3	U	10.9	U	8.8	U	10	U	9.6	U	10.3	U	9.4	U	14.7	U	9.1	U	9.3	U
	cis-1,3-Dichloropropene	NE	µg/kg	8.8	U	8.5	U	7.7	U	7.4	U	8.6	U	8.0	U	9.4	U	7.6	U	8.6	U	8.3	U	8.9	U	8.2	U	12.7	U	7.9	U	8.1	U
	Dibromochloromethane	11,900	µg/kg	7.2	U	6.9	U	6.2	U	6.0	U	7.0	U	6.5	U	7.6	U	6.2	U	7.0	U	6.7	U	7.2	U	6.6	U	10.3	U	6.4	U	6.5	U
	Dibromomethane	800,000	µg/kg	11.3	U	10.9	U	9.8	U	9.5	U	11.1	U	10.3	U	12.0	U	9.7	U	11.0	U	10.6	U	11.4	U	10.4	U	16.2	U	10.1	U	10.3	U
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	20.0	U	19.2	U	17.4	U	16.7	U	19.5	U	18.1	U	21.2	U	17.2	U	19.5	U	18.7	U	20.2	U	18.5	U	28.7	U	17.8	U	18.2	U
	Ethyl Ether	16,000,000	µg/kg	37.8	U	36.4	U	32.8	U	31.6	U	36.9	U	34.3	U	40.1	U	32.5	U	36.8	U	35.4	U	38.1	U	34.9	U	54.1	U	33.7	U	34.5	U
	Ethylbenzene	6,000	µg/kg	3.4	U	3.2	U	2.9	U	2.8	U	3.3	U	3.0	U	3.6	U	2.9	U	3.3	U	3.1	U	3.4	U	3.1	U	4.8	U	3.0	U	3.1	U
	HCFC-21	NE	µg/kg	85.2	U	82.1	U	74.1	U	71.3	U	83.3	U	77.4	U	90.6	U	73.5	U	83.1	U	79.8	U	86.0	U	78.7	U	122	U	76.1	U	77.8	U
	Hexachlorobutadiene	12,800	µg/kg	15.1	U	14.5	U	13.1	U	12.6	U	14.7	U	13.7	U	16.0	U	13.0	U	14.7	U	14.1	U	15.2	U	13.9	U	21.6	U	13.4	U	13.7	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	2.7	U	2.6	U	2.4	U	2.3	U	2.7	U	2.5	U	2.9	U	2.4	U	2.7	U	2.6	U	2.8	U	2.5	U	3.9	U	2.4	U	2.5	U
	Methyl t-butyl ether	100	µg/kg	7.3	U	7.1	U	6.4	U	6.1	U	7.2	U	6.7	U	7.8	U	6.3	U	7.2	U	6.9	U	7.4	U	6.8	U	10.5	U	6.5	U	6.7	U
	Methylene Chloride <sup>15</sup>	20	µg/kg	4.4	U	4.3	U	3.9	U	3.8	U	4.1	U	3.7	U	4.3	U	3.6	U	4.0	U	4.0	U	4.4	U	4.1	U	5.8	U	3.9	U	3.7	U
	Naphthalene	5,000	µg/kg	57.7	U	55.6	U	50.2	U	48.3	U	56.4	U	52.4	U	61.3	U	49.8	U	56.3	U	54.1	U	58.3	U	53.3	U	82.8	U	51.5	U	52.7	U
	n-Butylbenzene	4,000,000	µg/kg	29.4	U	28.3	U	25.5	U	24.6	U	28.7	U	26.7	U	31.2	U	25.3	U	28.6	U	27.5	U	29.6	U	27.1	U	42.1	U	26.2	U	26.8	U
	n-Propylbenzene	8,000,000	µg/kg	3.3	U	3.2	U	2.9	U	2.8	U	3.2	U	3.0	U	3.5	U	2.8	U	3.2	U	3.1	U	3.3	U	3.0	U	4.7	U	2.9	U	3.0	U
	p-Isopropyltoluene	NE	µg/kg	18.8	U	18.1	U	16.3	U	15.7	U	18.3	U	17.0	U	19.9	U	16.2	U	18.3	U	17.6	U	18.9	U	17.3	U	26.9	U	16.7	U	17.1	U
	Sec-Butylbenzene	8,000,000	µg/kg	11.8	U	11.4	U	10.3	U	9.9	U	11.5	U	10.7	U	12.6	U	10.2	U	11.5	U	11.1	U	11.9	U	10.9	U	16.9	U	10.5	U	10.8	U
	Styrene	16,000,000	µg/kg	2.8	U	2.7	U	2.4	U	2.4	U	2.7	U	2.6	U	3.0	U	2.4	U	2.7	U	2.6	U	2.8	U	2.6	U	4.0	U	2.5	U	2.6	U
	Tert-Butylbenzene	8,000,000	µg/kg	11.8	U	11.4	U	10.3	U	9.9	U	11.6	U	10.8	U	12.6	U	10.2	U	11.5	U	11.1	U	11.9	U	10.9	U	17.0	U	10.6	U	10.8	U
	Tetrachloroethene	50	µg/kg	21.7	U	20.9	U	18.9	U	18.2	U	21.2	U	19.7	U	23.1	U	18.7	U	21.2	U	20.3	U	21.9	U	20.0	U	31.1	U	19.4	U	19.8	U
	Tetrahydrofuran	NE	µg/kg	89.7	U	86.4	U	77.9	U	75.0	U	87.6	U	81.4	U	95.3	U	77.3	U	87.4	U	84.0	U	90.5	U	82.8	U	129	U	80.0	U	81.9	U
	Toluene	7,000	µg/kg	15.1	U	14.5	U	13.1	U	12.6	U	14.7	U	13.7	U	16.0	U	13.0	U	14.7	U	14.1	U	15.2	U	13.9	U	21.6	U	13.4	U	13.7	U
	Total Xylenes	9,000	µg/kg	14.3	U	13.8	U	12.4	U	12.0	U	14.0	U	13.0	U	15.2	U	12.3	U	13.9	U	13.4	U	14.4	U	13.2	U	20.5	U	12.8	U	13.1	U
	trans-1,2-Dichloroethene	1,600,000	µg/kg	28.9	U	27.8	U	25.1	U	24.2	U	28.2	U	26.2	U	30.7	U	24.9	U	28.1	U	27.0	U	29.1	U	26.7	U	41.4	U	25.8	U	26.4	U
	trans-1,3-Dichloropropene	NE	µg/kg	8.6	U	8.3	U	7.5	U	7.2	U	8.4	U	7.8	U	9.1	U	7.4	U	8.4	U	8.0	U	8.7	U	7.9	U	12.3	U	7.7	U	7.8	U
Trichloroethene	30	µg/kg	9.5	U	9.2	U	8.3	U	8.0	U	9.3	U	8.6	U	10.1	U	8.2	U	9.3	U	8.9	U	9.6	U	8.8	U	13.6	U	8.5	U	8.7	U	
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	108	U	104	U	93.5	U	90.0	U	105	U	97.7	U	114	U	92.7	U	105	U	101	U	109	U	99.3	U	154	U	96.0	U	98.2	U	
Vinyl Chloride	240,000	µg/kg	12.1	U	11.7	U	10.5	U	10.2	U	11.9	U	11.0	U	12.9	U	10.5	U	11.8	U	11.4	U	12.2	U	11.2	U	17.4	U	10.8	U	11.1	U	
SVOCs <sup>10</sup>	1,2,4-Trichlorobenzene	34,500	µg/kg	43.5	U	43.8	U	38.4	U	39.2	U	42.9	U	39.1	U	45.8	U	38.8	U	41.3	U	40.0	U	45.3	U	41.0	U	56.8	U	39.8	U	39.5	U
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	41.6	U	41.9	U	36.7	U	37.5	U	41.0	U	37.3	U	43.8	U	37.1	U	39.5	U	38.3	U	43.3	U	39.2	U	54.3	U	38.0	U	37.7	U
	1,2-Diphenylhydrazine	1,250	µg/kg	48.7	U	49.0	U	43.0	U	43.8	U	48.0	U	43.7	U	51.3	U	43.4	U	46.2	U	44.8	U	50.6	U	45.9	U	63.6	U	44.5	U	44.2	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	27.2	U	27.4	U	24.0	U	24.5	U	26.8	U	24.4	U	28.6	U	24.2	U	25.8	U	25.0	U	28.3	U	25.6	U	35.5	U	24.8	U	24.6	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	44.1	U	44.4	U	38.9	U	39.7	U	43.5	U	39.6	U	46.5	U	39.4	U	41.9	U	40.6	U	45.9	U	41.6	U	57.6	U	40.4	U	40.0	U
	1-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	36.7	U	36.9	U	32.3	U	33.0	U	36.1	U	32.9	U	38.6	U	32.7	U	34.8	U	33.7	U	38.1	U	34.6	U	47.9	U	33.5	U	33.3	U
	2,2'-Oxybis[1-chloropropane]	14,300	µg/kg	40.9	U	41.2	U	36.1	U	36.8	U	40.3	U	36.7	U	43.1	U	36.5	U	38.8	U	37.6	U	42.5	U	38.5	U	53.4	U	37.4	U	37.1	U
	2,4,5-Trichlorophenol	8,000,000	µg/kg	51.1	U	51.4	U	45.1	U	46.0	U	50.3	U	45.9	U	53.8	U	45.6	U	48.5	U	47.0	U	53.1	U	48.2	U	66.7	U	46.7	U	46.4	U
	2,4,6-Trichlorophenol	80,000																															

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-1		TP-2		TP-3		TP-4		TP-5		TP-6		TP-7		TP-8															
				TP-1 (2)	TP-1 (5)	TP-2 (3)	TP-2 (6)	TP-3 (3)	TP-3 (6)	TP-4 (3)	TP-4 (6)	TP-5 (3)	TP-5 (6)	TP-6 (2)	TP-6 (5)	TP-7 (2)	TP-7 (5)	TP-8 (7)															
				11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018														
				2	5	3	6	3	6	3	6	3	6	2	5	2	5	7															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
SVOCs <sup>10</sup>	2,6-Dinitrotoluene	667	µg/kg	52.6	U	52.9	U	46.3	U	47.3	U	51.8	U	47.2	U	55.3	U	46.9	U	49.9	U	48.3	U	54.6	U	49.5	U	68.6	U	48.0	U	47.7	U
	2-Chloronaphthalene	6,400,000	µg/kg	35.1	U	35.3	U	31.0	U	31.6	U	34.6	U	31.5	U	37.0	U	31.3	U	33.3	U	32.3	U	36.5	U	33.1	U	45.8	U	32.1	U	31.8	U
	2-Chlorophenol	400,000	µg/kg	45.2	U	45.5	U	39.9	U	40.7	U	44.5	U	40.6	U	47.6	U	40.3	U	42.9	U	41.6	U	47.0	U	42.6	U	59.0	U	41.3	U	41.0	U
	2-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	35.8	U	36.1	U	31.6	U	32.3	U	35.3	U	32.2	U	37.7	U	32.0	U	34.0	U	33.0	U	37.3	U	33.8	U	46.8	U	32.8	U	32.5	U
	2-methylphenol (o-Cresol)	4,000,000	µg/kg	24.8	U	24.9	U	21.8	U	22.3	U	24.4	U	22.2	U	26.1	U	22.1	U	23.5	U	22.8	U	25.8	U	23.3	U	32.3	U	22.6	U	22.5	U
	2-Nitroaniline	800,000	µg/kg	99.6	U	100	U	87.8	U	89.6	U	98.1	U	89.4	U	105	U	88.8	U	94.5	U	91.6	U	104	U	93.8	U	130	U	91.0	U	90.3	U
	2-Nitrophenol	NE	µg/kg	48.4	U	48.7	U	42.6	U	43.5	U	47.6	U	43.4	U	50.9	U	43.1	U	45.9	U	44.5	U	50.3	U	45.6	U	63.1	U	44.2	U	43.8	U
	3 & 4 Methylphenol	NE	µg/kg	22.4	U	22.5	U	19.7	U	20.1	U	22.0	U	20.1	U	23.6	U	19.9	U	21.2	U	20.6	U	23.3	U	21.1	U	29.2	U	20.5	U	20.3	U
	3,3'-Dichlorobenzidine	2,220	µg/kg	133	U	134	U	118	U	120	U	131	U	120	U	140	U	119	U	127	U	123	U	139	U	126	U	174	U	122	U	121	U
	3-Nitroaniline	NE	µg/kg	43.3	U	43.6	U	38.2	U	39.0	U	42.6	U	38.8	U	45.6	U	38.6	U	41.1	U	39.8	U	45.0	U	40.8	U	56.5	U	39.6	U	39.3	U
	4,6-Dinitro-2-Methylphenol	NE	µg/kg	393	U	396	U	347	U	354	U	387	U	353	U	414	U	351	U	373	U	362	U	409	U	371	U	513	U	360	U	357	U
	4-Bromophenyl phenyl ether	NE	µg/kg	47.3	U	47.6	U	41.7	U	42.5	U	46.6	U	42.4	U	49.8	U	42.1	U	44.9	U	43.5	U	49.1	U	44.5	U	61.7	U	43.2	U	42.9	U
	4-Chloro-3-Methylphenol	NE	µg/kg	63.5	U	63.9	U	56.0	U	57.2	U	62.5	U	57.0	U	66.9	U	56.6	U	60.3	U	58.4	U	66.0	U	59.8	U	82.9	U	58.1	U	57.6	U
	4-Chloroaniline	5,000	µg/kg	106	U	106	U	93.2	U	95.2	U	104	U	94.9	U	111	U	94.3	U	100	U	97.2	U	110	U	99.6	U	138	U	96.6	U	95.9	U
	4-Chlorophenyl-Phenylether	NE	µg/kg	49.2	U	49.5	U	43.4	U	44.3	U	48.5	U	44.1	U	51.8	U	43.9	U	46.7	U	45.2	U	51.1	U	46.4	U	64.2	U	45.0	U	44.6	U
	4-Nitroaniline	NE	µg/kg	58.0	U	58.3	U	51.1	U	52.2	U	57.1	U	52.0	U	61.0	U	51.7	U	55.0	U	53.3	U	60.3	U	54.6	U	75.6	U	53.0	U	52.6	U
	4-Nitrophenol (p-Nitrophenol)	NE	µg/kg	77.0	U	77.5	U	67.9	U	69.3	U	75.8	U	69.1	U	81.1	U	68.6	U	73.1	U	70.8	U	80.0	U	72.5	U	100	U	70.4	U	69.8	U
	Acenaphthene <sup>11</sup>	NE	µg/kg	42.3	U	42.6	U	37.3	U	38.1	U	41.7	U	38.0	U	44.6	U	37.7	U	40.2	U	38.9	U	44.0	U	39.9	U	55.2	U	38.7	U	38.4	U
	Acenaphthylene <sup>11</sup>	NE	µg/kg	50.6	U	51.0	U	44.7	U	45.6	U	49.9	U	45.4	U	53.3	U	45.1	U	55.9	J	46.6	U	52.6	U	47.7	U	66.1	U	46.3	U	45.9	U
	Anthracene <sup>11</sup>	NE	µg/kg	46.6	U	46.8	U	41.0	U	41.9	U	45.8	U	41.8	U	49.0	U	41.5	U	113	J	42.8	U	59.8	J	43.9	U	60.7	U	53.5	J	42.2	U
	Benzo(a)anthracene <sup>11</sup>	NE	µg/kg	40.8	U	41.0	U	36.0	U	36.7	U	164	J	36.6	U	142	J	36.4	U	531		37.5	U	379	J	38.4	U	53.2	U	133	J	37.0	U
	Benzo(a)pyrene <sup>11</sup>	100	µg/kg	45.0	U	45.3	U	39.7	U	40.5	U	182	J	40.4	U	151	J	40.1	U	503		41.4	U	412	J	42.4	U	58.7	U	141	J	40.8	U
	Benzo(b)fluoranthene <sup>11</sup>	NE	µg/kg	38.9	U	39.1	U	34.3	U	35.0	U	195	J	34.9	U	157	J	34.6	U	566		35.7	U	438		36.6	U	50.7	U	135	J	35.2	U
	Benzo(g,h,i)perylene <sup>11</sup>	NE	µg/kg	42.5	U	42.7	U	37.4	U	38.2	U	118	J	38.1	U	94.2	J	37.9	U	286	J	39.0	U	263	J	40.0	U	55.4	U	88.2	J	38.5	U
	Benzo(k)fluoranthene <sup>11</sup>	NE	µg/kg	49.6	U	49.9	U	43.7	U	44.6	U	75.8	J	44.5	U	78.3	J	44.2	U	191	J	45.6	U	188	J	46.7	U	64.7	U	61.1	J	44.9	U
	Bis(2-Chloroethoxy)Methane	NE	µg/kg	40.7	U	40.9	U	35.8	U	36.6	U	40.0	U	36.5	U	42.8	U	36.2	U	38.6	U	37.4	U	42.3	U	38.3	U	53.0	U	37.2	U	36.9	U
	Bis(2-Chloroethyl)Ether	909	µg/kg	31.4	U	31.6	U	27.7	U	28.3	U	30.9	U	28.2	U	33.1	U	28.0	U	29.8	U	28.9	U	32.6	U	29.6	U	41.0	U	28.7	U	28.5	U
	Bis(2-Ethylhexyl) Phthalate	71,400	µg/kg	82.8	U	83.3	U	73.0	U	74.5	U	81.5	U	74.2	U	87.1	U	73.8	U	78.5	U	76.1	U	86.0	U	78.0	U	108	U	75.6	U	75.0	U
	Butyl benzyl Phthalate	526,000	µg/kg	36.3	U	36.6	U	32.0	U	32.7	U	35.8	U	32.6	U	38.2	U	32.4	U	34.5	U	33.4	U	37.8	U	34.2	U	47.4	U	33.2	U	32.9	U
	Carbazole	NE	µg/kg	33.0	U	33.2	U	29.1	U	29.7	U	32.5	U	29.6	U	34.7	U	29.4	U	31.3	U	30.3	U	34.3	U	31.1	U	43.0	U	30.1	U	29.9	U
	Chrysene <sup>11</sup>	NE	µg/kg	41.9	U	42.1	U	36.9	U	37.7	U	159	J	37.6	U	143	J	37.3	U	528		38.5	U	412	J	39.4	U	54.6	U	120	J	38.0	U
	Dibenzo(a,h)anthracene <sup>11</sup>	NE	µg/kg	42.2	U	42.5	U	37.2	U	38.0	U	41.6	U	37.9	U	44.5	U	37.6	U	68.5	J	38.8	U	43.9	U	39.8	U	55.1	U	38.6	U	38.3	U
Dibenzofuran	80,000	µg/kg	50.3	U	50.6	U	44.3	U	45.3	U	49.5	U	45.1	U	52.9	U	44.8	U	47.7	U	46.2	U	52.3	U	47.4	U	65.6	U	46.0	U	45.6	U	
Dibutyl Phthalate	8,000,000	µg/kg	54.4	U	54.7	U	47.9	U	48.9	U	53.5	U	48.8	U	57.2	U	48.5	U	51.6	U	50.0	U	56.5	U	51.2	U	70.9	U	49.7	U	49.3	U	
Diethyl Phthalate	64,000,000	µg/kg	35.4	U	35.6	U	31.2	U	31.8	U	34.8	U	31.7	U	37.2	U	31.5	U	33.6	U	32.5	U	36.8	U	33.3	U	46.1	U	32.3	U	32.1	U	
Dimethyl Phthalate	NE	µg/kg	53.9	U	54.2	U	47.5	U	48.5	U	53.1	U	48.3	U	56.7	U	48.0	U	51.1	U	49.6	U	56.0	U	50.8	U	70.3	U	49.3	U	48.9	U	
Di-N-Octyl Phthalate	800,000	µg/kg	46.1	U	46.4	U	40.6	U	41.5	U	45.4	U	41.3	U	48.5	U	41.1	U	43.7	U	42.4	U	47.9	U	43.4	U	60.1	U	42.1	U	41.8	U	
Fluoranthene <sup>11</sup>	NE	µg/kg	45.6	U	45.9	U	40.2	U	41.0	U	272	J	40.9	U	224	J	40.6	U	846		41.9	U	632		43.0	U	60.2	J	261	J	41.3	U	
Fluorene <sup>11</sup>	NE	µg/kg	182	U	183	U	160	U	163	U	179	U	163	U	191	U	162	U	172	U	167	U	189	U	171	U	237	U	166	U	165	U	
Hexachlorobenzene	625	µg/kg	6																														

				Location ID	TP-1	TP-1	TP-2	TP-2	TP-3	TP-3	TP-4	TP-4	TP-5	TP-5	TP-6	TP-6	TP-7	TP-7	TP-8														
				Sample ID	TP-1 (2)	TP-1 (5)	TP-2 (3)	TP-2 (6)	TP-3 (3)	TP-3 (6)	TP-4 (3)	TP-4 (6)	TP-5 (3)	TP-5 (6)	TP-6 (2)	TP-6 (5)	TP-7 (2)	TP-7 (5)	TP-8 (7)														
				Sample Date	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/26/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018														
				Start Depth	2	5	3	6	3	6	3	6	3	6	2	5	2	5	7														
				End Depth	2	5	3	6	3	6	3	6	3	6	2	5	2	5	7														
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																														
SVOCs <sup>10</sup>	Naphthalene <sup>11</sup>	5,000	µg/kg	30.6	U	30.7	U	26.9	U	27.5	U	30.1	U	27.4	U	32.2	U	27.2	U	29.0	U	28.1	U	31.8	U	28.8	U	39.9	U	27.9	U	27.7	U
	Nitrobenzene	160,000	µg/kg	43.7	U	43.9	U	38.5	U	39.3	U	43.0	U	39.2	U	46.0	U	38.9	U	41.4	U	40.2	U	45.4	U	41.1	U	57.0	U	39.9	U	39.6	U
	N-Nitrosodimethylamine	19.6	µg/kg	48.7	U	49.0	U	43.0	U	43.8	U	48.0	U	43.7	U	51.3	U	43.4	U	46.2	U	44.8	U	50.6	U	45.9	U	63.6	U	44.5	U	44.2	U
	N-Nitrosodi-n-propylamine	143	µg/kg	182	U	183	U	160	U	163	U	179	U	163	U	191	U	162	U	172	U	167	U	189	U	171	U	237	U	166	U	165	U
	N-Nitrosodiphenylamine (as diphenylamine)	204,000	µg/kg	25.7	U	25.9	U	22.7	U	23.2	U	25.4	U	23.1	U	27.1	U	22.9	U	24.4	U	23.7	U	26.8	U	24.3	U	33.6	U	23.5	U	23.3	U
	Pentachlorophenol	2,500	µg/kg	232	U	234	U	205	U	209	U	229	U	208	U	244	U	207	U	220	U	213	U	241	U	219	U	303	U	212	U	210	U
	Phenanthrene <sup>11</sup>	NE	µg/kg	46.2	U	46.5	U	40.7	U	41.6	U	<b>46.3</b>	J	41.4	U	<b>50.0</b>	J	41.2	U	<b>150</b>	J	42.5	U	<b>119</b>	J	43.5	U	60.3	U	<b>102</b>	J	41.9	U
	Phenol	24,000,000	µg/kg	26.0	U	26.1	U	22.9	U	23.4	U	25.6	U	23.3	U	27.4	U	23.2	U	24.7	U	23.9	U	27.0	U	24.5	U	33.9	U	23.7	U	23.6	U
	Pyrene <sup>11</sup>	NE	µg/kg	30.2	U	<b>39.0</b>	J	26.6	U	27.2	U	<b>305</b>	J	27.1	U	<b>251</b>	J	26.9	U	<b>949</b>		27.8	U	<b>684</b>		<b>40.7</b>	J	<b>63.7</b>	J	<b>278</b>	J	27.4	U
	Total cPAH TEQ (ND=DL) <sup>12,13</sup>	100	µg/kg	32.48	U	32.69	U	28.65	U	29.23	U	<b>239.35</b>	J	29.16	U	<b>200.32</b>	J	28.94	U	<b>668.83</b>	J	29.87	U	<b>541.82</b>	J	30.60	U	42.37	U	<b>184.29</b>	J	29.45	U

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-9		TP-9		TP-10		TP-10		TP-11		TP-11		TP-12		TP-12		TP-13		TP-13		TP-14		TP-14		TP-15		TP-15		TP-16	
				TP-9 (6)	TP-9 (8)	TP-9 (3)	TP-9 (7)	TP-10 (3)	TP-10 (7)	TP-11 (3)	TP-11 (6)	TP-12 (2)	TP-12 (5)	TP-13 (2)	TP-13 (5)	TP-14 (3)	TP-14 (6)	TP-15 (3)	TP-15 (8)	TP-16 (2)													
Location ID				11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018		
Sample ID				6	8	3	7	3	6	2	5	2	5	3	6	2	5	3	6	3	8	2											
Sample Date				6	8	3	7	3	6	2	5	2	5	3	6	2	5	3	6	3	8	2											
Start Depth				6	8	3	7	3	6	2	5	2	5	3	6	2	5	3	6	3	8	2											
End Depth				6	8	3	7	3	6	2	5	2	5	3	6	2	5	3	6	3	8	2											
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>14</sup>	mg/kg	0.94	U	1.2	U	1.2	U	0.75	U	1.1	U	1.1	U	8.8	U	0.98	U	0.81	U	0.72	U	1.1	U	0.90	U	0.82	U	0.82	U	0.86	U
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	3.6	U	180	U	2.9	U	2.7	U	3.0	U	3.1	U	334	J	162	U	7.5	J	2.8	U	3.0	U	3.3	U	3.1	U	3.0	U	2.8	U
NWTPH-DX <sup>4</sup>	Motor oil-range organics	2,000	mg/kg	8.1	J	184	U	5.2	U	4.8	U	10.5	J	5.5	U	525	J	282	U	13.0	U	5.0	U	5.4	U	5.8	U	5.5	U	5.4	U	6.5	J
Metals <sup>5</sup>	Antimony	25	mg/kg	0.51	U	0.57	U	0.45	U	0.41	U	0.47	UJ	2.3	UJ	0.44	U	0.53	U	2.3	U	2.0	U	0.45	U	0.51	U	0.44	U	0.44	U	0.42	U
	Arsenic	20	mg/kg	1.1	J	1.1	J	7.6	U	1.5	U	1.7	U	1.3	U	2.8	U	1.6	U	1.3	J	1.8	J	1.7	U	1.2	J	1.2	J	1.6	U	1.2	U
	Beryllium	160	mg/kg	0.51	U	0.42	U	0.89	U	0.35	U	0.52	U	0.79	J	0.51	U	0.57	U	0.91	J	0.99	J	0.54	U	0.48	U	0.46	U	0.51	U	0.43	U
	Cadmium	2	mg/kg	0.085	J	0.033	J	0.077	J	0.039	J	0.10	J	0.12	U	0.28	U	0.058	J	0.12	U	0.11	U	0.037	J	0.027	U	0.023	J	0.078	J	0.10	J
	Chromium	42	mg/kg	6.8	U	6.4	U	8.5	U	3.8	U	7.2	U	7.6	U	7.4	U	7.5	U	9.2	U	7.2	U	5.6	U	6.6	U	5.4	U	6.5	U	5.7	U
	Copper	100	mg/kg	12.6	U	12.2	U	21.8	U	10.6	U	16.4	U	16.8	U	18.5	U	18.7	U	16.9	U	19.8	U	15.1	U	12.5	U	13.7	U	13.6	U	16.1	U
	Lead	220	mg/kg	2.7	U	3.4	U	3.9	U	2.9	U	17.7	U	6.2	U	88.9	U	77.0	U	6.0	U	4.8	U	3.0	U	3.4	U	3.6	U	3.6	U	21.3	U
	Mercury <sup>6</sup>	2	mg/kg	0.011	U	0.012	U	0.020	J	0.013	J	0.057	U	0.040	U	0.048	U	0.031	U	0.010	J	0.0092	U	0.0091	U	0.0091	U	0.010	U	0.0095	U	0.044	U
	Nickel	100	mg/kg	4.2	U	3.9	U	14.0	U	4.0	U	5.4	U	5.6	J	5.7	U	5.2	U	7.0	U	5.5	U	5.3	U	4.4	U	5.2	U	5.8	U	5.3	U
	Selenium	0.8	mg/kg	0.45	U	0.49	U	0.39	U	0.36	U	0.41	U	2.0	U	0.38	U	0.46	U	2.0	U	1.8	U	0.39	U	0.44	U	0.38	U	0.38	U	0.37	U
	Silver	400	mg/kg	0.050	U	0.054	U	0.12	J	0.039	U	0.064	J	0.22	U	0.21	U	0.25	U	0.22	U	0.19	U	0.22	U	0.25	U	0.21	U	0.043	U	0.041	U
	Thallium	0.8	mg/kg	0.31	U	0.35	U	0.27	U	0.25	U	0.28	U	1.4	U	0.27	U	0.40	J	1.4	U	1.2	U	0.27	U	0.47	J	0.27	U	0.27	U	0.26	U
	Zinc	270	mg/kg	53.2	U	47.7	U	44.0	U	32.2	U	64.4	J	88.6	J	94.7	U	60.6	U	67.6	U	63.4	U	44.4	U	46.1	U	43.8	U	45.7	U	54.0	U
Pesticides <sup>7</sup>	4,4'-DDD	4,170	µg/kg	0.45	U	2.0	J	0.36	U	0.33	U	3.3	J	0.38	U	55.5	J	0.42	U	0.38	U	0.35	U	0.38	U	0.41	U	0.38	U	0.38	U	0.35	U
	4,4'-DDE	2,940	µg/kg	0.37	U	3.8	J	0.30	U	4.6	U	93.9	U	1.0	J	318	J	4.1	J	0.31	U	0.28	U	0.31	U	0.34	U	0.31	U	0.31	U	0.54	J
	4,4'-DDT	3,000	µg/kg	0.62	U	3.2	J	0.50	U	0.83	J	31.0	U	0.53	U	5.3	J	1.3	J	0.53	U	0.48	U	0.52	U	0.57	U	0.53	U	0.53	U	0.70	J
	Aldrin	58.8	µg/kg	0.87	J	0.27	U	0.20	U	0.18	U	0.43	U	0.21	U	1.0	U	0.23	U	0.21	U	0.19	U	0.21	U	0.23	U	0.21	U	0.21	U	0.20	U
	Alpha-BHC	159	µg/kg	0.51	J	0.20	U	0.15	U	0.13	U	0.31	U	0.15	U	2.5	J	0.17	U	0.15	U	0.14	U	0.15	U	0.16	U	0.15	U	0.15	U	0.14	U
	alpha-Chlordane (cis)	NE	µg/kg	0.20	U	0.22	U	0.16	U	0.15	U	0.49	J	0.17	U	1.7	J	0.19	U	0.17	U	0.15	U	0.17	U	0.18	U	0.17	U	0.17	U	0.16	U
	beta or gamma-Chlordane (trans)	NE	µg/kg	0.57	U	0.63	U	0.46	U	0.42	U	1.7	J	0.49	U	5.1	J	0.54	U	0.49	U	0.44	U	0.48	U	0.52	U	0.48	U	0.48	U	0.45	U
	Beta-BHC	556	µg/kg	0.33	U	0.90	J	0.27	U	0.24	U	0.57	U	0.28	U	1.4	U	0.31	U	0.28	U	0.26	U	0.28	U	0.30	U	0.28	U	0.28	U	0.26	U
	Chlordane (Total)	2,860	µg/kg	4.5	U	5.0	U	3.6	U	3.3	U	7.7	U	3.9	U	18.8	U	4.2	U	3.8	U	3.5	U	3.8	U	4.1	U	3.8	U	3.8	U	3.5	U
	Delta-BHC	NE	µg/kg	0.20	U	0.23	U	0.17	U	0.15	U	0.35	U	0.17	U	0.85	U	0.19	U	0.17	U	0.16	U	0.17	U	0.19	U	0.17	U	0.17	U	0.16	U
	Dieldrin	62.5	µg/kg	0.47	U	0.53	U	0.39	U	0.35	U	0.82	U	0.41	U	3.2	J	0.45	U	0.41	U	0.37	U	0.40	U	0.44	U	0.41	U	0.40	U	0.38	U
	Endosulfan I	NE	µg/kg	0.22	U	0.24	U	0.18	U	0.16	U	0.38	U	0.19	U	0.93	U	0.21	U	0.19	U	0.17	U	0.19	U	0.20	U	0.19	U	0.19	U	0.17	U
	Endosulfan II	NE	µg/kg	0.50	U	0.55	U	0.40	U	0.37	U	0.85	U	0.43	U	2.1	U	0.47	U	0.42	U	0.38	U	0.42	U	0.45	U	0.42	U	0.42	U	0.39	U
	Endosulfan Sulfate	NE	µg/kg	0.51	U	0.56	U	0.41	U	0.37	U	0.87	U	0.43	U	2.1	U	0.48	U	0.43	U	0.39	U	0.43	U	0.46	U	0.43	U	0.43	U	0.40	U
	Endrin	24,000	µg/kg	0.44	U	0.48	U	0.36	U	0.32	U	0.75	U	0.38	U	1.8	U	0.41	U	0.38	U	0.34	U	0.37	U	0.40	U	0.37	U	0.37	U	0.35	U
	Endrin Aldehyde	NE	µg/kg	1.5	U	1.7	U	1.2	U	1.1	U	2.6	U	1.3	U	6.4	U	1.5	U	1.3	U	1.2	U	1.3	U	1.4	U	1.3	U	1.3	U	1.2	U
	Endrin Ketone	NE	µg/kg	0.58	U	0.64	U	0.47	U	0.43	U	1.0	U	0.50	U	2.4	U	0.55	U	0.50	U	0.45	U	0.49	U	0.53	U	0.50	U	0.49	U	0.46	U
	Heptachlor	222	µg/kg	0.58	J	0.29	U	0.22	U	0.20	U	0.46	U	0.23	U	1.1	U	0.25	U	0.23	U	0.21	U	0.22	U	0.24	U	0.23	U	0.23	U	0.21	U
	Heptachlor Epoxide	110	µg/kg	0.23	U	0.26	U	0.19	U	0.17	U	2.0	J	0.20	U	12.4	J	0.22	U	0.20	U	0.18	U	0.20	U	0.21	U	0.20	U	0.20	U	0.18	U
	Lindane (Gamma-BHC)	10	µg/kg	0.21	U	0.23	U	0.17	U	0.16	U	0.36	U	0.18	U	0.88	U	0.20	U	0.18	U	0.16	U	0.18	U	0.19	U	0.18	U	0.18	U	0.17	U
Methoxychlor	400,000	µg/kg	3.7	U	4.1	U	3.0	U	2.7	U	6.4	U	3.2	U	15.5	U	3.5	U	3.2	U	2.9	U	3.1	U	3.4	U	3.2	U	3.1	U			

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-9		TP-10		TP-11		TP-12		TP-13		TP-14		TP-15		TP-16															
				TP-9 (6)	TP-9 (8)	TP-10 (3)	TP-10 (7)	TP-11 (3)	TP-11 (6)	TP-12 (2)	TP-12 (5)	TP-13 (2)	TP-13 (5)	TP-14 (3)	TP-14 (6)	TP-15 (3)	TP-15 (8)	TP-16 (2)															
				11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018														
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
PCB Aroclors <sup>8</sup>	PCB-Aroclor 1016	1,000	µg/kg	13.6	U	15.0	U	11.0	U	10.0	U	11.7	U	11.7	U	11.4	U	12.8	U	11.6	U	10.5	U	11.4	U	12.5	U	11.6	U	11.5	U	10.7	U
	PCB-Aroclor 1221		µg/kg	17.2	U	18.9	U	13.9	U	12.7	U	14.7	U	14.7	U	14.3	U	16.2	U	14.7	U	13.3	U	14.4	U	15.7	U	14.6	U	14.5	U	13.5	U
	PCB-Aroclor 1232		µg/kg	19.6	U	21.5	U	15.8	U	14.4	U	16.8	U	16.7	U	16.3	U	18.4	U	16.7	U	15.1	U	16.4	U	17.9	U	16.6	U	16.5	U	15.3	U
	PCB-Aroclor 1242		µg/kg	16.6	U	194		13.4	U	12.2	U	14.2	U	14.2	U	13.8	U	15.6	U	14.1	U	12.8	U	13.9	U	15.2	U	14.1	U	14.0	U	13.0	U
	PCB-Aroclor 1248		µg/kg	14.7	U	16.1	U	11.9	U	10.8	U	12.6	U	12.6	U	12.2	U	13.8	U	12.5	U	11.3	U	12.3	U	13.4	U	12.5	U	12.3	U	11.5	U
	PCB-Aroclor 1254		µg/kg	14.4	U	15.8	U	11.6	U	10.6	U	12.3	U	12.3	U	12.0	U	13.5	U	12.3	U	11.1	U	12.1	U	13.2	U	12.2	U	12.1	U	11.3	U
	PCB-Aroclor 1260		µg/kg	11.7	U	12.8	U	9.5	U	8.6	U	10.0	U	10.0	U	134		22.5	J	10	U	9.0	U	9.8	U	10.7	U	9.9	U	9.8	U	9.2	U
	Total PCB Aroclors		µg/kg	19.6	U	194		15.8	U	14.4	U	16.8	U	16.7	U	134		22.5	J	16.7	U	15.1	U	16.4	U	17.9	U	16.6	U	16.5	U	15.3	U
VOCs <sup>9</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	22.4	U	29.5	U	19.1	U	19.8	U	20.3	U	26.6	U	20.1	U	26.6	U	19.8	U	18.2	U	25.9	U	25.4	U	19.6	U	20.5	U	20.7	U
	1,1,1-Trichloroethane	2,000	µg/kg	33.3	U	43.8	U	28.4	U	29.3	U	30.2	U	39.5	U	29.8	U	39.5	U	29.4	U	27.1	U	38.5	U	37.7	U	29.1	U	30.5	U	30.7	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	12.6	U	16.5	U	10.7	U	11.1	U	11.4	U	14.9	U	11.3	U	14.9	U	11.1	U	10.2	U	14.6	U	14.3	U	11.0	U	11.5	U	11.6	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	82.9	U	109	U	70.6	U	73.0	U	75.1	U	98.3	U	74.3	U	98.3	U	73.3	U	67.3	U	95.8	U	93.8	U	72.4	U	75.8	U	76.4	U
	1,1,2-Trichloroethane	17,500	µg/kg	8.5	U	11.2	U	7.3	U	7.5	U	7.7	U	10.1	U	7.7	U	10.1	U	7.6	U	6.9	U	9.9	U	9.7	U	7.5	U	7.8	U	7.9	U
	1,1-Dichloroethane	175,000	µg/kg	8.0	U	10.5	U	6.8	U	7.1	U	7.3	U	9.5	U	7.2	U	9.5	U	7.1	U	6.5	U	9.3	U	9.1	U	7.0	U	7.3	U	7.4	U
	1,1-Dichloroethene	4,000,000	µg/kg	21.4	U	28.2	U	18.3	U	18.9	U	19.4	U	25.4	U	19.2	U	25.4	U	18.9	U	17.4	U	24.8	U	24.3	U	18.7	U	19.6	U	19.8	U
	1,1-Dichloropropene	NE	µg/kg	33.0	U	43.4	U	28.1	U	29.1	U	29.9	U	39.1	U	29.6	U	39.2	U	29.2	U	26.8	U	38.2	U	37.4	U	28.8	U	30.2	U	30.4	U
	1,2,3-Trichlorobenzene	NE	µg/kg	11.4	U	15.0	U	9.7	U	10.1	U	10.3	U	13.5	U	10.2	U	13.5	U	10.1	U	9.3	U	13.2	U	12.9	U	10	U	10.4	U	10.5	U
	1,2,3-Trichloropropane	33.3	µg/kg	18.7	U	24.6	U	15.9	U	16.5	U	17.0	U	22.2	U	16.8	U	22.2	U	16.5	U	15.2	U	21.6	U	21.2	U	16.4	U	17.1	U	17.3	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	15.9	U	20.9	U	13.5	U	14.0	U	14.4	U	18.8	U	14.2	U	18.8	U	14.0	U	12.9	U	18.3	U	18.0	U	13.9	U	14.5	U	14.6	U
	1,2,4-Trimethylbenzene	NE	µg/kg	14.3	U	18.8	U	12.2	U	12.6	U	12.9	U	16.9	U	12.8	U	17.0	U	12.6	U	11.6	U	16.5	U	16.2	U	12.5	U	13.1	U	13.2	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	249	U	327	U	212	U	219	U	225	U	295	U	223	U	295	U	220	U	202	U	287	U	281	U	217	U	227	U	229	U
	1,2-Dibromoethane (EDB) <sup>15</sup>	5	µg/kg	0.32	UJ	0.35	UJ	0.27	UJ	0.24	UJ	0.27	UJ	0.28	UJ	0.27	UJ	0.29	UJ	0.28	UJ	0.26	UJ	0.26	UJ	0.29	UJ	0.27	UJ	0.26	UJ	0.24	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.9	U	3.8	U	2.5	U	2.5	U	2.6	U	3.4	U	2.6	U	3.4	U	2.6	U	2.3	U	3.3	U	3.3	U	2.5	U	2.6	U	2.7	U
	1,2-Dichloroethane	11,000	µg/kg	7.9	U	10.3	U	6.7	U	6.9	U	7.1	U	9.3	U	7.0	U	9.3	U	6.9	U	6.4	U	9.1	U	8.9	U	6.9	U	7.2	U	7.2	U
	1,2-Dichloropropane	27,800	µg/kg	12.3	U	16.2	U	10.5	U	10.9	U	11.2	U	14.6	U	11.0	U	14.6	U	10.9	U	10.0	U	14.2	U	13.9	U	10.8	U	11.3	U	11.4	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	11.4	U	15.0	U	9.7	U	10.0	U	10.3	U	13.5	U	10.2	U	13.5	U	10.1	U	9.3	U	13.2	U	12.9	U	10	U	10.4	U	10.5	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.6	U	3.4	U	2.2	U	2.3	U	2.4	U	3.1	U	2.3	U	3.1	U	2.3	U	2.1	U	3.0	U	2.9	U	2.3	U	2.4	U	2.4	U
	1,3-Dichloropropane	NE	µg/kg	9.9	U	13.0	U	8.4	U	8.7	U	9.0	U	11.7	U	8.9	U	11.7	U	8.7	U	8.0	U	11.4	U	11.2	U	8.6	U	9.0	U	9.1	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	4.4	U	5.8	U	3.8	U	3.9	U	4.0	U	5.3	U	4.0	U	5.3	U	3.9	U	3.6	U	5.1	U	5.0	U	3.9	U	4.1	U	4.1	U
	2,2-Dichloropropane	NE	µg/kg	8.9	U	11.7	U	7.6	U	7.9	U	8.1	U	10.6	U	8.0	U	10.6	U	7.9	U	7.2	U	10.3	U	10.1	U	7.8	U	8.2	U	8.2	U
	2-Butanone (MEK)	48,000,000	µg/kg	38.0	U	50.0	U	32.4	U	33.5	U	34.4	U	45.1	U	34.1	U	45.1	U	33.6	U	30.9	U	43.9	U	43.0	U	33.2	U	34.8	U	35.0	U
	2-Chlorotoluene	1,600,000	µg/kg	3.5	U	4.6	U	3.0	U	3.1	U	3.2	U	4.2	U	3.2	U	4.2	U	3.1	U	2.9	U	4.1	U	4.0	U	3.1	U	3.2	U	3.2	U
	4-Chlorotoluene	NE	µg/kg	3.7	U	4.8	U	3.1	U	3.2	U	3.3	U	4.3	U	3.3	U	4.3	U	3.2	U	3.0	U	4.2	U	4.1	U	3.2	U	3.3	U	3.4	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	14.9	U	19.5	U	12.7	U	13.1	U	13.5	U	17.6	U	13.3	U	17.6	U	13.1	U	12.1	U	17.2	U	16.8	U	13.0	U	13.6	U	13.7	U
	Acetone	72,000,000	µg/kg	444	U	584	U	378	U	392	U	403	U	527	U	398	U	527	U	393	U	361	U	514	U	503	U	388	U	407	U	410	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	59.9	U	78.7	U	51.0	U	52.7	U	54.3	U	71.0	U	53.7	U	71.0	U	52.9	U	48.7	U	69.2	U	67.8	U	52.3	U	54.8	U	55.2	U
	Benzene	30	µg/kg	4.0	U	5.3	U	3.4	U	3.6	U	3.7	U	4.8	U	3.6	U	4.8	U	3.6	U	3.3	U	4.7	U	4.6	U	3.5	U	3.7	U	3.7	U
	Bromobenzene	NE	µg/kg	4.4	U	5.8	U	3.7	U	3.9	U	4.0	U	5.2	U	3.9	U	5.2	U	3.9	U	3.6	U	5.1	U	5.0	U	3.8	U	4.0	U	4.0	U
	Bromochloromethane	NE	µg/kg	24.7	U	32.5	U	21.1	U	21.8	U	22.4	U	29.3	U	22.2	U	29.3	U	21.9	U												

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-9		TP-10		TP-11		TP-12		TP-13		TP-14		TP-15		TP-16															
				TP-9 (6)	TP-9 (8)	TP-10 (3)	TP-10 (7)	TP-11 (3)	TP-11 (6)	TP-12 (2)	TP-12 (5)	TP-13 (2)	TP-13 (5)	TP-14 (3)	TP-14 (6)	TP-15 (3)	TP-15 (8)	TP-16 (2)															
				11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018														
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
VOCs <sup>9</sup>	Chloroethane	NE	µg/kg	37.2	U	48.8	U	31.6	U	32.7	U	33.7	U	44.1	U	33.3	U	44.1	U	32.8	UJ	30.2	UJ	42.9	UJ	42.1	UJ	32.5	UJ	34.0	UJ	34.2	UJ
	Chloroform	32,300	µg/kg	35.7	U	47.0	U	30.4	U	31.5	U	32.4	U	42.4	U	32.0	U	42.4	U	31.6	U	29.0	U	41.3	U	40.4	U	31.2	U	32.7	U	32.9	U
	Chloromethane	NE	µg/kg	17.1	U	22.5	U	14.6	U	15.1	U	15.5	U	20.3	U	15.4	U	20.3	U	15.2	U	14.1	J	19.8	U	19.4	U	15.0	U	15.7	U	15.8	U
	cis-1,2-Dichloroethene	160,000	µg/kg	11.8	U	15.6	U	10.1	U	10.4	U	10.7	U	14.0	U	10.6	U	14.1	U	10.5	U	9.6	U	13.7	U	13.4	U	10.3	U	10.8	U	10.9	U
	cis-1,3-Dichloropropene	NE	µg/kg	10.2	U	13.5	U	8.7	U	9.0	U	9.3	U	12.1	U	9.2	U	12.1	U	9.0	U	8.3	U	11.8	U	11.6	U	8.9	U	9.4	U	9.4	U
	Dibromochloromethane	11,900	µg/kg	8.3	U	10.9	U	7.1	U	7.3	U	7.5	U	9.8	U	7.4	U	9.8	U	7.3	U	6.7	U	9.6	U	9.4	U	7.2	U	7.6	U	7.6	U
	Dibromomethane	800,000	µg/kg	13.1	U	17.2	U	11.2	U	11.5	U	11.9	U	15.5	U	11.7	U	15.5	U	11.6	U	10.6	U	15.1	U	14.8	U	11.4	U	12.0	U	12.1	U
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	23.1	U	30.4	U	19.7	U	20.4	U	21.0	U	27.5	U	20.7	U	27.5	U	20.5	U	18.8	U	26.8	U	26.2	U	20.2	U	21.2	U	21.3	U
	Ethyl Ether	16,000,000	µg/kg	43.7	U	57.5	U	37.2	U	38.5	U	39.6	U	51.9	U	39.2	U	51.9	U	38.6	U	35.5	U	50.5	U	49.5	U	38.2	U	40.0	U	40.3	U
	Ethylbenzene	6,000	µg/kg	3.9	U	5.1	U	3.3	U	3.4	U	3.5	U	4.6	U	3.5	U	4.6	U	3.4	U	3.2	U	4.5	U	4.4	U	4.2	J	3.6	U	3.6	U
	HCFC-21	NE	µg/kg	98.7	U	130	U	84.1	U	87.0	U	89.5	U	117	U	88.5	U	117	U	87.3	U	80.2	U	114	U	112	U	86.3	U	90.3	U	91.0	U
	Hexachlorobutadiene	12,800	µg/kg	17.4	U	22.9	U	14.8	U	15.4	U	15.8	U	20.7	U	15.6	U	20.7	U	15.4	U	14.2	U	20.2	U	19.7	U	15.2	U	15.9	U	16.1	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	3.2	U	4.2	U	2.7	U	2.8	U	2.9	U	3.8	U	2.8	U	3.8	U	2.8	U	2.6	U	3.7	U	3.6	U	2.8	U	2.9	U	2.9	U
	Methyl t-butyl ether	100	µg/kg	8.5	U	11.2	U	7.2	U	7.5	U	7.7	U	10.1	U	7.6	U	10.1	U	7.5	U	6.9	U	9.8	U	9.6	U	7.4	U	7.8	U	7.8	U
	Methylene Chloride <sup>15</sup>	20	µg/kg	5.2	UJ	5.6	UJ	4.3	UJ	3.8	UJ	4.4	UJ	4.6	UJ	4.4	UJ	4.8	UJ	4.5	UJ	4.2	UJ	4.2	UJ	4.8	UJ	4.4	UJ	4.2	UJ	4.0	UJ
	Naphthalene	5,000	µg/kg	66.9	U	87.9	U	57.0	U	58.9	U	60.6	U	79.3	U	59.9	U	79.3	U	59.1	U	54.3	U	77.3	U	75.7	U	58.4	U	61.2	U	61.6	U
	n-Butylbenzene	4,000,000	µg/kg	34.0	U	44.7	U	29.0	U	30.0	U	30.8	U	40.3	U	30.5	U	40.4	U	30.1	U	27.6	U	39.3	U	38.5	U	29.7	U	31.1	U	31.3	U
	n-Propylbenzene	8,000,000	µg/kg	3.8	U	5.0	U	3.2	U	3.4	U	3.5	U	4.5	U	3.4	U	4.5	U	3.4	U	3.1	U	4.4	U	4.3	U	3.3	U	3.5	U	3.5	U
	p-Isopropyltoluene	NE	µg/kg	21.7	U	28.6	U	18.5	U	19.1	U	19.7	U	25.8	U	19.5	U	25.8	U	19.2	U	17.6	U	25.1	U	24.6	U	19.0	U	19.9	U	20.0	U
	Sec-Butylbenzene	8,000,000	µg/kg	13.7	U	18.0	U	11.7	U	12.1	U	12.4	U	16.2	U	12.3	U	16.2	U	12.1	U	11.1	U	15.8	U	15.5	U	12.0	U	12.5	U	12.6	U
	Styrene	16,000,000	µg/kg	3.3	U	4.3	U	2.8	U	2.9	U	3.0	U	3.9	U	2.9	U	3.9	U	2.9	U	2.6	U	3.8	U	3.7	U	2.8	U	3.0	U	3.0	U
	Tert-Butylbenzene	8,000,000	µg/kg	13.7	U	18.0	U	11.7	U	12.1	U	12.4	U	16.3	U	12.3	U	16.3	U	12.1	U	11.1	U	15.9	U	15.5	U	12.0	U	12.5	U	12.6	U
	Tetrachloroethene	50	µg/kg	25.1	U	33.1	U	21.4	U	22.2	U	22.8	U	29.8	U	22.5	U	29.8	U	22.2	U	20.4	U	29.1	U	28.5	U	22.0	U	23.0	U	23.2	U
	Tetrahydrofuran	NE	µg/kg	104	U	137	U	88.5	U	91.5	U	94.1	U	123	U	93.1	U	123	U	91.8	U	84.4	U	120	U	118	U	90.8	U	95.0	U	95.7	U
	Toluene	7,000	µg/kg	17.4	U	22.9	U	14.8	U	15.4	U	15.8	U	21.4	J	15.6	U	20.7	U	22.2	J	14.2	U	20.2	U	19.7	U	15.2	U	15.9	U	16.1	U
	Total Xylenes	9,000	µg/kg	16.6	U	21.8	U	14.1	U	14.6	U	15.0	U	19.7	U	14.9	U	19.7	U	14.7	U	13.5	U	19.2	U	18.8	U	14.5	U	15.2	U	15.3	U
	trans-1,2-Dichloroethene	1,600,000	µg/kg	33.4	U	44.0	U	28.5	U	29.5	U	30.3	U	39.7	U	30.0	U	39.7	U	29.6	U	27.2	U	38.7	U	37.9	U	29.2	U	30.6	U	30.8	U
	trans-1,3-Dichloropropene	NE	µg/kg	9.9	U	13.1	U	8.5	U	8.7	U	9.0	U	11.8	U	8.9	U	11.8	U	8.8	U	8.1	U	11.5	U	11.2	U	8.7	U	9.1	U	9.2	U
Trichloroethene	30	µg/kg	11.0	U	14.5	U	9.4	U	9.7	U	10	U	13.1	U	9.9	U	13.1	U	9.7	U	9.0	U	12.7	U	12.5	U	9.6	U	10.1	U	10.2	U	
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	125	UJ	164	UJ	106	UJ	110	UJ	113	UJ	148	UJ	112	U	148	U	110	U	101	U	144	U	141	U	109	U	114	U	115	U	
Vinyl Chloride	240,000	µg/kg	14.1	U	18.5	U	12.0	U	12.4	U	12.7	U	16.7	U	12.6	U	16.7	U	12.4	U	11.4	U	16.3	U	15.9	U	12.3	U	12.9	U	13.0	U	
SVOCs <sup>10</sup>	1,2,4-Trichlorobenzene	34,500	µg/kg	53.5	U	58.8	U	43.4	U	39.7	U	46.0	U	45.9	U	44.6	U	50.4	U	45.8	U	41.6	U	44.9	U	49.0	U	45.6	U	45.0	U	42.3	U
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	51.1	U	56.2	U	41.5	U	37.9	U	44.0	U	43.8	U	42.7	U	48.2	U	43.8	U	39.8	U	43.0	U	46.8	U	43.6	U	43.0	U	40.4	U
	1,2-Diphenylhydrazine	1,250	µg/kg	59.8	U	65.8	U	48.5	U	44.4	U	51.5	U	51.3	U	49.9	U	56.4	U	51.3	U	46.5	U	50.3	U	54.8	U	51.0	U	50.3	U	47.3	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	33.4	U	36.7	U	27.1	U	24.8	U	28.7	U	28.6	U	27.9	U	31.5	U	28.6	U	26.0	U	28.1	U	30.6	U	28.4	U	28.1	U	26.4	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	54.2	U	59.7	U	44.0	U	40.3	U	46.6	U	46.5	U	45.3	U	51.1	U	46.5	U	42.2	U	45.6	U	49.7	U	46.2	U	45.6	U	42.8	U
	1-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	45.1	U	49.6	U	36.6	U	33.5	U	38.7	U	38.6	U	37.6	U	42.5	U	38.6	U	35.0	U	37.9	U	41.3	U	38.4	U	37.9	U	35.6	U
	2,2'-Oxybis[1-chloropropane]	14,300	µg/kg	50.2	U	55.3	U	40.8	U	37.3	U	43.2	U	43.1	U	41.9	U	47.4	U	43.0	U	39.1	U	42.2	U	46.0	U	42.8	U	42.2	U	39.7	U
	2,4,5-Trichlorophenol	8,000,000	µg/kg	62.8	U	69.1	U	50.9	U	46.6	U	54.0																					

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-9		TP-10		TP-11		TP-12		TP-13		TP-14		TP-15		TP-16															
				TP-9 (6)	TP-9 (8)	TP-10 (3)	TP-10 (7)	TP-11 (3)	TP-11 (6)	TP-12 (2)	TP-12 (5)	TP-13 (2)	TP-13 (5)	TP-14 (3)	TP-14 (6)	TP-15 (3)	TP-15 (8)	TP-16 (2)															
				11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/27/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018														
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				6	8	3	7	3	6	2	5	2	5	3	6	3	8	2															
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
SVOCs <sup>10</sup>	2,6-Dinitrotoluene	667	µg/kg	64.6	U	71.0	U	52.4	U	47.9	U	55.5	U	55.4	U	53.9	U	60.9	U	55.3	U	50.2	U	54.2	U	59.1	U	55.0	U	54.3	U	51.0	U
	2-Chloronaphthalene	6,400,000	µg/kg	43.1	U	47.5	U	35.0	U	32.0	U	37.1	U	37.0	U	36.0	U	40.7	U	37.0	U	33.6	U	36.2	U	39.5	U	36.8	U	36.3	U	34.1	U
	2-Chlorophenol	400,000	µg/kg	55.6	U	61.1	U	45.1	U	41.2	U	47.8	U	47.6	U	46.4	U	52.4	U	47.6	U	43.2	U	46.7	U	50.9	U	47.3	U	46.7	U	43.9	U
	2-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	44.0	U	48.4	U	35.7	U	32.7	U	37.9	U	37.8	U	36.7	U	41.5	U	37.7	U	34.2	U	37.0	U	40.3	U	37.5	U	37.0	U	34.8	U
	2-methylphenol (o-Cresol)	4,000,000	µg/kg	30.4	U	33.5	U	24.7	U	22.6	U	26.2	U	26.1	U	25.4	U	28.7	U	26.1	U	23.7	U	25.6	U	27.9	U	25.9	U	25.6	U	24.0	U
	2-Nitroaniline	800,000	µg/kg	122	U	135	U	99.3	U	90.8	U	105	U	105	U	102	U	115	U	105	U	95.1	U	103	U	112	U	104	U	103	U	96.7	U
	2-Nitrophenol	NE	µg/kg	59.4	U	65.3	U	48.2	U	44.1	U	51.1	U	50.9	U	49.6	U	56.0	U	50.9	U	46.2	U	49.9	U	54.4	U	50.6	U	49.9	U	46.9	U
	3 & 4 Methylphenol	NE	µg/kg	27.5	U	30.2	U	22.3	U	20.4	U	23.6	U	23.6	U	22.9	U	25.9	U	23.5	U	21.4	U	23.1	U	25.2	U	23.4	U	23.1	U	21.7	U
	3,3'-Dichlorobenzidine	2,220	µg/kg	164	U	180	U	133	U	122	U	141	U	141	U	137	U	154	U	140	U	127	U	138	U	150	U	140	U	138	U	129	U
	3-Nitroaniline	NE	µg/kg	53.2	U	58.5	U	43.2	U	39.5	U	45.7	U	45.6	U	44.4	U	50.1	U	45.6	U	41.4	U	44.7	U	48.7	U	45.3	U	44.7	U	42.0	U
	4,6-Dinitro-2-Methylphenol	NE	µg/kg	483	U	531	U	392	U	359	U	415	U	414	U	403	U	455	U	414	U	376	U	406	U	443	U	412	U	406	U	382	U
	4-Bromophenyl phenyl ether	NE	µg/kg	58.1	U	63.9	U	47.1	U	43.1	U	49.9	U	49.8	U	48.5	U	54.7	U	49.8	U	45.2	U	48.8	U	53.2	U	49.5	U	48.8	U	45.9	U
	4-Chloro-3-Methylphenol	NE	µg/kg	78.0	U	85.8	U	63.3	U	57.9	U	67.1	U	66.9	U	65.1	U	73.5	U	66.8	U	60.7	U	65.5	U	71.5	U	66.5	U	65.6	U	61.6	U
	4-Chloroaniline	5,000	µg/kg	130	U	143	U	105	U	96.4	U	112	U	111	U	108	U	122	U	111	U	101	U	109	U	119	U	111	U	109	U	103	U
	4-Chlorophenyl-Phenylether	NE	µg/kg	60.4	U	66.5	U	49.0	U	44.9	U	52.0	U	51.8	U	50.4	U	57.0	U	51.8	U	47.0	U	50.8	U	55.3	U	51.5	U	50.8	U	47.7	U
	4-Nitroaniline	NE	µg/kg	71.2	U	78.3	U	57.8	U	52.9	U	61.2	U	61.1	U	59.4	U	67.1	U	61.0	U	55.4	U	59.8	U	65.2	U	60.7	U	59.9	U	56.3	U
	4-Nitrophenol (p-Nitrophenol)	NE	µg/kg	94.6	U	104	U	76.7	U	70.2	U	81.3	U	81.1	U	78.9	U	89.1	U	81.0	U	73.5	U	79.4	U	86.6	U	80.6	U	79.5	U	74.7	U
	Acenaphthene <sup>11</sup>	NE	µg/kg	52.0	U	57.2	U	42.2	U	38.6	U	44.7	U	44.6	U	43.4	U	49.0	U	44.6	U	40.4	U	43.7	U	47.6	U	44.3	U	43.7	U	41.1	U
	Acenaphthylene <sup>11</sup>	NE	µg/kg	62.2	U	68.4	U	50.5	U	46.2	U	53.5	U	53.3	U	51.9	U	58.6	U	53.3	U	48.4	U	52.3	U	57.0	U	53.0	U	52.3	U	49.1	U
	Anthracene <sup>11</sup>	NE	µg/kg	57.2	U	62.9	U	46.4	U	42.4	U	49.2	U	49.0	U	47.7	U	53.9	U	49.0	U	44.5	U	48.0	U	52.4	U	48.7	U	48.1	U	45.2	U
	Benzo(a)anthracene <sup>11</sup>	NE	µg/kg	50.1	U	55.1	U	40.6	U	37.2	U	43.1	U	43.0	U	41.8	U	47.2	U	42.9	U	39.0	U	42.1	U	45.9	U	42.7	U	42.1	U	39.6	U
	Benzo(a)pyrene <sup>11</sup>	100	µg/kg	55.3	U	60.8	U	44.8	U	41.0	U	47.5	U	47.4	U	46.1	U	52.1	U	47.3	U	43.0	U	46.4	U	50.6	U	47.1	U	46.5	U	43.7	U
	Benzo(b)fluoranthene <sup>11</sup>	NE	µg/kg	47.7	U	52.5	U	38.7	U	35.4	U	<b>59.8</b>	J	40.9	U	39.8	U	45.0	U	40.9	U	37.1	U	40.1	U	43.7	U	40.7	U	40.1	U	37.7	U
	Benzo(g,h,i)perylene <sup>11</sup>	NE	µg/kg	52.2	U	57.4	U	42.3	U	38.7	U	44.8	U	44.7	U	43.5	U	49.2	U	44.7	U	40.6	U	43.8	U	47.8	U	44.4	U	43.9	U	41.2	U
	Benzo(k)fluoranthene <sup>11</sup>	NE	µg/kg	60.9	U	67.0	U	49.4	U	45.2	U	52.3	U	52.2	U	50.8	U	57.4	U	52.2	U	47.3	U	51.1	U	55.8	U	51.9	U	51.2	U	48.1	U
	Bis(2-Chloroethoxy)Methane	NE	µg/kg	49.9	U	54.9	U	40.5	U	37.1	U	42.9	U	42.8	U	41.7	U	47.1	U	42.8	U	38.8	U	42.0	U	45.7	U	42.5	U	42.0	U	39.5	U
	Bis(2-Chloroethyl)Ether	909	µg/kg	38.6	U	42.4	U	31.3	U	28.6	U	33.2	U	33.1	U	32.2	U	36.4	U	33.0	U	30.0	U	32.4	U	35.3	U	32.9	U	32.4	U	30.5	U
	Bis(2-Ethylhexyl) Phthalate	71,400	µg/kg	102	U	112	U	82.5	U	75.5	U	87.4	U	87.2	U	<b>145</b>	J	95.8	U	87.1	U	79.1	U	85.4	U	93.1	U	86.6	U	85.5	U	80.3	U
	Butyl benzyl Phthalate	526,000	µg/kg	44.6	U	49.1	U	36.2	U	33.1	U	38.4	U	38.3	U	37.2	U	42.1	U	38.2	U	34.7	U	37.5	U	40.9	U	38.0	U	37.5	U	35.3	U
	Carbazole	NE	µg/kg	40.5	U	44.5	U	32.8	U	30.1	U	34.8	U	34.7	U	33.8	U	38.2	U	34.7	U	31.5	U	34.0	U	37.1	U	34.5	U	34.0	U	32.0	U
	Chrysene <sup>11</sup>	NE	µg/kg	51.4	U	56.6	U	41.7	U	38.2	U	44.2	U	44.1	U	42.9	U	48.5	U	44.1	U	40.0	U	43.2	U	47.1	U	43.8	U	43.2	U	40.6	U
	Dibenzo(a,h)anthracene <sup>11</sup>	NE	µg/kg	51.9	U	57.0	U	42.1	U	38.5	U	44.6	U	44.5	U	43.3	U	48.9	U	44.4	U	40.3	U	43.6	U	47.5	U	44.2	U	43.6	U	41.0	U
	Dibenzofuran	80,000	µg/kg	61.8	U	67.9	U	50.1	U	45.8	U	53.1	U	53.0	U	51.5	U	58.2	U	52.9	U	48.0	U	51.9	U	56.6	U	52.6	U	51.9	U	48.8	U
	Dibutyl Phthalate	8,000,000	µg/kg	66.8	U	73.5	U	54.2	U	49.6	U	57.4	U	57.3	U	55.7	U	63.0	U	57.2	U	51.9	U	56.1	U	61.2	U	56.9	U	56.2	U	52.8	U
	Diethyl Phthalate	64,000,000	µg/kg	43.4	U	47.8	U	35.2	U	32.2	U	37.4	U	37.3	U	36.2	U	40.9	U	37.2	U	33.8	U	36.5	U	39.8	U	37.0	U	36.5	U	34.3	U
	Dimethyl Phthalate	NE	µg/kg	66.2	U	72.8	U	53.7	U	49.1	U	56.9	U	56.8	U	55.2	U	62.4	U	56.7	U	51.5	U	55.6	U	60.6	U	56.4	U	55.7	U	52.3	U
	Di-N-Octyl Phthalate	800,000	µg/kg	56.6	U	62.3	U	45.9	U	42.0	U	48.7	U	48.5	U	47.2	U	53.3	U	48.5	U	44.0	U	47.5	U	51.8	U	48.2	U	47.6	U	44.7	U
	Fluoranthene <sup>11</sup>	NE	µg/kg	56.0	U	61.6	U	45.4	U	41.6	U	<b>82.7</b>	J	48.0	U	46.7	U	52.8	U	48.0	U	43.6	U	47.0	U	51.3	U	47.7	U	47.1	U	44.2	U
	Fluorene <sup>11</sup>	NE	µg/kg	223	U	245	U	181	U	1																							



Location ID				TP-9		TP-9		TP-10		TP-10		TP-11		TP-11		TP-12		TP-12		TP-13		TP-13		TP-14		TP-14		TP-15		TP-15		TP-16	
Sample ID				TP-9 (6)		TP-9 (8)		TP-10 (3)		TP-10 (7)		TP-11 (3)		TP-11 (6)		TP-12 (2)		TP-12 (5)		TP-13 (2)		TP-13 (5)		TP-14 (3)		TP-14 (6)		TP-15 (3)		TP-15 (8)		TP-16 (2)	
Sample Date				11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018		11/28/2018	
Start Depth				6		8		3		7		3		6		2		5		2		5		3		6		3		8		2	
End Depth				6		8		3		7		3		6		2		5		2		5		3		6		3		8		2	
Depth Unit				ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																														
SVOCs <sup>10</sup>	Naphthalene <sup>11</sup>	5,000	µg/kg	37.5	U	41.3	U	30.4	U	27.9	U	32.3	U	32.2	U	31.3	U	35.4	U	32.2	U	29.2	U	31.5	U	34.4	U	32.0	U	31.6	U	29.7	U
	Nitrobenzene	160,000	µg/kg	53.6	U	59.0	U	43.5	U	39.8	U	46.1	U	46.0	U	44.8	U	50.6	U	46.0	U	41.7	U	45.1	U	49.1	U	45.7	U	45.1	U	42.4	U
	N-Nitrosodimethylamine	19.6	µg/kg	59.8	U	65.8	U	48.5	U	44.4	U	51.5	U	51.3	U	49.9	U	56.4	U	51.3	U	46.5	U	50.3	U	54.8	U	51.0	U	50.3	U	47.3	U
	N-Nitrosodi-n-propylamine	143	µg/kg	223	U	245	U	181	U	166	U	192	U	191	U	186	U	210	U	191	U	174	U	187	U	204	U	190	U	188	U	176	U
	N-Nitrosodiphenylamine (as diphenylamine)	204,000	µg/kg	31.6	U	34.8	U	25.7	U	23.5	U	27.2	U	27.1	U	26.4	U	29.8	U	27.1	U	24.6	U	26.6	U	29.0	U	26.9	U	26.6	U	25.0	U
	Pentachlorophenol	2,500	µg/kg	285	U	314	U	231	U	212	U	245	U	245	U	238	U	269	U	244	U	222	U	240	U	261	U	243	U	240	U	225	U
	Phenanthrene <sup>11</sup>	NE	µg/kg	56.7	U	62.4	U	46.0	U	42.1	U	53.0	J	48.7	U	47.3	U	53.5	U	48.6	U	44.1	U	47.7	U	52.0	U	48.3	U	47.7	U	44.8	U
	Phenol	24,000,000	µg/kg	31.9	U	35.1	U	25.9	U	23.7	U	27.4	U	27.4	U	26.6	U	30.1	U	27.3	U	24.8	U	26.8	U	29.2	U	27.2	U	26.8	U	25.2	U
	Pyrene <sup>11</sup>	NE	µg/kg	37.1	U	40.8	U	30.1	U	27.5	U	88.9	J	31.8	U	30.9	U	35.0	U	31.8	U	28.8	U	31.2	U	34.0	U	31.6	U	31.2	U	29.3	U
	Total cPAH TEQ (ND=DL) <sup>12,13</sup>	100	µg/kg	39.91	U	43.88	U	32.34	U	29.60	U	38.22	J	34.21	U	33.27	U	37.60	U	34.15	U	31.03	U	33.50	U	36.53	U	34.00	U	33.55	U	31.53	U

Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units	TP-16		TP-17		TP-17		TP-18		TP-18		TP-19		TP-19		TP-19		MW-1		MW-1		MW-2		MW-3		MW-4		MW-4		
				Sample ID	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)	MW-4 (7-8.5)	Sample Date	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)
NWTPH-GX <sup>4</sup>	Gasoline-range hydrocarbons	30/100 <sup>14</sup>	mg/kg	0.83	U	0.93	U	0.85	U	0.85	U	0.78	U	0.98	U	1.1	U	1.3	U	0.96	U	0.73	UJ	1.0	U	1.4	J	0.94	U	2.7	J	
NWTPH-DX <sup>4</sup>	Diesel-range hydrocarbons	460	mg/kg	3.0	U	3.0	U	2.9	U	3.1	U	2.8	U	4.6	J	3.8	U	3.4	U	3.2	U	2.8	U	3.6	U	2.7	U	29.7		85.1		
	Motor oil-range organics	2,000	mg/kg	5.3	U	5.4	U	5.1	U	6.2	J	5.1	U	12.2		6.9	U	6.2	U	5.7	U	5.0	U	6.4	U	4.9	U	33.8		127		
Metals <sup>5</sup>	Antimony	25	mg/kg	0.44	U	0.47	U	2.0	U	0.46	U	2.1	U	0.46	U	0.56	U	0.53	U	2.4	U	2.1	U	2.7	U	2.1	U	2.2	U	2.8	U	
	Arsenic	20	mg/kg	2.2		1.4		3.4	J	1.4		7.8		1.5		1.4	J	0.40	J	1.3	U	2.1	J	1.5	U	1.3	J	5.6	J	1.5	U	
	Beryllium	160	mg/kg	0.53		0.52		0.94	J	0.56		1.2	J	0.41		0.58		0.28	J	0.084	U	0.12	J	0.097	U	0.074	U	0.11	J	0.10	U	
	Cadmium	2	mg/kg	0.029	J	0.048	J	0.11	U	0.064	J	0.11	U	0.12	J	0.030	J	0.028	U	0.16	J	0.11	U	0.17	J	0.11	U	0.11	U	0.15	U	
	Chromium	42	mg/kg	6.9		6.3		12.6		6.7		5.4		5.6		7.2		3.2		6.9		11.1		5.4		4.1		9.8		8.6		
	Copper	100	mg/kg	13.4		14.1		16.7		14.9		12.7		17.4		20.5		4.5		11.6		16.1		17.7		14.0		25.8		18.0		
	Lead	220	mg/kg	3.8		3.3		6.6		6.6		5.5		14.6		3.3		2.5		3.3		5.3		16.0		3.5		6.7		499		
	Mercury <sup>6</sup>	2	mg/kg	0.0087	U	0.0093	U	0.0089	U	0.033		0.013	J	0.011	J	0.011	U	0.012	U	0.0094	U	0.011	J	0.012	U	0.0094	U	0.017	J	0.041		
	Nickel	100	mg/kg	6.0		5.1		9.2		4.9		3.8	J	5.8		6.5		4.4		5.6	J	9.5		8.1		5.4	J	16.8		6.2	J	
	Selenium	0.8	mg/kg	0.38	U	0.41	U	1.8	U	0.40	U	1.8	U	0.40	U	0.49	U	0.46	U	2.1	U	1.8	U	2.4	U	1.8	U	1.9	U	2.5	U	
	Silver	400	mg/kg	0.042	U	0.045	U	0.20	U	0.044	U	0.20	U	0.044	U	0.054	U	0.051	U	0.23	U	0.20	U	0.26	U	0.20	U	0.21	U	0.27	U	
	Thallium	0.8	mg/kg	0.27	U	0.29	U	1.3	U	0.28	U	1.3	U	0.28	U	0.34	U	0.33	U	1.4	U	1.3	U	1.7	U	1.3	U	1.3	U	1.7	U	
	Zinc	270	mg/kg	48.8		48.6		71.3		57.4		40.0		75.4		31.0		14.5		30.4		48.5		65.0		43.5		71.6		63.2		
Pesticides <sup>7</sup>	4,4'-DDD	4,170	µg/kg	0.37	U	0.38	U	0.35	U	0.39	U	0.37	U	0.73	U	0.49	U	0.44	U	0.40	U	0.35	U	2.3	U	0.35	U	1.9	U	0.96	U	
	4,4'-DDE	2,940	µg/kg	0.30	U	0.31	U	0.29	U	20.2		1.7	J	1.4	J	0.40	U	0.36	U	2.6	J	0.36	J	2.4	J	0.29	U	1.6	U	0.79	U	
	4,4'-DDT	3,000	µg/kg	0.51	U	0.53	U	0.49	U	2.0	J	0.51	U	2.4	J	0.67	U	0.60	U	2.4	J	0.48	U	3.1	U	0.49	U	2.6	U	1.3	U	
	Aldrin	58.8	µg/kg	0.21	U	0.21	U	0.20	U	0.22	U	0.20	U	0.40	U	0.27	U	0.24	U	0.22	U	0.19	U	1.2	U	0.20	U	1.1	U	0.53	U	
	Alpha-BHC	159	µg/kg	0.15	U	0.15	U	0.14	U	0.16	U	0.15	U	0.29	U	0.19	U	0.17	U	0.16	U	0.14	U	0.90	U	0.14	U	0.76	U	0.38	U	
	alpha-Chlordane (cis)	NE	µg/kg	0.17	U	0.17	U	0.16	U	0.17	U	0.16	U	0.33	U	0.22	U	0.19	U	0.18	U	0.15	U	1.0	U	0.16	U	0.85	U	0.43	U	
	beta or gamma-Chlordane (trans)	NE	µg/kg	0.47	U	0.49	U	0.45	U	0.50	U	0.46	U	0.93	U	0.62	U	0.55	U	0.51	U	0.44	U	2.9	U	0.45	U	2.4	U	1.2	U	
	Beta-BHC	556	µg/kg	0.27	U	0.28	U	0.26	U	0.29	U	0.27	U	0.54	U	0.36	U	0.32	U	0.30	U	0.25	U	1.7	U	0.26	U	1.4	U	0.71	U	
	Chlordane (Total)	2,860	µg/kg	3.7	U	3.8	U	3.6	U	3.9	U	3.7	U	7.3	U	4.9	U	4.4	U	4.0	U	3.5	U	22.6	U	3.5	U	19.2	U	9.6	U	
	Delta-BHC	NE	µg/kg	0.17	U	0.17	U	0.16	U	0.18	U	0.17	U	0.33	U	0.22	U	0.20	U	0.18	U	0.16	U	1.0	U	0.16	U	0.87	U	0.44	U	
	Dieldrin	62.5	µg/kg	0.39	U	0.41	U	0.38	U	0.42	U	0.39	U	1.2	J	0.52	U	0.46	U	0.43	U	0.37	U	2.4	U	0.37	U	2.0	U	1.0	U	
	Endosulfan I	NE	µg/kg	0.18	U	0.19	U	0.18	U	0.19	U	0.18	U	0.36	U	0.24	U	0.22	U	0.20	U	0.17	U	1.1	U	0.17	U	0.95	U	0.48	U	
	Endosulfan II	NE	µg/kg	0.41	U	0.43	U	0.39	U	0.44	U	0.41	U	0.81	U	0.54	U	0.48	U	0.45	U	0.38	U	2.5	U	0.39	U	2.1	U	1.1	U	
	Endosulfan Sulfate	NE	µg/kg	0.42	U	0.43	U	0.40	U	0.44	U	0.41	U	0.83	U	0.55	U	0.49	U	0.46	U	0.39	U	2.6	U	0.40	U	2.2	U	1.1	U	
	Endrin	24,000	µg/kg	0.36	U	0.38	U	0.35	U	0.38	U	0.36	U	0.72	U	0.48	U	0.43	U	0.40	U	0.34	U	2.2	U	0.34	U	1.9	U	0.94	U	
	Endrin Aldehyde	NE	µg/kg	1.3	U	1.3	U	1.2	U	1.3	U	1.3	U	2.5	U	1.7	U	1.5	U	1.4	U	1.2	U	7.7	U	1.2	U	6.6	U	3.3	U	
	Endrin Ketone	NE	µg/kg	0.48	U	0.50	U	0.46	U	0.51	U	0.48	U	0.95	U	0.63	U	0.57	U	0.52	U	0.45	U	2.9	U	0.46	U	2.5	U	1.2	U	
	Heptachlor	222	µg/kg	0.22	U	0.23	U	0.21	U	0.23	U	0.22	U	0.43	U	0.29	U	0.26	U	0.24	U	0.21	U	1.3	U	0.21	U	1.1	U	0.57	U	
	Heptachlor Epoxide	110	µg/kg	0.19	U	0.20	U	0.18	U	0.33	J	0.19	U	0.42	J	0.25	U	0.23	U	0.21	U	0.18	U	1.2	U	0.18	U	0.99	U	0.50	U	
	Lindane (Gamma-BHC)	10	µg/kg	0.17	U	0.18	U	0.17	U	0.18	U	0.17	U	0.34	U	0.23	U	0.20	U	0.19	U	0.16	U	1.1	U	0.16	U	0.90	U	0.45	U	
Methoxychlor	400,000	µg/kg	3.1	U	3.2	U	2.9	U	3.3	U	3.0	U	6.0	U	4.0	U	3.6	U	3.3	U	2.9	U	18.7	U	2.9	U	15.8	U	7.9	U		
Toxaphene	909	µg/kg	9.7	U	10.0	U	9.2	U	10.2	U	9.6	U	42.8	J	12.7	U	11.4	U	10.5	U	9.0	U	58.8	U	9.2	U	49.9	U	25.1	U		

		Location ID	TP-16	TP-17	TP-17	TP-18	TP-18	TP-19	TP-19	TP-19	MW-1	MW-1	MW-2	MW-3	MW-4	MW-4															
		Sample ID	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)	MW-4 (7-8.5)															
		Sample Date	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/29/2018	11/29/2018	11/29/2018	11/30/2018	11/30/2018	11/30/2018															
		Start Depth	8	3	6	3	6	2	5	8	2	15	2.5	7	3	7															
		End Depth	8	3	6	3	6	2	5	8	3	16	4	8.5	4.5	8.5															
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																												
PCB Aroclors <sup>8</sup>	PCB-Aroclor 1016	1,000	µg/kg	11.2	U	11.7	U	10.7	U	11.9	U	11.2	U	11.2	U	14.7	U	13.3	U	12.2	U	10.4	U	13.7	U	10.6	U	11.6	U	14.6	U
	PCB-Aroclor 1221		µg/kg	14.1	U	14.7	U	13.5	U	15.0	U	14.1	U	14.1	U	18.6	U	16.7	U	15.3	U	13.1	U	17.3	U	13.4	U	14.7	U	18.4	U
	PCB-Aroclor 1232		µg/kg	16.1	U	16.7	U	15.4	U	17.0	U	16.0	U	16.0	U	21.2	U	19.0	U	17.5	U	14.9	U	19.7	U	15.2	U	16.7	U	20.9	U
	PCB-Aroclor 1242		µg/kg	13.6	U	14.2	U	13.1	U	14.5	U	13.6	U	13.6	U	18.0	U	16.2	U	14.8	U	12.6	U	16.7	U	12.9	U	21.0	J	17.7	U
	PCB-Aroclor 1248		µg/kg	12.0	U	12.6	U	11.6	U	12.8	U	12.0	U	12.0	U	15.9	U	14.3	U	13.1	U	11.2	U	14.7	U	11.4	U	12.5	U	15.7	U
	PCB-Aroclor 1254		µg/kg	11.8	U	12.3	U	11.3	U	12.5	U	11.8	U	11.8	U	15.6	U	14.0	U	12.8	U	11.0	U	14.5	U	11.2	U	12.3	U	15.4	U
	PCB-Aroclor 1260		µg/kg	9.6	U	10.0	U	9.2	U	10.2	U	9.6	U	9.6	U	12.7	U	11.4	U	10.4	U	8.9	U	11.8	U	9.1	U	10	U	145	
	Total PCB Aroclors		µg/kg	16.1	U	16.7	U	15.4	U	17.0	U	16.0	U	16.0	U	21.2	U	19.0	U	17.5	U	14.9	U	19.7	U	15.2	U	21.0	J	145	
VOCs <sup>9</sup>	1,1,1,2-Tetrachloroethane	38,500	µg/kg	19.4	U	22.1	U	19.1	U	23.2	U	22.9	U	24.0	U	29.0	U	31.2	U	23.1	U	17.5	U	24.1	U	18.8	U	20.8	U	25.7	U
	1,1,1-Trichloroethane	2,000	µg/kg	28.7	U	32.8	U	28.3	U	34.4	U	34.0	U	35.6	U	43.0	U	46.3	U	34.3	U	26.0	U	35.7	U	27.9	U	30.9	U	38.2	U
	1,1,2,2-Tetrachloroethane	5,000	µg/kg	10.9	U	12.4	U	10.7	U	13.0	U	12.8	U	13.4	U	16.3	U	17.5	U	13.0	U	9.8	U	13.5	U	10.6	U	11.7	U	14.4	U
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2,400,000,000	µg/kg	71.5	U	81.6	U	70.5	U	85.6	U	84.5	U	88.5	U	107	U	115	U	85.3	U	64.7	U	89.0	U	69.5	U	77.0	U	95.1	U
	1,1,2-Trichloroethane	17,500	µg/kg	7.4	U	8.4	U	7.3	U	8.8	U	8.7	U	9.1	U	11.0	U	11.9	U	8.8	U	6.7	U	9.2	U	7.2	U	7.9	U	9.8	U
	1,1-Dichloroethane	175,000	µg/kg	6.9	U	7.9	U	6.8	U	8.3	U	8.2	U	8.6	U	10.4	U	11.2	U	8.2	U	6.3	U	8.6	U	6.7	U	7.4	U	9.2	U
	1,1-Dichloroethene	4,000,000	µg/kg	18.5	U	21.1	U	18.2	U	22.1	U	21.9	U	22.9	U	27.7	U	29.8	U	22.1	U	16.7	U	23.0	U	18.0	U	19.9	U	24.6	U
	1,1-Dichloropropene	NE	µg/kg	28.5	U	32.5	U	28.1	U	34.1	U	33.7	U	35.3	U	42.6	U	45.9	U	34.0	U	25.8	U	35.4	U	27.7	U	30.7	U	37.9	U
	1,2,3-Trichlorobenzene	NE	µg/kg	9.8	U	11.2	U	9.7	U	11.8	U	11.6	U	12.2	U	14.7	U	15.9	U	11.7	U	8.9	U	12.3	U	9.6	U	10.6	U	13.1	U
	1,2,3-Trichloropropane	33.3	µg/kg	16.1	U	18.4	U	15.9	U	19.3	U	19.1	U	20.0	U	24.2	U	26.0	U	19.3	U	14.6	U	20.1	U	15.7	U	17.4	U	21.5	U
	1,2,4-Trichlorobenzene	34,500	µg/kg	13.7	U	15.6	U	13.5	U	16.4	U	16.2	U	16.9	U	20.5	U	22.1	U	16.3	U	12.4	U	17.0	U	13.3	U	14.7	U	18.2	U
	1,2,4-Trimethylbenzene	NE	µg/kg	12.3	U	14.1	U	12.2	U	14.8	U	14.6	U	15.3	U	18.5	U	19.9	U	14.7	U	11.2	U	15.3	U	12.0	U	13.3	U	16.4	U
	1,2-Dibromo-3-Chloropropane	1,250	µg/kg	215	U	245	U	211	U	257	U	254	U	266	U	321	U	346	U	256	U	194	U	267	U	209	U	231	U	285	U
	1,2-Dibromoethane (EDB) <sup>15</sup>	5	µg/kg	0.27	UJ	0.27	UJ	0.26	UJ	0.28	UJ	0.27	UJ	0.27	UJ	0.35	UJ	0.31	UJ	0.30	UJ	0.25	UJ	0.32	UJ	0.25	UJ	0.28	UJ	0.34	UJ
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	2.5	U	2.8	U	2.5	U	3.0	U	2.9	U	3.1	U	3.7	U	4.0	U	3.0	U	2.3	U	3.1	U	2.4	U	2.7	U	3.3	U
	1,2-Dichloroethane	11,000	µg/kg	6.8	U	7.7	U	6.7	U	8.1	U	8.0	U	8.4	U	10.2	U	10.9	U	8.1	U	6.1	U	8.4	U	6.6	U	7.3	U	9.0	U
	1,2-Dichloropropane	27,800	µg/kg	10.6	U	12.1	U	10.5	U	12.7	U	12.6	U	13.2	U	15.9	U	17.1	U	12.7	U	9.6	U	13.2	U	10.3	U	11.4	U	14.1	U
	1,3,5-Trimethylbenzene	800,000	µg/kg	9.8	U	11.2	U	9.7	U	11.8	U	11.6	U	12.2	U	14.7	U	15.8	U	11.7	U	8.9	U	12.2	U	9.6	U	10.6	U	13.1	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	2.2	U	2.6	U	2.2	U	2.7	U	2.7	U	2.8	U	3.4	U	3.6	U	2.7	U	2.0	U	2.8	U	2.2	U	2.4	U	3.0	U
	1,3-Dichloropropane	NE	µg/kg	8.5	U	9.7	U	8.4	U	10.2	U	10.1	U	10.6	U	12.8	U	13.8	U	10.2	U	7.7	U	10.6	U	8.3	U	9.2	U	11.3	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	3.8	U	4.4	U	3.8	U	4.6	U	4.5	U	4.7	U	5.7	U	6.2	U	4.6	U	3.5	U	4.8	U	3.7	U	4.1	U	5.1	U
	2,2-Dichloropropane	NE	µg/kg	7.7	U	8.8	U	7.6	U	9.2	U	9.1	U	9.5	U	11.5	U	12.4	U	9.2	U	7.0	U	9.6	U	7.5	U	8.3	U	10.2	U
	2-Butanone (MEK)	48,000,000	µg/kg	32.8	U	37.4	U	32.3	U	39.2	U	38.8	U	40.6	U	49.1	U	52.9	U	39.1	U	29.7	U	40.8	U	31.9	U	35.3	U	43.6	U
	2-Chlorotoluene	1,600,000	µg/kg	3.0	U	3.5	U	3.0	U	3.6	U	3.6	U	3.8	U	4.5	U	4.9	U	3.6	U	2.7	U	3.8	U	2.9	U	3.3	U	4.0	U
	4-Chlorotoluene	NE	µg/kg	3.2	U	3.6	U	3.1	U	3.8	U	3.7	U	3.9	U	4.7	U	5.1	U	3.8	U	2.9	U	3.9	U	3.1	U	3.4	U	4.2	U
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6,400,000	µg/kg	12.8	U	14.6	U	12.6	U	15.3	U	15.2	U	15.9	U	19.2	U	20.7	U	15.3	U	11.6	U	16.0	U	12.5	U	13.8	U	17.1	U
	Acetone	72,000,000	µg/kg	383	U	438	U	378	U	459	U	453	U	475	U	574	U	618	U	457	U	347	U	477	U	373	U	413	U	510	U
	Allyl Chloride (3-Chloropropene)	47,600	µg/kg	51.7	U	59.0	U	50.9	U	61.8	U	61.1	U	63.9	U	77.3	U	83.3	U	61.6	U	46.7	U	64.3	U	50.2	U	55.6	U	68.7	U
	Benzene	30	µg/kg	3.5	U	4.0	U	3.4	U	4.2	U	4.1	U	4.3	U	5.2	U	5.6	U	4.1	U	3.1	U	4.3	U	3.4	U	3.7	U	4.6	U
	Bromobenzene	NE	µg/kg	3.8	U	4.3	U	3.7	U	4.5	U	4.5	U	4.7	U	5.7	U	6.1	U	4.5	U	3.4	U	4.7	U	3.7	U	4.1	U	5.0	U
	Bromochloromethane	NE	µg/kg	21.3	U	24.4	U	21.0	U	25.5	U	25.2	U	26.4	U	31.9	U	34.4	U	25.4	U	19.3	U	26.5	U	20.7	U	23.0	U	28.4	U
	Bromodichloromethane	16,100	µg/kg	21.1	U	24.1	U	20.8	U	25.2	U	24.9	U	26.1	U	31.6	U	34.0	U	25.1	U	19.1	U	26.2	U	20.5	U	22.7	U	28.0	U
Bromoform (Tribromomethane)	127,000	µg/kg	93.3	U	107	U	92.0	U	112	U	110	U	116	U	140	U	150	U	111	U	84.4	U	116								

		Location ID	TP-16	TP-17	TP-17	TP-18	TP-18	TP-19	TP-19	TP-19	MW-1	MW-1	MW-2	MW-3	MW-4	MW-4															
		Sample ID	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)	MW-4 (7-8.5)															
		Sample Date	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/29/2018	11/29/2018	11/29/2018	11/30/2018	11/30/2018	11/30/2018															
		Start Depth	8	3	6	3	6	2	5	8	2	15	2.5	7	3	7															
		End Depth	8	3	6	3	6	2	5	8	3	16	4	8.5	4.5	8.5															
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																												
VOCs <sup>9</sup>	Chloroethane	NE	µg/kg	32.1	UJ	36.6	UJ	31.6	UJ	38.4	UJ	37.9	UJ	39.7	UJ	48.0	UJ	51.7	UJ	38.2	U	29.0	U	39.9	U	31.2	U	34.5	U	42.6	U
	Chloroform	32,300	µg/kg	30.8	U	35.2	U	30.4	U	36.9	U	36.4	U	38.2	U	46.1	U	49.7	U	36.8	U	27.9	U	38.3	U	30.0	U	33.2	U	41.0	U
	Chloromethane	NE	µg/kg	14.8	U	16.9	U	14.6	U	17.7	U	17.5	U	18.3	U	22.1	U	23.9	U	17.6	U	13.4	U	18.4	U	14.4	U	15.9	U	19.7	U
	cis-1,2-Dichloroethene	160,000	µg/kg	10.2	U	11.7	U	10.1	U	12.2	U	12.1	U	12.7	U	15.3	U	16.5	U	12.2	U	9.2	U	12.7	U	9.9	U	11.0	U	13.6	U
	cis-1,3-Dichloropropene	NE	µg/kg	8.8	U	10.1	U	8.7	U	10.6	U	10.4	U	10.9	U	13.2	U	14.2	U	10.5	U	8.0	U	11.0	U	8.6	U	9.5	U	11.7	U
	Dibromochloromethane	11,900	µg/kg	7.2	U	8.2	U	7.0	U	8.6	U	8.5	U	8.9	U	10.7	U	11.5	U	8.5	U	6.5	U	8.9	U	7.0	U	7.7	U	9.5	U
	Dibromomethane	800,000	µg/kg	11.3	U	12.9	U	11.1	U	13.5	U	13.4	U	14.0	U	16.9	U	18.2	U	13.5	U	10.2	U	14.1	U	11.0	U	12.2	U	15.0	U
	Dichlorodifluoromethane (CFC-12)	16,000,000	µg/kg	20.0	U	22.8	U	19.7	U	23.9	U	23.6	U	24.7	U	29.9	U	32.2	U	23.8	U	18.1	U	24.9	U	19.4	U	21.5	U	26.6	U
	Ethyl Ether	16,000,000	µg/kg	37.7	U	43.1	U	37.2	U	45.1	U	44.6	U	46.7	U	56.5	U	60.8	U	45.0	U	34.1	U	46.9	U	36.7	U	40.6	U	50.2	U
	Ethylbenzene	6,000	µg/kg	3.4	U	3.8	U	3.3	U	4.0	U	4.0	U	4.2	U	5.0	U	5.4	U	4.0	U	3.0	U	4.2	U	3.3	U	3.6	U	4.5	U
	HCFC-21	NE	µg/kg	85.2	U	97.3	U	84.0	U	102	U	101	U	105	U	128	U	137	U	102	U	77.0	U	106	U	82.8	U	91.7	U	113	U
	Hexachlorobutadiene	12,800	µg/kg	15.0	U	17.2	U	14.8	U	18.0	U	17.8	U	18.6	U	22.5	U	24.3	U	17.9	U	13.6	U	18.7	U	14.6	U	16.2	U	20.0	U
	Isopropylbenzene (Cumene)	8,000,000	µg/kg	2.7	U	3.1	U	2.7	U	3.3	U	3.2	U	3.4	U	4.1	U	4.4	U	3.3	U	2.5	U	3.4	U	2.7	U	2.9	U	3.6	U
	Methyl t-butyl ether	100	µg/kg	7.3	U	8.4	U	7.2	U	8.8	U	8.7	U	9.1	U	11.0	U	11.8	U	8.7	U	6.6	U	9.1	U	7.1	U	7.9	U	9.8	U
	Methylene Chloride <sup>15</sup>	20	µg/kg	4.4	UJ	4.4	UJ	4.2	UJ	4.6	UJ	4.7	J	4.4	UJ	5.7	UJ	5.1	UJ	4.8	UJ	4.1	UJ	5.1	UJ	4.1	UJ	4.6	UJ	5.5	UJ
	Naphthalene	5,000	µg/kg	57.7	U	65.9	U	56.9	U	69.0	U	68.2	U	71.4	U	86.4	U	93.0	U	68.8	U	52.2	U	71.8	U	56.1	U	62.1	U	76.7	U
	n-Butylbenzene	4,000,000	µg/kg	29.3	U	33.5	U	28.9	U	35.1	U	34.7	U	36.3	U	43.9	U	47.3	U	35.0	U	26.5	U	36.5	U	28.5	U	31.6	U	39.0	U
	n-Propylbenzene	8,000,000	µg/kg	3.3	U	3.8	U	3.2	U	3.9	U	3.9	U	4.1	U	4.9	U	5.3	U	3.9	U	3.0	U	4.1	U	3.2	U	3.5	U	4.4	U
	p-Isopropyltoluene	NE	µg/kg	18.7	U	21.4	U	18.5	U	22.4	U	22.2	U	23.2	U	28.1	U	30.2	U	22.3	U	16.9	U	23.3	U	18.2	U	20.2	U	24.9	U
	Sec-Butylbenzene	8,000,000	µg/kg	11.8	U	13.5	U	11.6	U	14.1	U	14.0	U	14.6	U	17.7	U	19.0	U	14.1	U	10.7	U	14.7	U	11.5	U	12.7	U	15.7	U
	Styrene	16,000,000	µg/kg	2.8	U	3.2	U	2.8	U	3.4	U	3.3	U	3.5	U	4.2	U	4.5	U	3.4	U	2.5	U	3.5	U	2.7	U	3.0	U	3.7	U
	Tert-Butylbenzene	8,000,000	µg/kg	11.8	U	13.5	U	11.7	U	14.2	U	14.0	U	14.7	U	17.7	U	19.1	U	14.1	U	10.7	U	14.7	U	11.5	U	12.7	U	15.7	U
	Tetrachloroethene	50	µg/kg	21.7	U	24.8	U	21.4	U	26.0	U	25.7	U	26.9	U	32.5	U	35.0	U	25.9	U	19.6	U	27.0	U	21.1	U	23.4	U	28.9	U
	Tetrahydrofuran	NE	µg/kg	89.6	U	102	U	88.3	U	107	U	106	U	111	U	134	U	145	U	107	U	81.1	U	112	U	87.1	U	96.5	U	119	U
	Toluene	7,000	µg/kg	15.0	U	17.2	U	14.8	U	18.0	U	17.8	U	18.6	U	22.5	U	24.3	U	17.9	U	13.6	U	18.7	U	14.6	U	16.2	U	20.0	U
	Total Xylenes	9,000	µg/kg	14.3	U	16.3	U	14.1	U	17.1	U	16.9	U	17.7	U	21.4	U	23.1	U	17.1	U	12.9	U	17.8	U	13.9	U	15.4	U	19.0	U
	trans-1,2-Dichloroethene	1,600,000	µg/kg	28.8	U	32.9	U	28.4	U	34.5	U	34.1	U	35.7	U	43.2	U	46.5	U	34.4	U	26.1	U	35.9	U	28.0	U	31.1	U	38.4	U
	trans-1,3-Dichloropropene	NE	µg/kg	8.6	U	9.8	U	8.4	U	10.3	U	10.1	U	10.6	U	12.8	U	13.8	U	10.2	U	7.7	U	10.7	U	8.3	U	9.2	U	11.4	U
Trichloroethene	30	µg/kg	9.5	U	10.9	U	9.4	U	11.4	U	11.2	U	11.8	U	14.2	U	15.3	U	11.3	U	8.6	U	11.8	U	9.2	U	10.2	U	12.6	U	
Trichlorofluoromethane (CFC-11)	24,000,000	µg/kg	107	U	123	U	106	U	129	U	127	U	133	U	161	U	173	U	128	U	97.2	U	134	U	105	U	116	U	143	U	
Vinyl Chloride	240,000	µg/kg	12.1	U	13.9	U	12.0	U	14.5	U	14.3	U	15.0	U	18.2	U	19.6	U	14.5	U	11.0	U	15.1	U	11.8	U	13.1	U	16.1	U	
SVOCs <sup>10</sup>	1,2,4-Trichlorobenzene	34,500	µg/kg	44.1	U	45.5	U	42.1	U	46.6	U	44.3	U	44.0	U	58.3	U	52.1	U	47.8	U	1,240	UJ	53.9	U	42.1	U	45.7	U	56.8	U
	1,2-Dichlorobenzene (o-Dichlorobenzene)	7,200,000	µg/kg	42.1	U	43.5	U	40.2	U	44.5	U	42.3	U	42.1	U	55.7	U	49.8	U	45.7	U	1,190	UJ	51.5	U	40.3	U	43.7	U	54.3	U
	1,2-Diphenylhydrazine	1,250	µg/kg	49.3	U	50.9	U	47.1	U	52.1	U	49.6	U	49.3	U	65.2	U	58.3	U	53.5	U	1,390	UJ	60.3	U	47.1	U	51.1	U	63.6	U
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/kg	27.5	U	28.4	U	26.3	U	29.1	U	27.7	U	27.5	U	36.4	U	32.5	U	29.8	U	776	UJ	33.7	U	26.3	U	28.5	U	35.5	U
	1,4-Dichlorobenzene (p-Dichlorobenzene)	185,000	µg/kg	44.7	U	46.1	U	42.7	U	47.2	U	44.9	U	44.6	U	59.1	U	52.8	U	48.4	U	1,260	UJ	54.7	U	42.7	U	46.3	U	57.6	U
	1-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	37.1	U	38.4	U	35.5	U	39.3	U	37.3	U	37.1	U	49.1	U	43.9	U	0.71	U	0.61	U	0.79	U	0.62	U	0.67	U	0.84	U
	2,2'-Oxybis[1-chloropropane]	14,300	µg/kg	41.4	U	42.8	U	39.5	U	43.8	U	41.6	U	41.4	U	54.7	U	48.9	U	44.9	U	1,170	UJ	50.6	U	39.6	U	42.9	U	53.4	U
	2,4,5-Trichlorophenol	8,000,000	µg/kg	51.7	U	53.4	U	49.4	U	54.7	U	52.0	U	51.7	U	68.4	U	61.2	U	56.1	U	1,460	UJ	63.3	U	49.5	U	53.6	U	66.7	U
	2,4,6-Trichlorophenol	80,000	µg/kg	62.2	U	64.3	U	59.4	U	65.8	U	62.5	U	62.2	U	82.2	U	73.6	U	67.5	U	1,750	UJ	76.1	U	59.5	U	64.5	U	80.2	U
	2,4-Dichlorophenol	240,000	µg/kg	67.1	U	69.3	U	64.1	U	70.9	U	67.4	U	67.0	U	88.7	U	79.3	U	72.7	U	1,890	UJ	82.1	U	64.1	U	69.5	U	86.5	U
	2,4-Dimethylphenol	1,600,000	µg/kg	157	U	162	U	150	U	166	U	158	U	157	U	208	U	186	U	170	U	4,430	UJ	192	U	150	U	163	U	203	U
	2,4-Dinitrophenol	160,000	µg/kg	187	U	194	U	179	U	198	U	188	U	187	U	248	U	222	U	203	U	5,280	UJ	229	U	179	U	194	U	242	U
2,4-Dinitrotoluene	3,230	µg/kg	51.1	U	52.8	U	48.8	U	54.1	U	51.4	U	51.1	U	67.6	U	60.5	U	55.4	U	1,440	UJ	62.6	U	48.9	U	53.0	U	66.0	U	

		Location ID	TP-16	TP-17	TP-17	TP-18	TP-18	TP-19	TP-19	TP-19	MW-1	MW-1	MW-2	MW-3	MW-4	MW-4															
		Sample ID	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)	MW-4 (7-8.5)															
		Sample Date	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/29/2018	11/29/2018	11/29/2018	11/30/2018	11/30/2018	11/30/2018															
		Start Depth	8	3	6	3	6	2	5	8	2	15	2.5	7	3	7															
		End Depth	8	3	6	3	6	2	5	8	3	16	4	8.5	4.5	8.5															
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																												
SVOCs <sup>10</sup>	2,6-Dinitrotoluene	667	µg/kg	53.2	U	55.0	U	50.8	U	56.3	U	53.5	U	53.2	U	70.3	U	62.9	U	57.7	U	1,500	UJ	65.1	U	50.9	U	55.1	U	68.6	U
	2-Chloronaphthalene	6,400,000	µg/kg	35.5	U	36.7	U	34.0	U	37.6	U	35.7	U	35.5	U	47.0	U	42.0	U	38.5	U	1,000	UJ	43.5	U	34.0	U	36.8	U	45.9	U
	2-Chlorophenol	400,000	µg/kg	45.8	U	47.3	U	43.7	U	48.4	U	46.0	U	45.7	U	60.5	U	54.1	U	49.6	U	1,290	UJ	56.0	U	43.8	U	47.4	U	59.0	U
	2-Methylnaphthalene <sup>11</sup>	5,000	µg/kg	36.3	U	37.5	U	34.7	U	38.4	U	36.5	U	36.2	U	48.0	U	42.9	U	0.67	U	0.58	U	0.75	U	0.59	U	0.63	U	0.79	U
	2-methylphenol (o-Cresol)	4,000,000	µg/kg	25.1	U	25.9	U	24.0	U	26.5	U	25.2	U	25.1	U	33.2	U	29.7	U	27.2	U	707	UJ	30.7	U	24.0	U	26.0	U	32.3	U
	2-Nitroaniline	800,000	µg/kg	101	U	104	U	96.3	U	107	U	101	U	101	U	133	U	119	U	109	U	2,840	UJ	123	U	96.4	U	104	U	130	U
	2-Nitrophenol	NE	µg/kg	48.9	U	50.6	U	46.7	U	51.7	U	49.2	U	48.9	U	64.7	U	57.9	U	53.1	U	1,380	UJ	59.9	U	46.8	U	50.7	U	63.1	U
	3 & 4 Methylphenol	NE	µg/kg	22.6	U	23.4	U	21.6	U	23.9	U	22.8	U	22.6	U	29.9	U	26.8	U	24.6	U	638	UJ	27.7	U	21.6	U	23.5	U	29.2	U
	3,3'-Dichlorobenzidine	2,220	µg/kg	135	U	139	U	129	U	143	U	136	U	135	U	178	U	160	U	146	U	3,810	UJ	165	U	129	U	140	U	174	U
	3-Nitroaniline	NE	µg/kg	43.8	U	45.3	U	41.9	U	46.3	U	44.1	U	43.8	U	57.9	U	51.8	U	47.5	UJ	1,240	UJ	53.6	UJ	41.9	UJ	45.4	UJ	56.5	UJ
	4,6-Dinitro-2-Methylphenol	NE	µg/kg	398	U	411	U	380	U	421	U	400	U	398	U	526	U	471	U	432	U	11,200	UJ	487	U	381	U	413	U	514	U
	4-Bromophenyl phenyl ether	NE	µg/kg	47.8	U	49.4	U	45.7	U	50.6	U	48.1	U	47.8	U	63.3	U	56.6	U	51.9	U	1,350	UJ	58.5	U	45.7	U	49.6	U	61.7	U
	4-Chloro-3-Methylphenol	NE	µg/kg	64.3	U	66.4	U	61.4	U	68.0	U	64.6	U	64.2	U	85.0	U	76.0	U	69.7	U	1,810	UJ	78.6	U	61.5	U	66.6	U	82.9	U
	4-Chloroaniline	5,000	µg/kg	107	U	111	U	102	U	113	U	108	U	107	U	141	U	127	U	116	U	3,020	UJ	131	U	102	U	111	U	138	U
	4-Chlorophenyl-Phenylether	NE	µg/kg	49.8	U	51.4	U	47.6	U	52.6	U	50.1	U	49.7	U	65.8	U	58.9	U	54.0	U	1,400	UJ	60.9	U	47.6	U	51.6	U	64.2	U
	4-Nitroaniline	NE	µg/kg	58.7	U	60.6	U	56.1	U	62.0	U	59.0	U	58.6	U	77.6	U	69.4	U	63.6	U	1,650	UJ	71.8	U	56.1	U	60.8	U	75.7	U
	4-Nitrophenol (p-Nitrophenol)	NE	µg/kg	77.9	U	80.5	U	74.4	U	82.4	U	78.3	U	77.8	U	103	U	92.1	U	84.5	U	2,200	UJ	95.3	U	74.5	U	80.8	U	101	U
	Acenaphthene <sup>11</sup>	NE	µg/kg	42.8	U	44.3	U	40.9	U	45.3	U	43.1	U	42.8	U	56.7	U	50.7	U	0.54	U	0.47	U	0.61	U	0.47	U	0.51	U	0.64	U
	Acenaphthylene <sup>11</sup>	NE	µg/kg	51.2	U	52.9	U	49.0	U	54.2	U	51.5	U	51.2	U	67.8	U	60.6	U	0.66	U	0.57	U	0.73	U	0.57	U	0.62	U	0.78	U
	Anthracene <sup>11</sup>	NE	µg/kg	47.1	U	48.7	U	45.0	U	49.8	U	47.4	U	47.1	U	62.3	U	55.7	U	0.62	U	0.53	U	0.69	U	0.54	U	0.59	U	0.74	U
	Benzo(a)anthracene <sup>11</sup>	NE	µg/kg	41.3	U	42.6	U	39.4	U	43.6	U	41.5	U	<b>103</b>	J	54.6	U	48.8	U	1.4	U	1.2	U	<b>18.1</b>		1.3	U	1.4	U	1.7	U
	Benzo(a)pyrene <sup>11</sup>	100	µg/kg	45.5	U	47.0	U	43.5	U	48.1	U	45.8	U	<b>103</b>	J	60.2	U	53.8	U	0.91	U	0.79	U	<b>19.8</b>		0.80	U	0.86	U	1.1	U
	Benzo(b)fluoranthene <sup>11</sup>	NE	µg/kg	39.3	U	40.6	U	37.6	U	41.6	U	39.5	U	<b>123</b>	J	52.0	U	46.5	U	0.49	U	0.43	U	<b>19.6</b>		0.43	U	0.47	U	0.59	U
	Benzo(g,h,i)perylene <sup>11</sup>	NE	µg/kg	43.0	U	44.4	U	41.1	U	45.4	U	43.2	U	<b>69.6</b>	J	56.8	U	50.8	U	0.84	U	0.72	U	0.94	U	0.73	U	0.80	U	1.0	U
	Benzo(k)fluoranthene <sup>11</sup>	NE	µg/kg	50.2	U	51.8	U	47.9	U	53.0	U	50.4	U	50.1	U	66.3	U	59.3	U	1.1	U	0.97	U	1.3	U	0.98	U	1.1	U	1.3	U
	Bis(2-Chloroethoxy)Methane	NE	µg/kg	41.1	U	42.5	U	39.3	U	43.5	U	41.4	U	41.1	U	54.4	U	48.7	U	44.6	U	1,160	UJ	50.3	U	39.3	U	42.6	U	53.1	U
	Bis(2-Chloroethyl)Ether	909	µg/kg	31.8	U	32.8	U	30.4	U	33.6	U	31.9	U	31.7	U	42.0	U	37.6	U	34.5	U	896	UJ	38.9	U	30.4	U	32.9	U	41.0	U
	Bis(2-Ethylhexyl) Phthalate	71,400	µg/kg	83.7	U	86.5	U	80.0	U	88.6	U	84.2	U	83.7	U	111	U	99.0	U	90.8	U	2,360	UJ	102	U	80.1	U	86.8	U	108	U
	Butyl benzyl Phthalate	526,000	µg/kg	36.8	U	38.0	U	35.1	U	38.9	U	37.0	U	36.7	U	48.6	U	43.5	U	39.9	U	1,040	UJ	45.0	U	35.1	U	38.1	U	47.4	U
	Carbazole	NE	µg/kg	33.4	U	34.5	U	31.9	U	35.3	U	33.5	U	33.3	U	44.1	U	39.4	U	36.2	U	940	UJ	40.8	U	31.9	U	34.6	U	43.0	U
	Chrysene <sup>11</sup>	NE	µg/kg	42.4	U	43.8	U	40.5	U	44.8	U	42.6	U	<b>112</b>	J	56.0	U	50.1	U	1.8	U	1.6	U	<b>17.0</b>		1.6	U	1.7	U	2.1	U
	Dibenzo(a,h)anthracene <sup>11</sup>	NE	µg/kg	42.7	U	44.1	U	40.8	U	45.2	U	43.0	U	42.7	U	56.5	U	50.5	U	0.61	U	0.53	U	0.68	U	0.53	U	0.58	U	0.73	U
	Dibenzofuran	80,000	µg/kg	50.9	U	52.6	U	48.6	U	53.8	U	51.2	U	50.8	U	67.3	U	60.2	U	55.2	U	1,430	UJ	62.3	U	48.6	U	52.7	U	65.6	U
Dibutyl Phthalate	8,000,000	µg/kg	55.0	U	56.8	U	52.6	U	58.2	U	55.3	U	55.0	U	72.7	U	65.1	U	59.7	U	<b>2,050</b>	J	67.3	U	52.6	U	57.0	U	71.0	U	
Diethyl Phthalate	64,000,000	µg/kg	35.8	U	37.0	U	34.2	U	37.8	U	36.0	U	35.8	U	47.3	U	42.3	U	38.8	U	1,010	UJ	43.8	U	34.2	U	37.1	U	46.2	U	
Dimethyl Phthalate	NE	µg/kg	54.5	U	56.3	U	52.1	U	57.7	U	54.8	U	54.5	U	72.1	U	64.5	U	59.1	U	1,540	UJ	66.7	U	52.1	U	56.5	U	70.4	U	
Di-N-Octyl Phthalate	800,000	µg/kg	46.6	U	48.2	U	44.5	U	49.3	U	46.9	U	46.6	U	61.6	U	55.1	U	50.6	U	1,310	UJ	57.0	U	44.6	U	48.3	U	60.1	U	
Fluoranthene <sup>11</sup>	NE	µg/kg	46.1	U	47.7	U	44.1	U	48.8	U	46.4	U	<b>166</b>	J	61.0	U	54.6	U	0.57	U	0.49	U	<b>32.6</b>		0.50	U	0.54	U	0.67	U	
Fluorene <sup>11</sup>	NE	µg/kg	184	U	190	U	176	U	194	U	185	U	184	U	243	U	217	U	0.41	U	0.36	U	0.46	U	0.36	U	0.39	U	0.49	U	
Hexachlorobenzene	625	µg/kg	65.5	U	67.7	U	62.6	U	69.3	U	65.8	U	65.4	U	86.6	U	77.4	U	71.0	U	1,850	UJ	80.1	U	62.6	U	67.9	U	84.5	U	
Hexachlorobutadiene	12,800	µg/kg	61.1	U	63.1	U	58.4	U	64.6	U	61.4	U	61.1	U	80.8	U	72.3	U	66.3	U	1,720	UJ	74.8	U	58.4	U	63.3	U	78.8	U	
Hexachloroethane	25,000	µg/kg	52.2	U	53.9	U	49.9	U	55.2	U	52.5	U	52.2	U	69.0	U	61.8	U	56.6	U	1,470	UJ	63.9	U	49.9	U	54.1	U	67.4	U	
Indeno(1,2,3-c,d)pyrene <sup>11</sup>	NE	µg/kg	24.2	U	25.0	U	23.1	U	25.6	U	24.4	U	<b>60.7</b>	J	32.0	U	28.6	U	0.89	U	0.77	U	0.99	U	0.78	U	0.84	U	1.1	U	
Isophorone	1,050,000	µg/kg	30.9	U	31.9	U	29.5	U	32.7	U	31.1	U	30.9	U	40.9	U	36.6	U	33.5	U	872	UJ	37.8	U	29.6	U	32.0	U	39.9	U	

		Location ID	TP-16	TP-17	TP-17	TP-18	TP-18	TP-19	TP-19	TP-19	MW-1	MW-1	MW-2	MW-3	MW-4	MW-4															
		Sample ID	TP-16 (8)	TP-17 (3)	TP-17 (6)	TP-18 (3)	TP-18 (6)	TP-19 (2)	TP-19 (5)	TP-19 (8)	MW-1 (2-3)	MW-1 (15-16)	MW-2 (2.5-4)	MW-3 (7-8.5)	MW-4 (3-4.5)	MW-4 (7-8.5)															
		Sample Date	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/28/2018	11/29/2018	11/29/2018	11/29/2018	11/30/2018	11/30/2018	11/30/2018															
		Start Depth	8	3	6	3	6	2	5	8	2	15	2.5	7	3	7															
		End Depth	8	3	6	3	6	2	5	8	3	16	4	8.5	4.5	8.5															
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft															
Method	Analyte	Soil Cleanup Level <sup>2,3</sup>	Units																												
SVOCs <sup>10</sup>	Naphthalene <sup>11</sup>	5,000	µg/kg	30.9	U	31.9	U	29.5	U	32.7	U	31.1	U	30.9	U	40.9	U	36.6	U	1.0	U	0.88	U	1.1	U	0.89	U	0.97	U	1.2	U
	Nitrobenzene	160,000	µg/kg	44.2	U	45.6	U	42.2	U	46.7	U	44.4	U	44.2	U	58.4	U	52.3	U	47.9	U	1,250	UJ	54.1	U	42.2	U	45.8	U	57.0	U
	N-Nitrosodimethylamine	19.6	µg/kg	49.3	U	50.9	U	47.1	U	52.1	U	49.6	U	49.3	U	65.2	U	58.3	U	53.5	U	1,390	UJ	60.3	U	47.1	U	51.1	U	63.6	U
	N-Nitrosodi-n-propylamine	143	µg/kg	184	U	190	U	176	U	194	U	185	U	184	U	243	U	217	U	199	U	5,180	UJ	225	U	176	U	191	U	237	U
	N-Nitrosodiphenylamine (as diphenylamine)	204,000	µg/kg	26.0	U	26.9	U	24.9	U	27.5	U	26.2	U	26.0	U	34.4	U	30.8	U	28.3	U	734	UJ	31.9	U	24.9	U	27.0	U	33.6	U
	Pentachlorophenol	2,500	µg/kg	235	U	243	U	224	U	248	U	236	U	235	U	311	U	278	U	255	U	6,620	UJ	287	U	225	U	244	U	303	U
	Phenanthrene <sup>11</sup>	NE	µg/kg	46.7	U	48.3	U	44.7	U	49.4	U	47.0	U	<b>59.4</b>	J	61.8	U	55.3	U	2.5	U	2.2	U	<b>15.4</b>		2.2	U	2.4	U	3.0	U
	Phenol	24,000,000	µg/kg	26.3	U	27.2	U	25.1	U	27.8	U	26.4	U	26.3	U	34.8	U	31.1	U	28.5	U	741	UJ	32.2	U	25.1	U	27.3	U	33.9	U
	Pyrene <sup>11</sup>	NE	µg/kg	30.6	U	31.6	U	29.2	U	32.3	U	30.7	U	<b>164</b>	J	40.4	U	36.1	U	2.0	U	1.7	U	<b>33.1</b>		1.8	U	1.9	U	2.4	U
	Total cPAH TEQ (ND=DL) <sup>12,13</sup>	100	µg/kg	32.85	U	33.92	U	31.39	U	34.72	U	33.05	U	<b>137.43</b>	J	43.45	U	38.84	U	0.69	U	0.60	U	<b>23.89</b>		0.61	U	0.66	U	0.83	U

Notes:

<sup>1</sup>Samples analyzed by Pace Analytical Services, LLC. located in Minneapolis, Minnesota.

<sup>2</sup>Washington State Model Toxics Control Act (MTCA) Method A and B Soil Cleanup Levels (CULs) for Unrestricted Land Use.

<sup>3</sup>MTCA Method B Soil CULs used if Method A Soil CULs are NE. The MTCA Method B CUL shown is the lowest for either carcinogen or non-carcinogen.

<sup>4</sup>Gasoline, Diesel and Oil-Range Petroleum Hydrocarbons (GRPH, DRPH, ORPH) analyzed using Northwest Methods NWTPH-Gx and NWTPH-Dx.

<sup>5</sup>Metals analyzed using EPA Method 6010D.

<sup>6</sup>Mercury analyzed using EPA Method 7471B.

<sup>7</sup>Pesticides analyzed using EPA Method 8081B.

<sup>8</sup>Polychlorinated biphenyls (PCBs) analyzed using EPA Method 8082A.

<sup>9</sup>Volatile organic compounds (VOCs) analyzed using EPA Method 8260B.

<sup>10</sup>Semivolatile organic compounds (SVOCs) analyzed using EPA Method 8270D. For samples collected at Location IDs MW-1, MW-2, MW-3, and MW-4, compounds noted with a \* were analyzed using EPA Method 8270D by SIM.

<sup>11</sup>For samples collected at Location IDs MW-1, MW-2, MW-3, and MW-4, compound was analyzed using EPA Method 8270D by SIM.

<sup>12</sup>Carcinogenic PAH (cPAH) toxic equivalency (TEQ) calculated using toxic equivalency factors (TEF) from MTCA Table 708-2, based on methodology described in MTCA Cleanup Regulation Washington Administrative Code (WAC) 173-340-708.

<sup>13</sup>The TEQ reported was calculated using half the laboratory method detection limits for cPAHs that were reported as non-detected (ND).

<sup>14</sup>The GRPH cleanup level is 100 mg/kg unless benzene is present, in which case the cleanup level is 30 mg/kg.

<sup>15</sup>Results reported in the table were analyzed using the EPA 5035 low level preparation method.

NE = not established; mg/kg = milligrams per kilogram; µg/kg = micrograms per kilogram; U = analyte was not detected greater than the method detection limit; J = estimated result; UJ = analyte was not detected greater than the method detection limit and is considered an estimated result.

**Bold** indicates that the analyte was detected greater than the laboratory method detection limit.

**Bold** and shading indicates analyte was detected above the applicable cleanup level concentration.

**Yellow** shading indicates analyte was not detected above the method detection limit, but the method detection limit was greater than or equal to the referenced cleanup level.

**Table 5**  
**Soil XRF and Laboratory Results**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Sample Location	Depth (feet)	Arsenic (mg/kg)		Percent Difference	Cadmium (mg/kg)		Percent Difference	Lead (mg/kg)		Percent Difference	Moisture Percent
		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		
DP-1	0 - 2	<LOD	5.7 U	--	<LOD	<b>1.90</b>	--	<b>87</b>	<b>158</b>	45%	15.0%
	4 - 5	<LOD	6.1 U	--	<LOD	0.92 U	--	<LOD	<b>8.1</b>	--	20.4%
DP-2	0 - 2	<LOD	6.0 U	--	<LOD	0.90 U	--	<LOD	<b>4.5</b>	--	17.4%
	3 - 5	<b>5.9</b>	6.0 U	2%	<LOD	0.90 U	--	<LOD	<b>4.4</b>	--	17.6%
DP-3	0 - 2	<LOD	6.1 U	--	<LOD	0.91 U	--	<b>97</b>	<b>46.4</b>	-109%	18.2%
	3 - 5	<LOD	5.8 U	--	<LOD	0.86 U	--	<LOD	<b>4.1</b>	--	18.1%
DP-4	0 - 2	<LOD	6.0 U	--	<LOD	0.90 U	--	<LOD	<b>24.8</b>	--	22.8%
	3 - 5	<LOD	1.3 U	--	<LOD	0.20 U	--	<b>12</b>	<b>1.7</b>	-606%	31.4%
DP-5	0 - 2	<LOD	6.0 U	--	<LOD	0.91 U	--	<b>82</b>	<b>123</b>	33%	24.2%
	3 - 5	<LOD	6.7 U	--	<LOD	1.00 U	--	<LOD	<b>4.9</b>	--	29.7%
DP-6	0 - 2	<LOD	6.2 U	--	<LOD	<b>6.30</b>	--	<b>833</b>	<b>865</b>	4%	22.0%
	3 - 5	<b>4.6</b>	6.4 U	28%	<LOD	0.96 U	--	<b>10.9</b>	<b>40.5</b>	73%	26.3%
DP-7	0 - 2	<LOD	5.9 U	--	<LOD	<b>1.40</b>	--	<b>16</b>	<b>107</b>	85%	23.2%
	3 - 5	<LOD	1.4 U	--	<b>20</b>	0.21 U	-9424%	<b>18</b>	<b>3.3</b>	-445%	29.0%
DP-8	0 - 2	<LOD	6.4 U	--	<LOD	0.97 U	--	<b>57</b>	<b>54.1</b>	-5%	23.9%
	3 - 5	<LOD	1.4 U	--	<LOD	0.21 U	--	<b>44</b>	<b>3.1</b>	-1319%	29.0%
DP-9	0 - 2	<b>11</b>	6.1 U	-80%	<LOD	0.91 U	--	<b>9</b>	<b>5.3</b>	-70%	21.6%
	3 - 5	<LOD	1.3 U	--	<LOD	0.19 U	--	<b>62</b>	<b>2.4</b>	-2483%	28.5%
DP-10	0 - 2	<LOD	6.2 U	--	<LOD	0.93 U	--	<b>13</b>	<b>8.7</b>	-49%	21.9%
	3 - 5	<LOD	<b>1.6</b>	--	<LOD	0.21 U	--	<LOD	<b>2.7</b>	--	29.5%
DP-11	0 - 2	<LOD	5.9 U	--	<LOD	0.88 U	--	<b>15</b>	<b>6.6</b>	-127%	19.9%
	3 - 5	<LOD	5.9 U	--	<LOD	0.89 U	--	<b>10</b>	<b>3.7</b>	-170%	23.6%
DP-12	0 - 2	<LOD	5.7 U	--	<LOD	0.86 U	--	<b>750</b>	<b>542</b>	-38%	16.3%
	3 - 5	<LOD	5.8 U	--	<LOD	0.87 U	--	<b>59</b>	<b>31</b>	-90%	18.9%
DP-13	0 - 2	<LOD	<b>2.0</b>	--	<LOD	<b>0.27</b>	--	<LOD	<b>53.7</b>	--	17.7%
	3 - 5	<LOD	1.3 U	--	<LOD	0.20 U	--	<b>15</b>	<b>3.4</b>	-341%	27.0%
DP-14	0 - 2	<LOD	<b>4.8</b>	--	<LOD	<b>2.50</b>	--	<b>225</b>	<b>128</b>	-76%	17.9%
	3 - 5	<LOD	<b>1.5</b>	--	<LOD	0.19 U	--	<b>7.4</b>	<b>11.2</b>	34%	22.6%



Sample Location	Depth (feet)	Arsenic (mg/kg)		Percent Difference	Cadmium (mg/kg)		Percent Difference	Lead (mg/kg)		Percent Difference	Moisture Percent
		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		
DP-15	0 - 2	<LOD	<b>2.8</b>	--	<LOD	<b>1.10</b>	--	<b>298</b>	<b>277</b>	-8%	19.9%
	3 - 5	<LOD	1.3 U	--	<LOD	0.19 U	--	<b>112</b>	<b>1.8</b>	-6122%	22.6%
DP-16	0 - 2	<LOD	5.8 U	--	<LOD	<b>1.90</b>	--	<b>14</b>	<b>118</b>	88%	21.0%
	3 - 5	<LOD	6.9 U	--	<LOD	1.00 U	--	<LOD	<b>4</b>	--	27.1%
DP-17	0 - 2	<LOD	6.1 U	--	<LOD	0.92 U	--	<b>6.1</b>	<b>3.4</b>	-79%	22.1%
	3 - 5	<b>5.2</b>	6.5 U	20%	<LOD	0.97 U	--	<LOD	<b>5</b>	--	22.9%
DP-18	0 - 2	<LOD	6.2 U	--	<LOD	0.93 U	--	<LOD	<b>4.5</b>	--	19.2%
	3 - 5	<LOD	6.7 U	--	<LOD	1.00 U	--	<LOD	<b>3.9</b>	--	29.1%
DP-19	0 - 2	<LOD	5.9 U	--	<LOD	<b>1.50</b>	--	<b>46</b>	<b>82.5</b>	44%	18.3%
	2 - 3.5	<LOD	5.9 U	--	<LOD	0.89 U	--	<b>18</b>	<b>26.6</b>	32%	18.3%
DP-20	0 - 2	<LOD	6.4 U	--	<LOD	<b>3.00</b>	--	<LOD	<b>295</b>	--	23.4%
	3 - 5	<LOD	1.4 U	--	<LOD	0.21 U	--	<LOD	<b>3.4</b>	--	29.7%
DP-21	0 - 1.5	<LOD	<b>2.2</b>	--	<LOD	0.17 U	--	<b>290</b>	<b>184</b>	-58%	16.6%
	1.5 - 3	<LOD	1.3 U	--	<LOD	0.20 U	--	<b>9</b>	<b>5.6</b>	--	23.5%
DP-22	0 - 2	<LOD	<b>1.3</b>	--	<LOD	0.16 U	--	<LOD	<b>4.9</b>	--	12.6%
	2 - 4	<LOD	1.3 U	--	<LOD	0.19 U	--	<b>19</b>	<b>10.7</b>	-78%	24.1%
DP-23	0 - 1.5	<LOD	<b>2.3</b>	--	<LOD	<b>0.51</b>	--	<b>51</b>	<b>71.1</b>	28%	21.0%
	1.5 - 3	<LOD	6.3 U	--	<LOD	<b>1.40</b>	--	<b>27</b>	<b>91.8</b>	71%	23.0%
DP-24	0 - 1.5	<LOD	<b>1.6</b>	--	<LOD	<b>0.46</b>	--	<b>145</b>	<b>37</b>	-292%	16.4%
	1.5 - 3	<LOD	<b>1.2</b>	--	<LOD	0.17 U	--	<LOD	<b>79.4</b>	--	17.3%
DP-25	0 - 2	<LOD	<b>1.3</b>	--	<LOD	0.18 U	--	<b>26</b>	<b>8.1</b>	-221%	21.9%
	3 - 5	<LOD	1.3 U	--	<LOD	0.19 U	--	<LOD	<b>2.4</b>	--	23.9%
DP-26	0 - 1.5	<LOD	<b>1.4</b>	--	<LOD	<b>0.18</b>	--	<b>151</b>	<b>1,600</b>	91%	17.1%
	1.5 - 3	<LOD	1.1 U	--	<LOD	0.17 U	--	<b>29</b>	<b>3.9</b>	-644%	20.9%
DP-27	0 - 2	<LOD	<b>1.6</b>	--	<LOD	<b>0.40</b>	--	<b>9</b>	<b>38.4</b>	77%	23.0%
	2 - 4	<LOD	1.3 U	--	<LOD	0.19 U	--	<b>10</b>	<b>19.3</b>	48%	25.3%
DP-28	0 - 2	<LOD	<b>1.4</b>	--	<LOD	<b>0.24</b>	--	<b>11</b>	<b>22</b>	50%	21.6%
	2 - 4	<LOD	<b>1.3</b> U	--	<LOD	<b>0.19</b> U	--	<LOD	<b>4.1</b>	--	24.1%



Sample Location	Depth (feet)	Arsenic (mg/kg)		Percent Difference	Cadmium (mg/kg)		Percent Difference	Lead (mg/kg)		Percent Difference	Moisture Percent
		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		
TP-1	2	<LOD	1.7 J	--	<LOD	0.89 U	--	<LOD	9.3	--	17.0%
	5	<LOD	1.3	--	<LOD	0.076 J	--	<LOD	10.2	--	17.5%
TP-2	3	<LOD	1.0 J	--	<LOD	0.13 J	--	<LOD	19.6	--	5.9%
	6	<LOD	1.0 J	--	<LOD	0.067 J	--	<LOD	6.8	--	7.6%
TP-3	3	<LOD	1.4	--	<LOD	0.14 J	--	<LOD	29.7	--	16.1%
	6	<LOD	1.0	--	<LOD	0.023 J	--	<LOD	3.5	--	7.8%
TP-4	3	<LOD	1.9	--	<LOD	0.078 J	--	14	13.1	-7%	21.3%
	6	<LOD	1.0	--	<LOD	0.16 U	--	<LOD	2.7	--	6.8%
TP-5	3	<LOD	1.3	--	<LOD	0.077 J	--	18	21.2	15%	13.2%
	6	<LOD	1.1 J	--	<LOD	0.16 U	--	<LOD	3.6	--	9.6%
TP-6	2	<LOD	2.0	--	<LOD	0.13 J	--	30	21.4	-40%	20.1%
	5	<LOD	1.2	--	<LOD	0.068 J	--	23	9.6	-140%	12.1%
TP-7	2	<LOD	2.2	--	<LOD	0.23	--	170	45.4	-274%	36.7%
	5	<LOD	0.8 J	--	<LOD	0.024 J	--	28	34	18%	9.4%
TP-8	7	<LOD	1.1 J	--	<LOD	0.047 J	--	<LOD	6.6	--	8.6%
TP-9	6	<LOD	1.1 J	--	<LOD	0.085 J	--	<LOD	2.7	--	32.8%
	8	<LOD	1.1 J	--	<LOD	0.033 J	--	<LOD	3.4	--	38.9%
TP-10	3	127.3	7.6	-1575%	<LOD	0.077 J	--	<LOD	3.9	--	16.9%
	6	<LOD	1.5	--	<LOD	0.039 J	--	<LOD	2.9	--	9.4%
TP-11	3	<LOD	1.7	--	<LOD	0.10 J	--	22	17.7	-24%	21.5%
	6	<LOD	6.1 U	--	<LOD	0.92 U	--	<LOD	6.2	--	21.2%
TP-12	2	<LOD	2.8	--	<LOD	0.28	--	27	88.9	70%	19.2%
	5	4.8	1.6	-200%	<LOD	0.058 J	--	<LOD	77.0	--	28.5%
TP-13	2	<LOD	1.3 J	--	<LOD	0.91 U	--	10	6.0	-67%	21.1%
	5	<LOD	1.8 J	--	<LOD	0.81 U	--	<LOD	4.8	--	13.0%
TP-14	3	4.9	1.7	-188%	<LOD	0.037 J	--	<LOD	3.0	--	19.9%
	6	<LOD	1.2 J	--	<LOD	0.20 U	--	<LOD	3.4	--	26.2%
TP-15	3	<LOD	1.2 J	--	<LOD	0.023 J	--	<LOD	3.6	--	20.7%
	8	<LOD	1.6	--	<LOD	0.078 J	--	6	3.6	-67%	20.3%
TP-16	2	5.5	1.2	-358%	<LOD	0.10 J	--	7.7	21.3	64%	14.7%
	8	<LOD	2.2	--	<LOD	0.029 J	--	8.5	3.8	-124%	18.4%
TP-17	3	<LOD	1.4	--	<LOD	0.048 J	--	<LOD	3.3	--	21.2%
	6	6.5	3.4 J	-91%	<LOD	0.82 U	--	<LOD	6.6	--	14.8%
TP-18	3	<LOD	1.4	--	<LOD	0.064 J	--	12	6.6	-82%	22.9%
	6	6.7	7.8	14%	<LOD	0.83 U	--	<LOD	5.5	--	18.3%

Sample Location	Depth (feet)	Arsenic (mg/kg)		Percent Difference	Cadmium (mg/kg)		Percent Difference	Lead (mg/kg)		Percent Difference	Moisture Percent
		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		XRF <sup>1</sup>	Laboratory <sup>2</sup>		
TP-19	2	<LOD	<b>1.5</b>	--	<LOD	<b>0.12 J</b>	--	<b>24</b>	<b>14.6</b>	-64%	17.8%
	5	<LOD	<b>1.4 J</b>	--	<LOD	<b>0.030 J</b>	--	<LOD	<b>3.3</b>	--	38.0%
	8	<LOD	<b>0.4 J</b>	--	<LOD	0.21 U	--	<LOD	<b>2.5</b>	--	30.7%
MW-1	2 - 3.5	<LOD	6.3 U	--	<LOD	<b>0.16 J</b>	--	<LOD	<b>3.3</b>	--	24.9%
	15 - 16	<LOD	<b>2.1 J</b>	--	<LOD	0.83 U	--	<LOD	<b>5.3</b>	--	13.0%
MW-2	2.5 - 4	<LOD	7.2 U	--	<LOD	<b>0.17 J</b>	--	<LOD	<b>16.0</b>	--	32.9%
MW-3	7 - 8.5	<LOD	<b>1.3 J</b>	--	<LOD	<b>0.83 U</b>	--	<LOD	<b>3.5</b>	--	14.3%
MH-4	3 - 4.5	<b>5.9</b>	<b>5.6 J</b>	-5%	<LOD	0.87 U	--	<b>7.0</b>	<b>6.7</b>	-4%	21.3%
	7 - 8.5	<b>52</b>	7.5 U	--	<LOD	1.1 U	--	<b>373</b>	<b>499</b>	25%	36.8%
MTCA Method A Cleanup Level <sup>3</sup>		20			2			250			NE
Spokane Basin Background Metal Concentration <sup>4</sup>		9.34			0.7			14.9			NE

**Notes:**

<sup>1</sup>Samples analyzed in the field using a Thermo Scientific Niton XL2 GOLDD XRF Analyzer

<sup>2</sup>Samples analyzed by TestAmerica Laboratories in Spokane Valley, Washington.

<sup>3</sup>Model Toxics Control Act (MTCA) Method A unrestricted land use cleanup levels (CUL).

<sup>4</sup>Background level used for metals in soil is the Washington State Department of Ecology (Ecology) Natural Background 90th percentile value for the Spokane basin (Ecology 1994).

**Bold** indicates analyte was detected.

**Bold** and gray shading indicates the analyte was detected above the MTCA Method A CUL.

Blue shading indicates that moisture content was greater than 25 percent.

<LOD = less than level of detection; mg/kg = milligrams per kilogram; J = estimated result; U = analyte was not detected above the reporting limit; NE = Not Established

**Table 6**  
**Summary of Groundwater Chemical Analytical Results<sup>1</sup>**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

Method	Analyte	Groundwater Cleanup Level <sup>2,3,4</sup>	Units	Location ID		MW-1		MW-2		MW-3		MW-4		MW-4		MW-4					
				Sample ID	Sample Date	MW-1:120618	12/6/2018	MW-1:030819	3/8/2019	MW-2:120618	12/6/2018	MW-2:030819	3/8/2019	MW-3:120618	12/6/2018	MW-3:030819	3/8/2019	MW-4:120618	12/6/2018	DUP:120618	12/6/2018
NWTPH-GX <sup>5</sup>	Gasoline-range hydrocarbons	0.80/1 <sup>10</sup>	mg/L	0.0196	U	--		0.0196	U	--		0.0196	U	--		0.0196	U	0.0196	U	--	
NWTPH-DX <sup>5</sup>	Diesel-range hydrocarbons	0.5	mg/L	0.054	U	--		0.054	U	--		0.056	U	--		0.056	U	0.056	U	--	
	Motor oil-range organics	0.5	mg/L	0.18	U	--		0.18	U	--		0.18	U	--		0.18	U	0.18	U	--	
Total Metals <sup>6</sup>	Antimony	0.0064	mg/L	--		0.00011	U	--		<b>0.00012</b>	<b>J</b>	--		0.00011	U	--		--		0.00011	U
	Arsenic	0.005	mg/L	--		<b>0.00024</b>	<b>J</b>	--		<b>0.00026</b>	<b>J</b>	--		<b>0.00034</b>	<b>J</b>	--		--		<b>0.0013</b>	
	Beryllium	0.032	mg/L	--		0.000071	U	--		0.000071	U	--		0.000071	U	--		--		0.000071	U
	Cadmium	0.005	mg/L	--		0.0012	U	--		0.0012	U	--		0.0012	U	--		--		0.0012	U
	Chromium	0.05	mg/L	--		0.0017	U	--		0.0017	U	--		0.0017	U	--		--		0.0017	U
	Copper	0.64	mg/L	--		0.0034	U	--		0.0034	U	--		0.0034	U	--		--		0.0034	U
	Lead	0.015	mg/L	--		0.0051	U	--		0.0051	U	--		0.0051	U	--		--		0.0051	U
	Mercury	2	µg/L	--		0.090	U	--		0.090	U	--		0.090	U	--		--		0.090	U
	Nickel	0.32	mg/L	--		0.0044	U	--		0.0044	U	--		0.0044	U	--		--		0.0044	U
	Selenium	0.08	mg/L	--		0.049	U	--		0.049	U	--		0.049	U	--		--		0.049	U
	Silver	0.08	mg/L	--		0.0025	U	--		0.0025	U	--		0.0025	U	--		--		0.0025	U
	Thallium	0.00016	mg/L	--		0.000065	U	--		0.000065	U	--		0.000065	U	--		--		0.000065	U
Zinc	4.8	mg/L	--		0.021	U	--		0.021	U	--		0.021	U	--		--		0.021	U	
Dissolved Metals <sup>6</sup>	Antimony	0.0064	mg/L	--		0.00011	U	--		<b>0.00013</b>	<b>J</b>	--		0.00011	U	--		--		0.00011	U
	Arsenic	0.005	mg/L	--		<b>0.00027</b>	<b>J</b>	--		<b>0.00020</b>	<b>J</b>	--		<b>0.00031</b>	<b>J</b>	--		--		<b>0.00099</b>	<b>J</b>
	Beryllium	0.032	mg/L	--		0.000071	U	--		0.000071	U	--		0.000071	U	--		--		0.000071	U
	Cadmium	0.005	mg/L	--		0.0012	U	--		0.0012	U	--		0.0012	U	--		--		0.0012	U
	Chromium	0.05	mg/L	--		0.0017	U	--		0.0017	U	--		0.0017	U	--		--		0.0017	U
	Copper	0.64	mg/L	--		0.0034	U	--		0.0034	U	--		0.0034	U	--		--		0.0034	U
	Lead	0.015	mg/L	--		0.0051	U	--		0.0051	U	--		0.0051	U	--		--		0.0051	U
	Mercury	2	µg/L	--		0.090	U	--		0.090	U	--		0.090	U	--		--		0.090	U
	Nickel	0.32	mg/L	--		0.0044	U	--		0.0044	U	--		0.0044	U	--		--		0.0044	U
	Selenium	0.08	mg/L	--		0.049	U	--		0.049	U	--		0.049	U	--		--		0.049	U
	Silver	0.08	mg/L	--		0.0025	U	--		0.0025	U	--		0.0025	U	--		--		0.0025	U
	Thallium	0.00016	mg/L	--		0.000065	U	--		0.000065	U	--		0.000065	U	--		--		0.000065	U
Zinc	4.8	mg/L	--		0.021	U	--		0.021	U	--		0.021	U	--		--		0.021	U	
PCB Aroclors <sup>7</sup>	PCB-Aroclor 1016	0.1	µg/L	0.041	U	--		0.040	U	--		0.040	U	--		0.041	U	0.041	U	--	
	PCB-Aroclor 1221		µg/L	0.042	U	--		0.041	U	--		0.041	U	--		0.042	U	0.042	U	--	
	PCB-Aroclor 1232		µg/L	0.035	U	--		0.035	U	--		0.035	U	--		0.036	U	0.035	U	--	
	PCB-Aroclor 1242		µg/L	0.036	U	--		0.036	U	--		0.036	U	--		0.037	U	0.036	U	--	
	PCB-Aroclor 1248		µg/L	0.039	U	--		0.039	U	--		0.039	U	--		0.040	U	0.039	U	--	
	PCB-Aroclor 1254		µg/L	0.041	U	--		0.041	U	--		0.041	U	--		0.041	U	0.041	U	--	
	PCB-Aroclor 1260		µg/L	0.034	U	--		0.034	U	--		0.034	U	--		0.035	U	0.034	U	--	
	Total PCB Aroclors		µg/L	0.042	U	--		0.041	U	--		0.041	U	--		0.042	U	0.042	U	--	

Method	Analyte	Groundwater Cleanup Level <sup>2,3,4</sup>	Units	Location ID		MW-1		MW-2		MW-3		MW-4		MW-4		MW-4	
				Sample ID	Sample Date	MW-1:120618	MW-1:030819	MW-2:120618	MW-2:030819	MW-3:120618	MW-3:030819	MW-4:120618	DUP:120618	MW-4:030819			
VOCs <sup>8</sup>	1,1,1,2-Tetrachloroethane	1.68	µg/L	0.20	U	--	0.20	U	--	0.20	U	--	0.20	U	0.20	U	--
	1,1,1-Trichloroethane	200	µg/L	0.14	U	--	0.14	U	--	0.14	U	--	0.14	U	0.14	U	--
	1,1,2,2-Tetrachloroethane	0.219	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--
	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	240,000	µg/L	0.47	U	--	0.47	U	--	0.47	U	--	0.47	U	0.47	U	--
	1,1,2-Trichloroethane	0.768	µg/L	0.18	U	--	0.18	U	--	0.18	U	--	0.18	U	0.18	U	--
	1,1-Dichloroethane	7.68	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--
	1,1-Dichloroethene	400	µg/L	0.16	U	--	0.16	U	--	0.16	U	--	0.16	U	0.16	U	--
	1,1-Dichloropropene	NE	µg/L	0.20	U	--	0.20	U	--	0.20	U	--	0.20	U	0.20	U	--
	1,2,3-Trichlorobenzene	NE	µg/L	0.21	U	--	0.21	U	--	0.21	U	--	0.21	U	0.21	U	--
	1,2,3-Trichloropropane	0.00146	µg/L	0.26	U	--	0.26	U	--	0.26	U	--	0.26	U	0.26	U	--
	1,2,4-Trichlorobenzene	1.51	µg/L	0.20	U	--	0.20	U	--	0.20	U	--	0.20	U	0.20	U	--
	1,2,4-Trimethylbenzene	NE	µg/L	0.20	U	--	0.20	U	--	0.20	U	--	0.20	U	0.20	U	--
	1,2-Dibromo-3-Chloropropane	0.0547	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.7	U	--
	1,2-Dibromoethane	0.01	µg/L	0.0046	UJ	--	0.0045	UJ	--	0.0045	UJ	--	0.0045	UJ	0.0045	UJ	--
	1,2-Dichlorobenzene (o-Dichlorobenzene)	720	µg/L	0.14	U	--	0.14	U	--	0.14	U	--	0.14	U	0.14	U	--
	1,2-Dichloroethane	5	µg/L	0.22	U	--	0.22	U	--	0.22	U	--	0.22	U	0.22	U	--
	1,2-Dichloropropane	1.22	µg/L	0.16	U	--	0.16	U	--	0.16	U	--	0.16	U	0.16	U	--
	1,3,5-Trimethylbenzene	80	µg/L	0.12	U	--	0.12	U	--	0.12	U	--	0.12	U	0.12	U	--
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/L	0.16	U	--	0.16	U	--	0.16	U	--	0.16	U	0.16	U	--
	1,3-Dichloropropane	NE	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--
	1,4-Dichlorobenzene (p-Dichlorobenzene)	8.10	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--
	2,2-Dichloropropane	NE	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--
	2-Butanone (MEK)	4,800	µg/L	0.99	U	--	0.99	U	--	0.99	U	--	0.99	U	0.99	U	--
	2-Chlorotoluene	160	µg/L	0.16	U	--	0.16	U	--	0.16	U	--	0.16	U	0.16	U	--
	4-Chlorotoluene	NE	µg/L	0.13	U	--	0.13	U	--	0.13	U	--	0.13	U	0.13	U	--
	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	640	µg/L	0.42	U	--	0.42	U	--	0.42	U	--	0.42	U	0.42	U	--
	Acetone	7,200	µg/L	9.2	U	--	9.2	U	--	9.2	U	--	9.2	U	9.2	U	--
	Allyl Chloride (3-Chloropropene)	2.08	µg/L	0.29	U	--	0.29	U	--	0.29	U	--	0.29	U	0.29	U	--
	Benzene	5	µg/L	0.10	U	--	0.10	U	--	0.10	U	--	0.10	U	0.10	U	--
	Bromobenzene	NE	µg/L	0.21	U	--	0.21	U	--	0.21	U	--	0.21	U	0.21	U	--
	Bromochloromethane	NE	µg/L	0.27	U	--	0.27	U	--	0.27	U	--	0.27	U	0.27	U	--
	Bromodichloromethane	0.706	µg/L	0.22	U	--	0.22	U	--	0.22	U	--	0.22	U	0.22	U	--
	Bromoform (Tribromomethane)	5.54	µg/L	0.80	U	--	0.80	U	--	0.80	U	--	0.80	U	0.80	U	--
Bromomethane	11.2	µg/L	1.8	U	--	1.8	U	--	1.8	U	--	1.8	U	1.8	U	--	
Carbon Tetrachloride	0.625	µg/L	0.19	U	--	0.19	U	--	0.19	U	--	0.19	U	0.19	U	--	
Chlorobenzene	160	µg/L	0.17	U	--	0.17	U	--	0.17	U	--	0.17	U	0.17	U	--	
Chloroethane	NE	µg/L	0.49	U	--	0.49	U	--	0.49	U	--	0.49	U	0.49	U	--	
Chloroform	1.41	µg/L	0.45	U	--	0.45	U	--	0.45	U	--	0.45	U	0.45	U	--	
Chloromethane	NE	µg/L	0.16	U	--	0.16	U	--	0.16	U	--	0.16	U	0.16	U	--	
cis-1,2-Dichloroethene	16	µg/L	0.15	U	--	0.15	U	--	0.15	U	--	0.15	U	0.15	U	--	
cis-1,3-Dichloropropene	NE	µg/L	0.20	U	--	0.20	U	--	0.20	U	--	0.20	U	0.20	U	--	
Dibromochloromethane	0.521	µg/L	0.46	U	--	0.46	U	--	0.46	U	--	0.46	U	0.46	U	--	
Dibromomethane	80	µg/L	0.39	U	--	0.39	U	--	0.39	U	--	0.39	U	0.39	U	--	
Dichlorodifluoromethane (CFC-12)	1,600	µg/L	0.23	U	--	0.23	U	--	0.23	U	--	0.23	U	0.23	U	--	
Ethyl Ether	1,600	µg/L	0.095	U	--	0.095	U	--	0.095	U	--	0.095	U	0.095	U	--	
Ethylbenzene	700	µg/L	0.14	U	--	0.14	U	--	0.14	U	--	0.14	U	0.14	U	--	

Method	Analyte	Groundwater Cleanup Level <sup>2,3,4</sup>	Units	Location ID		MW-1		MW-2		MW-3		MW-4		MW-4		MW-4	
				Sample ID	Sample Date	MW-1:120618	MW-1-030819	MW-2:120618	MW-2-030819	MW-3:120618	MW-3-030819	MW-4:120618	DUP:120618	MW-4-030819			
VOCs <sup>8</sup>	Hexachlorobutadiene	0.561	µg/L	0.31	U	--		0.31	U	--		0.31	U	0.31	U	--	
	Isopropylbenzene (Cumene)	800	µg/L	0.18	U	--		0.18	U	--		0.18	U	0.18	U	--	
	Methyl t-butyl ether	20	µg/L	0.16	U	--		0.16	U	--		0.16	U	0.16	U	--	
	Methylene Chloride	5	µg/L	0.98	U	--		0.98	U	--		0.98	U	0.98	U	--	
	Naphthalene	160	µg/L	0.48	U	--		0.48	U	--		0.48	U	0.48	U	--	
	n-Butylbenzene	400	µg/L	0.24	U	--		0.24	U	--		0.24	U	0.24	U	--	
	n-Propylbenzene	800	µg/L	0.10	U	--		0.10	U	--		0.10	U	0.10	U	--	
	p-Isopropyltoluene	NE	µg/L	0.15	U	--		0.15	U	--		0.15	U	0.15	U	--	
	Sec-Butylbenzene	800	µg/L	0.15	U	--		0.15	U	--		0.15	U	0.15	U	--	
	Styrene	1,600	µg/L	0.19	U	--		0.19	U	--		0.19	U	0.19	U	--	
	Tert-Butylbenzene	800	µg/L	0.15	U	--		0.15	U	--		0.15	U	0.15	U	--	
	Tetrachloroethene	5	µg/L	<b>0.36</b>	<b>J</b>	--		0.17	U	--		0.17	U	0.17	U	--	
	Tetrahydrofuran	NE	µg/L	2.2	U	--		2.2	U	--		2.2	U	2.2	U	--	
	Toluene	1,000	µg/L	0.083	U	--		0.083	U	--		0.083	U	0.083	U	--	
	Total Xylenes	1,000	µg/L	0.31	U	--		0.31	U	--		0.31	U	0.31	U	--	
	trans-1,2-Dichloroethene	160	µg/L	0.24	U	--		0.24	U	--		0.24	U	0.24	U	--	
	trans-1,3-Dichloropropene	NE	µg/L	0.18	U	--		0.18	U	--		0.18	U	0.18	U	--	
	Trichloroethene	5	µg/L	0.15	U	--		0.15	U	--		0.15	U	0.15	U	--	
	Trichlorofluoromethane (CFC-11)	2,400	µg/L	0.23	U	--		0.23	U	--		0.23	U	0.23	U	--	
Vinyl Chloride	0.2	µg/L	0.092	U	--		0.092	U	--		0.092	U	0.092	U	--		
SVOCs <sup>9</sup>	1,2,4-Trichlorobenzene	1.51	µg/L	0.76	U	--		0.76	U	--		0.76	U	0.78	U	--	
	1,2-Dichlorobenzene (o-Dichlorobenzene)	720	µg/L	0.91	U	--		0.91	U	--		0.91	U	0.93	U	--	
	1,2-Diphenylhydrazine	0.109	µg/L	1.7	U	--		1.7	U	--		1.7	U	1.7	U	--	
	1,3-Dichlorobenzene (m-Dichlorobenzene)	NE	µg/L	0.66	U	--		0.66	U	--		0.66	U	0.67	U	--	
	1,4-Dichlorobenzene (p-Dichlorobenzene)	8.1	µg/L	0.92	U	--		0.92	U	--		0.92	U	0.95	U	--	
	1-Methylnaphthalene	160	µg/L	1.0	U	--		1.0	U	--		1.0	U	1.1	U	--	
	2,2'-Oxybis[1-chloropropane]	0.625	µg/L	1.8	U	--		1.8	U	--		1.8	U	1.9	U	--	
	2,4,5-Trichlorophenol	800	µg/L	1.1	U	--		1.1	U	--		1.1	U	1.2	U	--	
	2,4,6-Trichlorophenol	3.98	µg/L	1.4	U	--		1.4	U	--		1.4	U	1.4	U	--	
	2,4-Dichlorophenol	24	µg/L	1.2	U	--		1.2	U	--		1.2	U	1.3	U	--	
	2,4-Dimethylphenol	160	µg/L	2.0	U	--		2.0	U	--		2.0	U	2.1	U	--	
	2,4-Dinitrophenol	32	µg/L	2.3	U	--		2.3	U	--		2.3	U	2.3	U	--	
	2,4-Dinitrotoluene	0.282	µg/L	1.0	U	--		1.0	U	--		1.0	U	1.1	U	--	
	2,6-Dinitrotoluene	0.0583	µg/L	1.2	U	--		1.2	U	--		1.2	U	1.2	U	--	
	2-Chloronaphthalene	640	µg/L	0.93	U	--		0.93	U	--		0.93	U	0.95	U	--	
	2-Chlorophenol	40	µg/L	1.3	U	--		1.3	U	--		1.3	U	1.3	U	--	
	2-Methylnaphthalene	160	µg/L	1.1	U	--		1.1	U	--		1.1	U	1.1	U	--	
	2-methylphenol (o-Cresol)	400	µg/L	1.5	U	--		1.5	U	--		1.5	U	1.5	U	--	
	2-Nitroaniline	160	µg/L	1.6	U	--		1.6	U	--		1.6	U	1.6	U	--	
2-Nitrophenol	NE	µg/L	1.5	U	--		1.5	U	--		1.5	U	1.5	U	--		

Method	Analyte	Groundwater Cleanup Level <sup>2,3,4</sup>	Units	Location ID		MW-1		MW-2		MW-3		MW-4		MW-4		MW-4	
				Sample ID	Sample Date	MW-1:120618	MW-1:030819	MW-2:120618	MW-2:030819	MW-3:120618	MW-3:030819	MW-4:120618	DUP:120618	MW-4:030819			
SVOCs <sup>9</sup>	3 & 4 Methylphenol	NE	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.8	U	--
	3,3'-Dichlorobenzidine	0.194	µg/L	2.0	U	--	2.0	U	--	2.0	U	--	2.0	U	2.0	U	--
	3-Nitroaniline	NE	µg/L	2.9	U	--	2.9	U	--	2.9	U	--	2.9	U	2.9	U	--
	4,6-Dinitro-2-Methylphenol	NE	µg/L	2.8	U	--	2.8	U	--	2.8	U	--	2.8	U	2.8	U	--
	4-Bromophenyl phenyl ether	NE	µg/L	1.3	U	--	1.3	U	--	1.3	U	--	1.3	U	1.3	U	--
	4-Chloro-3-Methylphenol	NE	µg/L	1.2	U	--	1.2	U	--	1.2	U	--	1.2	U	1.3	U	--
	4-Chloroaniline	0.219	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.8	U	--
	4-Chlorophenyl-Phenylether	NE	µg/L	0.92	U	--	0.92	U	--	0.92	U	--	0.92	U	0.94	U	--
	4-Nitroaniline	NE	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.7	U	--
	4-Nitrophenol (p-Nitrophenol)	NE	µg/L	3.9	U	--	3.9	U	--	3.9	U	--	3.9	U	4.0	U	--
	Acenaphthene	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Acenaphthylene	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Anthracene	NE	µg/L	1.5	U	--	1.5	U	--	1.5	U	--	1.5	U	1.5	U	--
	Benzo(a)anthracene	NE	µg/L	0.92	U	--	0.92	U	--	0.92	U	--	0.92	U	0.95	U	--
	Benzo(a)pyrene	0.1	µg/L	0.82	U	--	0.82	U	--	0.82	U	--	0.82	U	0.84	U	--
	Benzo(b)fluoranthene	NE	µg/L	0.94	U	--	0.94	U	--	0.94	U	--	0.94	U	0.96	U	--
	Benzo(g,h,i)perylene	NE	µg/L	1.1	U	--	1.1	U	--	1.1	U	--	1.1	U	1.1	U	--
	Benzo(k)fluoranthene	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Bis(2-Chloroethoxy)Methane	NE	µg/L	1.3	U	--	1.3	U	--	1.3	U	--	1.3	U	1.4	U	--
	Bis(2-Chloroethyl)Ether	0.0398	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.5	U	--
	Bis(2-Ethylhexyl) Phthalate	6.25	µg/L	4.1	U	--	4.1	U	--	6.7	J	--	4.1	U	4.2	U	--
	Butyl benzyl Phthalate	46.1	µg/L	1.6	U	--	1.6	U	--	1.6	U	--	1.6	U	1.6	U	--
	Carbazole	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Chrysene	NE	µg/L	0.94	U	--	0.94	U	--	0.94	U	--	0.94	U	0.96	U	--
	Dibenzo(a,h)anthracene	NE	µg/L	1.2	U	--	1.2	U	--	1.2	U	--	1.2	U	1.2	U	--
	Dibenzofuran	16	µg/L	1.3	U	--	1.3	U	--	1.3	U	--	1.3	U	1.4	U	--
	Dibutyl Phthalate	1,600	µg/L	2.9	U	--	2.9	U	--	2.9	U	--	2.9	U	3.0	U	--
	Diethyl Phthalate	12,800	µg/L	1.6	U	--	1.6	U	--	2.3	J	--	1.6	U	1.6	U	--
	Dimethyl Phthalate	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Di-N-Octyl Phthalate	160	µg/L	1.9	U	--	1.9	U	--	1.9	U	--	1.9	U	1.9	U	--
	Fluoranthene	NE	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.8	U	--
Fluorene	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--	
Hexachlorobenzene	0.0547	µg/L	1.2	U	--	1.2	U	--	1.2	U	--	1.2	U	1.2	U	--	
Hexachlorobutadiene	0.561	µg/L	0.64	U	--	0.64	U	--	0.64	U	--	0.64	U	0.66	U	--	
Hexachloroethane	1.09	µg/L	1.2	U	--	1.2	U	--	1.2	U	--	1.2	U	1.2	U	--	
Indeno(1,2,3-c,d)pyrene	NE	µg/L	1.0	U	--	1.0	U	--	1.0	U	--	1.0	U	1.1	U	--	
Isophorone	46.1	µg/L	1.5	U	--	1.5	U	--	1.5	U	--	1.5	U	1.5	U	--	
Naphthalene	160	µg/L	1.1	U	--	1.1	U	--	1.1	U	--	1.1	U	1.1	U	--	
Nitrobenzene	16	µg/L	1.5	U	--	1.5	U	--	1.5	U	--	1.5	U	1.6	U	--	
N-Nitrosodimethylamine	0.000858	µg/L	1.0	U	--	1.0	U	--	1.0	U	--	1.0	U	1.1	U	--	
N-Nitrosodi-n-propylamine	0.0125	µg/L	1.4	U	--	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--	
N-Nitrosodiphenylamine (as diphenylamine)	17.9	µg/L	1.7	U	--	1.7	U	--	1.7	U	--	1.7	U	1.7	U	--	

		Location ID	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	MW-4			
		Sample ID	MW-1:120618	MW-1-030819	MW-2:120618	MW-2-030819	MW-3:120618	MW-3-030819	MW-4:120618	DUP:120618	MW-4			
		Sample Date	12/6/2018	3/8/2019	12/6/2018	3/8/2019	12/6/2018	3/8/2019	12/6/2018	12/6/2018	3/8/2019			
Method	Analyte	Groundwater Cleanup Level <sup>2,3,4</sup>	Units											
SVOCs <sup>9</sup>	Pentachlorophenol	0.219	µg/L	2.8	U	--	2.8	U	--	2.8	U	2.9	U	--
	Phenanthrene	NE	µg/L	1.4	U	--	1.4	U	--	1.4	U	1.4	U	--
	Phenol	2,400	µg/L	1.2	U	--	1.2	U	--	1.2	U	1.2	U	--
	Pyrene	NE	µg/L	0.91	U	--	0.91	U	--	0.91	U	0.93	U	--
	Total cPAH TEQ (ND=DL) <sup>11, 12</sup>	0.1	µg/L	0.6877	U	--	0.6877	U	--	0.6877	U	0.7053	U	--

Notes:

<sup>1</sup>Samples analyzed by Pace Analytical Services, LLC. located in Minneapolis, Minnesota.

<sup>2</sup>Washington State Model Toxics Control Act (MTCA) Method A Groundwater Cleanup Levels (CULs).

<sup>3</sup>MTCA Method B Groundwater CULs used if Method A Groundwater CULs are NE. The MTCA Method B CUL shown is the lowest for either carcinogen or non-carcinogen.

<sup>4</sup>Federal Drinking Water Cleanup Level used if MTCA Method A Groundwater CULs and MTCA Method B Groundwater CULs are NE.

<sup>5</sup>Gasoline, Diesel and Oil-Range Petroleum Hydrocarbons (GRPH, DRPH, ORPH) analyzed using Northwest Methods NWTPH-Gx and NWTPH-Dx.

<sup>6</sup>Total and dissolved cadmium, chromium, copper, lead, nickel, selenium, silver and zinc analyzed using EPA Method 200.7 Rev 4.4. Total and dissolved antimony, arsenic, beryllium, and thallium analyzed using EPA Method 200.8. Total and dissolved mercury analyzed using EPA Method 245.1.

<sup>7</sup>Polychlorinated biphenyls (PCBs) analyzed using EPA Method 8082A.

<sup>8</sup>Volatile organic compounds (VOCs) analyzed using EPA Method 8260B.

<sup>9</sup>Semivolatile organic compounds (SVOCs) analyzed using EPA Method 8270D.

<sup>10</sup>The gasoline-range hydrocarbon cleanup level is 1 mg/L unless benzene is present, in which case the cleanup level is 0.8 mg/L.

<sup>11</sup>Carcinogenic PAH (cPAH) toxic equivalency (TEQ) calculated using toxic equivalency factors (TEF) from MTCA Table 708-2, based on methodology described in MTCA Cleanup Regulation Washington Administrative Code (WAC) 173-340-708.

<sup>12</sup>The TEQ reported was calculated using half the laboratory method detection limits for cPAHs that were reported as non-detected (ND).

NE = not established; mg/L = milligrams per liter; µg/L = micrograms per liter;

U = analyte was not detected greater than the method detection limit;

J = estimated result;

UJ = analyte was not detected greater than the method detection limit and is considered an estimated result.

**Bold** indicates that the analyte was detected greater than the laboratory method detection limit.

**Bold** and shading indicates analyte was detected above the applicable cleanup level concentration.

**Beige** shading indicates analyte was not detected above the method detection limit, but the method detection limit was greater than or equal to the referenced cleanup level.

**Table 7**  
**Chemical Summary Statistics**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

Analyte	Screening Level (mg/kg)	Sample Number	Detection Frequency (%)	Frequency of SL Exceedance by Reporting Limit	Maximum Concentration	Frequency Exceeding Screening Level (%)	Maximum Exceedance Ratio
1,1,1,2-Tetrachloroethane	38.5	96	0%	0%	--		--
1,1,1-Trichloroethane	2	96	0%	0%	--		--
1,1,2,2-Tetrachloroethane	5	96	0%	0%	--		--
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	2400000	96	0%	0%	--		--
1,1,2-Trichloroethane	17.5	96	0%	0%	--		--
1,1-Dichloroethane	175	96	0%	0%	--		--
1,1-Dichloroethene	4000	96	0%	0%	--		--
1,2,3-Trichloropropane	0.0333	96	0%	100%	--		--
1,2,4-Trichlorobenzene	34.5	140	0%	0%	--		--
1,2-Dibromo-3-Chloropropane	1.25	96	0%	0%	--		--
1,2-Dibromoethane	0.005	100	0%	33%	--		--
1,2-Dichlorobenzene (o-Dichlorobenzene)	7200	140	0%	0%	--		--
1,2-Dichloroethane	11	96	1%	0%	0.0093	0%	0.00085
1,2-Dichloropropane	27.8	96	0%	0%	--		--
1,2-Diphenylhydrazine	1.25	44	0%	2.3%	--		--
1,3,5-Trimethylbenzene	800	96	0%	0%	--		--
1,4-Dichlorobenzene (p-Dichlorobenzene)	185	140	0%	0%	--		--
1-Methylnaphthalene	5	100	5%	1%	0.0063	0%	0.0013
2,2'-Oxybis[1-chloropropane]	14.3	44	0%	0%	--		--
2,4,5-Trichlorophenol	8000	44	0%	0%	--		--
2,4,6-Trichlorophenol	80	44	0%	0%	--		--
2,4-Dichlorophenol	240	44	0%	0%	--		--
2,4-Dimethylphenol	1600	44	0%	0%	--		--
2,4-Dinitrophenol	160	44	0%	0%	--		--
2,4-Dinitrotoluene	3.23	44	0%	2.3%	--		--
2,6-Dinitrotoluene	0.667	44	0%	2.3%	--		--
2-Butanone (MEK)	48000	96	0%	0%	--		--
2-Chloronaphthalene	6400	44	0%	0%	--		--
2-Chlorophenol	400	44	0%	0%	--		--



Analyte	Screening Level (mg/kg)	Sample Number	Detection Frequency (%)	Frequency of SL Exceedance by Reporting Limit	Maximum Concentration	Frequency Exceeding Screening Level (%)	Maximum Exceedance Ratio
2-Chlorotoluene	1600	96	0%	0%	--		--
2-Methylnaphthalene	5	100	7%	1%	0.0044	0%	0.00088
2-methylphenol (o-Cresol)	4000	44	0%	0%	--		--
2-Nitroaniline	800	44	0%	0%	--		--
3,3'-Dichlorobenzidine	2.22	44	0%	2.3%	--		--
4,4'-DDD	4.17	44	13.6%	0%	0.0555	0%	0.0133
4,4'-DDE	2.94	44	52.3%	0%	0.318	0%	0.108
4,4'-DDT	3	44	36.4%	0%	0.0453	0%	0.0151
4-Chloroaniline	5	44	0%	2.3%	--		--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	6400	96	0%	0%	--		--
Acetone	72000	96	28.1%	0%	1.59	0%	0.0000221
Aldrin	0.0588	44	4.5%	0%	0.0011	0%	0.019
Allyl Chloride (3-Chloropropene)	47.6	96	0%	0%	--		--
Alpha-BHC	0.159	44	4.5%	0%	0.0025	0%	0.016
Antimony	32	100	3%	0%	7.6	0%	0.24
Arsenic	20	100	95%	0%	7.8	0%	0.39
Benzene	0.03	96	11.5%	38.5%	0.0126	0%	0.420
Benzo(a)pyrene	0.03	100	43%	32%	14.2	22%	473
Beryllium	25	100	61%	0%	1.2	0%	0.048
Beta-BHC	0.556	44	6.8%	0%	0.0157	0%	0.0282
Bis(2-Chloroethyl)Ether	0.909	44	0%	2.3%	--		--
Bis(2-Ethylhexyl) Phthalate	71.4	44	2.3%	0%	0.145	0%	0.00203
Bromodichloromethane	16.1	96	0%	0%	--		--
Bromoform (Tribromomethane)	127	96	0%	0%	--		--
Bromomethane	112	96	0%	0%	--		--
Butyl benzyl Phthalate	526	44	0%	0%	--		--
Cadmium	2	100	69%	0%	6.3	3%	3.2
Carbon Tetrachloride	14.3	96	0%	0%	--		--
Chlordane (Total)	2.86	44	0%	0%	--		--
Chlorobenzene	1600	96	0%	0%	--		--
Chloroform	32.3	96	0%	0%	--		--
Chromium	42	100	100%	--	163	2%	3.9
cis-1,2-Dichloroethene	160	96	0%	0%	--		--
Copper	100	100	100%	--	555	6%	5.6
Dibenzofuran	80	44	0%	0%	--		--

Analyte	Screening Level (mg/kg)	Sample Number	Detection Frequency (%)	Frequency of SL Exceedance by Reporting Limit	Maximum Concentration	Frequency Exceeding Screening Level (%)	Maximum Exceedance Ratio
Dibromochloromethane	11.9	96	0%	0%	--		--
Dibromomethane	800	96	0%	0%	--		--
Dibutyl Phthalate	8000	44	2.3%	0%	2.05	0%	0.000256
Dichlorodifluoromethane (CFC-12)	16000	96	0%	0%	--		--
Dieldrin	0.0625	44	11.4%	0%	0.0057	0%	0.091
Diesel-range hydrocarbons	460	100	40%	0%	2510	2%	5.5
Diethyl Phthalate	64000	44	0%	0%	--		--
Di-N-Octyl Phthalate	800	44	0%	0%	--		--
Endrin	24	44	0%	0%	--		--
Ethyl Ether	16000	96	0%	0%	--		--
Ethylbenzene	6	96	4.2%	0%	0.0056	0%	0.00093
Gasoline-range hydrocarbons	30	100	22%	0%	8.8	0%	0.293
Heptachlor	0.222	44	2.3%	0%	0.00058	0%	0.0026
Heptachlor Epoxide	0.11	44	18.2%	0%	0.0124	0%	0.113
Hexachlorobenzene	0.625	44	0%	2.3%	--		--
Hexachlorobutadiene	12.8	140	0%	0%	--		--
Hexachloroethane	25	44	0%	0%	--		--
Isophorone	1050	44	0%	0%	--		--
Isopropylbenzene (Cumene)	8000	96	0%	0%	--		--
Lead	220	100	100%	--	1600	6%	7.3
Lindane (Gamma-BHC)	0.01	44	0%	11.4%	--		--
Mercury	2	100	57%	0%	1	0%	0.5
Methoxychlor	400	44	4.5%	0%	0.0772	0%	0.000193
Methyl t-butyl ether	0.1	96	0%	0%	--		--
Methylene Chloride	0.02	100	2%	96%	0.0047	0%	0.235
Motor oil-range organics	2000	100	60%	0%	1670	0%	0.8350
Naphthalene	5	196	6.1%	0%	1.04	0%	0.208
n-Butylbenzene	4000	96	0%	0%	--		--
Nickel	100	100	100%	--	48.5	0%	0.485
Nitrobenzene	160	44	0%	0%	--		--
N-Nitrosodimethylamine	0.0196	44	0%	100%	--		--
N-Nitrosodi-n-propylamine	0.143	44	0%	100%	--		--
N-Nitrosodiphenylamine (as diphenylamine)	204	44	0%	0%	--		--
n-Propylbenzene	8000	96	0%	0%	--		--
PCB-Aroclor 1016	0.5	100	0%	0%	--		--

Analyte	Screening Level (mg/kg)	Sample Number	Detection Frequency (%)	Frequency of SL Exceedance by Reporting Limit	Maximum Concentration	Frequency Exceeding Screening Level (%)	Maximum Exceedance Ratio
PCB-Aroclor 1221	0.5	100	0%	0%	--		--
PCB-Aroclor 1232	0.5	100	0%	0%	--		--
PCB-Aroclor 1242	0.5	100	2%	0%	0.194	0%	0.388
PCB-Aroclor 1248	0.5	100	3%	0%	1.62	1%	3.24
PCB-Aroclor 1254	0.5	100	11%	0%	5.3	3%	10.6
PCB-Aroclor 1260	0.5	100	16%	0%	1.31	2%	2.6
Pentachlorophenol	2.5	44	0%	2.3%	--		--
Phenol	24000	44	0%	0%	--		--
Sec-Butylbenzene	8000	96	0%	0%	--		--
Selenium	0.8	100	0%	100%	--		--
Silver	400	100	11%	0%	0.71	0%	0.0018
Styrene	16000	96	1%	0%	0.826	0%	0.0000516
Tert-Butylbenzene	8000	96	0%	0%	--		--
Tetrachloroethene	0.05	96	0%	100%	--		--
Thallium	0.8	120	57%	42%	5.7	29%	7.1
Toluene	7	96	3.1%	0%	0.0317	0%	0.00453
Total cPAH TEQ (ND=0.5RL)	0.1	100	49%	31%	20.153	22%	202
Total PCB Aroclors	1	29	100%	--	5.3	10.3%	5.3
Total Xylenes	9	96	0%	0%	--		--
Toxaphene	0.909	44	6.8%	0%	0.183	0%	0.201
Trans-1,2-Dichloroethene	1600	96	0%	0%	--		--
Trichloroethene	0.03	96	0%	100%	--		--
Trichlorofluoromethane (CFC-11)	24000	96	0%	0%	--		--
Vinyl Chloride	240	96	0%	0%	--		--
Zinc	270	100	100%	--	1690	5%	6.3

**Table 8**  
**Summary of Quantities Used in Feasibility Study**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Item	Quantity	Units	Assumptions
<b>Metals and PAH Contaminated Areas</b>			
<b>Area 1-A/3-A</b>			
Excavation area	12,114	square feet	From Google Earth
Excavation depth	4.5	feet	Overexcavate 1.5 feet due to additional depth near TP-7
Excavation volume	2,423	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	3,816	tons	1.575 tons per cubic yard
<b>Area 1-B/2-A/3-B</b>			
Excavation area	23,675	square feet	From Google Earth
Excavation depth	3.0	feet	Overexcavate 1 foot
Excavation volume	3,157	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	4,972	tons	1.575 tons per cubic yard
<b>Area 1-C</b>			
Excavation area	114,310	square feet	From Google Earth
Excavation depth	3.0	feet	Overexcavate 1 foot
Excavation volume	15,241	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
<b>Area 2-B/3-C</b>			
Excavation area	88,795	square feet	From Google Earth
Excavation depth	3.0	feet	Overexcavate 1 foot
Excavation volume	11,839	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	18,647	tons	1.575 tons per cubic yard
Estimated soil weight	24,005	tons	1.575 tons per cubic yard
<b>PCB and DRPH Contaminated Areas</b>			
<b>Area 2-C/3-D</b>			
Excavation area	2,975	square feet	From Google Earth
Excavation depth	3.0	feet	General depth of 3 feet
Excavation volume	397	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	625	tons	1.575 tons per cubic yard
<b>Area 2-D/3-E</b>			
Excavation area	2,975	square feet	From Google Earth
Excavation depth	3.0	feet	Overexcavate 1 foot
Excavation volume	397	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	625	tons	1.575 tons per cubic yard
<b>Area 2-E/3-F</b>			
Excavation area	4,607	square feet	From Google Earth
Excavation depth	3.0	feet	Overexcavate 1 foot
Excavation volume	614	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	967	tons	1.575 tons per cubic yard
<b>Area 2-F/3-G</b>			
Excavation area	2,573	square feet	From Google Earth
Excavation depth	5.0	feet	Overexcavate 1 foot
Excavation volume	572	cubic yards	Multiply bank cubic yards by 1.2 for loose cubic yards
Estimated soil weight	901	tons	1.575 tons per cubic yard

**Table 9**  
**Summary of Remediation Alternatives**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Remedial Method	Conceptual Description	Benefits	Limitations	Relative Cost	Construction Feasibility	Duration of Maintenance & Reporting	Impacts to Future Development, Adjacent Land Uses	MTCA Preference
<b>Alternative 1 - Complete Excavation</b>	Clear and grub vegetation. Excavate contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Confirmation samples will be collected as soil is excavated.	Permanent closure with all waste removed from the Site. Eliminates long-term monitoring. Eliminates the need for an environmental covenant and doesn't restrict site development.	Requires removing site vegetation and includes dust generation and suppression. Long construction schedule. Contaminated materials hauled on public roadways. Uses significant resources to transport a large volume of soil by truck.	High	Easy	Short (one season)	Low. Site remediated to concentrations less than cleanup levels.	High MTCA preference. Contaminated soil removed from the site. Eliminates contaminant exposure pathways.
<b>Alternative 2 - Excavation, Consolidation and Capping</b>	Clear and grub vegetation. Excavate PCB- and TPH-contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Excavate remaining metals- and PAH- contaminated soil and deposit into an unlined consolidation area. Confirmation samples will be collected as soil is excavated. Soil in consolidation area will be capped by buildings, pavement, or geotextile fabric covered with 12 inches of clean soil.	Limited soil transported on public roads. Beneficial use of soil to fill low area and support site redevelopment. Decreased area of contamination.	Requires removing site vegetation and includes dust generation and suppression. Leaves contamination in place on the site and limits site development activities in the consolidation area. Requires strict oversight and documentation to ensure contaminated soil is capped. Requires an environmental covenant and ongoing long-term maintenance and monitoring.	Moderate	Moderate	In perpetuity	Moderate. Restricts stormwater infiltration through the consolidation area. Requires an environmental covenant for the parcel(s) that will restrict future excavations on the property. If site is subdivided, covenant would only apply to the parcel(s) associated with the consolidation area.	Moderate MTCA preference. Contaminated soil capped onsite and disposed off-site. Much of the site cleaned up to less than the cleanup levels. Eliminates contaminant exposure pathways.
<b>Alternative 3 - Limited Excavation and Selective Capping</b>	Clear and grub vegetation. Excavate PCB- and TPH-contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Confirmation samples will be collected as soil is excavated. Remaining metals- and PAH- contaminated soil will be capped in-place with either buildings, pavement, or geotextile fabric covered with 12 inches of soil.	Limited soil transported on public roads.	Requires removing site vegetation and includes dust generation and suppression. Leaves contamination in place throughout the site and limits site development activities. Requires strict oversight and documentation to ensure contaminated soil is capped. Requires a more complicated environmental covenant and ongoing long-term maintenance and monitoring.	Moderate	Moderate	In perpetuity	High. Restricts stormwater infiltration through the capped areas. Requires an environmental covenant, or multiple covenants if the site is subdivided that will restrict future excavations on the property.	Moderate MTCA preference. Contaminated soil capped onsite and disposed off-site. Eliminates contaminant exposure pathways.

**Table 10**  
**Alternative 1 - Complete Excavation**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Scope Item	Unit	Unit Cost <sup>1, 2</sup>	Quantity <sup>3</sup>	Extended
<b>Design / Work Plan / Project Management</b>				
Design, Work Plan, Plans/Specs, Project Management	lump sum	\$50,000	1	\$50,000
<b>Task Sub-Total</b>				<b>\$50,000</b>
<b>Construction Oversight / Project Management / Reporting</b>				
Construction monitoring/oversight - assume 1 season of construction, includes PM and Per Diem	day	\$2,000	10	\$20,000
Analytical (Confirmation sampling)	lump sum	\$50,000	1	\$50,000
Remedial action report	lump sum	\$40,000	1	\$40,000
<b>Task Sub-Total</b>				<b>\$110,000</b>
<b>Contaminated Soil Excavation, Hauling and Disposal<sup>4</sup></b>				
Mobilization	lump sum	\$20,000	1	\$20,000
Excavation of contaminated soil	cubic yard	\$7	20,821	\$145,746
Hauling and off-site disposal (non-hazardous material)	ton	\$68	32,793	\$2,229,908
<b>Task Sub-Total</b>				<b>\$2,395,653</b>
<b>Site Restoration</b>				
Site grading and hydroseeding	acre	\$4,000	3.4	\$13,783
<b>Task Sub-Total</b>				<b>\$13,783</b>
<b>Remedial Action Sub-Total</b>				<b>\$2,409,436</b>
<b>Remedial Action Contingency (15%)</b>				<b>\$361,415</b>
<b>Engineering, Construction Oversight, Project Management, Reporting</b>				<b>\$160,000</b>
<b>Total Estimated Costs for Soil Alternative 1</b>				<b>\$2,930,852</b>

**Notes:**

<sup>1</sup>Cost estimated from construction cost estimates solicited from applicable vendors and contractors, review of actual costs incurred during similar, applicable projects, and professional judgment.

<sup>2</sup>Estimated costs are considered to be within a margin of +/- 20 percent.

<sup>3</sup>Refer to Table 8 for assumptions used to generate material quantities.

<sup>4</sup>Represented by areas 1-A, 1-B and 1-C as shown on Figure 14 and Table 8.

**Table 11**  
**Alternative 2 - Excavation, Consolidation and Capping**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Scope Item	Unit	Unit Cost <sup>1, 2</sup>	Quantity <sup>3</sup>	Extended
<b>Design/Project Management</b>				
Design, Work Plan, Plans/Specs, Project Management	lump sum	\$75,000	1	\$75,000
<b>Task Sub-Total</b>				<b>\$75,000</b>
<b>Construction Oversight / Project Management / Reporting</b>				
Construction monitoring/oversight - assume 1 season of construction, includes PM and Per Diem	day	\$2,000	30	\$60,000
Analytical (Performance and Confirmation Sampling)	lump sum	\$50,000	1	\$50,000
Remedial action report	lump sum	\$40,000	1	\$40,000
<b>Task Sub-Total</b>				<b>\$150,000</b>
<b>Contaminated Soil Excavation and Consolidation<sup>4</sup></b>				
Mobilization	lump sum	\$20,000	1	\$20,000
Excavation and consolidation of contaminated soil	cubic yard	\$7	14,996	\$104,972
Cap installation (1.5 feet loose and then compacted)	cubic yard	\$30	4,547	\$136,408
<b>Task Sub-Total</b>				<b>\$261,380</b>
<b>DRPH and PCB Contaminated Soil Excavation and Disposal<sup>5</sup></b>				
Excavation of DRPH and PCB contaminated soil	cubic yard	\$7	1,979	\$13,856
Hauling and disposal (non-hazardous material)	ton	\$68	3,118	\$211,991
<b>Task Sub-Total</b>				<b>\$225,847</b>
<b>Site Restoration</b>				
Site grading and hydroseeding	acre	\$4,000	4.8	\$19,049
<b>Task Sub-Total</b>				<b>\$19,049</b>
<b>Remedial Action Sub-Total</b>				<b>\$506,276</b>
<b>Remedial Action Contingency (15%)</b>				<b>\$75,941</b>
<b>Engineering, Construction Oversight, Project Management, Reporting</b>				<b>\$225,000</b>
<b>Total Estimated Costs for Soil Alternative 2</b>				<b>\$807,218</b>

**Notes:**

<sup>1</sup>Cost estimated from construction cost estimates solicited from applicable vendors and contractors, review of actual costs incurred during similar, applicable projects, and professional judgment.

<sup>2</sup>Estimated costs are considered to be within a margin of +/- 20 percent.

<sup>3</sup>Refer to Table 8 for assumptions used to generate material quantities.

<sup>4</sup>Represented by Areas 2-A and 2-B as shown on Figure 15 and Table 8.

<sup>5</sup>Represented by Areas 2-C, 2-D, 2-E and 2-F as shown on Figure 15 and Table 8.

**Table 12**  
**Alternative 3 - Limited Excavation and Selective Capping**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Scope Item	Unit	Unit Cost <sup>1,2</sup>	Quantity <sup>3</sup>	Extended
<b>Design / Work Plan / Project Management</b>				
Design, Work Plan, Plans/Specs, Project Management	lump sum	\$50,000	1	\$50,000
<b>Task Sub-Total</b>				<b>\$50,000</b>
<b>Construction Oversight / Project Management / Reporting</b>				
Construction monitoring/oversight - assume 1 season of construction, includes PM and Per Diem	day	\$2,000	30	\$60,000
Analytical (Performance and Confirmation Sampling)	lump sum	\$50,000	1	\$50,000
Remedial action report	lump sum	\$40,000	1	\$40,000
<b>Task Sub-Total</b>				<b>\$150,000</b>
<b>Contaminated Soil Capping<sup>4</sup></b>				
Mobilization	lump sum	\$20,000	1	\$20,000
Cap installation (1.5 feet loose and then compacted)	CY	\$30	6,921	\$207,640
<b>Task Sub-Total</b>				<b>\$227,640</b>
<b>DRPH and PCB Contaminated Soil Excavation and Disposal<sup>5</sup></b>				
Excavation of DRPH and PCB contaminated soil	cubic yard	\$7	1,979	\$13,856
Hauling and disposal (non-hazardous material)	ton	\$68.00	3,118	\$211,991
<b>Task Sub-Total</b>				<b>\$211,991</b>
<b>Site Restoration</b>				
Site grading and hydroseeding	acre	\$4,000	3.2	\$12,646
<b>Task Sub-Total</b>				<b>\$12,646</b>
<b>Remedial Action Sub-Total</b>				<b>\$452,277</b>
<b>Remedial Action Contingency (15%)</b>				<b>\$67,842</b>
<b>Engineering, Construction Oversight, Project Management, Reporting</b>				<b>\$200,000</b>
<b>Total Estimated Costs for Soil Alternative 3</b>				<b>\$720,119</b>

**Notes:**

<sup>1</sup>Cost estimated from construction cost estimates solicited from applicable vendors and contractors, review of actual costs incurred during similar, applicable projects, and professional judgment.

<sup>2</sup>Estimated costs are considered to be within a margin of +/- 20 percent.

<sup>3</sup>Refer to Table 8 for assumptions used to generate material quantities.

<sup>4</sup>Represented by Areas 3-A, 3-B and 3-C as shown on Figure 16 and Table 8.

<sup>5</sup>Represented by Areas 2-D, 2-E, 2-F and 2-G as shown on Figure 16 and Table 8.



**Table 13**  
**Summary of ARARs**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

ARAR	Chemical, Location, or Action Specific ARAR	Regulated Activity	Soil Alternatives			Evaluation
			Alternative 1 - Complete Excavation	Alternative 2 - Excavation, Consolidation and Capping	Alternative 3 - Limited Excavation and Selective Capping	
<b>Washington State Regulations</b>						
Washington Administrative Code (WAC) 173-60	Action	Noise Levels	Applies	Applies	Applies	Maximum noise levels are applicable depending on action selected.
WAC 173-160	Action	Well Construction and Maintenance	Does Not Apply	Does Not Apply	Does Not Apply	Minimum standards for construction and maintenance of water and monitoring wells, and decommissioning.
WAC 173-162	Action	Well Contractors and Operators	Does Not Apply	Does Not Apply	Does Not Apply	Procedures for well contractors and operators, applicable to installation and decommissioning of wells and borings.
WAC 173-201A	Chemical	Water Quality Standards for Surface Waters	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
WAC 173-303	Chemical/Action	Dangerous Waste Management	Applies	Applies	Applies	Identified dangerous waste onsite.
WAC 173-304	Chemical/Action/Location	Solid Waste Handling Standards	Applies	Applies	Applies	The facility was operated prior to and after 1985, when WAC 173-304 was promulgated. Therefore regulatory compliance is required.
WAC 173-333	Chemical	Bioaccumulation Toxins Rule	Applies	Applies	Applies	Criteria to identify persistent, bioaccumulative toxins that pose human and ecological threats, and action plan.
WAC 173-340 (and subsets)	Chemical/Action	Toxic Waste Cleanup (MTCA)	Applies	Applies	Applies	The remedial action will be conducted under MTCA. Remedial alternatives will comply with MTCA regulations.
WAC 173-400	Action	Fugitive Emissions	Applies	Applies	Applies	Requires owner to take reasonable precautions to prevent fugitive emissions.
WAC 197-11 and 173-802; Revised Code of Washington (RCW) 43.21C	Action	State Environmental Policy Act	Applies	Applies	Applies	A SEPA review is required for projects with potential significant environmental impacts. Walla Walla County would likely be the lead agency and make the determination of compliance with SEPA.
WAC 296-155	Action	Safety Standards for Construction Work	Applies	Applies	Applies	Applicable during construction activities.
WAC 296-62	Action	General Occupational Health Standards	Applies	Applies	Applies	Applicable during construction activities.
WAC 246-290	Chemical	State Maximum Contaminant Level (MCL) limits	Applies	Applies	Applies	State MCLs are applicable to potential groundwater sources of drinking water in accordance with MTCA.
RCW 90.03-0.44	Action	Surface and Groundwater Withdrawal	Does Not Apply	Does Not Apply	Does Not Apply	Substantive compliance with regulations is applicable since action could involve withdrawal or diversion of groundwater or surface water.
RCW 90.48	Action	Water Pollution Control (Construction Stormwater Permit)	Applies	Applies	Applies	A Stormwater Pollution Prevention Plan (SWPPP) is required for each remediation alternative.
RCW 119A	Chemical	Drinking Water Regulations	Applies	Applies	Applies	MTCA has risk-based MCLs to protect consumers using public water supplies (surface water and groundwater)

ARAR	Chemical, Location, or Action Specific ARAR	Regulated Activity	Soil Alternatives			Evaluation
			Alternative 1 - Complete Excavation	Alternative 2 - Excavation, Consolidation and Capping	Alternative 3 - Limited Excavation and Selective Capping	
<b>Federal Regulations</b>						
Title 40 Code of Federal Regulations (CFR) 50	Action	Clean Air Act	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
Title 40 CFR Part 131	Chemical	Water Quality Standards (National Toxics Rule)	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
Title 40 CFR Part 141/143	Chemical	Drinking Water Regulations (MCLs)	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
Title 42 USC Chapter 103; 40 CFR Chapter I, Subchapter J	Chemical/Action	Hazardous Waste (RCRA)	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
US Environmental Protection Agency	Chemical	Regional Screening Levels (RSLs)	Applies	Applies	Applies	RSLs are used as a screening tool, used as part of the risk assessment process.
Title 16 of United States Code (USC) Section 469	Location	Archaeological and Historic Preservation Act	Applies	Applies	Applies	Would be applicable if actions cause loss or adverse impacts to significant, prehistoric, historic, and archaeological data
Title 16 USC, Sections 661-667, 2901-2911	Location	Fish and Wildlife Conservation Act	Does Not Apply	Does Not Apply	Does Not Apply	Applicable for actions that involve Mill Creek.
Title 16 USC Section 668-668d	Location	Bald Eagle Protection Act	Applies	Applies	Applies	Applicable and actions would be carried out in a way that avoids unnecessarily adversely affecting bald and golden eagles.
Title 16 USC §703 50 CFR §10.12	Location	Migratory Bird Treaty Act	Applies	Applies	Applies	Applicable and actions would be carried out in a way that avoids taking or killing of protected birds and their nests.
Title 16 USC §1361 et seq. 50 CFR 216	Location	Endangered Species Act	Applies	Applies	Applies	Protect species of fish, wildlife, and plants that are listed.
Title 25 USC Section 3001-3013	Location	Native American Graves Protection and Reparation Act	Applies	Applies	Applies	Would be applicable if actions cause disturbance or alteration of graves.
Title 33 USC Chapter 26§1251 et seq.; 40 CFR Chapter 1, Subchapter D	Chemical/Action	Water Pollution Control (Clean Water Act)	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
Title 33 USC Section 300g-1	Action/Location	Water Pollution Control (Safe Drinking Water Act)	Applies	Applies	Applies	MTCA requires cleanup actions comply with applicable regulations.
Executive Order 11990	Location	Protection of Wetlands	Does Not Apply	Does Not Apply	Does Not Apply	Wetlands are not present at the site.
Executive Order 11988	Location	Protection of Floodplains	Applies	Applies	Applies	Applicable for actions that take place within the 100-year floodplain of Mill Creek.

**Table 14**  
**Evaluation of Cleanup Action Alternatives**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Alternative Numbers	Alternative 1	Alternative 2	Alternative 3
<b>Alternative Descriptions</b>	Alternative 1 - Complete Excavation  Clear and grub vegetation. Excavate contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Confirmation samples will be collected as soil is excavated.	Alternative 2 - Excavation, Consolidation and Capping  Clear and grub vegetation. Excavate PCB- and TPH-contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Excavate remaining metals- and PAH- contaminated soil and deposit into an unlined consolidation area. Confirmation samples will be collected as soil is excavated. Soil in consolidation area will be capped by buildings, pavement, or geotextile fabric covered with 12 inches of clean soil.	Alternative 3 - Limited Excavation and Selective Capping  Clear and grub vegetation. Excavate PCB- and TPH-contaminated soil and transport for disposal at Waste Management's Columbia Ridge Landfill near Arlington, Oregon. Confirmation samples will be collected as soil is excavated. Remaining metals- and PAH- contaminated soil will be capped in-place with either buildings, pavement, or geotextile fabric covered with 12 inches of soil.
<b>Alternative Ranking Under MTCA</b>			
<b>1. Compliance with MTCA Threshold Criteria</b>			
Protection of Human Health and the Environment	Yes - Alternative provides protection of human health and environment.	Yes - Alternative provides protection of human health and environment.	Yes - Alternative provides protection of human health and environment.
Compliance with Cleanup Standards	Yes - Alternative provides compliance with cleanup standards.	Yes - Alternative provides compliance with cleanup standards.	Yes - Alternative provides compliance with cleanup standards.
Compliance with Applicable State and Federal Regulations	Yes - Alternative will comply with applicable state and federal regulations.	Yes - Alternative will comply with applicable state and federal regulations.	Yes - Alternative will comply with applicable state and federal regulations.
Provision for Compliance Monitoring	Yes - Alternative includes confirmation sampling.	Yes - Alternative includes confirmation sampling.	Yes - Alternative includes confirmation sampling.
<b>2. Restoration Time Frame</b>			
	Three to six months.	Two to three months.	One to two months.

Alternative Numbers	Alternative 1	Alternative 2	Alternative 3
<b>3. Disproportionate Cost Analysis - Relative Benefits Ranking<sup>1</sup></b>			
		<b>Score</b>	<b>Score</b>
Protectiveness	Highest level of protectiveness with source removal and disposal off-site.	3	PCB- and TPH-contaminated soil are removed and disposed off site. Soil contaminated with metal and PAHs is left in place but is consolidated and capped. Is protective of human health and the environment. Removes contamination from largest areas of the site.
			2
			PCB- and TPH-contaminated soil are removed and disposed off-site. Soil contaminated with metals and PAHs is left in place but capped. Is protective of human health and the environment, but less protective than the other alternatives because contamination is widespread.
			1
Permanence	Permanent closure with source removed and disposed off-site.	3	Permanent closure with long-term monitoring required. Some contaminated soil removed and disposed off-site, some contaminated soil consolidated and capped on-site.
			2
			Permanent closure with long-term monitoring required. Some contaminated soil removed and disposed off-site, some contaminated soil consolidated and capped on-site. Equal permanence to Alternative 2.
			2
Long-Term Effectiveness	Highest long term effectiveness with source removed and disposed off-site.	3	Moderate effectiveness. Assumes consolidated soil cap is undisturbed.
			2
			Least effective compared to other alternatives, yet effective if capped areas are undisturbed. Greater chance of cap disturbance after remedial action because contamination is more widespread than Alternative 2.
			1
Management of Short-Term Risks	Moderate to high short term risk with export and import of material from the site. Requires haulage over a long distance (120 miles one way) to disposal site. Likely more than 1,000 round trips. Longest construction timeframe.	1	Low to moderate level of short-term risks. Movement of contaminated soil at the site creates short-term risk.
			2
			Low level of short-term risks. Minimal excavation and off-site export. Likely shortest duration of the three alternatives.
			3

<b>Alternative Numbers</b>	<b>Alternative 1</b>		<b>Alternative 2</b>		<b>Alternative 3</b>	
Technical and Administrative Implementability	High level of both technical and administrative implementation.	3	High level of technical and administrative implementation. Environmental covenant required because contamination is left on site, so slightly greater administrative implementability than Alternative 1.	2	High level of technical and administrative implementation. Environmental covenant required because contamination is left on site, with slightly greater administrative implementability than Alternative 2 because of the widespread nature of remnant contamination.	1
Consideration of Public Concerns	Moderate level of public acceptance because contaminated soil is excavated and hauled on public roads.	3	Moderate level of public acceptance because contaminated soil is excavated with some soil hauled on public roads but most will be consolidated and remain at the site. Considered an equal public concern compared to hundreds of trucks on public roads.	3	Moderate level of public acceptance because contaminated soil is excavated with some hauled on public roads but most will remain in place at the site. Considered an equal public concern compared to hundred of trucks on public roads.	3
<b>Total Score</b>		<b>16</b>		<b>13</b>		<b>11</b>

**Notes:**

<sup>1</sup>Alternatives were scored using a scale of 1 to 3 with a score of 1 being the least amount of benefits provided by the alternative and a score of 3 being the most amount of benefits provided by the alternative.

**Table 15**  
**Summary of MTCA Evaluation and Ranking of Cleanup Action Alternatives**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

	Alternative 1 - Complete Excavation	Alternative 2 - Excavation, Consolidation and Capping	Alternative 3 - Limited Excavation and Selective Capping
<b>Alternative Ranking Under MTCA</b>			
<b>1. Compliance with MTCA Threshold Criteria<sup>1</sup></b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>2. Restoration Time Frame</b>	Three to six months.	Two to three months.	One to two months.
<b>3. Disproportionate Cost Analysis Relative Benefits Ranking</b>			
Protectiveness	3	2	1
Permanence	3	2	2
Long-Term Effectiveness	3	2	1
Management of Short-Term Risks	1	2	3
Technical and Administrative Implementability	3	2	1
Consideration of Public Concerns	3	3	3
<b>Total of Scores</b>	<b>16</b>	<b>13</b>	<b>11</b>
<b>4. Disproportionate Cost Analysis</b>			
	<b>\$2,930,852</b>	<b>\$807,218</b>	<b>\$720,119</b>
<i>Benefit Score: Ratio of Benefit Ranking x 1,000,000/Total Cost</i>	<b>5.46</b>	<b>16.10</b>	<b>15.28</b>
Costs Disproportionate to Incremental Benefits	Yes	No	No
Practicability of Remedy	Moderate Practicability	High Practicability	Moderate to High Practicability
Remedy Permanent to Maximum Extent Practicable	Permanent	Permanent	Permanent
<b>Overall Alternative Ranking</b>	<b>3rd</b>	<b>1st</b>	<b>2nd</b>

**Notes:**

<sup>1</sup>WAC 173-340-360(2)(a)

<sup>2</sup>Low cost is a benefit.

**Table 16**

**Summary of Soil Chemical Analytical Results – Direct Push - Thallium<sup>1</sup>**  
 Stubblefield Salvage Yard  
 Walla Walla, Washington

Location ID				DP-1		DP-1		DP-3		DP-5		DP-6		DP-8		DP-11		DP-12		DP-17		DP-23	
Sample ID				DP-1 (0.0-2.0)		DP-1 (4.0-5.0)		DP-3 (3.0-5.0)		DP-5 (3.0-5.0)		DP-6 (3.0-5.0)		DP-8 (0.0-2.0)		DP-11 (0.0-2.0)		DP-12 (0.0-2.0)		DP-17 (0.0-2.0)		DP-23 (1.5-3.0)	
Sample Date				11/26/2018		11/26/2018		11/26/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/27/2018		11/28/2018		11/28/2018	
Start Depth				0		4		3		3		3		0		0		0		0		1.5	
End Depth				2		5		5		5		5		2		2		2		2		3	
Depth Unit				ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
Method	Analyte	Soil Cleanup Level <sup>2</sup>	Units																				
Metals by 6010D	Thallium	0.8	mg/Kg	<b>4.6</b>	J	<b>5.7</b>	J	<b>5.6</b>	J	<b>3.3</b>	J	<b>5.1</b>	J	<b>3.8</b>	J	<b>3.8</b>	J	<b>3.6</b>	J	<b>3.0</b>	J	<b>1.8</b>	J
Metals by 6020B	Thallium	0.8	mg/Kg	<b>0.21</b>	J	<b>0.12</b>	J	<b>0.094</b>	J	<b>0.13</b>	J	<b>0.13</b>	J	<b>0.11</b>	J	<b>0.11</b>	J	<b>0.094</b>	J	<b>0.097</b>	J	<b>0.11</b>	J

**Notes:**

<sup>1</sup>Samples analyzed by Pace Analytical Services, LLC. located in Minneapolis, Minnesota.

<sup>2</sup>Washington State Model Toxics Control Act (MTCA) Method B Soil Cleanup Levels (CULs) for Unrestricted Land Use.

mg/kg = milligrams per kilogram; J = estimated result

**Bold** indicates that the analyte was detected greater than the laboratory method detection limit.

**Bold** and shading indicates analyte was detected above the applicable cleanup level concentration.

**Table 17**

**Summary of Soil Chemical Analytical Results – Hand Auger - Thallium<sup>1</sup>**  
**Stubblefield Salvage Yard**  
**Walla Walla, Washington**

Location ID				HA-1	HA-2	HA-3	HA-4	HA-5					
Sample ID				HA 1 3.5-4	HA 2 3-4	HA 3 1-2	HA 4 1-2	HA 5 3-4					
Sample Date				11/19/2019	11/19/2019	11/19/2019	11/19/2019	11/19/2019					
Start Depth				3.5	3	1	1	3					
End Depth				4	4	2	2	4					
Depth Unit				ft	ft	ft	ft	ft					
Method	Analyte	Soil Cleanup Level <sup>2</sup>	Units										
Metals by 6010C	Thallium	0.8	mg/Kg	0.34	U	0.33	U	0.32	U	0.66	U	0.31	U
Metals by 6020B	Thallium	0.8	mg/Kg	<b>0.070</b>	<b>J</b>	0.064	U	<b>0.068</b>	<b>J</b>	<b>0.081</b>	<b>J</b>	0.056	U

**Notes:**

<sup>1</sup>Samples analyzed by Eurofins TestAmerica, Inc. located in Spokane, Washington.

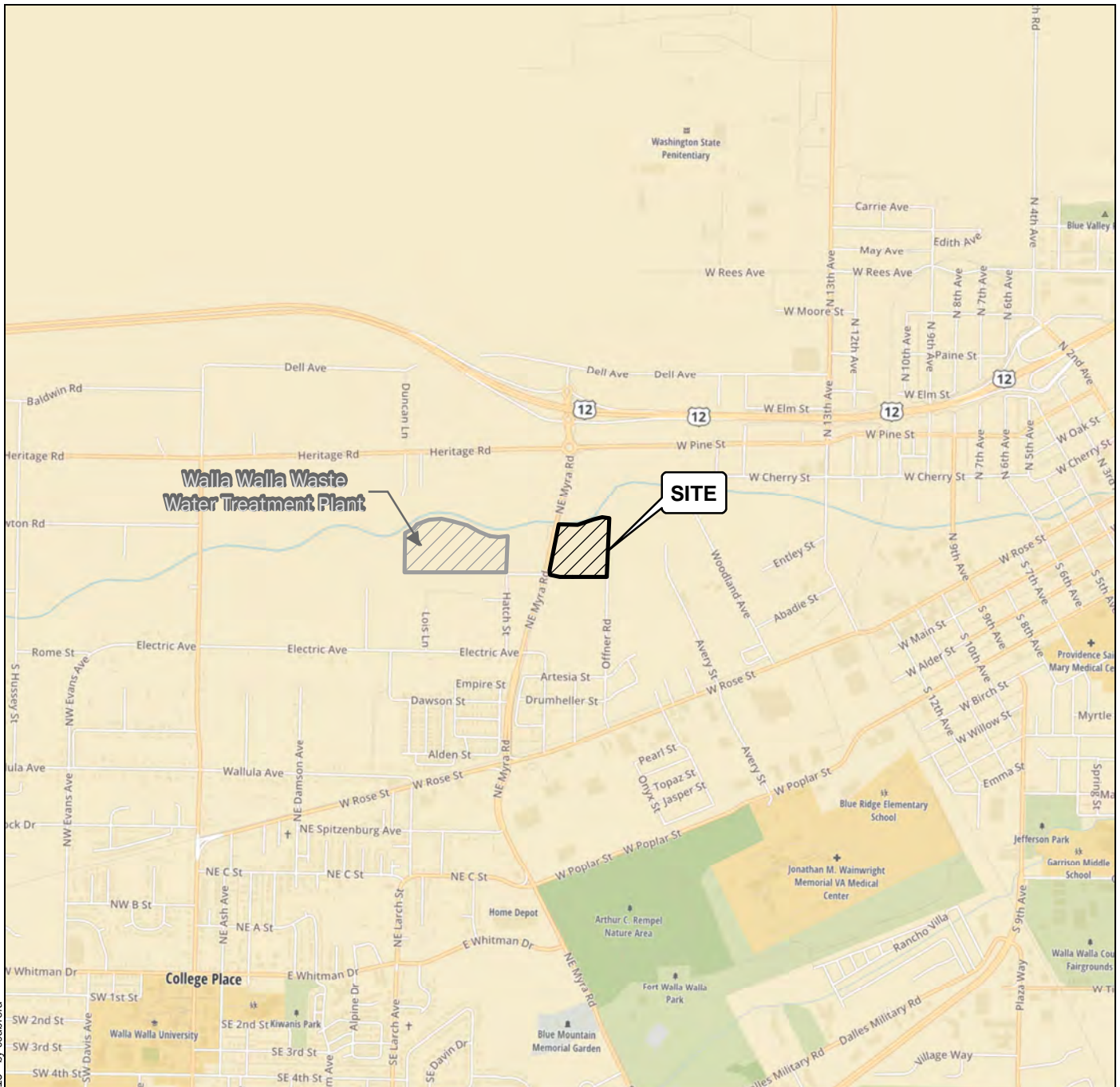
<sup>2</sup>Washington State Model Toxics Control Act (MTCA) Method B Soil Cleanup Levels (CULs) for Unrestricted Land Use.

mg/kg = milligrams per kilogram; U = analyte was not detected greater than the method detection limit; J = estimated result;

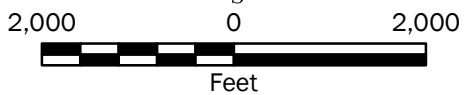
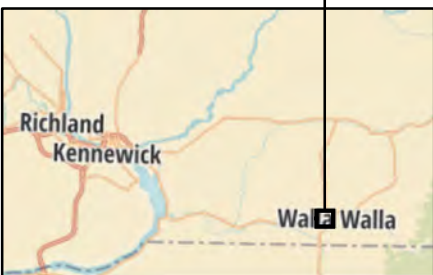
**Bold** indicates that the analyte was detected greater than the laboratory method detection limit.







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**Notes:**

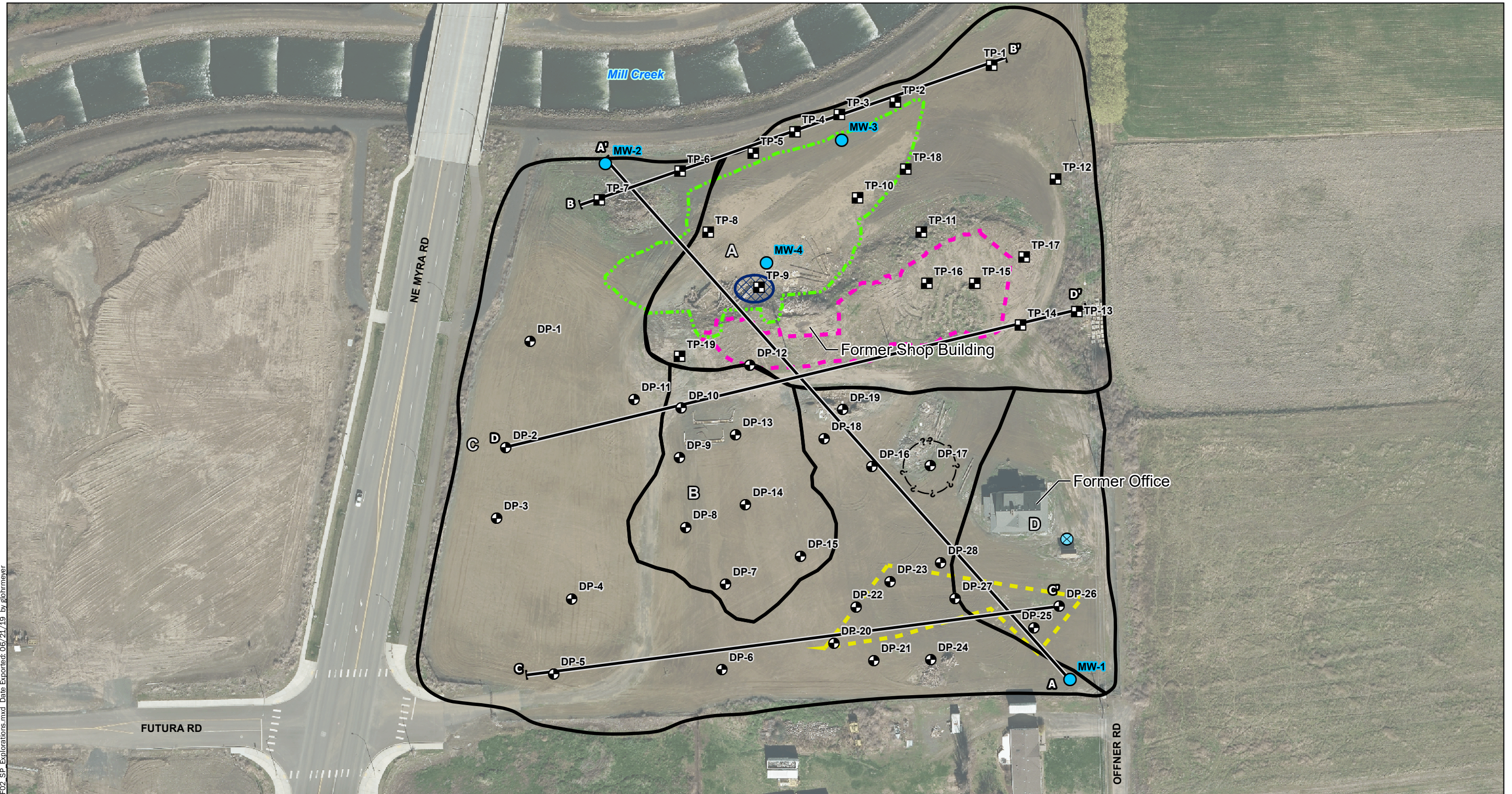
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Mapbox Open Street Map, 2016

Projection: NAD 1983 UTM Zone 11N

<b>Vicinity Map</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
<b>GEOENGINEERS</b>	<b>Figure 1</b>





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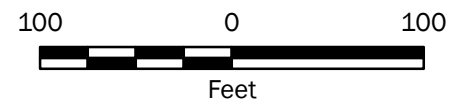
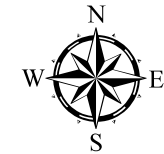
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- Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

- Former Water Supply Well
- Monitoring Well Number and Approximate Location
- Test Pit Number and Approximate Location
- Boring Number and Approximate Location
- Investigation Areas (2018)
- Cross-Section Approximate Location
- Drum Field Contamination Approximate Area
- Residual Petroleum Contamination in Groundwater
- Battery Storage
- 2013 Process Excavation Area
- 2013 Upland Excavation



**2018 Explorations and Cross Section Locations**

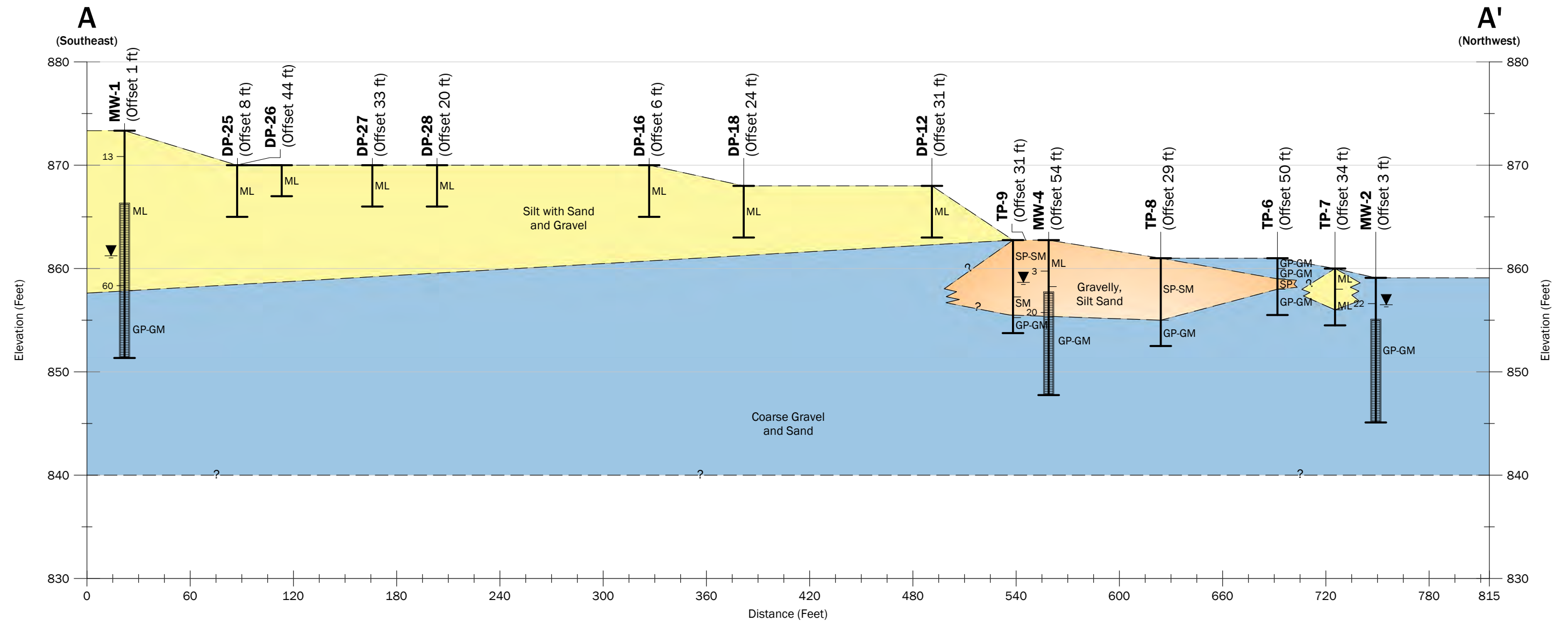
Stubblefield Salvage Yard  
Walla Walla, Washington



Figure 2

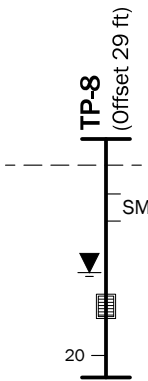


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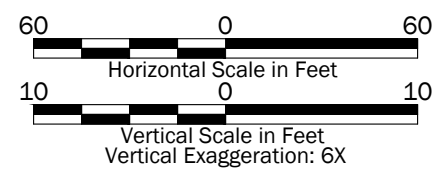
- Notes:**
1. The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
  2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

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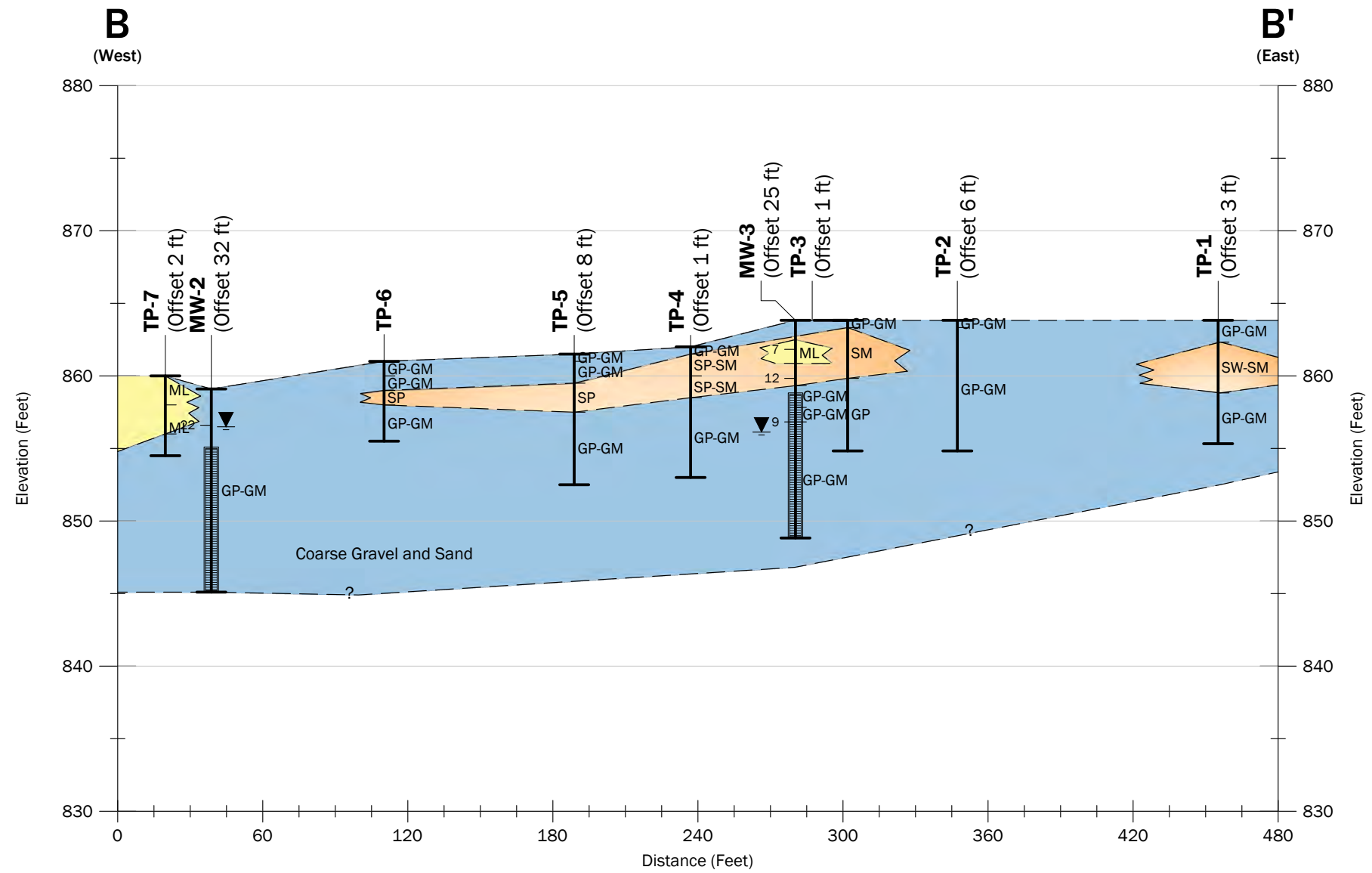
**Legend**

- Boring
- Inferred Soil Contact
- Soil Classification
- Groundwater Measured in Well
- Well Screen
- Blow Count
- Silt with Sand and Gravel
- Gravelly, Silt Sand
- Coarse Gravel and Sand



<b>Cross Section A-A'</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 3</b>

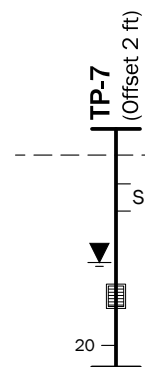
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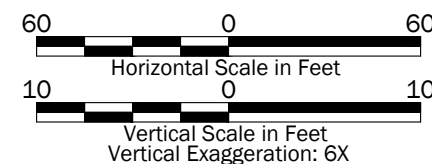
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2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

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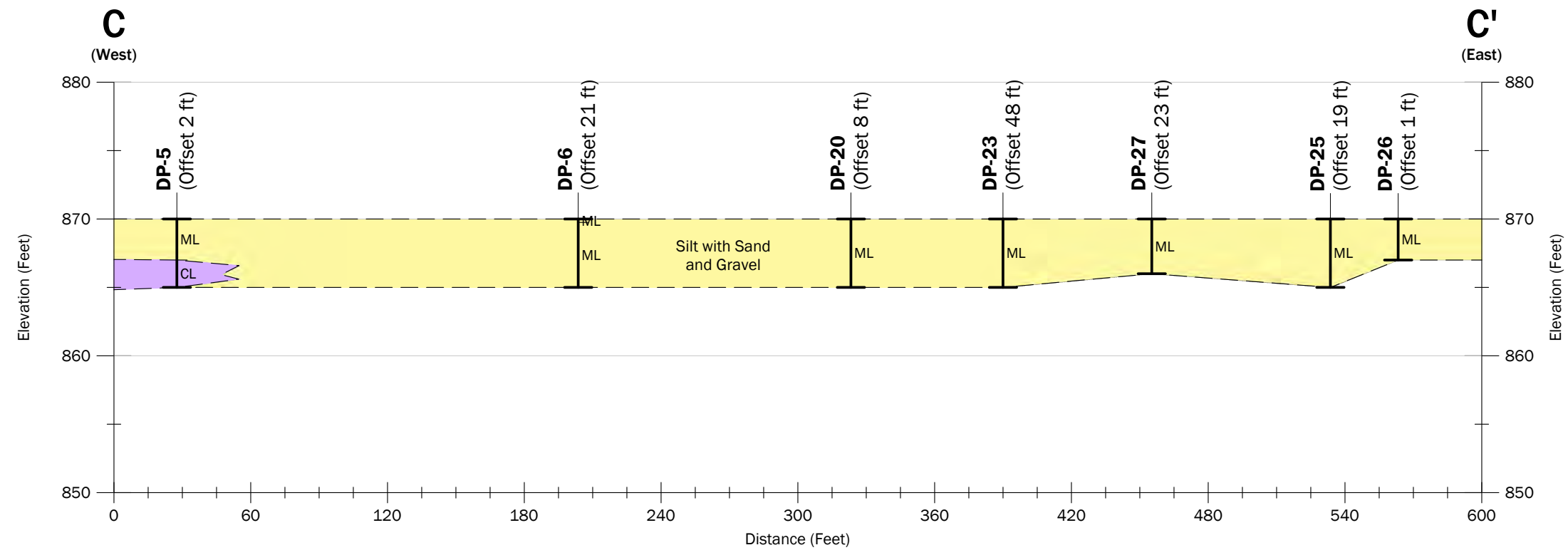
**Legend**

- Boring
- - - Inferred Soil Contact
- SM Soil Classification
- ▼ Groundwater Measured in Well
- ▭ Well Screen
- 20 Blow Count
- Yellow oval Silt with Sand and Gravel
- Orange oval Gravelly, Silt Sand
- Blue oval Coarse Gravel and Sand



<b>Cross Section B-B'</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 4</b>

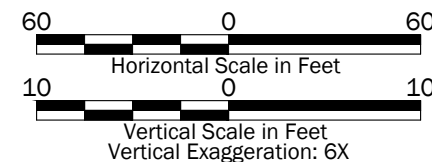
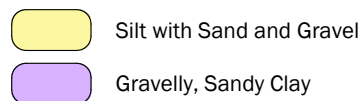
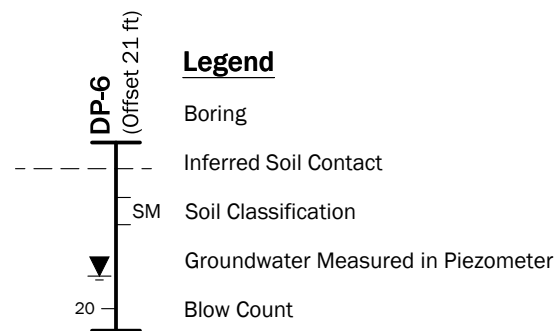
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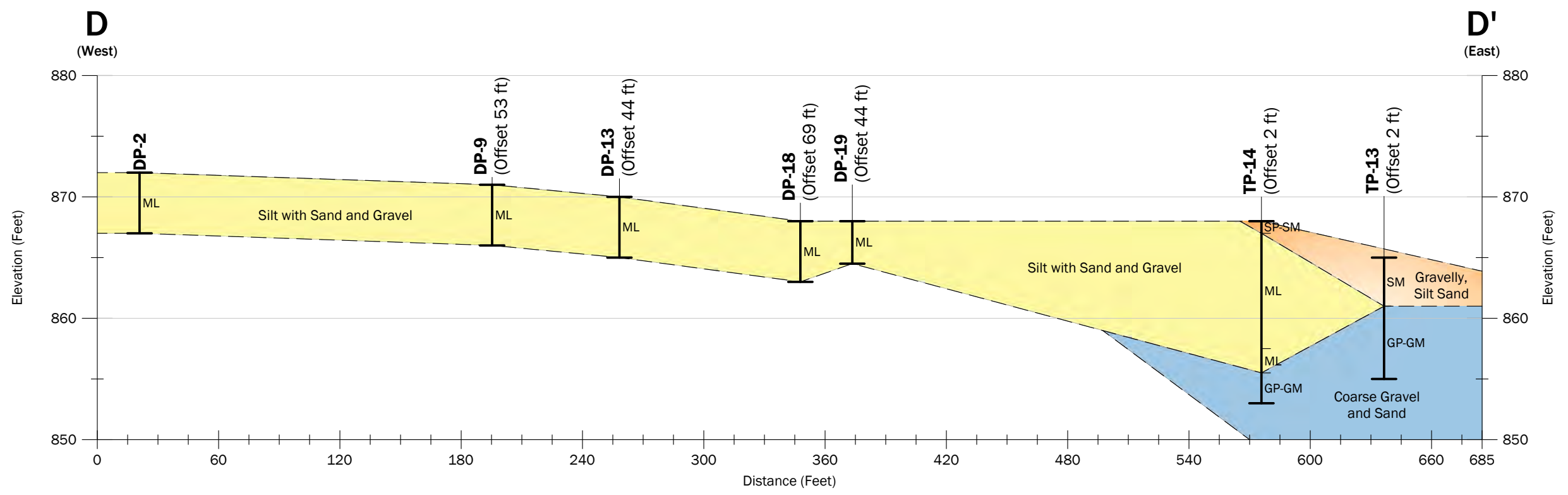
- The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
- This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

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<b>Cross Section C-C'</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 5</b>

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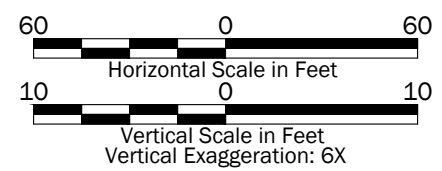
**Notes:**

- The subsurface conditions shown are based on interpolation between widely spaced explorations and should be considered approximate; actual subsurface conditions may vary from those shown.
- This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Datum: NAVD 88, unless otherwise noted.

**Legend**

- Boring
- Inferred Soil Contact
- Soil Classification
- Groundwater Measured in Piezometer
- Blow Count
- Silt with Sand and Gravel
- Gravelly, Silt Sand
- Coarse Gravel and Sand



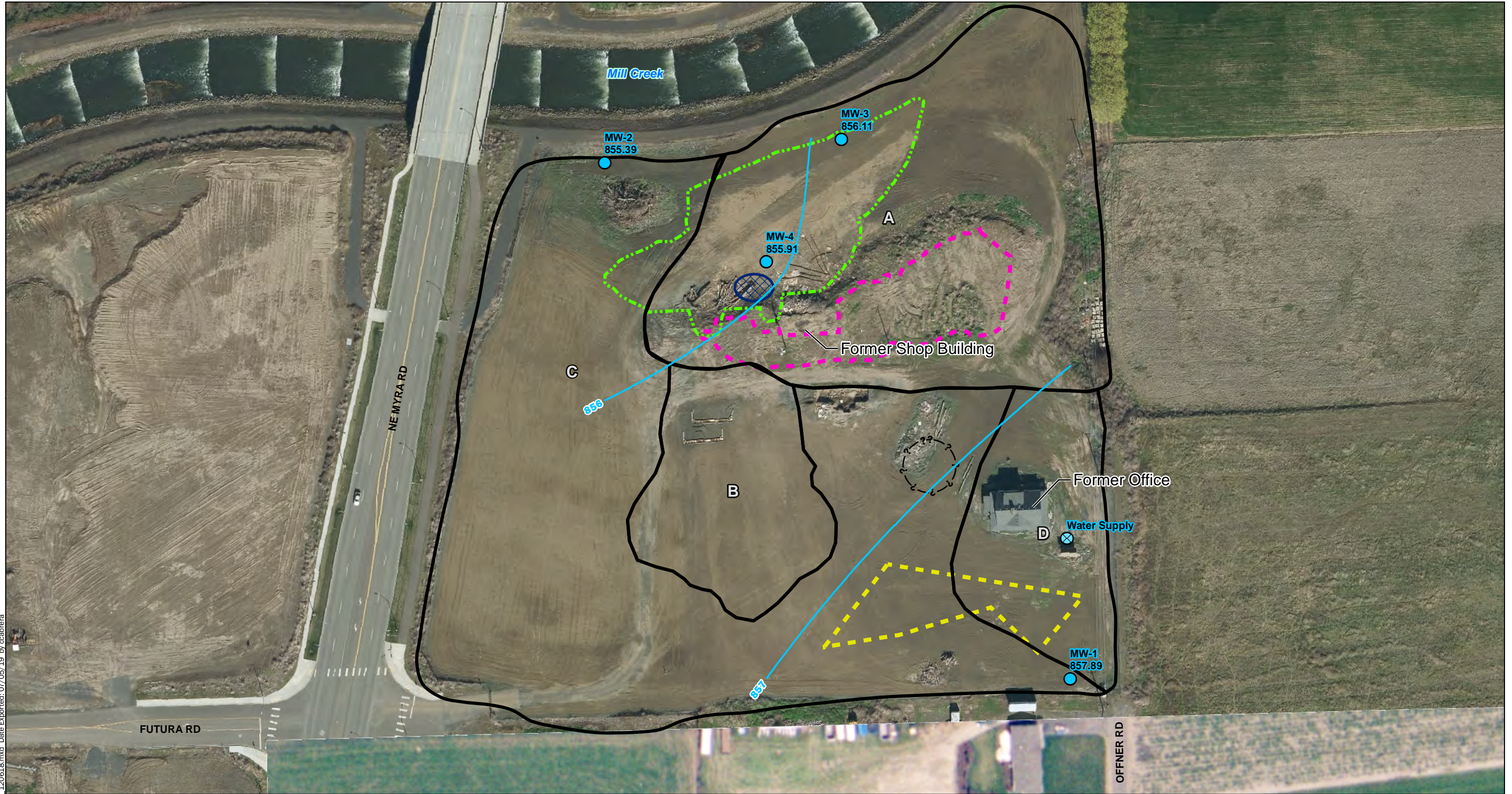
**Cross Section D-D'**

Stubblefield Salvage Yard  
Walla Walla, Washington

**GEOENGINEERS**

**Figure 6**





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**Notes:**

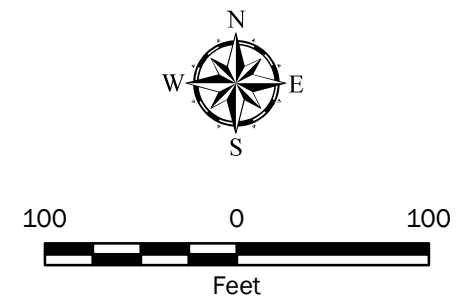
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

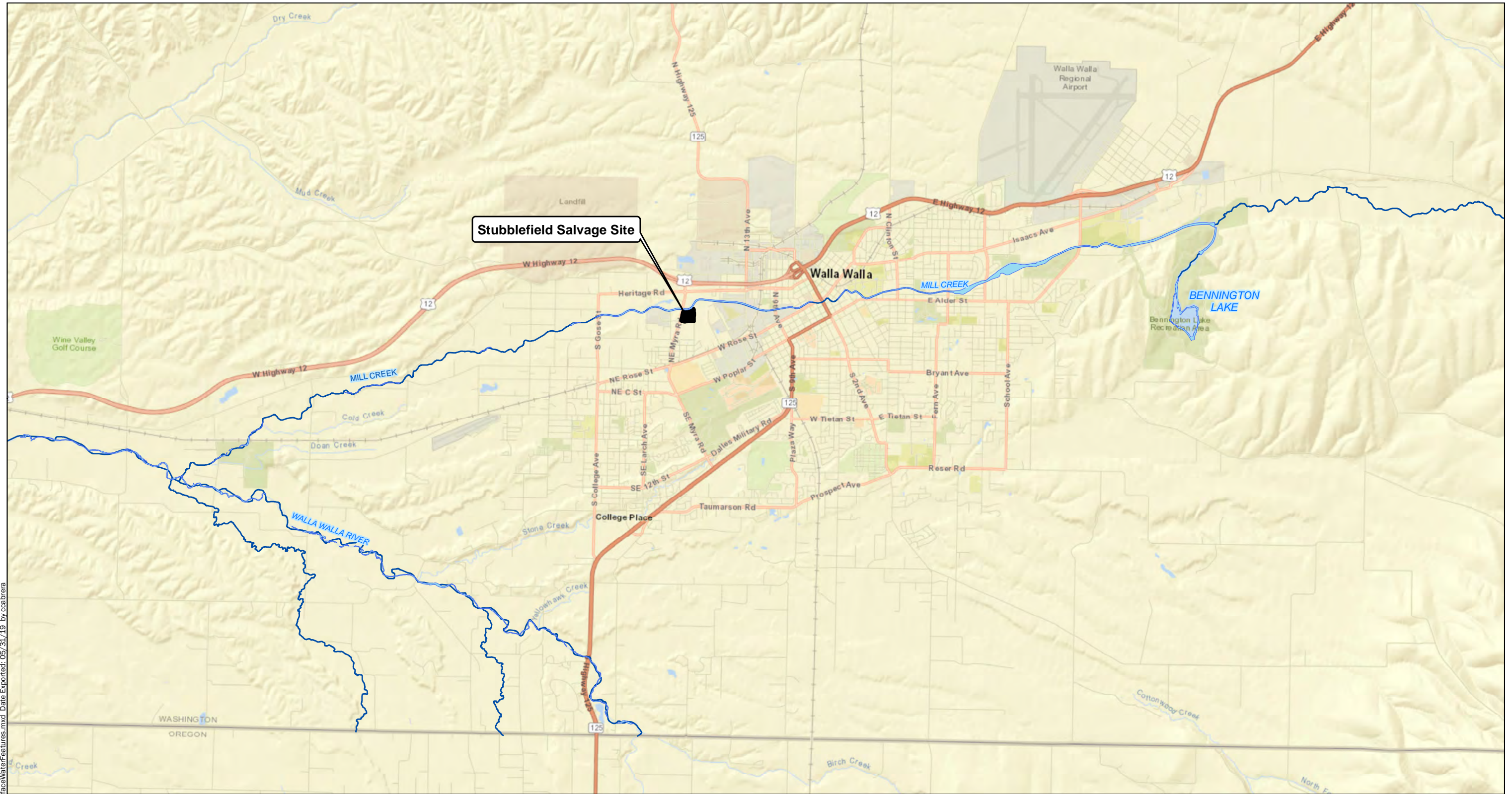
**Legend**

- Monitoring Well Number, Depth to Groundwater (feet) and Approximate Location
- ⊗ Former Water Supply Well
- ~ 1 ft Groundwater Contour
- Investigation Areas (2018)
- Drum Field Contamination Approximate Area
- Residual Petroleum Contamination in Groundwater
- Battery Storage
- 2013 Process Excavation Area
- 2013 Upland Excavation



<b>Groundwater Elevation Map December 2018</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 7</b>



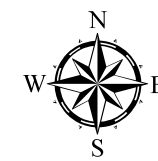


**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: ESRI. Stream data from USGS NHD.

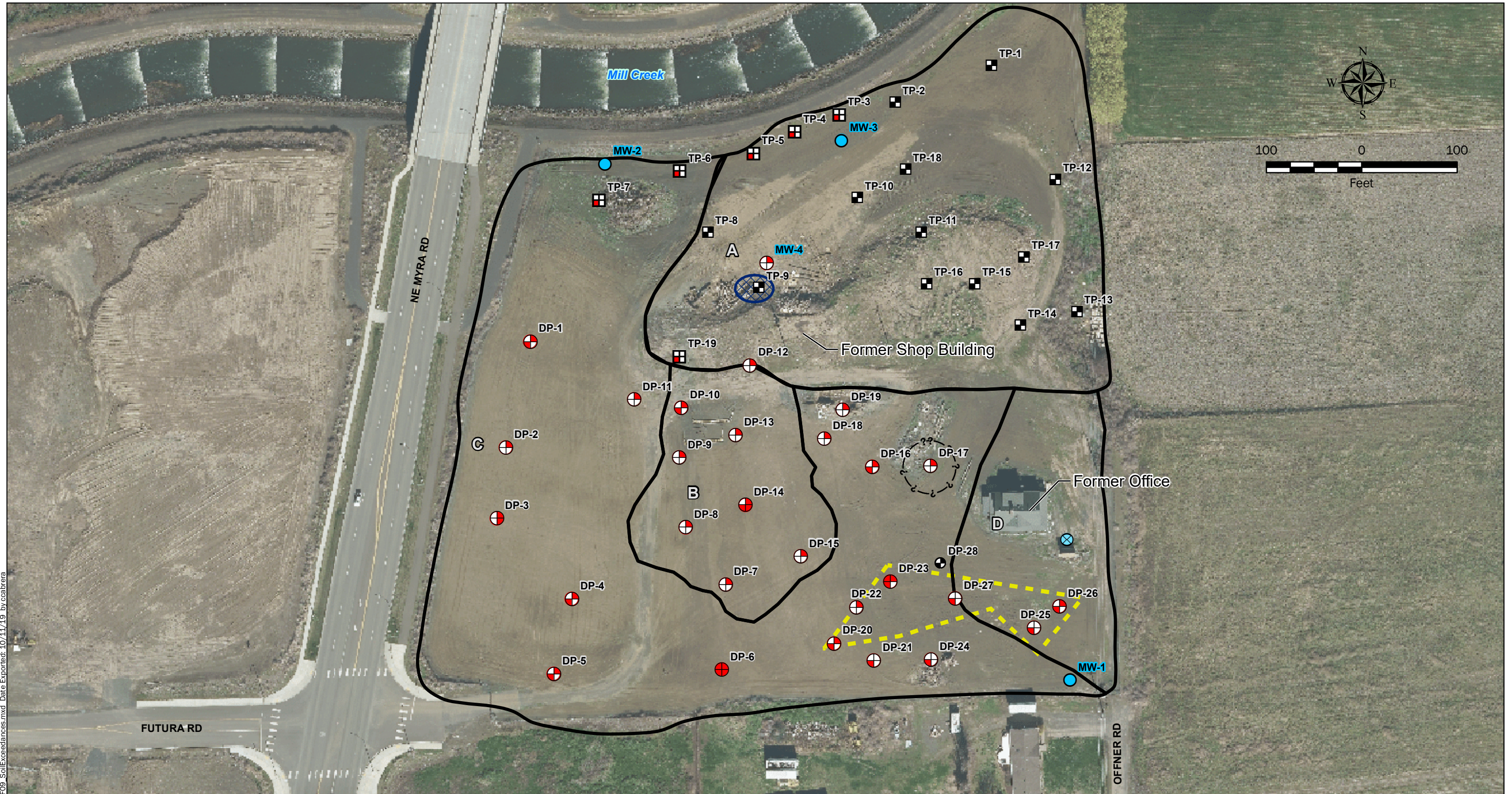
Projection: NAD 1983 UTM Zone 11N



<b>Mill Creek and Other Surface Water Features</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 8</b>

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**Notes:**  
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 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.  
 Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

Former Water Supply Well	Battery Storage	TPH	Metals
Monitoring Well Number and Approximate Location	Investigation Areas (2018)	PAHs	PCB
Test Pit Number and Approximate Location			Greater than MTCA Method A Unrestricted Land Use for 1 or More Contaminants of Concern
Boring Number and Approximate Location			
Drum Field Contamination Approximate Area			
Residual Petroleum Contamination in Groundwater			

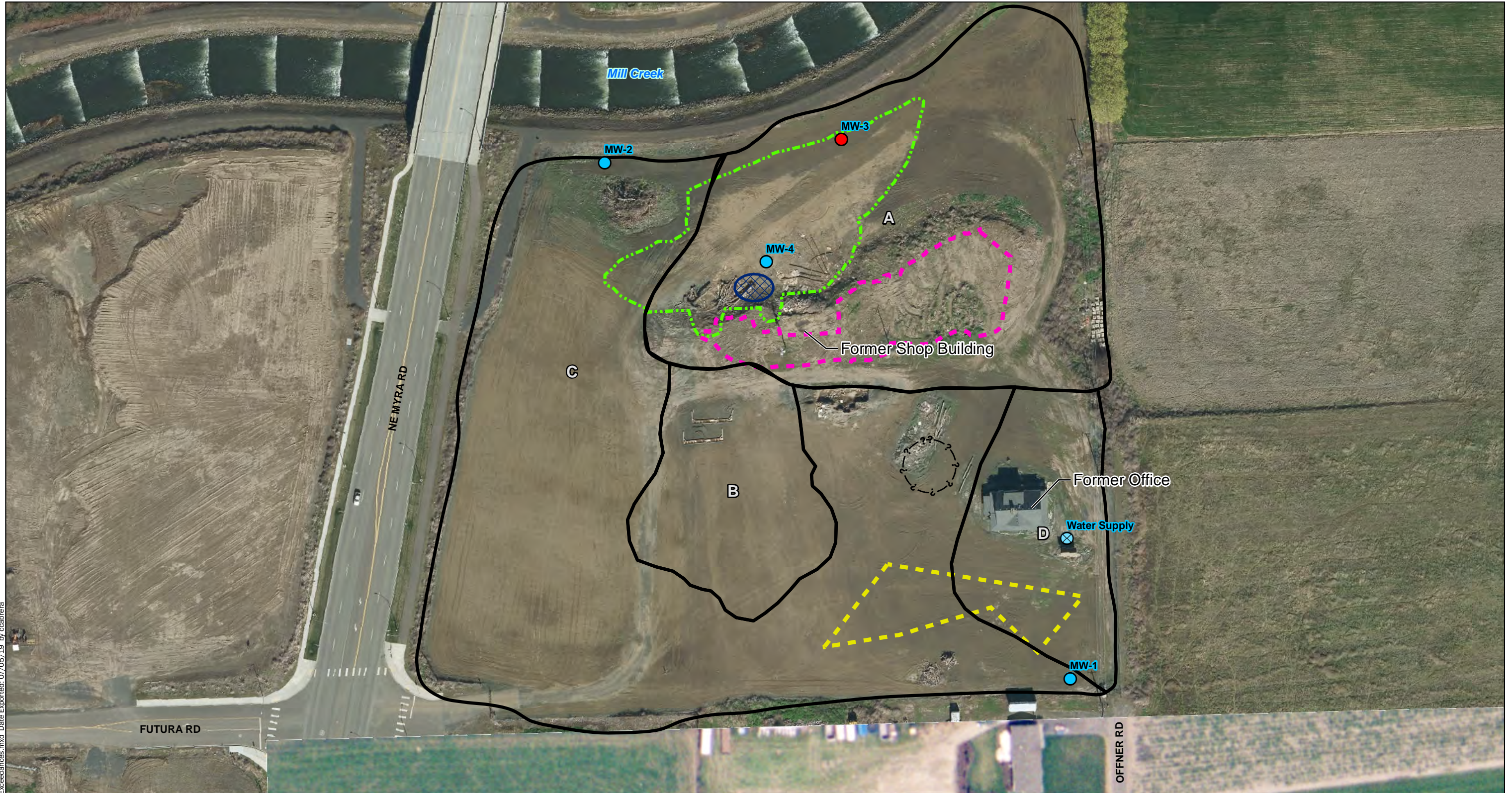
**Soil Analytical Results - 2018 RI**

Stubblefield Salvage Yard  
Walla Walla, Washington

**Figure 9**

P:\0\0504139\GIS\MXD\0504139001shk0200\_F09\_SoilExceedances.mxd Date Exported: 10/11/19 by ccaברה





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**Notes:**

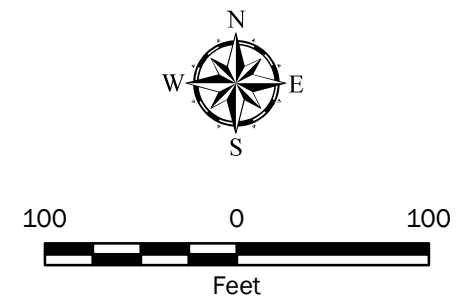
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

- Monitoring Well Number, Depth to Groundwater (feet) and Approximate Location
- Groundwater Results Greater than EPA RSL or MTCA Method A for Bis(2-ethylhexyl)phthalate (BEHP)
- ⊗ Former Water Supply Well
- Investigation Areas (2018)
- Drum Field Contamination Approximate Area
- Residual Petroleum Contamination in Groundwater
- Battery Storage
- 2013 Process Excavation Area
- 2013 Upland Excavation



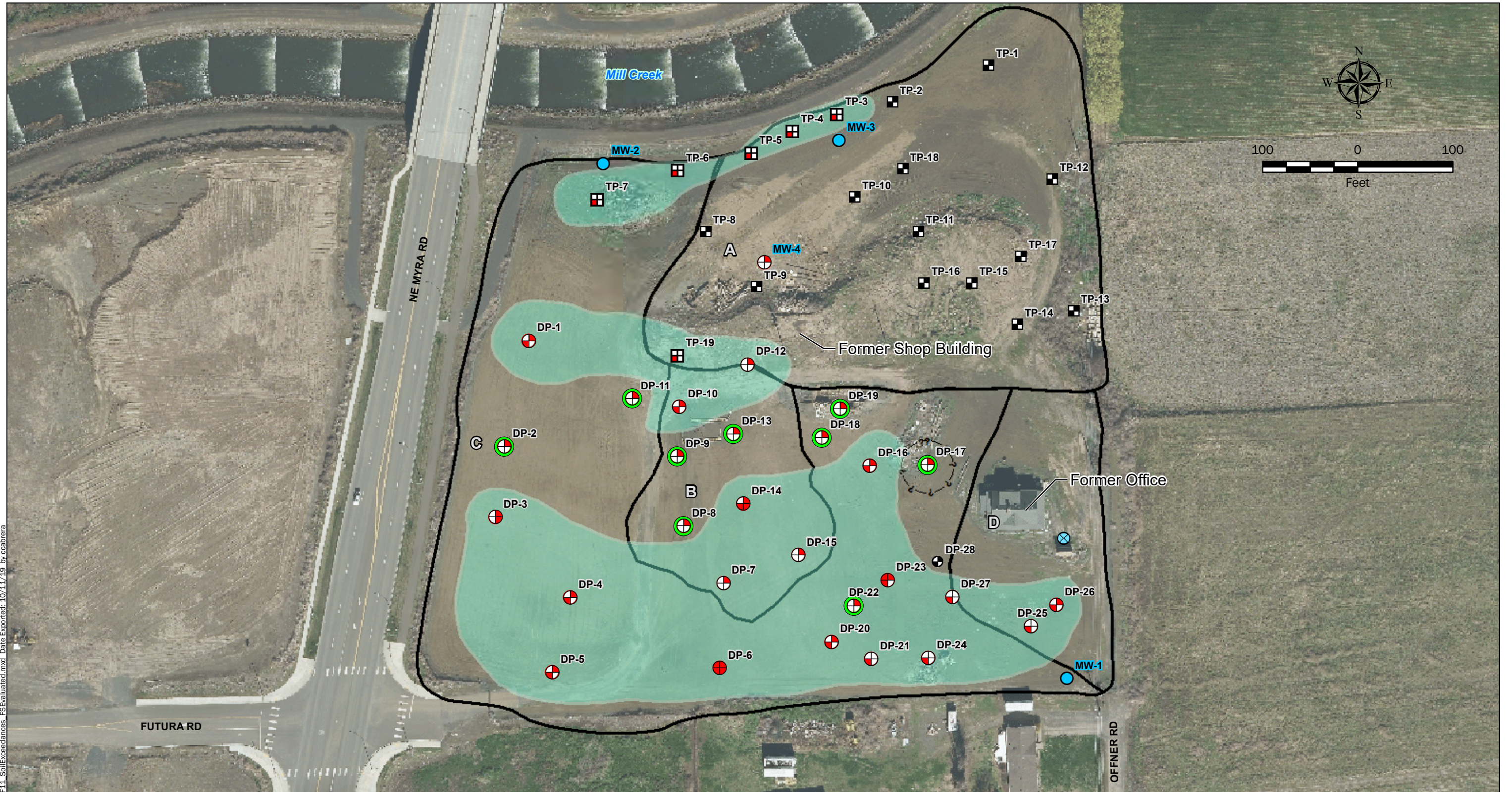
**Groundwater Analytical Results - 2018 RI**

Stubblefield Salvage Yard  
Walla Walla, Washington



Figure 10





P:\0504139\GIS\MXD\0504139001sh0200\_F11\_SoilExceedances\_FS\Evaluated.mxd Date Exported: 10/11/19 by ccabrera

**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.  
 Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

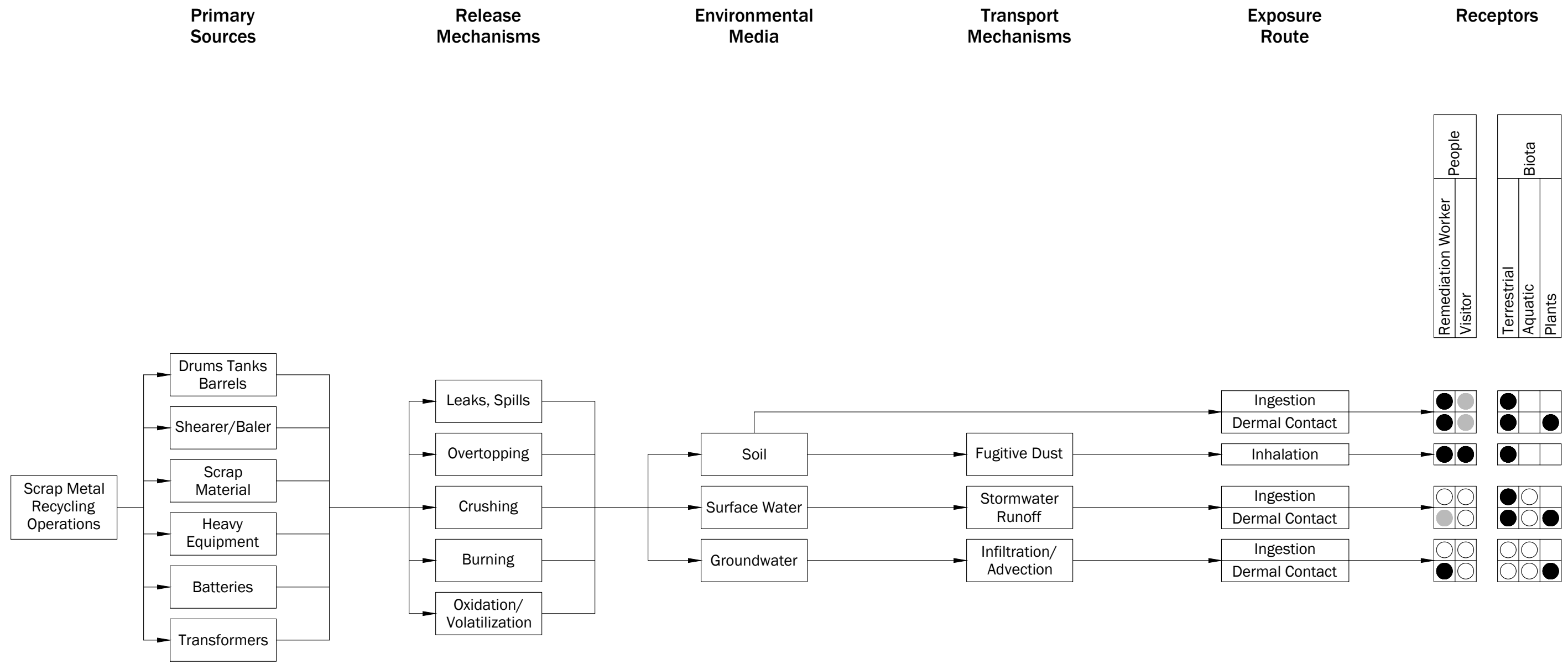
**Legend**

Former Water Supply Well	Battery Storage	TPH  Metals
Monitoring Well Number and Approximate Location	Investigation Areas (2018)	PAHs  PCB
Test Pit Number and Approximate Location	Area to be Evaluated in FS	Greater than MTCA Method A Unrestricted Land Use for 1 or More Contaminants of Concern
Boring Number and Approximate Location		
Thallium was the only metal COC exceedance and therefore was excluded from the FS		

<b>Areas Evaluated in FS</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 11</b>



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- Legend**
- Complete Pathway
  - Incomplete Pathway
  - ◐ Potentially Complete Pathway
  - Not Applicable

**Notes:**  
 1. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

<b>Stubblefield Salvage Yard Conceptual Site Exposure Model</b>	
Stubblefield Salvage Yard Walla Walla, Washington	
	<b>Figure 12</b>





**Notes:**

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Street data and 2012 Ortho from Walla Walla County GIS.  
 Site features digitized from ecology and environment EPA report.  
 Conceptual Site Plan from HDJ, 07/18/2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

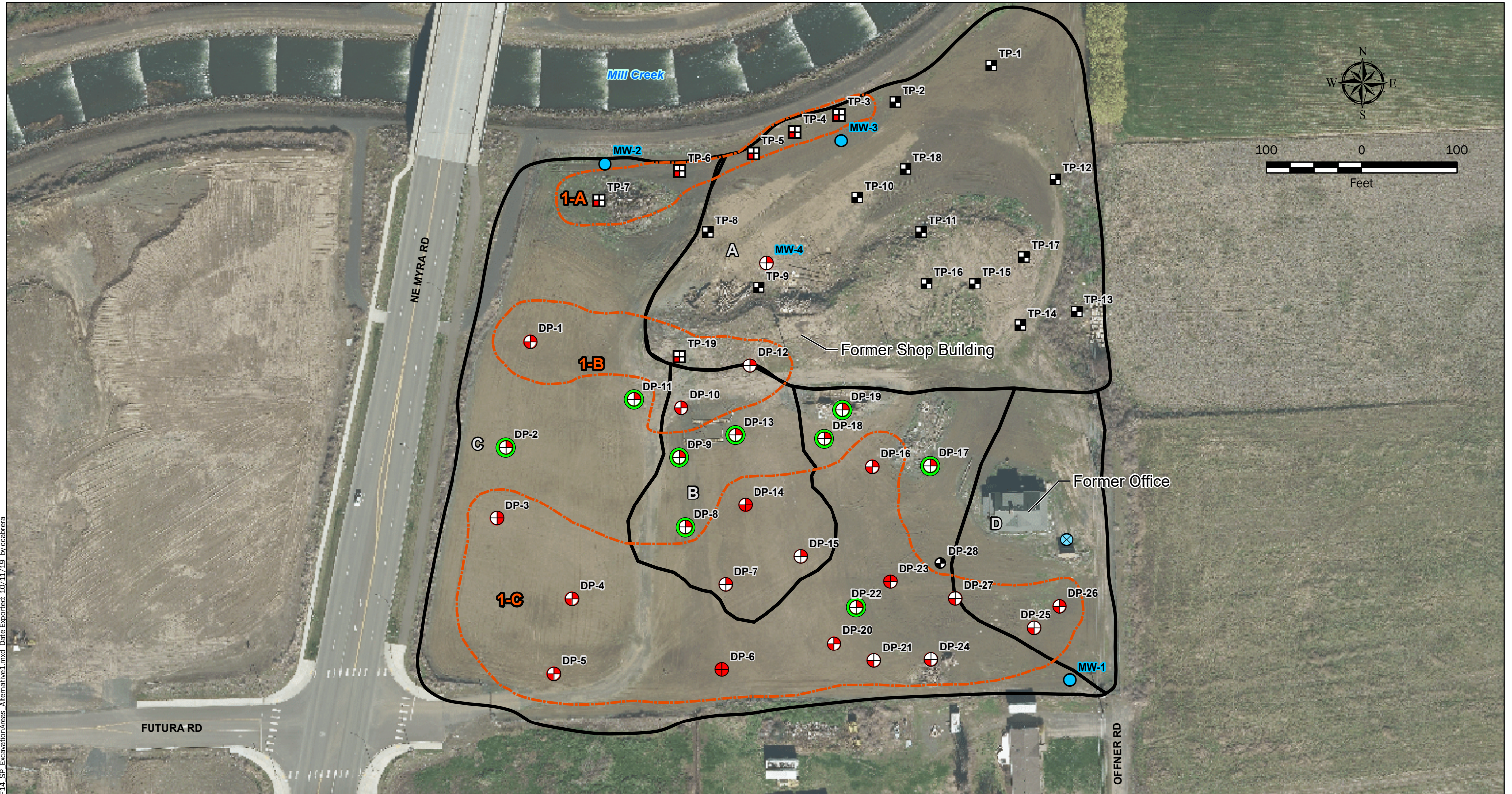
**Conceptual Site Development Plan**

Stubblefield Salvage Yard  
 Walla Walla, Washington



**Figure 13**





**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.  
 Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

**Legend**

Former Water Supply Well	Test Pit Number and Approximate Location	Investigation Areas (2018)	Metals
Monitoring Well Number and Approximate Location	Boring Number and Approximate Location	Excavation Areas	PCB
Thallium was the only metal COC exceedance and therefore was excluded from the FS			Greater than MTCA Method A Unrestricted Land Use for 1 or More Contaminants of Concern

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

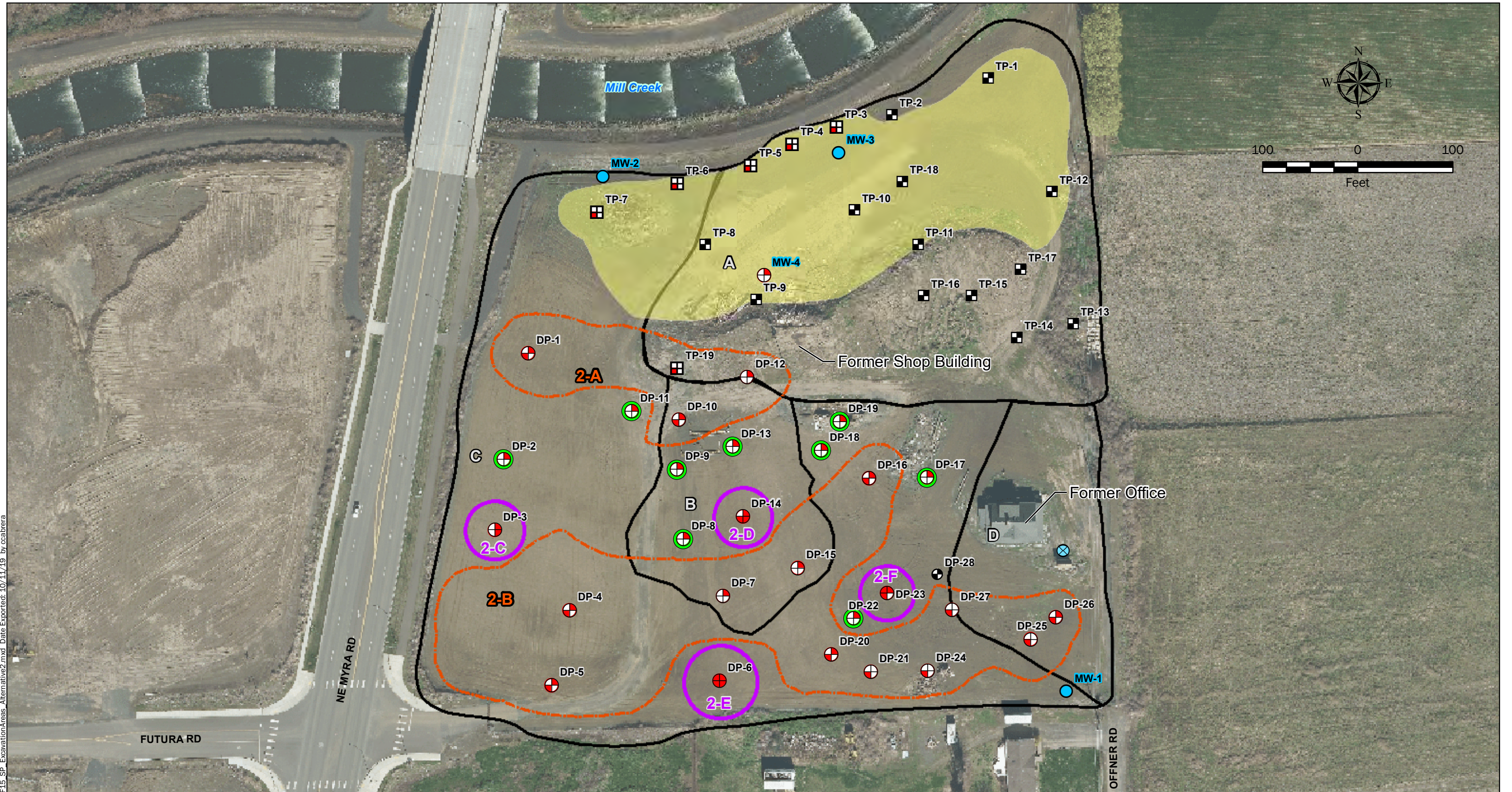
**Alternative 1 - Excavation Areas**

Stubblefield Salvage Yard  
Walla Walla, Washington

**Figure 14**

P:\0504139\GIS\MXD\0504139001sh0200\_F14\_SP\_ExcavationAreas\_Alternative1.mxd Date Exported: 10/11/19 by ccabrera





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**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.  
 Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

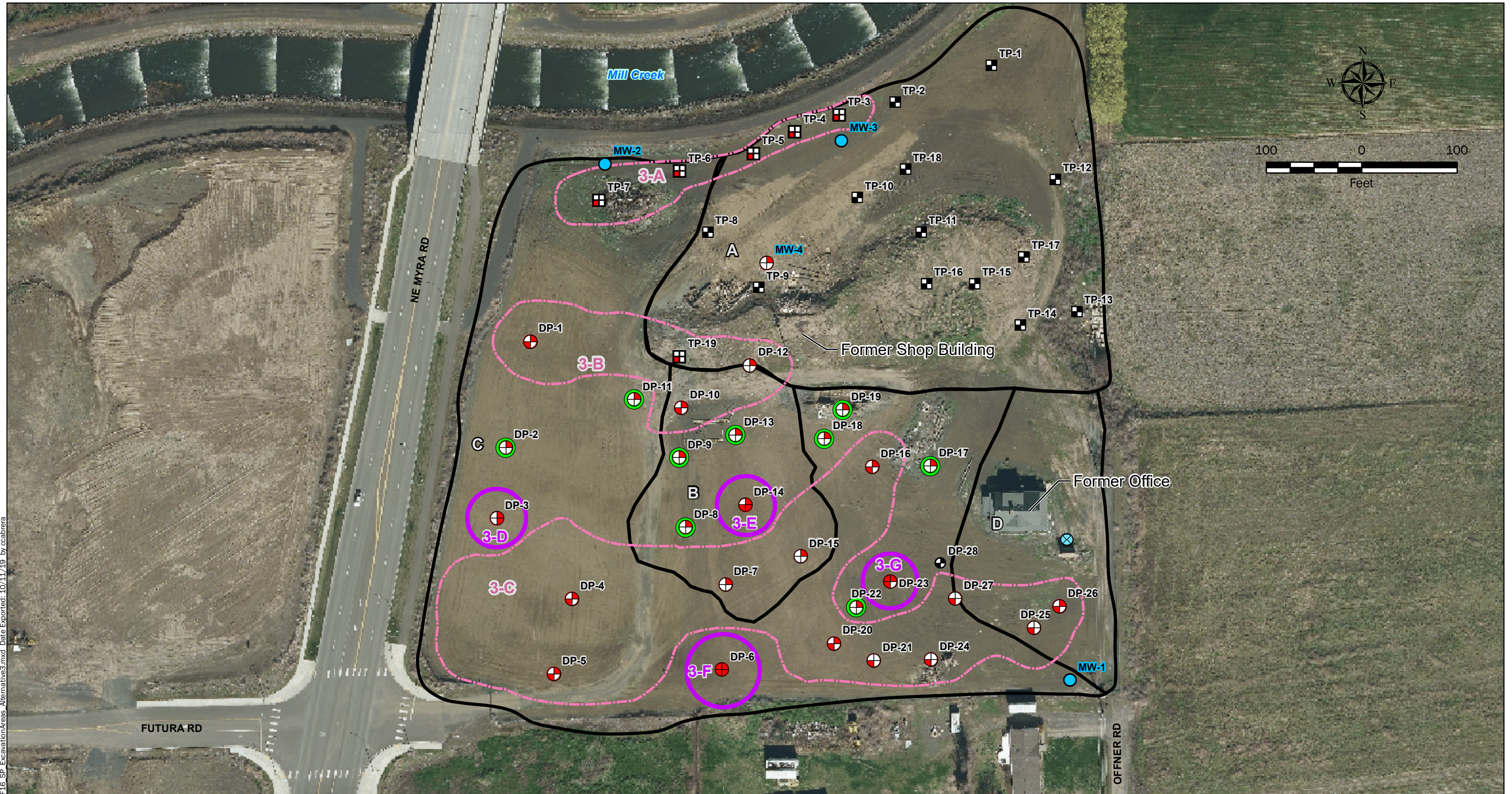
Former Water Supply Well	Investigation Areas (2018)	TPH  Metals
Monitoring Well Number and Approximate Location	Excavate and Place in On-Site Consolidation Area	PAHs  PCB
Test Pit Number and Approximate Location	Excavate and Off-Site Disposal	Greater than MTCA Method A Unrestricted Land Use for 1 or More Contaminants of Concern
Boring Number and Approximate Location	Consolidation and Capped Area (~81,845 feet²)	
Thallium was the only metal COC exceedance and therefore was excluded from the FS		

**Alternative 2 - Excavation, Consolidation and Capping Areas**

Stubblefield Salvage Yard  
Walla Walla, Washington

**Figure 15**





**Notes:**  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.  
 Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

- Former Water Supply Well
- Monitoring Well Number and Approximate Location
- Test Pit Number and Approximate Location
- Boring Number and Approximate Location
- Thallium was the only metal COC exceedance and therefore was excluded from the FS
- Investigation Areas (2018)
- In-Situ Capping Area
- Excavate and Off-Site Disposal
- TPH Metals
- PAHs PCB
- Greater than MTCA Method A Unrestricted Land Use for 1 or More Contaminants of Concern

**Alternative 3 -  
Excavation, Consolidation and Selective Capping Areas**

Stubblefield Salvage Yard  
Walla Walla, Washington

**Figure 16**

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**Notes:**

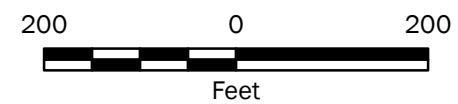
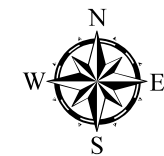
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Street data and 2012 Ortho from Walla Walla County GIS. Site features digitized from ecology and environment EPA report.

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

**Legend**

- Former Water Supply Well
- Monitoring Well Number and Approximate Location
- Test Pit Number and Approximate Location
- Boring Number and Approximate Location
- Reference Sample Location Analyzed for Thallium Only (Ecology, November 19, 2019)
- Investigation Areas (2018)



**Thallium Reference Sample Locations**

Stubblefield Salvage Yard  
Walla Walla, Washington



**Figure 17**





**APPENDIX A**  
**Field Logs**

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>ML</b>	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		<b>OH</b>	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

### Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/Quarry Spalls
	<b>SOD</b>	Sod/Forest Duff
	<b>TS</b>	Topsoil

### Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

### Graphic Log Contact



Distinct contact between soil strata



Approximate contact between soil strata

### Material Description Contact



Contact between geologic units



Contact between soil of the same geologic unit

### Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

### Sheen Classification

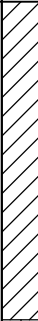
NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

## Key to Exploration Logs



Figure A-1

Start Drilled	11/26/2018	End	11/26/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined NAVD88				Hammer Data				Drilling Equipment	Geoprobe 6600			
Easting (X) Northing (Y)	2181012 274080				System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration				
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0			33				CL	Brown silty clay with trace sand (soft, moist)	NS	<1	
							ML	Brown silt with sand (medium stiff, moist)			
5									NS	<1	

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-1



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled 11/26/2018	End 11/26/2018	Total Depth (ft) 5	Logged By Checked By ASC JRS	Driller Cascade Environmental	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum 872 NAVD88		Hammer Data		Drilling Equipment Geoprobe 6600	
Easting (X) Northing (Y) 2180986 273969		System Datum WA State Plane South NAD83		Groundwater not observed at time of exploration	
Notes:					

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	40				DP-2 0.0-2.0 CA		ML	Brown silt with trace gravel (soft, moist)	NS	<1	
870					DP-2 3.0-5.0 CA			Grades to dark brown (medium stiff, moist)	NS	<1	
5								Grades to brown (soft, moist)			

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-2



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	11/26/2018	End	11/26/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	867 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2180977 273895			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	50				DP-3 0.0-2.0 CA		ML	Brown silt with trace gravel (soft, moist)	NS	<1	
								Grades to dark brown (stiff, moist)			
					DP-3 3.0-5.0 CA			Grades to brown	NS	<1	
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-3



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW



Start Drilled	11/26/2018	End	11/26/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	872 NAVD88				Hammer Data				Drilling Equipment	Geoprobe 6600			
Easting (X) Northing (Y)	2181055 273810				System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration				
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		60					ML	Brown silt with sand, occasional gravel (soft, moist)	NS	<1	
								Grades to dark brown silt with sand (stiff, moist)			
870								Grades to brown			
									NS	<1	
5								Becomes light brown (stiff, very dense)			

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-4



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-5  
Sheet 1 of 1

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2181036 273732			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		40					ML	Brown silt with occasional sand and gravel (soft, moist)  Grades to dark brown (stiff, moist)  Grades to brown silt (stiff, moist)	NS	<1	
5							CL	Light brown silty clay (very stiff, moist)	NS	<1	

Date: 7/11/19 Path: P:\05041390\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-5




Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Drilled	Start 11/27/2018	End 11/27/2018	Total Depth (ft)	5	Logged By Checked By	ASC JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88				Hammer Data	Drilling Equipment				Geoprobe 6600
Easting (X) Northing (Y)	2181213 273736				System Datum	WA State Plane South NAD83				Groundwater not observed at time of exploration
Notes:										

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0	40			DP-6 0.0-2.0 CA		ML	Brown silt, occasional sand and gravel, debris (glass, pvc, bolt) (soft, dry)	NS	<1	Some oxidation staining	
						ML	Dark brown silt, occasional gravel, (soft, dry)				
							Grades to dark brown silt with sand (medium stiff, moist)				
							Grades to light brown (very stiff, moist)				
5				DP-6 3.0-5.0 CA				NS	<1		

Date: 7/11/19 Path: P:\0504139\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

<b>Log of Boring DP-6</b>	
	Project: Stubblefield Salvage Yard Project Location: Walla Walla, Washington Project Number: 0504-139-00
Figure A-7 Sheet 1 of 1	

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	873 NAVD88				Hammer Data				Drilling Equipment	Geoprobe 6600			
Easting (X) Northing (Y)	2181217 273826				System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration				
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		55					ML	Brown silt with sand and gravel, orange staining (soft, moist)	NS	<1	
							ML	Dark brown silt with sand and occasional gravel (medium stiff, moist)			
870								Grades to light brown (stiff, moist)	NS	<1	
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-7



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	868 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2181175 273885			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		60			DP-8 0.0-2.0 CA	ML GP	Brown silt with sand and gravel (soft, moist) Gray angular gravel (medium dense, moist)	NS	<1		
						ML	Dark brown silt with sand (stiff, moist)				
868					DP-8 3.0-5.0 CA		Grades to light brown (very dense, moist)	NS	<1		
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-8



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	871 NAVD88				Hammer Data				Drilling Equipment	Geoprobe 6600			
Easting (X) Northing (Y)	2181168 273958				System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration				
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		50					ML	Brown silt with sand and gravel (soft, moist)	NS	<1	
870								Grades to dark brown silt with sand and occasional gravel (stiff, dry)			
								Grades to dark brown silt with sand (stiff, moist)			
								Grades to light brown	NS	<1	
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-9



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	871 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2181170 274011			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		45			DP-10 0.0-2.0 CA	ML	Brown silt with sand and gravel (wet)	NS	<1		
						GP	Gray fine to coarse gravel with silt (medium dense, moist)				
870						ML	Dark brown silt with sand (stiff, moist)				
							Grades to light brown				
					DP-10 3.0-5.0 CA			NS	<1		
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-10



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW





Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	868 NAVD88				Hammer Data							Drilling Equipment	Geoprobe 6600
Easting (X) Northing (Y)	2181242 274055				System Datum	WA State Plane South NAD83						Groundwater not observed at time of exploration	
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		50			DP-12 0.0-2.0 CA		ML	Brown silt with sand and organic matter (soft, moist) Grades to dense, moist	NS	<1	
868					DP-12 3.0-5.0 CA				NS	<1	Black; orange staining observed at 1 foot below ground surface
5											

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-12



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-13  
Sheet 1 of 1

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2181227 273982			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		55					ML	Brown silt with sand and gravel (soft, moist)	NS	<1	
								Grades to dark brown silt with sand, black staining, debris (styrofoam) (loose, moist)			
								Grades to brown silt with sand (soft, moist)			Some white veining in bottom 1 foot
5									NS	<1	

Date: 7/11/19 Path: P:\0504139\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

**Log of Boring DP-13**



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Start Drilled	11/27/2018	End	11/27/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	867 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 6600				
Easting (X) Northing (Y)	2181237 273909			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		55			DP-14 0.0-2.0 CA		ML	Brown silt with sand, gravel and debris (soft, moist)	NS	<1	Some orange oxidation staining
								Grades to dark brown silt with sand (soft, moist)			
								Grades to brown silt with sand (medium stiff, moist)			
5					DP-14 3.0-5.0 CA				NS	<1	

Date: 7/11/19 Path: P:\0504139\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-14



Project: Stubblefield Salvage Yard  
 Project Location: Walla Walla, Washington  
 Project Number: 0504-139-00

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	868 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181295 273855			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	50				DP-15 0.0-2.0 CA		ML	Brown silt with sand gravel (soft, moist)	NS	<1	
								Grades to dark brown silt with sand (medium stiff, moist)			
											Black staining from 1½ to 5 feet below ground surface
868					DP-15 3.0-5.0 CA				NS	<1	
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-15




Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88		Hammer Data					Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181370 273949		System Datum	WA State Plane South NAD83				Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		55					ML	Brown silt with sand, organic matter (roots) (soft, loose, moist)  Grades to brown silt with sand (medium stiff, moist)	NS	<1	
5									NS	<1	Orange oxidation staining

Date: 7/11/19 Path: P:\0504139\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DP\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

<b>Log of Boring DP-16</b>		
	Project:	Stubblefield Salvage Yard
	Project Location:	Walla Walla, Washington
	Project Number:	0504-139-00
		Figure A-17 Sheet 1 of 1



Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	868 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181320 273978			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0	50			DP-18 0.0-2.0 CA		ML	Brown silt with sand, organic matter (soft, moist)  Grades to brown silt with sand (slightly stiff, moist)	NS	<1	Oxidation staining	
868				DP-18 3.0-5.0 CA				NS	<1		
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-18



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_ENVIRONMENTAL\_STANDARD\_NO\_GW

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	3.5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	868 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181339 274009			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	Depth (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
		Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0			36				ML	Brown silt with sand (soft, moist)	NS	<1		
											Oxidation staining	
									NS	<1		
868												

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-19



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00





Start Drilled 11/28/2018	End 11/28/2018	Total Depth (ft) 3	Logged By Checked By ASC JRS	Driller Cascade Environmental	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum	867 NAVD88	Hammer Data	Drilling Equipment Geoprobe 7822 DT		
Easting (X) Northing (Y)	2181372 273746	System Datum	WA State Plane South NAD83		Groundwater not observed at time of exploration
Notes:					

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		30			DP-21 0.0-1.5 CA		ML	Brown silt with sand and rounded gravel (soft, moist) Increased gravel	NS	<1	
865					DP-21 1.5-3.0 CA			Grades to dark brown silt with sand (soft, moist)	NS	<1	

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-21



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	4	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	867 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181354 273802			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0			45				ML	Brown silt with sand and rounded gravel (soft, moist) Grades to medium stiff	NS	<1	
865									NS	<1	Refusal at 4 feet below ground surface. Sleeve was damaged due to dense material.

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-22



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-23  
Sheet 1 of 1

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	5	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined NAVD88				Hammer Data							Drilling Equipment	Geoprobe 7822 DT
Easting (X) Northing (Y)	2181389 273828				System Datum	WA State Plane South NAD83						Groundwater not observed at time of exploration	
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		36			DP-23 0.0-1.5 CA		ML	Brown silt with sand and debris (soft, moist)	NS	<1	
					DP-23 1.5-3.0 CA				NS	<1	
5											

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-23



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00



Start Drilled 11/28/2018	End 11/28/2018	Total Depth (ft) 3	Logged By Checked By ASC JRS	Driller Cascade Environmental	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88	Hammer Data	Drilling Equipment Geoprobe 7822 DT		
Easting (X) Northing (Y)	2181432 273747	System Datum	WA State Plane South NAD83		Groundwater not observed at time of exploration
Notes:					

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		28			DP-24 0.0-1.5 CA		ML	Dark brown silt with sand, gravel and organic material (soft, moist) Grades to brown silt with sand (medium stiff, moist)	NS	<1	
					DP-24 1.5-3.0 CA			Grades to light brown silt with sand (stiff, moist)	NS	<1	

Boring terminated at approximately 3 feet due to refusal

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-24



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-25  
Sheet 1 of 1



Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	3	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181567 273803			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		30					ML	Brown silt with sand, metal debris, occasional pea gravel (soft, moist)	NS	<1	
								Decreasing debris			
								Grades to light brown silt with sand (stiff, moist)	NS	<1	

Boring terminated at approximately 3 feet due to refusal

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-26



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	4	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181457 273811			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing						
0		46			DP-27 0.0-2.0 CA		ML	Brown silt with sand and trace fine gravel (medium stiff, moist)	NS	<1	
								Decreasing gravel content			
					DP-27 2.0-4.0 CA				NS	<1	
								Grades to light brown			

Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-27



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00



Start Drilled	11/28/2018	End	11/28/2018	Total Depth (ft)	4	Logged By	ASC	Checked By	JRS	Driller	Cascade Environmental	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	870 NAVD88			Hammer Data				Drilling Equipment	Geoprobe 7822 DT				
Easting (X) Northing (Y)	2181442 273848			System Datum	WA State Plane South NAD83			Groundwater not observed at time of exploration					
Notes:													

Elevation (feet)	FIELD DATA					Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Depth (feet)	Recovered (in)	Blows/foot	Collected Sample						
0		48					ML	Brown silt with sand and gravel (soft to loose, moist)	NS	<1	
								Grades to light brown	NS	<1	

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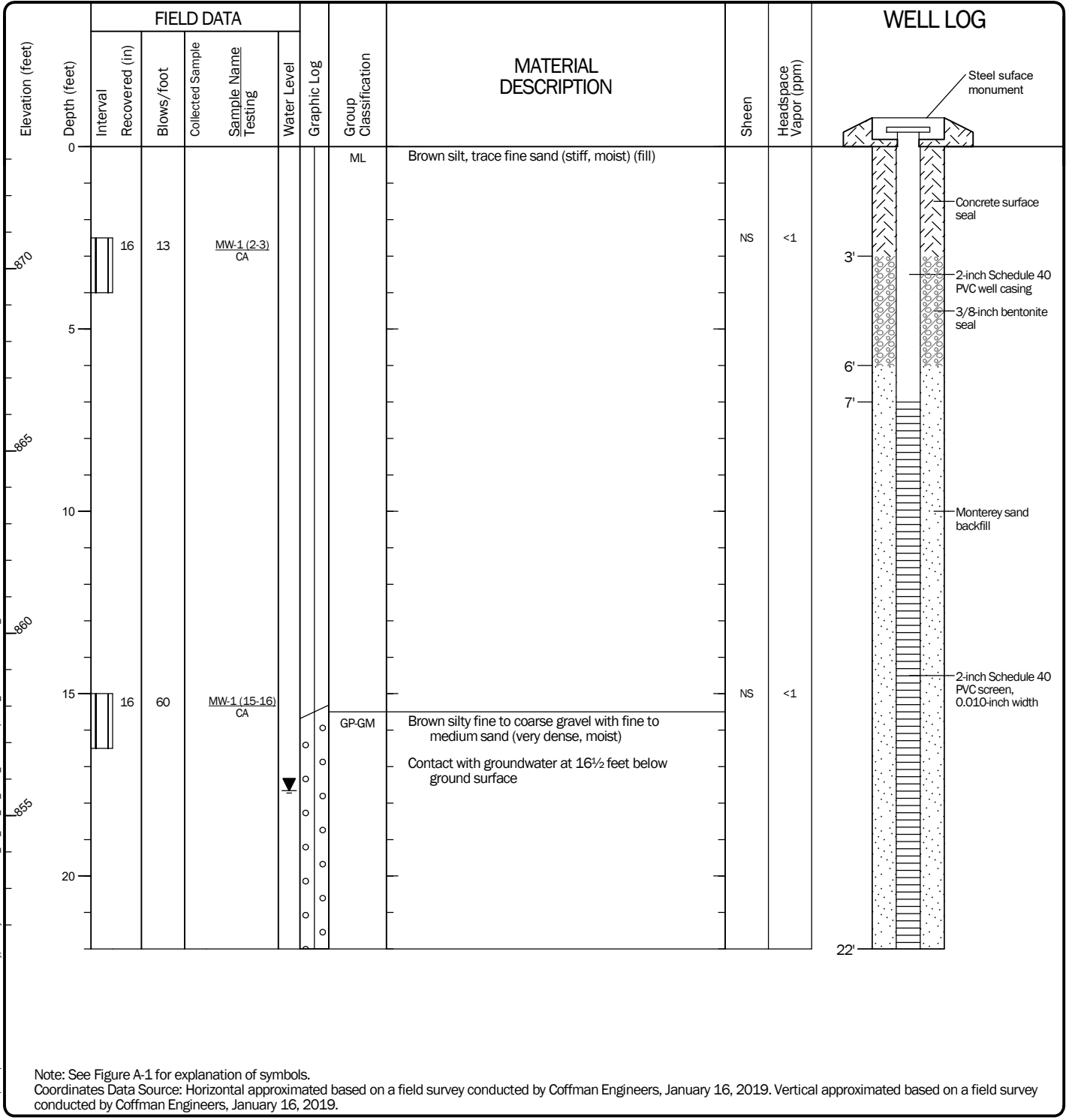
Note: See Figure A-1 for explanation of symbols.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Boring DP-28



Project: Stubblefield Salvage Yard  
 Project Location: Walla Walla, Washington  
 Project Number: 0504-139-00

Start Drilled 11/30/2018	End 11/30/2018	Total Depth (ft)	22	Logged By Checked By	JML JRS	Driller	Cascade Environmental	Drilling Method	Hollow-stem Auger	
Hammer Data		300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		A 2-in well was installed on 11/30/2018 to a depth of 22 ft.		
Surface Elevation (ft) Vertical Datum		873.34 NAVD88		Top of Casing Elevation (ft)		875.55		Groundwater		
Easting (X) Northing (Y)		2181578 273726		Horizontal Datum		WA State Plane South NAD83		Date Measured	Depth to Water (ft)	Elevation (ft)
								12/6/2018	17.66	857.89
Notes:										



Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on a field survey conducted by Coffman Engineers, January 16, 2019. Vertical approximated based on a field survey conducted by Coffman Engineers, January 16, 2019.

### Log of Monitoring Well MW-1

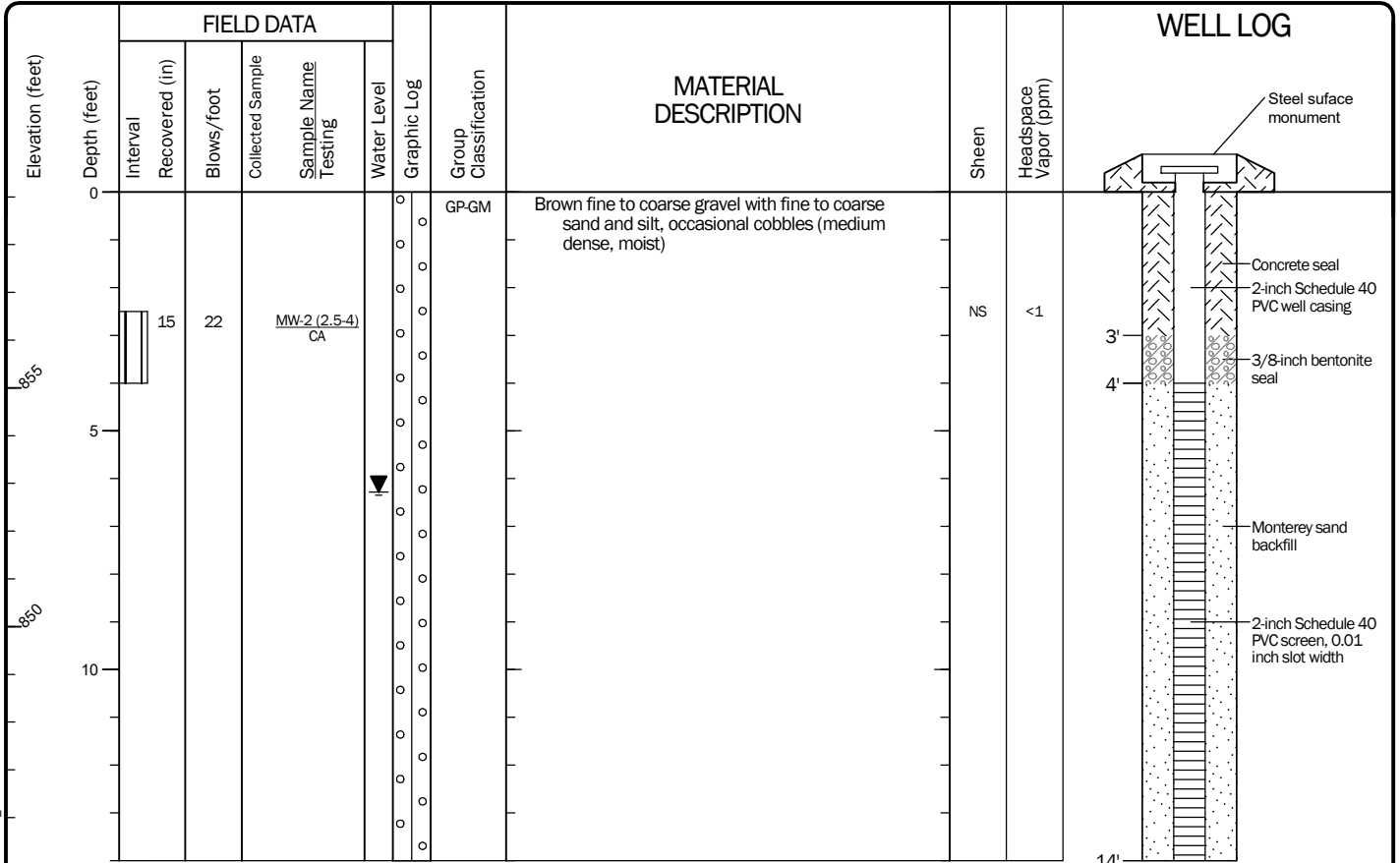


Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-30  
Sheet 1 of 1

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\ENVIRONMENTAL\_WELL

Start Drilled 11/30/2018	End 11/30/2018	Total Depth (ft)	14	Logged By Checked By	JML JRS	Driller	Cascade Environmental	Drilling Method	Hollow-stem Auger	
Hammer Data		300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		A 2-in well was installed on 11/30/2018 to a depth of 14 ft.		
Surface Elevation (ft) Vertical Datum		859.1 NAVD88		Top of Casing Elevation (ft)		861.67		Groundwater		
Easting (X) Northing (Y)		2181091 274266		Horizontal Datum		WA State Plane South NAD83		Date Measured	Depth to Water (ft)	Elevation (ft)
								12/6/2018	6.28	855.39
Notes:										



Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on a field survey conducted by Coffman Engineers, January 16, 2019. Vertical approximated based on a field survey conducted by Coffman Engineers, January 16, 2019.

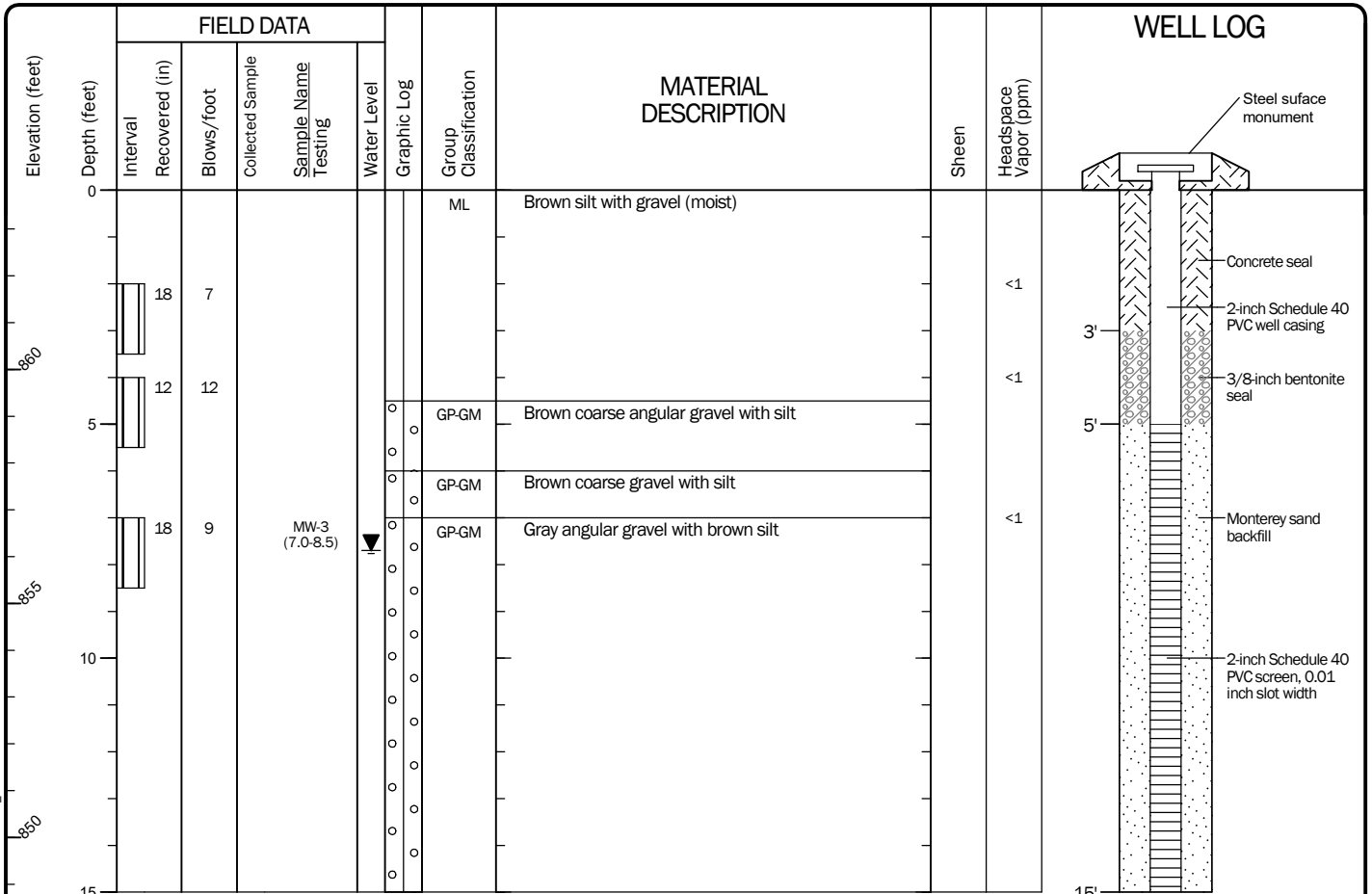
### Log of Monitoring Well MW-2



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-31  
Sheet 1 of 1

Start Drilled 11/30/2018	End 11/30/2018	Total Depth (ft)	15	Logged By Checked By	JML JRS	Driller	Cascade Environmental	Drilling Method	Hollow-stem Auger
Hammer Data		300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		A 2-in well was installed on 11/30/2018 to a depth of 15 ft.	
Surface Elevation (ft) Vertical Datum		863.83 NAVD88		Top of Casing Elevation (ft)		866.34		Groundwater Date Measured	
Easting (X) Northing (Y)		2181338 274290		Horizontal Datum		WA State Plane South NAD83		11/30/2018	
						Depth to Water (ft)		7.70	
								Elevation (ft) 858.64	
Notes:									



Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on a field survey conducted by Coffman Engineers, January 16, 2019. Vertical approximated based on a field survey conducted by Coffman Engineers, January 16, 2019.

### Log of Monitoring Well MW-3



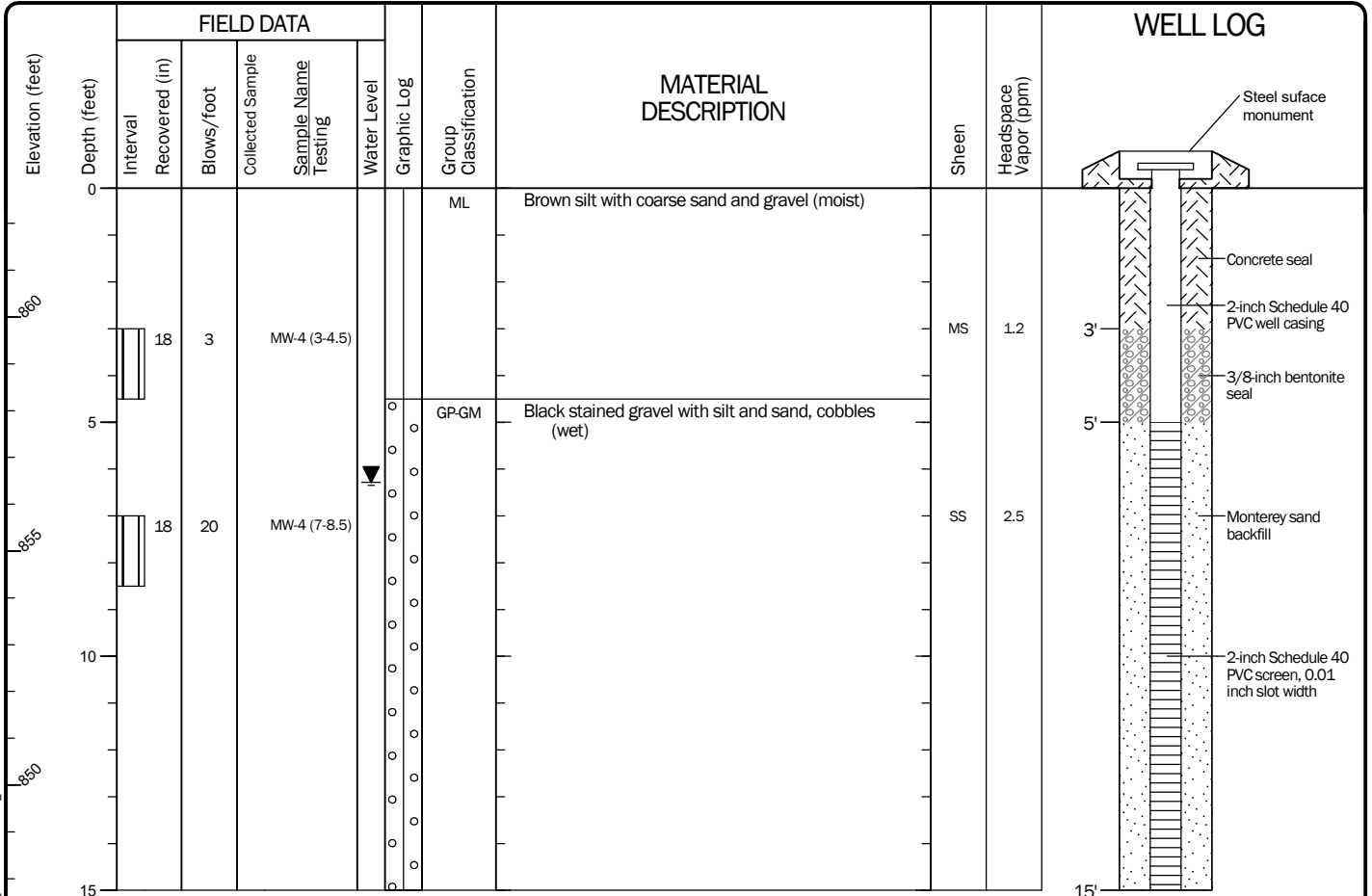
Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-32  
Sheet 1 of 1

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_ENVIRONMENTAL\_WELL



Start Drilled 11/30/2018	End 11/30/2018	Total Depth (ft)	15	Logged By Checked By	JML JRS	Driller	Cascade Environmental	Drilling Method	Hollow-stem Auger
Hammer Data		300 (lbs) / 30 (in) Drop		Drilling Equipment		CME 75		A 2-in well was installed on 11/30/2018 to a depth of 15 ft.	
Surface Elevation (ft)		862.75		Top of Casing Elevation (ft)		865.16		Groundwater	
Vertical Datum		NAVD88		Horizontal Datum		WA State Plane South NAD83		Date Measured	12/6/2018
Easting (X)		2181259		Depth to Water (ft)		6.28		Elevation (ft)	
Northing (Y)		274162						858.88	
Notes:									



Note: See Figure A-1 for explanation of symbols.  
Coordinates Data Source: Horizontal approximated based on a field survey conducted by Coffman Engineers, January 16, 2019. Vertical approximated based on a field survey conducted by Coffman Engineers, January 16, 2019.

### Log of Monitoring Well MW-4



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-33  
Sheet 1 of 1

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_ENVIRONMENTAL\_WELL

Date Excavated	11/26/2018	Total Depth (ft)	8.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed	
Checked By	JRS	Equipment	Volvo CC160D						
Surface Elevation (ft)	Undetermined	Easting (X)	2181496	Coordinate System	Horizontal Datum	WA State Plane South NAD83			
Vertical Datum	NAVD88	Northing (Y)	274369						

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					GP-GM	Light brown sandy fine angular gravel with (dense, plastic) silt (loose, moist) (fill)			
2			TP-1(2) CA		SW-SM	Brown fine sand with silt (loose, moist) (fill)	NS	<1	
3									
4									
5			TP-1(5) CA		GP-GM	Brown sandy fine to coarse rounded gravel with silt (medium dense, moist) (native)	NS	<1	Minor caving observed
6									
7									
8									Rapid groundwater seepage observed at 8 feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-1



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB6\_TESTPIT\_4P\_ENV

Date Excavated	11/26/2018	Total Depth (ft)	9	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181395		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274331		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
	1			○	GP-GM	Light brown sandy fine angular gravel with fine to coarse sand and silt (debris: metal, packaging, paper) (loose, moist) (fill)			
	2			○	GP-GM	Brown fine to coarse rounded gravel with fine to coarse sand and silt (medium dense, moist) (native)			
	3		TP-2(3) CA	○			NS	<1	
	4			○					
	5			○					
	6		TP-2(6) CA	○		Gravel is stained black at 6 to 6½ feet	NS	<1	Moderate caving observed
	7			○					
	8			○					Moderate groundwater seepage observed at 8½ feet below ground surface
	9			○					

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-2



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	11/26/2018	Total Depth (ft)	9	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined	Easting (X)	2181336	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274318	Horizontal Datum	NAD83			

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
	1				GP-GM	Light brown sandy fine angular gravel with silt (debris: metal, paper, plastic, aluminum cans) (loose, moist) (fill)			
	2				SM	Brown silty sand, occasional fine to coarse gravel and cobbles up to 10 inches (loose, moist)			
	3		TP-3(3) CA				NS	<1	
	4				GP	Brown coarse rounded gravel, trace sand and silt, occasional cobbles (medium dense, moist) (native)			
	5								
	6		TP-3(6) CA				NS	<1	Severe caving observed
	7								
	8								
	9								Moderate groundwater seepage observed at 8½ feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-3



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV



Date Excavated	11/26/2018	Total Depth (ft)	9	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined	Easting (X)	2181289	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274300	Horizontal Datum	NAD83			

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
	1			○	GP-GM	Light brown sandy fine gravel with silt (debris: plastic, wood pieces) (loose, moist) (fill)			
	2			○	SP-SM	Brown fine sand with gravel and silt (debris: brick) (medium dense, moist)			
	3			○		Grades to brown fine to medium sand with silt, occasional fine to coarse gravel (medium dense, moist)			
	3.5		TP-4(3) CA	○			NS	<1	
	4			○	GP-GM	Brown fine to coarse gravel with sand and silt (medium dense, moist)			
	6		TP-4(6) CA	○			NS	<1	Severe caving observed
	8.5			○					Moderate groundwater seepage observed at 8½ feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-4



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00





Date Excavated	11/27/2018	Total Depth (ft)	5.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181084		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274228		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					ML	Dark gray silt with fine to coarse gravel and fine to coarse sand, organic material (roots, grass, weeds) (debris: PVC, plastic, metal, trash, sticks) (soft, moist) (fill)			
2	1.5	TP-7(2)	CA			Grades to dark gray silt with sand, occasional fine to coarse gravel (soft, moist)	NS	<1	
3									
4					GP-GM	Brown fine to coarse gravel with silt and sand, occasional cobbles (medium dense, moist)			Rapid groundwater seepage observed at 4 feet below ground surface
5	4.5	TP-7(5)	CA				NS	<1	Minor caving observed

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-7



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Figure A-40  
Sheet 1 of 1

Date Excavated	11/27/2018	Total Depth (ft)	8.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed	
Checked By	JRS	Equipment	Volvo CC160D						
Surface Elevation (ft)	Undetermined	Easting (X)	2181198	Coordinate System	WA State Plane South	Vertical Datum	NAVD88	Horizontal Datum	NAD83

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					SP-SM	Light brown fine to coarse sand with fine to coarse gravel, silt, occasional cobbles (medium dense, moist) (fill)			
2									
3									
4									
5									Minor caving observed
6									
7			TP-8(7) CA		GP-GM	Brown fine to coarse rounded gravel with silt, trace sand, occasional cobbles (medium dense, moist) (native)	NS	<1	Moderate groundwater seepage observed at 7½ feet below ground surface
8									

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-8



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00



Date Excavated	11/27/2018	Total Depth (ft)	9	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181252		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274137		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing					
1				SP-SM	Light brown fine to coarse sand with silt, gravel and occasional cobbles (medium dense, moist) (fill)			
2								
3								
4								
5								
6		TP-9(6) CA		SM	Dark gray silty fine to medium sand, occasional gravel (medium dense, moist)	SS	<1	Minor caving observed
7								
8		TP-9(8) CA		GP-GM	Brown coarse rounded gravel with silt, trace fine to medium sand (medium dense, moist) (native)	HS	2.7	Moderate groundwater seepage observed at 8 feet below ground surface Oil seeping into test pit from northwest corner
9								

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-9



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date Excavated	11/27/2018	Total Depth (ft)	8.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181355		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274231		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					GP-GM	Light brown fine to coarse angular gravel with silt, sand, occasional cobbles (medium dense, moist) (fill)			
2									
3									
	3		TP-10(3) CA				NS	<1	
4									
5									
6									
	7		TP-10(7) CA		GP	Brown fine to coarse rounded gravel with fine to coarse sand, trace silt (medium dense, moist) (native)			
7								NS	<1
8									Moderate groundwater seepage observed at 8 feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-10



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date Excavated	11/27/2018	Total Depth (ft)	10	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed
Checked By	JRS	Equipment	Volvo CC160D					
Surface Elevation (ft)	Undetermined	Easting (X)	2181422	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274194	Horizontal Datum	NAD83			

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					ML	Dark brown sandy silt, occasional gravel (debris: brick, paper, wires, metal, plastic, pipes, belts, tires, pager) (medium stiff, moist) (fill)			
3	3.5	TP-11(3)	CA		SP-SM	Dark brown fine to medium sand with silt, occasional gravel (medium dense, moist) (fill)	NS	<1	
6	6.5	TP-11(6)	CA		GP-GM	Brown sandy fine to coarse rounded gravel with silt (medium dense, moist) (native)	NS	<1	Moderate caving observed
8									Moderate groundwater seepage observed at 8 feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-11



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date Excavated	11/28/2018	Total Depth (ft)	10	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed
Checked By	JRS	Equipment	Volvo CC160D					
Surface Elevation (ft)	Undetermined	Easting (X)	2181563	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274250	Horizontal Datum	NAD83			

Elevation (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
	Depth (feet)	Testing Sample						
1			○	GP-GM	Light brown fine to coarse angular gravel with silt, sand and cobbles (debris: metal, vines, wood) (loose, moist) (fill)			
2	1.8	TP-12(2)	○	ML	Brown sandy silt (medium stiff, moist)	NS	<1	
3								
4								
5	5.2	TP-12(5)	○			NS	<1	Minor caving observed
6								
7								
8			○	GP-GM	Brown fine to coarse rounded gravel with silt and sand (medium dense, moist) (native)			
9			○					
10			○					Moderate groundwater seepage observed at 9½ feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-12



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date Excavated	11/28/2018	Total Depth (ft)	10	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed
Checked By	JRS	Equipment	Volvo CC160D					
Surface Elevation (ft)	Undetermined	Easting (X)	2181585	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274111	Horizontal Datum	NAD83			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing					
1				SM	Dark brown silty fine to medium sand, occasional fine to coarse gravel, organic material (roots, weeds) (debris: brick, wood, plastic, metal, wires, bucket) (medium dense, moist) (fill)			
2	1.5	TP-13(2)	CA			NS	<1	
4				GP-GM	Brown fine to coarse gravel with silt, sand, occasional cobbles (medium dense, moist) (native)			
5	4.5	TP-13(5)	CA			NS	<1	Minor caving observed
6								
7								
8								
9								
9.5								Moderate groundwater seepage observed at 9½ feet below ground surface
10								

Date: 7/11/19 Path: P:\0\0504\139\GINT\0504\13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017\GLB\GEI6\_TESTPIT\_4P\_ENV

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-13



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00



Date Excavated	11/28/2018	Total Depth (ft)	15	Logged By	JML	Excavator	Spokane Environmental Solutions	Groundwater not observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181526		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274097		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					SP-SM	Light brown fine to coarse sand with fine to coarse gravel and silt, organic material (roots, weeds) (debris: brick, metal, wood) (loose, moist) (fill)			
2					ML	Brown sandy silt, occasional fine to coarse gravel (medium stiff, moist)			
3			TP-14(3) CA				NS	<1	
4									
5									
6			TP-14(6) CA				NS	<1	Minor caving observed
7									
8									
9									
10									
11						Grades to light gray silt with fine sand (medium stiff, moist)			
12									
13					GP-GM	Brown fine to coarse rounded gravel with silt, sand, occasional cobbles (very dense, moist) (native)			
14									
15									

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-14



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00


Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary\Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017\GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	11/28/2018	Total Depth (ft)	16.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed See "Remarks" section for caving observed
				Checked By	JRS	Equipment	Volvo CC160D	
Surface Elevation (ft)	Undetermined	Easting (X)	2181478	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274141	Horizontal Datum	NAD83			

Elevation (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
	Depth (feet)	Testing Sample						
1			○	GP-GM	Brown fine to coarse angular gravel with silt, sand, occasional cobbles (medium dense, moist) (fill)			
2			○					
3			○					
3.5	3.5	TP-15(3)		CA		NS	<1	
4								
5								
6								
7								
8			○	ML	Light brown sandy silt (medium stiff, moist) (native)			
8.5	8.5	TP-15(8)		CA			NS	<1
9								
10								
11								
12								
13			○	GP-GM	Brown fine to coarse rounded gravel with silt, sand, occasional cobbles (very dense, moist) (native)			
14			○					
15			○					
16			○					

Date: 7/11/19 Path: P:\05041390\GINT\050413900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017\GLB\GEI6\_TESTPIT\_4P\_ENV

Notes: See Figure A-1 for explanation of symbols.  
 The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
 Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

<b>Log of Test Pit TP-15</b>	
	Project: Stubblefield Salvage Yard Project Location: Walla Walla, Washington Project Number: 0504-139-00
	Figure A-48 Sheet 1 of 1

Date Excavated	11/28/2018	Total Depth (ft)	16	Logged By	JML	Excavator	Spokane Environmental Solutions	Groundwater not observed
				Checked By	JRS	Equipment	Volvo CC160D	Caving not observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181428		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274141		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					SP-SM	Dark brown fine to coarse sand with fine to coarse gravel and silt, occasional cobbles (debris: metal, branch, plastic, piping) (medium dense, moist) (fill)			
2	1.5	TP-16(2)	CA		ML	Brown sandy silt (medium stiff, moist)	NS	<1	
3									
4									
5									
6									
7									
8	7.5	TP-16(8)	CA				NS	<1	
9									
10									
11									
12									
13					GP-GM	Brown fine to coarse gravel with silt, sand, occasional cobbles (very dense, moist) (native)			
14									
15									
16									

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-16



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_TESTPIT\_4P\_ENV

Date Excavated	11/28/2018	Total Depth (ft)	12	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed Caving not observed
Checked By	JRS	Equipment	Volvo CC160D					
Surface Elevation (ft)	Undetermined	Easting (X)	2181530	Coordinate System	WA State Plane South			
Vertical Datum	NAVD88	Northing (Y)	274169	Horizontal Datum	NAD83			

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing					
1				SM	Light brown silty fine to medium sand, occasional cobbles (debris in top 1 foot: brick, metal, plastic, wood) (medium dense, moist)			
3	3.5	TP-17(3)	CA			NS	<1	
6	6.5	TP-17(3)	CA	GP-GM	Brown fine to coarse rounded gravel with silt, sand, occasional cobbles (very dense, moist) (native)	NS	<1	
11.5								Moderate groundwater seepage observed at 11½ feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

**Log of Test Pit TP-17**



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017\GLB\GEI6\_TESTPIT\_4P\_ENV

Date Excavated	11/28/2018	Total Depth (ft)	8.5	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed
				Checked By	JRS	Equipment	Volvo CC160D	See "Remarks" section for caving observed
Surface Elevation (ft)	Undetermined		Easting (X)	2181406		Coordinate System	WA State Plane South	
Vertical Datum	NAVD88		Northing (Y)	274260		Horizontal Datum	NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing					
	1			ML	Dark brown sandy silt with fine to coarse angular gravel (debris: rubber, plastic, brick, metal) (medium stiff, moist) (fill)			
	2			SM	Brown silty sand (medium dense, moist)			
	3	TP-18(3)	CA			NS	<1	
	4			GP-GM	Brown-red fine to coarse rounded gravel with silt, sand and occasional cobbles (very dense, moist) (native)			
	5							
	6	TP-18(6)	CA			NS	<1	Minor caving observed
	7							
	8							Moderate groundwater seepage observed at 8 feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 1/2 foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-18



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEI6\_TESTPIT\_4P\_ENV



Date Excavated	11/28/2018	Total Depth (ft)	16	Logged By	JML	Excavator	Spokane Environmental Solutions	See "Remarks" section for groundwater observed Caving not observed
				Checked By	JRS	Equipment	Volvo CC160D	
Surface Elevation (ft) Vertical Datum	Undetermined NAVD88		Easting (X) Northing (Y)	2181168 274064		Coordinate System Horizontal Datum	WA State Plane South NAD83	

Elevation (feet)	Depth (feet)	SAMPLE		Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	Notes
		Testing Sample	Sample Name Testing						
1					SM	Brown silty fine to medium sand with occasional fine to coarse gravel (debris top 1 foot: plastic, metal, wood) (very dense, moist)			
2	2.0	TP-19(2)	CA				NS	<1	
3									
4									
5	5.0	TP-19(5)	CA				NS	<1	
6									
7						Grades to light gray			
8	8.0	TP-19(8)	CA				NS	<1	
9									
10									
11									
12									
13									
14									
15									
16									Slight groundwater seepage observed at 16 feet below ground surface

Notes: See Figure A-1 for explanation of symbols.  
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to ½ foot.  
Coordinates Data Source: Horizontal approximated based on GPS coordinates by GIS PRO installed on an iPad. Vertical approximated based on GPS coordinates by GIS PRO installed on an iPad.

### Log of Test Pit TP-19



Project: Stubblefield Salvage Yard  
Project Location: Walla Walla, Washington  
Project Number: 0504-139-00

Date: 7/11/19 Path: P:\0504-139\GINT\0504-13900.GPJ DBLibrary/Library\GEOENGINEERS\_DF\_STD\_US\_JUNE\_2017.GLB\GEB\_TESTPIT\_4P\_ENV

## **APPENDIX B**

### **2018 RI Laboratory Reports and Data Validation Memo**

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<b>Project:</b>	Washington State Department of Ecology (Ecology) –Stubblefield Salvage Yard Remedial Investigation November 2018 Soil samples; December 2018 and March 2019 Water samples
<b>GEI File No:</b>	00504-139-00
<b>Date:</b>	January 27, 2020

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This report documents the results of a United States Environmental Protection Agency (EPA)-defined Stage 2A data validation (EPA 2009) of analytical data from the analyses of soil and water samples collected as part of the November and December 2018 and March 2019 sampling events at the Stubblefield Salvage Yard (site), and the associated laboratory and field quality control (QC) samples. The site is located at 595 Offner Road in Walla Walla, Washington.

Please note that this report was originally dated 4/29/2019. This report was revised on 1/27/2020 to include revisions to SDG 10457092 and the addition of SDG 590-12490-1.

## OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the EPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (EPA 2017a) and Inorganic Superfund Methods Data Review (EPA 2017b) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

In accordance with the Quality Assurance Project Plan (QAPP) in Appendix A of the Stubblefield Site Assessment Work Plan (GeoEngineers 2018), the data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method and Trip Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control samples/Laboratory Control sample Duplicates
- Laboratory/Field Duplicates

- Miscellaneous

## VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table B-1.

**TABLE B-1. SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS**

Laboratory SDG	Samples Validated
10457092	DP-1 (0.0-2.0), DP-1 (4.0-5.0), DP-2 (0.0-2.0), DP-2 (4.0-5.0), DP-3 (0.0-2.0), DP-3 (3.0-5.0), DP-4 (0.0-2.0), DP-4 (3.0-5.0), DP-5 (0.0-2.0), DP-5 (3.0-5.0), DP-6 (0.0-2.0), DP-6 (3.0-5.0), DP-7 (0.0-2.0), DP-7 (3.0-5.0), DP-8 (0.0-2.0), DP-8 (3.0-5.0), DP-9 (0.0-2.0), DP-9 (3.0-5.0), DP-10 (0.0-2.0), DP-10 (3.0-5.0), DP-11 (0.0-2.0), DP-11 (3.0-5.0), DP-12 (0.0-2.0), DP-12 (3.0-5.0), DP-13 (0.0-2.0), DP-13 (3.0-5.0), DP-14 (0.0-2.0), DP-14 (3.0-5.0), DP-15 (0.0-2.0), DP-15 (3.0-5.0), DP-16 (0.0-2.0), DP-16 (3.0-5.0), DP-17 (0.0-2.0), DP-17 (3.0-5.0), DP-18 (0.0-2.0), DP-18 (3.0-5.0), DP-19 (0.0-2.0), DP-19 (2.0-3.5), DP-20 (0.0-2.0), DP-20 (3.0-5.0), DP-21 (0.0-1.5), DP-21 (1.5-3.0), DP-22 (0.0-2.0), DP-22 (2.0-4.0), DP-23 (0.0-1.5), DP-23 (1.5-3.0), DP-24 (0.0-1.5), DP-24 (1.5-3.0), DP-25 (0.0-2.0), DP-25 (3.0-5.0), DP-26 (0.0-1.5), DP-26 (1.5-3.0), DP-27 (0.0-2.0), DP-27 (3.0-4.0), DP-28 (0.0-2.0), DP-28 (2.0-4.0), Trip Blanks
10457121	TP-1 (2), TP-1 (5), TP-2 (3), TP-2 (6), TP-3 (3), TP-3 (6), TP-4 (3), TP-4 (6), TP-5 (3), TP-5 (6), TP-6 (2), TP-6 (5), TP-7 (2), TP-7 (5), TP-8 (7), TP-9 (6), TP-9 (8), TP-10 (3), TP-10 (7), TP-11 (3), TP-11 (6), TP-12 (2), TP-12 (5), TP-13 (2), TP-13 (5), TP-14 (3), TP-14 (6), TP-15 (3), TP-15 (8), TP-16 (2), TP-16 (8), TP-17 (3), TP-17 (6), TP-18 (3), TP-18 (6), TP-19 (2), TP-19 (5), TP-19 (8), Trip Blanks
10457528	MW-1 (2-3), MW-1 (15-16), MW-2 (2.5-4), MW-3 (7-8.5), MW-4 (3-4.5), MW-4 (7-8.5), Trip Blank
10458136	MW-1:120618, MW-2:120618, MW-3:120618, MW-4:120618, DUP:120618, Trip Blank
590-10541-1	MW-1-030819, MW-2-030819, MW-3-030819, MW-4-030819
590-10541-2	
590-12490-1	HA 1 3.5-4, HA 2 3-4, HA 3 1-2, HA 4 1-2, HA 5 3-4

## CHEMICAL ANALYSIS PERFORMED

Pace Analytical Services, LLC (Pace), located in Minneapolis, Minnesota, performed laboratory analyses on the November and December 2018 samples using one or more of the following methods:

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method SW8260B;
- 1,2-Dibromoethane (EDB) by Method SW8011;
- Semi-volatile Organic Compounds (SVOCs) by Method SW8270D;
- Polycyclic Aromatic Hydrocarbons (PAHs) by Method SW8270D-SIM;
- Polychlorinated Biphenyls (PCBs) by Method SW8082A;

- Organochlorine Pesticides (Pesticides) by Method SW8081B;
- Total Metals by Methods EPA6010D, EPA6020B, and EPA7471B; and
- Total Metals Toxicity Characteristic Leaching Procedure (TCLP) by Method EPA6010D.

TestAmerica Laboratories, Inc. (TestAmerica), located in Spokane, Washington, performed laboratory analyses on the March 2019 samples using one or more of the following methods:

- Total and Dissolved Metals by Methods EPA200.7 Rev 4.4 and EPA245.1;
- Total and Dissolved Metals by Method EPA200.8; and
- Total Metals by Methods EPA6010C and EPA6020B.

## DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

### Data Package Completeness

Pace and TestAmerica provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

### Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory, with the following exceptions:

**SDG 10457092:** The laboratory noted that one sample vial was received broken for sample DP-10 (3.0-5.0). The sample was analyzed from the remaining sample vials.

The laboratory noted that one sample vial was received unlabeled. The sample was determined by process of elimination to be for sample DP-9 (0.0-2.0).

**SDG 590-10541-2:** The laboratory noted that Method 200.8 analysis was requested by Ecology on 3/28/2019 to achieve lower reporting limits to meet the project cleanup levels. This method was added to the COC for samples MW-1-030819, MW-2-030819, MW-3-030819, and MW-4-030819.

### Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding times exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between 2 and 6 degrees Celsius, with the exceptions noted below.

**SDG 10457092:** Six sample cooler temperatures recorded at the laboratory were 0.1, 0.4, 0.8, 0.7, 0.9, and 1.0 degrees Celsius. It was determined through professional judgment that since the samples were not frozen, these temperatures should not affect the sample analytical results.



(NWTPH-Gx) The laboratory noted that sample DP-24 (1.5-3.0) was analyzed from a sample vial with headspace. The reporting limit for gasoline-range hydrocarbons was qualified as estimated (UJ) in this sample due to possible loss of analyte concentration.

(VOCs) The 14-day holding time for low level VOC analysis was exceeded in samples DP-1 (0.0-2.0), DP-1 (4.0-5.0), DP-2 (0.0-2.0), DP-2 (4.0-5.0), DP-3 (0.0-2.0), DP-3 (3.0-5.0), DP-4 (0.0-2.0), DP-4 (3.0-5.0), DP-5 (0.0-2.0), DP-5 (3.0-5.0), DP-6 (0.0-2.0), DP-6 (3.0-5.0), DP-7 (0.0-2.0), DP-7 (3.0-5.0), DP-8 (0.0-2.0), DP-8 (3.0-5.0), DP-9 (0.0-2.0), DP-9 (3.0-5.0), DP-10 (0.0-2.0), DP-10 (3.0-5.0), DP-11 (0.0-2.0), DP-11 (3.0-5.0), DP-12 (0.0-2.0), DP-12 (3.0-5.0), DP-13 (0.0-2.0), DP-13 (3.0-5.0), DP-14 (0.0-2.0), DP-14 (3.0-5.0), DP-15 (0.0-2.0), DP-15 (3.0-5.0), DP-16 (0.0-2.0), DP-16 (3.0-5.0), DP-17 (0.0-2.0), DP-17 (3.0-5.0), DP-18 (0.0-2.0), DP-18 (3.0-5.0), DP-19 (0.0-2.0), DP-19 (2.0-3.5), DP-20 (0.0-2.0), DP-20 (3.0-5.0), DP-21 (0.0-1.5), DP-21 (1.5-3.0), DP-22 (0.0-2.0), DP-22 (2.0-4.0), DP-23 (0.0-1.5), DP-23 (1.5-3.0), DP-24 (0.0-1.5), DP-24 (1.5-3.0), DP-25 (0.0-2.0), DP-25 (3.0-5.0), DP-26 (0.0-1.5), DP-26 (1.5-3.0), DP-27 (0.0-2.0), DP-27 (3.0-4.0), DP-28 (0.0-2.0), and DP-28 (2.0-4.0). The positive result and reporting limits for 1,2-dibromoethane and methylene chloride were qualified as estimated (J and UJ, accordingly) in these samples.

(Metals) The 180-day holding time for metals analysis was exceeded in Samples DP-1 (0.0-2.0), DP-1 (4.0-5.0), DP-3 (3.0-5.0), DP-5 (3.0-5.0), DP-6 (3.0-5.0), DP-8 (0.0-2.0), DP-11 (0.0-2.0), DP-12 (0.0-2.0), DP-17 (0.0-2.0), and DP-23 (1.5-3.0). The positive results for total thallium were qualified as estimated (J) in these samples.

**SDG 10457121:** Four sample cooler temperatures recorded at the laboratory were 0.4, 0.8, 1.0, and 1.0 degrees Celsius. It was determined through professional judgment that since the samples were not frozen, these temperatures should not affect the sample analytical results.

(NWTPH-Gx) The laboratory noted that sample TP-3 (3) was analyzed from a sample vial with headspace. The reporting limit for gasoline-range hydrocarbons was qualified as estimated (UJ) in this sample due to possible loss of analyte concentration.

(VOCs) The 14-day holding time for low level VOC analysis was exceeded in samples TP-1 (2), TP-1 (5), TP-2 (3), TP-2 (6), TP-3 (3), TP-3 (6), TP-4 (3), TP-4 (6), TP-5 (3), TP-5 (6), TP-6 (2), TP-6 (5), TP-7 (2), TP-7 (5), TP-8 (7), TP-9 (6), TP-9 (8), TP-10 (3), TP-10 (7), TP-11 (3), TP-11 (6), TP-12 (2), TP-12 (5), TP-13 (2), TP-13 (5), TP-14 (3), TP-14 (6), TP-15 (3), TP-15 (8), TP-16 (2), TP-16 (8), TP-17 (3), TP-17 (6), TP-18 (3), TP-18 (6), TP-19 (2), TP-19 (5), and TP-19 (8). The positive result and reporting limits for 1,2-dibromoethane and methylene chloride were qualified as estimated (J and UJ, accordingly) in these samples.

**SDG 10457528:** (NWTPH-Gx) The laboratory noted that sample MW-1 (15-16) was analyzed from a sample vial with headspace. The positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample due to possible loss of analyte concentration.

(VOCs) The 14-day holding time for low level VOC analysis was exceeded in samples MW-1 (2-3), MW-1 (15-16), MW-2 (2.5-4), MW-3 (7-8.5), MW-4 (3-4.5), and MW-4 (7-8.5). The reporting limits for 1,2-dibromoethane and methylene chloride were qualified as estimated (UJ) in these samples.

**SDG 10458136:** (VOCs) The 14-day holding time for Method 8011 VOC analysis was exceeded in samples MW-1:120618, MW-2:120618, MW-3:120618, MW-4:120618, and DUP:120618. The reporting limits for 1,2-dibromoethane were qualified as estimated (UJ) in these samples.

## Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exceptions:

**SDG 10457092:** (NWTPH-Dx) The percent recoveries for surrogates n-triacontane and o-terphenyl were outside the control limits in samples DP-6 (0.0-2.0) and DP-23 (0.0-1.5), because of sample dilution (10X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for these outliers.

(PAHs) The percent recoveries for surrogates 2-fluorobiphenyl and p-terphenyl-d14 were outside the control limits in samples DP-4 (0.0-2.0), DP-6 (0.0-2.0), DP-20 (0.0-2.0), and DP-23 (1.5-3.0), because of sample dilution (10X, 20X, and 100X, depending on the sample). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for these outliers.

The percent recoveries for surrogate 2-fluorobiphenyl were less than the control limits in samples DP-4 (3.0-5.0), DP-5 (3.0-5.0), DP-6 (3.0-5.0), and DP-7 (3.0-5.0); however, the samples were spiked with an additional surrogate, each within the control limits. No action was required for these outliers.

The percent recoveries for surrogate p-terphenyl-d14 were less than the control limits in samples DP-19 (2.0-3.5) and DP-22 (2.0-4.0); however, the samples were spiked with an additional surrogate, each within the control limits. No action was required for these outliers.

**SDG 10457121:** (NWTPH-Dx) The percent recoveries for surrogates n-triacontane and o-terphenyl were outside the control limits in sample TP-12 (2), because of sample dilution (20X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for these outliers.

(VOCs) The percent recovery for surrogate 1,2-dichloroethane-d4 was greater than the control limits in sample TP-1 (5); however, the sample was spiked with two additional surrogates, each within their control limits. No action was required for this outlier.

(SVOCs) The percent recoveries for surrogate 2,4,6-tribromophenol were less than the control limits in samples TP-11 (3) and TP-11 (6); however, the samples were spiked with two additional acidic surrogates, each within their control limits. No action was required for these outliers.

(Pesticides) The percent recoveries for surrogates decachlorobiphenyl and tetrachloro-m-xylene were outside the control limits in samples TP-1 (2) and TP-1 (5), because of sample dilution (10X). The surrogates are added to the sample when it is extracted. If the sample is diluted 10X or more, recovery of the surrogates is often not possible because it is also diluted below the linear calibration range of the instrument. No action was required for these outliers.

**SDG 10457528:** (SVOCs) The percent recoveries for surrogates 2-fluorobiphenyl, 2-fluorophenol, 2,4,6-tribromophenol, nitrobenzene-d5, p-terphenyl-d14, and phenol-d6 were less than the control limits

in sample MW-1 (15-16). The positive result and reporting limits for the SVOC target analytes were qualified as estimated (J and UJ, accordingly) in this sample.

The percent recoveries for surrogate 2,4,6-tribromophenol were less than the control limits in samples MW-2 (2.5-4), MW-4 (3-4.5), and MW-4 (7-8.5); however, the samples were spiked with two additional acidic surrogates, each within their control limits. No action was required for these outliers.

**SDG 10458136:** (SVOCs) The percent recoveries for surrogate 2-fluorobiphenyl were less than the control limits in samples MW-1:120618, MW-2:120618, MW-3:120618, MW-4:120618, and Dup:120618; however, the samples were spiked with two additional base-neutral surrogates, each within their control limits. No action was required for these outliers.

## Method and Trip Blanks

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected in the method blanks, with the following exceptions:

**SDG 10457092:** (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/11/2018 at 14:06. The positive results for this target analyte were qualified as non-detected (U) in samples DP-21 (1.5-3.0), DP-22 (0.0-2.0), and DP-22 (2.0-4.0). There were no positive results for this target analyte in the remaining associated field samples for this sample batch; therefore, no qualifications were required.

There was a positive result for gasoline-range hydrocarbons detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/11/2018 at 12:55. There were no positive results for this target analyte in the associated field sample for this sample batch; therefore, no qualification was required.

(VOCs) There were positive results for 1,2,3-trichlorobenzene and acetone detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/6/2018 at 13:46. The positive results for acetone were qualified as non-detected (U) in samples DP-2 (0.0-2.0), DP-2 (4.0-5.0), DP-3 (0.0-2.0), DP-3 (3.0-5.0), DP-4 (0.0-2.0), DP-4 (3.0-5.0), and trip blanks. There were no positive results for 1,2,3-trichlorobenzene in the associated field samples for this sample batch; therefore, no qualifications were required.

There were positive results for 1,2,3-trichlorobenzene and acetone detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/7/2018 at 14:28. The positive results for acetone were qualified as non-detected (U) in samples DP-5 (3.0-5.0) and DP-6 (3.0-5.0). There were no positive results for acetone in samples DP-5 (0.0-2.0) and DP-6 (0.0-2.0); and there were no positive results for 1,2,3-trichlorobenzene in the associated field samples for this sample batch; therefore, no qualifications were required.

There was a positive result for benzene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/10/2018 at 10:49. The positive result for this target analyte was qualified as non-detected (U) in sample DP-14 (0.0-2.0). There were no positive results for

this target analyte in the remaining associated field samples for this sample batch; therefore, no qualifications were required.

There were positive results for benzene, ethylbenzene, hexachloro-1,3-butadiene, and methyl-tert-butyl ether detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/11/2018 at 11:58. The positive results for benzene were qualified as non-detected (U) in samples DP-15 (3.0-5.0), DP-16 (0.0-2.0), DP-16 (3.0-5.0), DP-17 (0.0-2.0), DP-17 (3.0-5.0), DP-18 (0.0-2.0), DP-18 (3.0-5.0), and DP-19 (0.0-2.0). There were no positive results for benzene in sample DP-15 (0.0-2.0); and there were no positive results for ethylbenzene, hexachloro-1,3-butadiene, and methyl-tert-butyl ether in the associated field samples for this sample batch; therefore, no qualifications were required.

There were positive results for benzene and toluene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/12/2018 at 14:29. The positive result for toluene was qualified as non-detected (U) in sample DP-24 (1.5-3.0). There were no positive results for toluene in the remaining associated field samples for this sample batch; and there were no positive results for benzene in the associated field samples for this sample batch; therefore, no qualifications were required.

(PAHs) There was a positive result for fluoranthene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/4/2018 at 16:22. The positive results for this target analyte were qualified as non-detected (U) in samples DP-11 (0.0-2.0), DP-11 (3.0-5.0), DP-12 (3.0-5.0), DP-13 (3.0-5.0), and DP-14 (3.0-5.0). The positive results for this target analyte were detected above the reporting limits or greater than 10X the concentration in the method blank in samples DP-12 (0.0-2.0), DP-13 (0.0-2.0), and DP-14 (0.0-2.0); therefore, no qualifications were required.

There were positive results for anthracene, fluoranthene, and pyrene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/10/2018 at 12:55. The positive results for anthracene, fluoranthene, and pyrene were qualified as non-detected (U) in samples DP-1 (4.0-5.0) and DP-3 (0.0-2.0). The positive results for anthracene and fluoranthene were qualified as non-detected (U) in sample DP-2 (0.0-2.0). The positive results for fluoranthene were qualified as non-detected (U) in samples DP-2 (4.0-5.0), DP-3 (3.0-5.0), DP-4 (3.0-5.0), DP-5 (3.0-5.0), DP-8 (3.0-5.0), DP-9 (3.0-5.0), and DP-10 (3.0-5.0). The positive results for fluoranthene and pyrene were qualified as non-detected (U) in samples DP-7 (3.0-5.0), DP-8 (0.0-2.0), and DP-9 (0.0-2.0). There were no positive results for pyrene in sample DP-2 (0.0-2.0); there were no positive results for anthracene and pyrene in samples DP-2 (4.0-5.0), DP-3 (3.0-5.0), DP-4 (3.0-5.0), DP-5 (3.0-5.0), DP-8 (3.0-5.0), DP-9 (3.0-5.0), and DP-10 (3.0-5.0); there were no positive results for anthracene in samples DP-7 (3.0-5.0), DP-8 (0.0-2.0), and DP-9 (0.0-2.0); and the positive results for anthracene, fluoranthene, and pyrene were detected above the reporting limits or greater than 10X the concentration in the method blank in samples DP-1 (0.0-2.0), DP-4 (0.0-2.0), DP-5 (0.0-2.0), DP-6 (0.0-2.0), DP-6 (3.0-5.0), DP-7 (0.0-2.0), and DP-10 (0.0-2.0); therefore, no qualifications were required.

There was a positive result for fluoranthene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/12/2018 at 19:07. The positive result for this target analyte was detected above the reporting limit in sample DP-15 (0.0-2.0); therefore, no qualification was required.

**SDG 10457121:** (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/11/2018 at 12:55. The positive results for this target analyte were qualified as non-detected (U) in samples TP-13 (2), TP-17 (3), and TP-19 (5). There were no positive results for this target analyte in samples

TP-12 (5), TP-13 (5), TP-14 (3), TP-14 (6), TP-15 (3), TP-15 (8), TP-16 (2), TP-16 (8), TP-17 (6), TP-18 (3), TP-18 (6), and TP-19 (2); and the positive result for this target analyte was detected above the reporting limit in sample TP-12 (2); therefore, no qualifications were required.

(VOCs) There were positive results for 1,2,3-trichlorobenzene and acetone detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/6/2018 at 13:46. The positive results for acetone were qualified as non-detected (U) in samples TP-2 (3), TP-3 (6), TP-4 (6), and Trip Blanks. There were no positive results for 1,2,3-trichlorobenzene in samples TP-2 (3), TP-3 (6), TP-4 (6), and trip blanks; and there were no positive results for 1,2,3-trichlorobenzene and acetone in samples TP-1 (2), TP-2 (6), TP-3 (3), and TP-4 (3); therefore, no qualifications were required.

There were positive results for 1,2,3-trichlorobenzene and acetone detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/7/2018 at 14:28. The positive results for these target analytes were qualified as non-detected (U) in sample TP-1 (5).

There was a positive result for benzene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/10/2018 at 10:49. The positive result for this target analyte was qualified as non-detected (U) in sample TP-6 (2). There were no positive results for this target analyte in samples TP-5 (3), TP-5 (6), and TP-6 (5); therefore, no qualifications were required.

There were positive results for 1,2-dichloroethane and benzene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/10/2018 at 15:39. The positive result for benzene was qualified as non-detected (U) in sample TP-8 (7). There were no positive results for 1,2-dichloroethane in sample TP-8 (7); and there were no positive results for these target analytes in samples TP-7 (2), TP-7 (5), TP-9 (6), TP-9 (8), TP-10 (3), TP-10 (7), TP-11 (3), and TP-11 (6); therefore, no qualifications were required.

There was a positive result for acetone detected in the method blank extracted on 12/11/2018 at 19:12. The positive results for acetone were qualified as non-detected (U) in samples TP-13 (2), TP-13 (5), TP-14 (3), TP-14 (6), TP-15 (3), TP-15 (8), TP-16 (8), TP-17 (3), TP-17 (6), TP-18 (3), TP-18 (6), TP-19 (2), TP-19 (5), and TP-19 (8). There were no positive results for this target analyte in sample TP-16 (2); therefore, no qualification was required.

(Total Metals) There was a positive result for total zinc detected above the method detection limit, but below the reporting limit in the method blank digested on 12/6/2018 at 14:27. The positive results for this target analyte were detected above the reporting limits in the associated field samples for this sample batch; therefore, no qualifications were required.

**SDG 10457528:** (NWTPH-Gx) There was a positive result for gasoline-range hydrocarbons detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/12/2018 at 14:51. The positive results for this target analyte were qualified as non-detected (U) in samples MW-1 (15-16) and MW-2 (2.5-4). There were no positive results for this target analyte in samples MW-1 (2-3) and trip blank; therefore, no qualifications were required.

(NWTPH-Dx) There was a positive result for diesel-range hydrocarbons detected above the method detection limit, but below the reporting limit and a positive result for motor oil-range hydrocarbons in the method blank extracted on 12/11/2018 at 13:13. The positive results for these target analytes were qualified as non-detected (U) in samples MW-1 (2-3), MW-1 (15-16), and MW-2 (2.5-4).

(VOCs) There were positive results for benzene and ethylbenzene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/12/2018 at 17:36. The positive result for benzene was qualified as non-detected (U) in sample trip blank. There were no positive results



for ethylbenzene in sample trip blank; and there were no positive results for these target analytes in samples MW-1 (2-3), MW-1 (15-16), and MW-2 (2.5-4); therefore, no qualifications were required.

There was a positive result for benzene detected above the method detection limit, but below the reporting limit in the method blank extracted on 12/13/2018 at 09:18. There were no positive results for this target analyte in the associated field samples for this sample batch; therefore, no qualifications were required.

(Total Metals) There were positive results for total copper and total nickel detected above the method detection limit, but below the reporting limit in the method blank digested on 12/6/2018 at 10:26. The positive results for this target analyte were detected above the reporting limits or greater than 10X the concentration in the method blank in the associated field samples for this sample batch; therefore, no qualifications were required.

### Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks, with the exceptions of acetone and benzene which were qualified as non-detected due to method blank contamination, accordingly.

### **Matrix Spikes/Matrix Spike Duplicates**

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

**SDG 10457092:** (NWTPH-Dx) The laboratory performed an MS/MSD sample set on sample DP-1 (0.0-2.0). The percent recoveries for diesel- and motor oil-range hydrocarbons were less than the control limits in the MS/SMD sample set extracted on 11/30/2018 at 17:47. The positive results for these target analytes were qualified as estimated (J) in this sample.

The laboratory performed an MS/MSD sample set on sample DP-21 (0.0-1.5). The percent recoveries for diesel- and motor oil-range hydrocarbons were greater than the control limits in the MS/SMD sample set extracted on 12/3/2018 at 14:49. The positive results for these target analytes were qualified as estimated (J) in this sample.

(VOCs) The laboratory performed multiple MS/MSD sample sets with QC outliers; however, they were performed on samples from a different SDG and are not associated with field samples within this SDG; therefore, no action was required.

The laboratory performed an MS/MSD sample set on sample DP-23 (0.0-1.5). The RPD values for most of the VOC target analytes were greater than the control limit in the MS/MSD sample set extracted on 12/11/2018 at 16:21. There were no positive results for these target analytes in this sample; therefore, no qualifications were required.

(PAHs) The laboratory performed multiple MS/MSD sample sets with QC outliers; however, they were performed on samples from a different SDG and are not associated with field samples within this SDG; therefore, no action was required.

The laboratory performed an MS/MSD sample set on sample DP-25 (0.0-2.0). The percent recoveries for acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were less than the control limits in the MS/MSD sample set extracted on 12/6/2018 at 08:43. The positive results for these target analytes were qualified as estimated (J) in this sample.

Additionally, in the same MS/MSD sample set, the RPD values for anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were greater than the control limit. The positive results for these target analytes were qualified as estimated (J) in this sample.

Also, in the same MS/MSD sample set, the percent recoveries for acenaphthene, benzo(k)fluoranthene, and dibenzo(a,h)anthracene were less than the control limits in the MSD; however, the percent recoveries for these target analytes were within the control limits in the corresponding MS. No action was required for these outliers.

The laboratory performed an MS/MSD sample set on sample DP-1 (0.0-2.0). The percent recoveries for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were outside than the control limits in the MS/MSD sample set extracted on 12/10/2018 at 12:55. The positive results for these target analytes were qualified as estimated (J) in this sample.

Additionally, in the same MS/MSD sample set, the RPD values for acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were greater than the control limit. The positive results for these target analytes were qualified as estimated (J) in this sample.

Also, in the same MS/MSD sample set, the percent recoveries for acenaphthylene, anthracene, and fluorene were less than the control limits in the MS; however, the percent recoveries for these target analytes were within the control limits in the corresponding MSD. No action was required for these outliers.

(Total Metals) The laboratory performed an MS/MSD sample set on sample DP-1 (0.0-2.0). The percent recoveries for total antimony, total chromium, total nickel, and total thallium were less than the control limits in the MS/MSD digested on 12/6/2018 at 08:15. The positive results for total chromium, total nickel, and total thallium and the reporting limits for total antimony were qualified as estimated (J and UJ, accordingly) in samples DP-1 (0.0-2.0) and DP-1 (4.0-5.0).

Additionally, in the sample MS/MSD sample set, the percent recoveries for total copper and total zinc were greater than the control limits in the MS and MSD. The positive results for these target analytes were qualified as estimated (J) in samples DP-1 (0.0-2.0) and DP-1 (4.0-5.0).

Also, in the same MS/MSD sample set, the percent recovery for total lead was greater than the control limits in the MSD; however, the percent recovery for this target analyte was within the control limits in the corresponding MS. No action was required for this outlier.

The laboratory performed an MS/MSD sample set on sample DP-11 (0.0-2.0). The percent recoveries for total antimony were less than the control limits in the MS/MSD digested on 12/6/2018 at 14:26. The reporting limits for this target analyte were qualified as estimated (UJ) in samples DP-11 (0.0-2.0) and DP-11 (3.0-5.0).

The laboratory performed an MS/MSD sample set on sample DP-21 (0.0-1.5). The percent recoveries for total antimony, total arsenic, total beryllium, total cadmium, total chromium, total copper, total lead, total nickel, total selenium, total silver, total thallium, and total zinc were less than the control limits in the MS/MSD digested on 12/6/2018 at 12:12. The positive results and reporting limits for these target analytes were qualified as estimated (J and UJ, accordingly) in samples DP-21 (0.0-1.5) and DP-21 (1.5-3.0).

**SDG 10457121:** (NWTPH-Dx) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample from a different SDG and is not associated with field samples within this SDG; therefore, no action was required.

The laboratory performed an MS/MSD sample set on sample TP-12 (2). The percent recoveries for diesel- and motor oil-range hydrocarbons were outside the control limits in the MS/MSD sample set extracted on 12/5/2018 at 15:46. The positive results for these target analytes were qualified as estimated (J) in this sample.

(VOCs) The laboratory performed multiple MS/MSD sample sets with QC outliers; however, they were performed on samples from a different SDG and are not associated with field samples within this SDG; therefore, no action was required.

The laboratory performed an MS/MSD sample set on sample TP-1 (5). The percent recoveries for multiple VOC target analytes were outside the control limits in the either the MS or MSD extracted on 12/7/2018 at 14:28; however, the percent recoveries for these target analytes were within the control limits in the corresponding MSD or MS. No action was required for these outliers.

The laboratory performed an MS/MSD sample set on sample TP-11 (3). The percent recoveries for multiple VOC target analytes were greater than the control limits in the MSD extracted on 12/10/2018 at 15:39; however, the percent recoveries for these target analytes were within the control limits in the corresponding MS. No action was required for these outliers.

(SVOCs) The laboratory performed an MS/MSD sample set on sample TP-3 (3). The RPD values for benzo(a)anthracene, benzo(a)pyrene, chrysene, fluoranthene, and pyrene were greater than the control limits in the MS/MSD sample set extracted on 12/10/2018 at 08:54. The positive results for these target analytes were qualified as estimated (J) in this sample.

(Pesticides) The laboratory performed an MS/MSD sample set on sample TP-12 (2). The percent recoveries for 4,4'-DDD, 4,4'-DDE, and heptachlor epoxide were less than the control limits in the MS/MSD extracted on 12/5/2018 at 16:14. The positive results for these target analytes were qualified as estimated (J) in this sample.

(Total Metals) The laboratory performed an MS/MSD sample set on sample TP-1 (2). The percent recoveries for total antimony and total silver were less than the control limits in the MS/MSD digested on

12/6/2018 at 14:27. The positive result and reporting limits for these target analytes were qualified as estimated (J and UJ, accordingly) in samples TP-1 (2) and TP-1 (5).

Additionally, in the sample MS/MSD sample set, the RPD values for total antimony, total arsenic, total beryllium, total cadmium, total chromium, total copper, total nickel, total selenium, and total thallium were greater than the control limits. The positive results for total arsenic, total beryllium, total chromium, total copper, and total nickel were qualified as estimated (J) in sample TP-1 (2). The positive results for total arsenic, total beryllium, total cadmium, total chromium, total copper, and total nickel were qualified as estimated (J) in sample TP-1 (5). There were no positive results for total cadmium, total selenium, and total thallium in sample TP-1 (2) and there were no positive results for total selenium and total thallium in sample TP-1 (5); therefore, no qualifications were required.

Also, in the same MS/MSD sample set, the percent recoveries for total arsenic, total selenium, and total thallium were less than the control limits in the MS; however, the percent recoveries for these target analytes were within the control limits in the corresponding MSD. No action was required for these outliers.

The laboratory performed an MS/MSD sample set on sample TP-11 (6). The percent recoveries for total antimony and total zinc were less than the control limits in the MS/MSD sample set digested on 12/7/2018 at 10:11. The positive results for total zinc and the reporting limits for total antimony were qualified as estimated (J and UJ, accordingly) in samples TP-11 (3) and TP-11 (6).

Additionally, in the sample MS/MSD sample set, the percent recoveries for total arsenic, total selenium, and total thallium were less than the control limits in the MSD; however, the percent recoveries for these target analytes were within the control limits in the corresponding MS. No action was required for these outliers.

**SDG 10457528:** (VOCs) The laboratory performed multiple MS/MSD sample sets with QC outliers; however, they were performed on samples from a different SDG and are not associated with field samples within this SDG; therefore, no action was required.

(PAHs) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample from a different SDG and is not associated with field samples within this SDG; therefore, no action was required.

(Pesticides) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample from a different SDG and is not associated with field samples within this SDG; therefore, no action was required.

(Total Metals) The laboratory performed an MS/MSD sample set with QC outliers; however, it was performed on a sample from a different SDG and is not associated with field samples within this SDG; therefore, no action was required.

**SDG 10458136:** (VOCs) The laboratory performed an MS/MSD sample set on sample MW-1:120618. The RPD for chloromethane was greater than the control limits in the MS/MSD sample set extracted on 12/12/2018 at 14:43. There were no positive results for this target analyte in this sample; therefore, no qualification was required.

The laboratory performed an MS/MSD sample set on sample MW-3:120618. The RPD for chloromethane was greater than the control limits in the MS/MSD sample set extracted on 12/14/2018 at 15:22. There were no positive results for this target analyte in this sample; therefore, no qualification was required.

## Laboratory Control samples/Laboratory Control sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

**SDG 10457092:** (VOCs) The percent recoveries for 1,1-dichloroethene, dibromomethane, tetrachloroethene, and trichloroethene were less than the control limits in the LCS extracted on 12/10/2018 at 10:49. The reporting limits for these target analytes were qualified as estimated (UJ) in samples DP-7 (0.0-2.0), DP-7 (3.0-5.0), DP-8 (0.0-2.0), DP-8 (3.0-5.0), DP-9 (0.0-2.0), DP-9 (3.0-5.0), DP-10 (0.0-2.0), DP-10 (3.0-5.0), DP-11 (0.0-2.0), DP-11 (3.0-5.0), DP-12 (0.0-2.0), DP-12 (3.0-5.0), DP-13 (0.0-2.0), DP-13 (3.0-5.0), DP-14 (0.0-2.0), and DP-14 (3.0-5.0).

The percent recoveries for chloroethane and trichlorofluoromethane were greater than the control limits in the LCS extracted on 12/12/2018 at 14:29. There were no positive results for these target analytes in the associated field samples for this sample batch; therefore, no qualifications were required.

(PAHs) The percent recovery for fluoranthene was less than the control limits in the LCS extracted on 12/4/2018 at 16:22. The positive results and reporting limits were qualified as estimated (J and UJ, accordingly) in samples DP-11 (0.0-2.0), DP-11 (3.0-5.0), DP-12 (0.0-2.0), DP-12 (3.0-5.0), DP-13 (0.0-2.0), DP-13 (3.0-5.0), DP-14 (0.0-2.0), and DP-14 (3.0-5.0).

The percent recovery for fluoranthene was less than the control limits in the LCS extracted on 12/10/2018 at 12:55. The positive results and reporting limits for this target analyte were qualified as estimated (J and UJ, accordingly) in samples DP-1 (0.0-2.0), DP-1 (4.0-5.0), DP-2 (0.0-2.0), DP-2 (4.0-5.0), DP-3 (0.0-2.0), DP-3 (3.0-5.0), DP-4 (0.0-2.0), DP-4 (3.0-5.0), DP-5 (0.0-2.0), DP-5 (3.0-5.0), DP-6 (0.0-2.0), DP-6 (3.0-5.0), DP-7 (0.0-2.0), DP-7 (3.0-5.0), DP-8 (0.0-2.0), DP-8 (3.0-5.0), DP-9 (0.0-2.0), DP-9 (3.0-5.0), DP-10 (0.0-2.0), and DP-10 (3.0-5.0).

**SDG 10457121:** (VOCs) The percent recoveries for 1,1-dichloroethene, dibromomethane, tetrachloroethene, and trichloroethene were less than the control limits in the LCS extracted on 12/10/2018 at 10:49. The reporting limits for these target analytes were qualified as estimated (UJ) in samples TP-5 (3), TP-5 (6), TP-6 (2), and TP-6 (5).

The percent recovery for trichlorofluoromethane was less than the control limits in the LCS extracted on 12/10/2018 at 15:39. The reporting limits for this target analyte were qualified as estimated (UJ) in samples TP-7 (2), TP-7 (5), TP-8 (7), TP-9 (6), TP-9 (8), TP-10 (3), TP-10 (7), TP-11 (3), and TP-11 (6).

The percent recovery for chloroethane was less than the control limits in the LCS extracted on 12/11/2018 at 19:12. The reporting limits for this target analyte were qualified as estimated (UJ) in samples TP-13 (2), TP-13 (5), TP-14 (3), TP-14 (6), TP-15 (3), TP-15 (8), TP-16 (2), TP-16 (8), TP-17 (3), TP-17 (6), TP-18 (3), TP-18 (6), TP-19 (2), TP-19 (5), and TP-19 (8).



(SVOCs) The percent recovery for 3-nitroaniline was less than the control limits in the LCS extracted on 12/10/2018 at 08:54. The reporting limit for this target analyte was qualified as estimated (UJ) in sample TP-3 (3).

**SDG 10457528:** (VOCs) The percent recoveries for chloroethane and trichlorofluoromethane were greater than the control limits in the LCS extracted on 12/12/2018 at 17:36. There were no positive results for these target analytes in the associated field samples for this sample batch; therefore, no qualifications were required.

The percent recoveries for chloroethane, dichlorofluoromethane, and trichlorofluoromethane were greater than the control limits in the LCS extracted on 12/13/2018 at 09:18. There were no positive results for these target analytes in the associated field samples for this sample batch; therefore, no qualifications were required.

(SVOCs) The percent recovery for 3-nitroaniline was less than the control limits in the LCS extracted on 12/10/2018 at 08:54. The reporting limits for this target analyte were qualified as estimated (UJ) in samples MW-1 (2-3), MW-1 (15-16), MW-2 (2.5-4), MW-3 (7-8.5), MW-4 (3-4.5), and MW-4 (7-8.5).

**SDG 10458136:** (PCBs) The percent recovery for Aroclor 1260 was greater than the control limits in the LCSD extracted on 12/14/2018 at 14:20; however, the percent recovery for this target analyte was within the control limits in the corresponding LCS. No action was required for this outlier.

## LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exceptions:

**SDG 10457092:** (NWTPH-Dx) The laboratory performed a laboratory duplicate sample set on sample DP-6 (0.0-2.0). The RPD values for diesel- and motor oil-range hydrocarbons were greater than the control limits in the laboratory duplicate sample set extracted on 11/30/2018 at 17:47. The positive results for these target analytes were qualified as estimated (J) in this sample.

**SDG 10457121:** (NWTPH-Dx) The laboratory performed a laboratory duplicate sample set on sample TP-7 (2). The RPD for motor oil-range hydrocarbons was greater than the control limit in the laboratory duplicate sample set extracted on 12/4/2018 at 18:01. The positive result for this target analyte was qualified as estimated (J) in this sample.

## Field Duplicates (FDs)

In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 30 percent. The absolute difference control limit is equal to the lowest reporting limit of the two samples.

**SDG 10458136:** One field duplicate sample pair, MW-4:120618 and Dup:120618, was submitted with this SDG. The precision criteria for all target analytes were met for this sample pair.

### Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

## MISCELLANEOUS

**SDGs 10457092, 10457121, 10457528:** (VOCs) The VOC analysis was initially performed using the medium level method; however, the reported results for 1,2-dibromoethane and methylene chloride in the field samples were non-detected at reporting limits above the project cleanup level goals. The VOCs were reanalyzed using the low-level method. The medium level results for these target analytes were labeled as do-not-report (DNR) in the GeoEngineers database to prevent the reporting of two results in the field samples.

**SDG 10458136:** (VOCs) The VOC analysis was initially performed using the medium level method; however, the reported results for 1,2-dibromoethane in the field samples were non-detected at reporting limits above the project cleanup level goals. The VOCs were reanalyzed using Method 8011. The medium level results for this target analyte were labeled as do-not-report (DNR) in the GeoEngineers database to prevent the reporting of two results in the field samples.

**SDG 590-10541-1 and -2:** (Total and Dissolved Metals) The metals analysis was initially performed using the Method 200.7; however, the reported results for total and dissolved arsenic, total and dissolved antimony, total and dissolved beryllium, and total and dissolved thallium in the field samples were non-detected at reporting limits above the project cleanup level goals. The metals were reanalyzed using Method 200.8. The Method 200.7 results for these target analytes were labeled as do-not-report (DNR) in the GeoEngineers database to prevent the reporting of two results in the field samples.

## OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table B-2.

**TABLE B-2. SUMMARY OF QUALIFIED SAMPLES**

Sample ID	Analyte	Qualifier	Reason
DP-1 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Acenaphthylene	J	MS/MSD Precision
	Anthracene	J	MS/MSD Precision
	Total antimony	UJ	MS/MSD Recovery
	Benzo(a)anthracene	J	MS/MSD Recovery and Precision
	Benzo(a)pyrene	J	MS/MSD Recovery and Precision
	Benzo(b)fluoranthene	J	MS/MSD Recovery and Precision
	Benzo(g,h,i)perylene	J	MS/MSD Recovery and Precision
	Benzo(k)fluoranthene	J	MS/MSD Recovery and Precision
	Total chromium	J	MS/MSD Recovery
	Chrysene	J	MS/MSD Recovery and Precision
	Total copper	J	MS/MSD Recovery
	Dibenzo(a,h)anthracene	J	MS/MSD Precision
	Diesel-range hydrocarbons	J	MS/MSD Recovery
	Fluoranthene	J	MS/MSD and LCS Recovery/MS/MSD Precision
	Fluorene	J	MS/MSD Precision
	Indeno(1,2,3-cd)pyrene	J	MS/MSD Recovery and Precision
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	J	MS/MSD Recovery
	Total nickel	J	MS/MSD Recovery
	Phenanthrene	J	MS/MSD Recovery and Precision
	Pyrene	J	MS/MSD Recovery and Precision
Total thallium (6010D)	J	MS/MSD Recovery	
Total thallium (6020B)	J	Holding Time	
Total zinc	J	MS/MSD Recovery	
DP-1 (4.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Anthracene	U	Method Blank Contamination
	Total antimony	UJ	MS/MSD Recovery
	Total chromium	J	MS/MSD Recovery
	Total copper	J	MS/MSD Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Total nickel	J	MS/MSD Recovery
	Pyrene	U	Method Blank Contamination
	Total thallium (6010D)	J	MS/MSD Recovery
	Total thallium (6020B)	J	Holding Time
	Total zinc	J	MS/MSD Recovery
DP-2 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Anthracene	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time

Sample ID	Analyte	Qualifier	Reason
DP-2 (4.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
DP-3 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Anthracene	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Pyrene	U	Method Blank Contamination
DP-3 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Total thallium (6020B)	J	Holding Time
DP-4 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
DP-4 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
DP-5 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
DP-5 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Total thallium (6020B)	J	Holding Time
DP-6 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Diesel-range hydrocarbons	J	Laboratory Duplicate Precision
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	J	Laboratory Duplicate Precision
DP-6 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Total thallium (6020B)	J	Holding Time

Sample ID	Analyte	Qualifier	Reason
DP-7 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-7 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Pyrene	U	Method Blank Contamination
	Tetrachloroethene	UJ	LCS Recovery
Trichloroethene	UJ	LCS Recovery	
DP-8 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Pyrene	U	Method Blank Contamination
	Tetrachloroethene	UJ	LCS Recovery
	Total thallium (6020B)	J	Holding Time
Trichloroethene	UJ	LCS Recovery	
DP-8 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-9 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Pyrene	U	Method Blank Contamination
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery



Sample ID	Analyte	Qualifier	Reason
DP-9 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-10 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-10 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-11 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Total thallium (6020B)	J	Holding Time
Trichloroethene	UJ	LCS Recovery	
DP-11 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery

Sample ID	Analyte	Qualifier	Reason
DP-12 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Total thallium (6020B)	J	Holding Time
	Trichloroethene	UJ	LCS Recovery
DP-12 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-13 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	J	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-13 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-14 (0.0-2.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	J	LCS Recovery
	Methylene chloride	J	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery

Sample ID	Analyte	Qualifier	Reason
DP-14 (3.0-5.0)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Fluoranthene	UJ, U	Method Blank Contamination/LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
DP-15 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-15 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-16 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-16 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-17 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
	Total thallium (6020B)	J	Holding Time
DP-17 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-18 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-18 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-19 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-19 (2.0-3.5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-20 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-20 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time

Sample ID	Analyte	Qualifier	Reason
DP-21 (0.0-1.5)	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Total arsenic	J	MS/MSD Recovery
	Total beryllium	J	MS/MSD Recovery
	Total cadmium	J	MS/MSD Recovery
	Total chromium	J	MS/MSD Recovery
	Total copper	J	MS/MSD Recovery
	Diesel-range hydrocarbons	J	MS/MSD Recovery
	Total lead	J	MS/MSD Recovery
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	J	MS/MSD Recovery
	Total nickel	J	MS/MSD Recovery
	Total selenium	UJ	MS/MSD Recovery
	Total silver	UJ	MS/MSD Recovery
	Total thallium	UJ	MS/MSD Recovery
Total zinc	J	MS/MSD Recovery	
DP-21 (1.5-3.0)	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Total arsenic	J	MS/MSD Recovery
	Total beryllium	J	MS/MSD Recovery
	Total cadmium	J	MS/MSD Recovery
	Total chromium	J	MS/MSD Recovery
	Total copper	J	MS/MSD Recovery
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Total lead	J	MS/MSD Recovery
	Methylene chloride	UJ	Holding Time
	Total nickel	J	MS/MSD Recovery
	Total selenium	UJ	MS/MSD Recovery
	Total silver	UJ	MS/MSD Recovery
	Total thallium	J	MS/MSD Recovery
	Total zinc	J	MS/MSD Recovery
DP-22 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-22 (2.0-4.0)	1,2-Dibromoethane	UJ	Holding Time
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
DP-23 (0.0-1.5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-23 (1.5-3.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Total thallium (6020B)	J	Holding Time

Sample ID	Analyte	Qualifier	Reason
DP-24 (0.0-1.5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-24 (1.5-3.0)	1,2-Dibromoethane	UJ	Holding Time
	Gasoline-range hydrocarbons	UJ	Sample Preservation
	Methylene chloride	UJ	Holding Time
	Toluene	U	Method Blank Contamination
DP-25 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Acenaphthylene	J	MS/MSD Recovery
	Anthracene	J	MS/MSD Recovery and Precision
	Benzo(a)anthracene	J	MS/MSD Recovery and Precision
	Benzo(a)pyrene	J	MS/MSD Recovery and Precision
	Benzo(b)fluoranthene	J	MS/MSD Recovery and Precision
	Benzo(g,h,i)perylene	J	MS/MSD Recovery and Precision
	Benzo(k)fluoranthene	J	MS/MSD Precision
	Chrysene	J	MS/MSD Recovery and Precision
	Dibenzo(a,h)anthracene	J	MS/MSD Precision
	Fluoranthene	J	MS/MSD Recovery and Precision
	Fluorene	J	MS/MSD Recovery
	Indeno(1,2,3-cd)pyrene	J	MS/MSD Recovery and Precision
	Methylene chloride	UJ	Holding Time
	Phenanthrene	J	MS/MSD Recovery and Precision
Pyrene	J	MS/MSD Recovery and Precision	
DP-25 (3.0-5.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-26 (0.0-1.5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-26 (1.5-3.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-27 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-27 (3.0-4.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-28 (0.0-2.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
DP-28 (2.0-4.0)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time



Sample ID	Analyte	Qualifier	Reason
TP-1 (2)	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Total arsenic	J	MS/MSD Precision
	Total beryllium	J	MS/MSD Precision
	Total chromium	J	MS/MSD Precision
	Total copper	J	MS/MSD Precision
	Methylene chloride	UJ	Holding Time
	Total nickel	J	MS/MSD Precision
	Total silver	UJ	MS/MSD Recovery
TP-1 (5)	1,2,3-Trichlorobenzene	U	Method Blank Contamination
	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Total antimony	UJ	MS/MSD Recovery
	Total arsenic	J	MS/MSD Precision
	Total beryllium	J	MS/MSD Precision
	Total cadmium	J	MS/MSD Precision
	Total chromium	J	MS/MSD Precision
	Total copper	J	MS/MSD Precision
	Methylene chloride	UJ	Holding Time
	Total nickel	J	MS/MSD Precision
	Total silver	J	MS/MSD Recovery
	TP-2 (3)	1,2-Dibromoethane	UJ
Acetone		U	Method Blank Contamination
Methylene chloride		UJ	Holding Time
TP-2 (6)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
TP-3 (3)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Benzo(a)anthracene	J	MS/MSD Precision
	Benzo(a)pyrene	J	MS/MSD Precision
	Chrysene	J	MS/MSD Precision
	Fluoranthene	J	MS/MSD Precision
	Gasoline-range hydrocarbons	UJ	Sample Preservation
	Methylene chloride	UJ	Holding Time
	Pyrene	J	MS/MSD Precision
TP-3 (6)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
TP-4 (3)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
TP-4 (6)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time

Sample ID	Analyte	Qualifier	Reason
TP-5 (3)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
TP-5 (6)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
TP-6 (2)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Dibromomethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
TP-6 (5)	1,1-Dichloroethene	UJ	LCS Recovery
	1,2-Dibromoethane	UJ	Holding Time
	Dibromomethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
	Tetrachloroethene	UJ	LCS Recovery
	Trichloroethene	UJ	LCS Recovery
TP-7 (2)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	J	Laboratory Duplicate Precision
	Trichlorofluoromethane	UJ	LCS Recovery
TP-7 (5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
TP-8 (7)	1,2-Dibromoethane	UJ	Holding Time
	Benzene	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
TP-9 (6)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
TP-9 (8)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery

Sample ID	Analyte	Qualifier	Reason
TP-10 (3)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
TP-10 (7)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
TP-11 (3)	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
	Total zinc	J	MS/MSD Recovery
TP-11 (6)	1,2-Dibromoethane	UJ	Holding Time
	Total antimony	UJ	MS/MSD Recovery
	Methylene chloride	UJ	Holding Time
	Trichlorofluoromethane	UJ	LCS Recovery
	Total zinc	J	MS/MSD Recovery
TP-12 (2)	1,2-Dibromoethane	UJ	Holding Time
	4,4'-DDD	J	MS/MSD Recovery
	4,4'-DDE	J	MS/MSD Recovery
	Diesel-range hydrocarbons	J	MS/MSD Recovery
	Heptachlor epoxide	J	MS/MSD Recovery
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	J	MS/MSD Recovery
TP-12 (5)	1,2-Dibromoethane	UJ	Holding Time
	Methylene chloride	UJ	Holding Time
TP-13 (2)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
TP-13 (5)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-14 (3)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-14 (6)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time

Sample ID	Analyte	Qualifier	Reason
TP-15 (3)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-15 (8)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-16 (2)	1,2-Dibromoethane	UJ	Holding Time
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-16 (8)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-17 (3)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
TP-17 (6)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-18 (3)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-18 (6)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	J	Holding Time
TP-19 (2)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
TP-19 (5)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time

Sample ID	Analyte	Qualifier	Reason
TP-19 (8)	1,2-Dibromoethane	UJ	Holding Time
	Acetone	U	Method Blank Contamination
	Chloroethane	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
MW-1 (2-3)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Diesel-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	U	Method Blank Contamination
MW-1 (15-16)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	Surrogate Recovery/LCS Recovery
	Di-n-butylphthalate	J	Surrogate Recovery
	Diesel-range hydrocarbons	U	Method Blank Contamination
	Gasoline-range hydrocarbons	UJ, U	Method Blank Contamination/Sample Preservation
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	U	Method Blank Contamination
	All other SVOC target analytes	UJ	Surrogate Recovery
MW-1:120618	1,2-Dibromoethane	UJ	Holding Time
MW-2 (2.5-4)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Diesel-range hydrocarbons	U	Method Blank Contamination
	Gasoline-range hydrocarbons	U	Method Blank Contamination
	Methylene chloride	UJ	Holding Time
	Motor oil-range hydrocarbons	U	Method Blank Contamination
MW-2:120618	1,2-Dibromoethane	UJ	Holding Time
MW-3 (7-8.5)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
MW-3:120618	1,2-Dibromoethane	UJ	Holding Time
MW-4 (3-4.5)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
MW-4 (7-8.5)	1,2-Dibromoethane	UJ	Holding Time
	3-Nitroaniline	UJ	LCS Recovery
	Methylene chloride	UJ	Holding Time
MW-4:120618	1,2-Dibromoethane	UJ	Holding Time
DUP:120618	1,2-Dibromoethane	UJ	Holding Time
Trip Blanks (SDG 10457092)	Acetone	U	Method Blank Contamination
Trip Blanks (SDG 10457121)	Acetone	U	Method Blank Contamination



Sample ID	Analyte	Qualifier	Reason
Trip Blank (SDG 10457528)	Benzene	U	Method Blank Contamination

## REFERENCES

GeoEngineers, Inc. 2019. Work Plan, Stubblefield Site Assessment. Prepared for Washington State Department of Ecology. November 27, 2018.

U.S. Environmental Protection Agency (EPA). 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. EPA-540-R-08-005. January 2009.

EPA. 2017a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-2017-002. January 2017.

EPA. 2017b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-540-R-2017-001. January 2017.

December 12, 2019

JR Sugalski  
GeoEngineers  
523 East 2nd Avenue  
Spokane, WA 99202

RE: Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

Dear JR Sugalski:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 3, 2019 to analyze the following samples for TCLP lead by method 6010.

(10457092-011) DP-6 (0.0-2.0)  
(10457092-023) DP-12 (0.0-2.0)  
(10457092-051) DP-26 (0.0-1.5)

This report was further revised on March 6, 2019 to report all results to the method detection limit, to analyze pace samples 049, 050, 051, 052 for PCBs by method 8082 and to analyze all samples for low level VOCs by method 8260 low level.

This report was further revised on December 12, 2019 to analyze thallium by method 6020 on Pace samples 10457092-001, -002, -006, -010, -012, -015, -021, -023, -033 and -046.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



## REPORT OF LABORATORY ANALYSIS

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December 12, 2019  
Page 2

JENNI GROSS

Jennifer Gross  
jennifer.gross@pacelabs.com  
(206)957-2426  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

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### **Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #: 74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457092001	DP-1 (0.0-2.0)	Solid	11/26/18 12:10	11/30/18 09:55
10457092002	DP-1 (4.0-5.0)	Solid	11/26/18 12:30	11/30/18 09:55
10457092003	DP-2 (0.0-2.0)	Solid	11/26/18 13:30	11/30/18 09:55
10457092004	DP-2 (4.0-5.0)	Solid	11/26/18 13:40	11/30/18 09:55
10457092005	DP-3 (0.0-2.0)	Solid	11/26/18 14:30	11/30/18 09:55
10457092006	DP-3 (3.0-5.0)	Solid	11/26/18 14:40	11/30/18 09:55
10457092007	DP-4 (0.0-2.0)	Solid	11/26/18 15:30	11/30/18 09:55
10457092008	DP-4 (3.0-5.0)	Solid	11/26/18 15:40	11/30/18 09:55
10457092009	DP-5 (0.0-2.0)	Solid	11/27/18 08:15	11/30/18 09:55
10457092010	DP-5 (3.0-5.0)	Solid	11/27/18 08:30	11/30/18 09:55
10457092011	DP-6 (0.0-2.0)	Solid	11/27/18 09:35	11/30/18 09:55
10457092012	DP-6 (3.0-5.0)	Solid	11/27/18 09:45	11/30/18 09:55
10457092013	DP-7 (0.0-2.0)	Solid	11/27/18 10:15	11/30/18 09:55
10457092014	DP-7 (3.0-5.0)	Solid	11/27/18 10:30	11/30/18 09:55
10457092015	DP-8 (0.0-2.0)	Solid	11/27/18 11:15	11/30/18 09:55
10457092016	DP-8 (3.0-5.0)	Solid	11/27/18 11:30	11/30/18 09:55
10457092017	DP-9 (0.0-2.0)	Solid	11/27/18 12:00	11/30/18 09:55
10457092018	DP-9 (3.0-5.0)	Solid	11/27/18 12:10	11/30/18 09:55
10457092019	DP-10 (0.0-2.0)	Solid	11/27/18 12:40	11/30/18 09:55
10457092020	DP-10 (3.0-5.0)	Solid	11/27/18 12:50	11/30/18 09:55
10457092021	DP-11 (0.0-2.0)	Solid	11/27/18 13:30	11/30/18 09:55
10457092022	DP-11 (3.0-5.0)	Solid	11/27/18 13:40	11/30/18 09:55
10457092023	DP-12 (0.0-2.0)	Solid	11/27/18 14:15	11/30/18 09:55
10457092024	DP-12 (3.0-5.0)	Solid	11/27/18 14:30	11/30/18 09:55
10457092025	DP-13 (0.0-2.0)	Solid	11/27/18 13:10	11/30/18 09:55
10457092026	DP-13 (3.0-5.0)	Solid	11/27/18 13:20	11/30/18 09:55
10457092027	DP-14 (0.0-2.0)	Solid	11/27/18 16:00	11/30/18 09:55
10457092028	DP-14 (3.0-5.0)	Solid	11/27/18 16:10	11/30/18 09:55
10457092029	DP-15 (0.0-2.0)	Solid	11/28/18 08:45	11/30/18 09:55
10457092030	DP-15 (3.0-5.0)	Solid	11/28/18 08:55	11/30/18 09:55
10457092031	DP-16 (0.0-2.0)	Solid	11/28/18 09:25	11/30/18 09:55
10457092032	DP-16 (3.0-5.0)	Solid	11/28/18 09:35	11/30/18 09:55
10457092033	DP-17 (0.0-2.0)	Solid	11/28/18 10:05	11/30/18 09:55
10457092034	DP-17 (3.0-5.0)	Solid	11/28/18 10:15	11/30/18 09:55
10457092035	DP-18 (0.0-2.0)	Solid	11/28/18 10:50	11/30/18 09:55
10457092036	DP-18 (3.0-5.0)	Solid	11/28/18 11:00	11/30/18 09:55
10457092037	DP-19 (0.0-2.0)	Solid	11/28/18 11:20	11/30/18 09:55

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457092038	DP-19 (2.0-3.5)	Solid	11/28/18 11:30	11/30/18 09:55
10457092039	DP-20 (0.0-2.0)	Solid	11/28/18 12:40	11/30/18 09:55
10457092040	DP-20 (3.0-5.0)	Solid	11/28/18 12:50	11/30/18 09:55
10457092041	DP-21 (0.0-1.5)	Solid	11/28/18 13:10	11/30/18 09:55
10457092042	DP-21 (1.5-3.0)	Solid	11/28/18 13:20	11/30/18 09:55
10457092043	DP-22 (0.0-2.0)	Solid	11/28/18 14:00	11/30/18 09:55
10457092044	DP-22 (2.0-4.0)	Solid	11/28/18 14:10	11/30/18 09:55
10457092045	DP-23 (0.0-1.5)	Solid	11/28/18 15:10	11/30/18 09:55
10457092046	DP-23 (1.5-3.0)	Solid	11/28/18 15:20	11/30/18 09:55
10457092047	DP-24 (0.0-1.5)	Solid	11/29/18 08:30	11/30/18 09:55
10457092048	DP-24 (1.5-3.0)	Solid	11/29/18 08:40	11/30/18 09:55
10457092049	DP-25 (0.0-2.0)	Solid	11/29/18 10:00	11/30/18 09:55
10457092050	DP-25 (3.0-5.0)	Solid	11/29/18 10:10	11/30/18 09:55
10457092051	DP-26 (0.0-1.5)	Solid	11/29/18 10:40	11/30/18 09:55
10457092052	DP-26 (1.5-3.0)	Solid	11/29/18 10:50	11/30/18 09:55
10457092053	DP-27 (0.0-2.0)	Solid	11/29/18 11:40	11/30/18 09:55
10457092054	DP-27 (3.0-4.0)	Solid	11/29/18 11:50	11/30/18 09:55
10457092055	DP-28 (0.0-2.0)	Solid	11/29/18 12:15	11/30/18 09:55
10457092056	DP-28 (2.0-4.0)	Solid	11/29/18 12:25	11/30/18 09:55
10457092057	Trip Blanks	Solid	11/26/18 00:00	11/30/18 09:55

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092001	DP-1 (0.0-2.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
10457092002	DP-1 (4.0-5.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
10457092003	DP-2 (0.0-2.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		10457092004	DP-2 (4.0-5.0)	EPA 8082A
NWTPH-Dx	EC2			4
NWTPH-Gx	AG1			2
EPA 6010D	BD1			12
EPA 7471B	LMW			1
ASTM D2974	JDL			1
EPA 8270D by SIM	STB			20
EPA 8260B	GDM			5

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092005	DP-3 (0.0-2.0)	EPA 8260B	CD2	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092006	DP-3 (3.0-5.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092007	DP-4 (0.0-2.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092008	DP-4 (3.0-5.0)	EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
EPA 8260B	GDM	5		

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092009	DP-5 (0.0-2.0)	EPA 8260B	CD2	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092010	DP-5 (3.0-5.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092011	DP-6 (0.0-2.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	1
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092012	DP-6 (3.0-5.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092013	DP-7 (0.0-2.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092014	DP-7 (3.0-5.0)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092015	DP-8 (0.0-2.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092016	DP-8 (3.0-5.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092017	DP-9 (0.0-2.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092018	DP-9 (3.0-5.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092019	DP-10 (0.0-2.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092020	DP-10 (3.0-5.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092021	DP-11 (0.0-2.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092022	DP-11 (3.0-5.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		10457092023	DP-12 (0.0-2.0)	EPA 8260B
EPA 8260B	GDM			70
EPA 8082A	RAG			9
NWTPH-Dx	EC2			4
NWTPH-Gx	AG1			2
EPA 6010D	IP			1
EPA 6010D	BD1			12
EPA 6020B	BWB			1
EPA 7471B	LMW			1
ASTM D2974	JDL			1
10457092024	DP-12 (3.0-5.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092025	DP-13 (0.0-2.0)	ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092026	DP-13 (3.0-5.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092027	DP-14 (0.0-2.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092028	DP-14 (3.0-5.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092029	DP-15 (0.0-2.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092030	DP-15 (3.0-5.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092031	DP-16 (0.0-2.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092032	DP-16 (3.0-5.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092033	DP-17 (0.0-2.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092034	DP-17 (3.0-5.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092035	DP-18 (0.0-2.0)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092036	DP-18 (3.0-5.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092037	DP-19 (0.0-2.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092038	DP-19 (2.0-3.5)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092039	DP-20 (0.0-2.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
10457092040	DP-20 (3.0-5.0)	NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092041	DP-21 (0.0-1.5)	EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092042	DP-21 (1.5-3.0)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092043	DP-22 (0.0-2.0)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
10457092044	DP-22 (2.0-4.0)	ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
EPA 8270D by SIM	STB	20		
EPA 8260B	CD2	5		
EPA 8260B	GDM	70		

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092045	DP-23 (0.0-1.5)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092046	DP-23 (1.5-3.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 6020B	BWB	1
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457092047	DP-24 (0.0-1.5)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
10457092048	DP-24 (1.5-3.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092049	DP-25 (0.0-2.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
10457092050	DP-25 (3.0-5.0)	EPA 8260B	CD2	5
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457092051	DP-26 (0.0-1.5)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	1
		EPA 6010D	BD1	12
10457092052	DP-26 (1.5-3.0)	EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
10457092053	DP-27 (0.0-2.0)	EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		EPA 6010D	BD1	12
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457092054	DP-27 (3.0-4.0)	EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
10457092055	DP-28 (0.0-2.0)	EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
10457092056	DP-28 (2.0-4.0)	ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	BD1	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D by SIM	STB	20
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8260B	GDM	70
10457092057	Trip Blanks	EPA 8260B	CD2	70

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

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**Date:** December 12, 2019

Samples 001-056 were prepared for VOCs by method 8260 low level using sample jars that were stored in a non-volatiles compliant refrigerator.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8082A

**Description:** 8082A GCS PCB

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

**General Information:**

56 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### General Information:

56 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 578295

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DP-6 (0.0-2.0) (Lab ID: 10457092011)
  - n-Triacontane (S)
  - o-Terphenyl (S)
- DUP (Lab ID: 3136658)
  - n-Triacontane (S)
  - o-Terphenyl (S)

QC Batch: 578581

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - n-Triacontane (S)
  - o-Terphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 578295

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3136656)
  - Diesel Fuel Range
  - Motor Oil Range
- MSD (Lab ID: 3136657)
  - Diesel Fuel Range
  - Motor Oil Range

QC Batch: 578581

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3138315)
  - Diesel Fuel Range
  - Motor Oil Range
- MSD (Lab ID: 3138316)
  - Diesel Fuel Range
  - Motor Oil Range

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 578295

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3136658)
  - Diesel Fuel Range
  - Motor Oil Range

### Additional Comments:

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### General Information:

56 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with NWTPH-Gx with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 580024

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580024 [GCV/2006 (Lab ID: 3146039)]
- TPH as Gas

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579273

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 580073

3M: Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

- DP-24 (1.5-3.0) (Lab ID: 10457092048)
- TPH as Gas

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 6010D

**Description:** 6010D MET ICP, TCLP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

**General Information:**

3 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### General Information:

56 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 578415

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3137630)
  - Antimony
  - Chromium
  - Copper
  - Nickel
  - Thallium
- MSD (Lab ID: 3137631)
  - Antimony
  - Chromium
  - Copper
  - Lead
  - Nickel
  - Thallium

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3137630)

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 578415

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092001

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- Zinc
- MSD (Lab ID: 3137631)
- Zinc

QC Batch: 578416

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092021

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3137634)
- Antimony
- MSD (Lab ID: 3137635)
- Antimony

QC Batch: 578417

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3137638)
- Antimony
- Arsenic
- Beryllium
- Cadmium
- Chromium
- Copper
- Lead
- Nickel
- Selenium
- Silver
- Thallium
- Zinc
- MSD (Lab ID: 3137639)
- Antimony
- Arsenic
- Beryllium
- Cadmium
- Chromium
- Copper
- Lead
- Nickel
- Selenium
- Silver
- Thallium
- Zinc

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### Additional Comments:

Analyte Comments:

QC Batch: 578415

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
  - Silver
  - Arsenic
  - Beryllium
  - Antimony
  - Selenium
  - Thallium
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-10 (0.0-2.0) (Lab ID: 10457092019)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-2 (0.0-2.0) (Lab ID: 10457092003)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-2 (4.0-5.0) (Lab ID: 10457092004)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 578415

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-3 (0.0-2.0) (Lab ID: 10457092005)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-3 (3.0-5.0) (Lab ID: 10457092006)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-4 (0.0-2.0) (Lab ID: 10457092007)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-5 (0.0-2.0) (Lab ID: 10457092009)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-5 (3.0-5.0) (Lab ID: 10457092010)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Nickel
- Antimony
- Selenium
- Thallium

- DP-6 (0.0-2.0) (Lab ID: 10457092011)

- Silver

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 578415

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-6 (0.0-2.0) (Lab ID: 10457092011)

- Arsenic
- Beryllium
- Antimony
- Selenium
- Thallium

- DP-6 (3.0-5.0) (Lab ID: 10457092012)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-7 (0.0-2.0) (Lab ID: 10457092013)

- Silver
- Arsenic
- Beryllium
- Antimony
- Selenium
- Thallium

- DP-8 (0.0-2.0) (Lab ID: 10457092015)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- DP-9 (0.0-2.0) (Lab ID: 10457092017)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

QC Batch: 578416

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-11 (0.0-2.0) (Lab ID: 10457092021)

- Silver
- Arsenic

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 578416

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-11 (0.0-2.0) (Lab ID: 10457092021)
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-12 (3.0-5.0) (Lab ID: 10457092024)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-16 (0.0-2.0) (Lab ID: 10457092031)
  - Silver
  - Arsenic
  - Beryllium
  - Antimony
  - Selenium
  - Thallium
- DP-16 (3.0-5.0) (Lab ID: 10457092032)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 578416

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-16 (3.0-5.0) (Lab ID: 10457092032)

- Selenium

- Thallium

- DP-17 (0.0-2.0) (Lab ID: 10457092033)

- Silver

- Arsenic

- Beryllium

- Cadmium

- Antimony

- Selenium

- Thallium

- DP-17 (3.0-5.0) (Lab ID: 10457092034)

- Silver

- Arsenic

- Beryllium

- Cadmium

- Antimony

- Selenium

- Thallium

- DP-18 (0.0-2.0) (Lab ID: 10457092035)

- Silver

- Arsenic

- Beryllium

- Cadmium

- Antimony

- Selenium

- Thallium

- DP-18 (3.0-5.0) (Lab ID: 10457092036)

- Silver

- Arsenic

- Beryllium

- Cadmium

- Antimony

- Selenium

- Thallium

- DP-19 (0.0-2.0) (Lab ID: 10457092037)

- Silver

- Arsenic

- Beryllium

- Antimony

- Selenium

- Thallium

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 578416

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-19 (2.0-3.5) (Lab ID: 10457092038)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- DP-20 (0.0-2.0) (Lab ID: 10457092039)
  - Silver
  - Arsenic
  - Beryllium
  - Antimony
  - Selenium
  - Thallium

QC Batch: 578417

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-23 (1.5-3.0) (Lab ID: 10457092046)
  - Silver
  - Arsenic
  - Beryllium
  - Antimony
  - Selenium
  - Thallium

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 6020B

**Description:** 6020B MET ICPMS

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### General Information:

10 samples were analyzed for EPA 6020B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
- DP-17 (0.0-2.0) (Lab ID: 10457092033)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)

H2: Extraction or preparation was conducted outside of the recognized method holding time.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
- DP-17 (0.0-2.0) (Lab ID: 10457092033)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)

### Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 6020B

**Description:** 6020B MET ICPMS

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 7471B

**Description:** 7471B Mercury

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

**General Information:**

56 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

---

**Method:** EPA 8270D by SIM  
**Description:** 8270D MSSV PAH by SIM  
**Client:** GeoEngineers\_WA  
**Date:** December 12, 2019

### General Information:

56 samples were analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
- DP-10 (0.0-2.0) (Lab ID: 10457092019)
- DP-10 (3.0-5.0) (Lab ID: 10457092020)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
- DP-12 (3.0-5.0) (Lab ID: 10457092024)
- DP-13 (0.0-2.0) (Lab ID: 10457092025)
- DP-13 (3.0-5.0) (Lab ID: 10457092026)
- DP-14 (0.0-2.0) (Lab ID: 10457092027)
- DP-14 (3.0-5.0) (Lab ID: 10457092028)
- DP-2 (0.0-2.0) (Lab ID: 10457092003)
- DP-2 (4.0-5.0) (Lab ID: 10457092004)
- DP-3 (0.0-2.0) (Lab ID: 10457092005)
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
- DP-4 (0.0-2.0) (Lab ID: 10457092007)
- DP-4 (3.0-5.0) (Lab ID: 10457092008)
- DP-5 (0.0-2.0) (Lab ID: 10457092009)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
- DP-6 (0.0-2.0) (Lab ID: 10457092011)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
- DP-7 (0.0-2.0) (Lab ID: 10457092013)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)
- DP-8 (3.0-5.0) (Lab ID: 10457092016)
- DP-9 (0.0-2.0) (Lab ID: 10457092017)
- DP-9 (3.0-5.0) (Lab ID: 10457092018)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H5: Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

- DP-19 (2.0-3.5) (Lab ID: 10457092038)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579831

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

- DP-6 (0.0-2.0) (Lab ID: 10457092011)

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 579246

S0: Surrogate recovery outside laboratory control limits.

- DP-19 (2.0-3.5) (Lab ID: 10457092038)
  - p-Terphenyl-d14 (S)
- DP-22 (2.0-4.0) (Lab ID: 10457092044)
  - p-Terphenyl-d14 (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DP-20 (0.0-2.0) (Lab ID: 10457092039)
  - 2-Fluorobiphenyl (S)
  - p-Terphenyl-d14 (S)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
  - 2-Fluorobiphenyl (S)
  - p-Terphenyl-d14 (S)

QC Batch: 579831

S0: Surrogate recovery outside laboratory control limits.

- DP-4 (3.0-5.0) (Lab ID: 10457092008)
  - 2-Fluorobiphenyl (S)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
  - 2-Fluorobiphenyl (S)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
  - 2-Fluorobiphenyl (S)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
  - 2-Fluorobiphenyl (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DP-4 (0.0-2.0) (Lab ID: 10457092007)
  - 2-Fluorobiphenyl (S)
  - p-Terphenyl-d14 (S)
- DP-6 (0.0-2.0) (Lab ID: 10457092011)

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579831

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- 2-Fluorobiphenyl (S)
- p-Terphenyl-d14 (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 579831

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579831 [OEXT/463 (Lab ID: 3145192)]
  - Anthracene
  - Fluoranthene

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579246

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10458586001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3141999)
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Phenanthrene
  - Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3142000)
  - Acenaphthene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579246

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10458586001

R1: RPD value was outside control limits.

- Fluorene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

QC Batch: 579251

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092049

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3142007)
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Chrysene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 3142008)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3142008)
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579251

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092049

R1: RPD value was outside control limits.

- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h)anthracene
- Fluoranthene
- Indeno(1,2,3-cd)pyrene
- Phenanthrene
- Pyrene

QC Batch: 579831

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3145194)
  - Fluoranthene
- MSD (Lab ID: 3145195)
  - Fluoranthene

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3145194)
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 3145195)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579831

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3145195)
  - Acenaphthylene
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluoranthene
  - Fluorene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

QC Batch: 579929

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 12119381003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3145659)
  - Benzo(b)fluoranthene
  - Fluoranthene
- MSD (Lab ID: 3145660)
  - Benzo(b)fluoranthene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3145660)
  - Naphthalene

QC Batch: 580498

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10458424001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3147866)
  - Fluoranthene
  - Phenanthrene
  - Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3147866)
  - Fluoranthene
  - Phenanthrene

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 579246

2M: Reanalysis conducted in excess of EPA method holding time. Results do not confirm original analysis performed in hold time.

- DP-22 (2.0-4.0) (Lab ID: 10457092044)
  - 2-Fluorobiphenyl (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DP-16 (0.0-2.0) (Lab ID: 10457092031)
  - 2-Fluorobiphenyl (S)
- DP-20 (0.0-2.0) (Lab ID: 10457092039)
  - 2-Fluorobiphenyl (S)
- DP-21 (0.0-1.5) (Lab ID: 10457092041)
  - 2-Fluorobiphenyl (S)
- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - 2-Fluorobiphenyl (S)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
  - 2-Fluorobiphenyl (S)

QC Batch: 579251

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3142007)
  - Fluoranthene

QC Batch: 579831

2M: Reanalysis conducted in excess of EPA method holding time. Results do not confirm original analysis performed in hold time.

- DP-4 (3.0-5.0) (Lab ID: 10457092008)
  - 2-Fluorobiphenyl (S)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
  - 2-Fluorobiphenyl (S)

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 3145195)
  - Fluoranthene

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

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**Method:** EPA 8260B  
**Description:** 8260B MSV 5035 Low Level  
**Client:** GeoEngineers\_WA  
**Date:** December 12, 2019

### General Information:

56 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
- DP-10 (0.0-2.0) (Lab ID: 10457092019)
- DP-10 (3.0-5.0) (Lab ID: 10457092020)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
- DP-12 (3.0-5.0) (Lab ID: 10457092024)
- DP-13 (0.0-2.0) (Lab ID: 10457092025)
- DP-13 (3.0-5.0) (Lab ID: 10457092026)
- DP-14 (0.0-2.0) (Lab ID: 10457092027)
- DP-14 (3.0-5.0) (Lab ID: 10457092028)
- DP-15 (0.0-2.0) (Lab ID: 10457092029)
- DP-15 (3.0-5.0) (Lab ID: 10457092030)
- DP-16 (0.0-2.0) (Lab ID: 10457092031)
- DP-16 (3.0-5.0) (Lab ID: 10457092032)
- DP-17 (0.0-2.0) (Lab ID: 10457092033)
- DP-17 (3.0-5.0) (Lab ID: 10457092034)
- DP-18 (0.0-2.0) (Lab ID: 10457092035)
- DP-18 (3.0-5.0) (Lab ID: 10457092036)
- DP-19 (0.0-2.0) (Lab ID: 10457092037)
- DP-19 (2.0-3.5) (Lab ID: 10457092038)
- DP-2 (0.0-2.0) (Lab ID: 10457092003)
- DP-2 (4.0-5.0) (Lab ID: 10457092004)
- DP-20 (0.0-2.0) (Lab ID: 10457092039)
- DP-20 (3.0-5.0) (Lab ID: 10457092040)
- DP-21 (0.0-1.5) (Lab ID: 10457092041)
- DP-21 (1.5-3.0) (Lab ID: 10457092042)
- DP-22 (0.0-2.0) (Lab ID: 10457092043)
- DP-22 (2.0-4.0) (Lab ID: 10457092044)
- DP-23 (0.0-1.5) (Lab ID: 10457092045)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
- DP-24 (0.0-1.5) (Lab ID: 10457092047)
- DP-24 (1.5-3.0) (Lab ID: 10457092048)
- DP-25 (0.0-2.0) (Lab ID: 10457092049)
- DP-25 (3.0-5.0) (Lab ID: 10457092050)
- DP-26 (0.0-1.5) (Lab ID: 10457092051)
- DP-26 (1.5-3.0) (Lab ID: 10457092052)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

H3: Sample was received or analysis requested beyond the recognized method holding time.

- DP-27 (0.0-2.0) (Lab ID: 10457092053)
- DP-27 (3.0-4.0) (Lab ID: 10457092054)
- DP-28 (0.0-2.0) (Lab ID: 10457092055)
- DP-28 (2.0-4.0) (Lab ID: 10457092056)
- DP-3 (0.0-2.0) (Lab ID: 10457092005)
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
- DP-4 (0.0-2.0) (Lab ID: 10457092007)
- DP-4 (3.0-5.0) (Lab ID: 10457092008)
- DP-5 (0.0-2.0) (Lab ID: 10457092009)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
- DP-6 (0.0-2.0) (Lab ID: 10457092011)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
- DP-7 (0.0-2.0) (Lab ID: 10457092013)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)
- DP-8 (3.0-5.0) (Lab ID: 10457092016)
- DP-9 (0.0-2.0) (Lab ID: 10457092017)
- DP-9 (3.0-5.0) (Lab ID: 10457092018)

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035 Low with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 591379

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 591583

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 591750

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 592201

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

Analyte Comments:

QC Batch: 591379

4M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- DP-3 (0.0-2.0) (Lab ID: 10457092005)
  - 1,2-Dichloroethane-d4 (S)
- DP-6 (0.0-2.0) (Lab ID: 10457092011)
  - 1,2-Dichloroethane-d4 (S)

6M: Sample was taken from packed glass jar and frozen outside of 48 hours from collection.

- DP-1 (0.0-2.0) (Lab ID: 10457092001)
  - 1,2-Dichloroethane-d4 (S)
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
  - 1,2-Dichloroethane-d4 (S)
- DP-2 (0.0-2.0) (Lab ID: 10457092003)
  - 1,2-Dichloroethane-d4 (S)
- DP-2 (4.0-5.0) (Lab ID: 10457092004)
  - 1,2-Dichloroethane-d4 (S)
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
  - 1,2-Dichloroethane-d4 (S)
- DP-4 (0.0-2.0) (Lab ID: 10457092007)
  - 1,2-Dichloroethane-d4 (S)
- DP-4 (3.0-5.0) (Lab ID: 10457092008)
  - 1,2-Dichloroethane-d4 (S)
- DP-5 (0.0-2.0) (Lab ID: 10457092009)
  - 1,2-Dichloroethane-d4 (S)
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
  - 1,2-Dichloroethane-d4 (S)
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
  - 1,2-Dichloroethane-d4 (S)
- DP-7 (0.0-2.0) (Lab ID: 10457092013)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 591583

4M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- DP-10 (0.0-2.0) (Lab ID: 10457092019)
  - 1,2-Dichloroethane-d4 (S)
- DP-16 (3.0-5.0) (Lab ID: 10457092032)
  - 1,2-Dichloroethane-d4 (S)

5M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- DP-10 (3.0-5.0) (Lab ID: 10457092020)
  - 1,2-Dichloroethane-d4 (S)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
  - 1,2-Dichloroethane-d4 (S)
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
  - 1,2-Dichloroethane-d4 (S)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
  - 1,2-Dichloroethane-d4 (S)
- DP-12 (3.0-5.0) (Lab ID: 10457092024)
  - 1,2-Dichloroethane-d4 (S)
- DP-13 (0.0-2.0) (Lab ID: 10457092025)
  - 1,2-Dichloroethane-d4 (S)
- DP-13 (3.0-5.0) (Lab ID: 10457092026)
  - 1,2-Dichloroethane-d4 (S)
- DP-14 (0.0-2.0) (Lab ID: 10457092027)
  - 1,2-Dichloroethane-d4 (S)
- DP-14 (3.0-5.0) (Lab ID: 10457092028)
  - 1,2-Dichloroethane-d4 (S)
- DP-15 (0.0-2.0) (Lab ID: 10457092029)
  - 1,2-Dichloroethane-d4 (S)
- DP-15 (3.0-5.0) (Lab ID: 10457092030)
  - 1,2-Dichloroethane-d4 (S)
- DP-16 (0.0-2.0) (Lab ID: 10457092031)
  - 1,2-Dichloroethane-d4 (S)
- DP-17 (0.0-2.0) (Lab ID: 10457092033)
  - 1,2-Dichloroethane-d4 (S)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
  - 1,2-Dichloroethane-d4 (S)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)
  - 1,2-Dichloroethane-d4 (S)
- DP-8 (3.0-5.0) (Lab ID: 10457092016)
  - 1,2-Dichloroethane-d4 (S)
- DP-9 (0.0-2.0) (Lab ID: 10457092017)
  - 1,2-Dichloroethane-d4 (S)
- DP-9 (3.0-5.0) (Lab ID: 10457092018)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 591750

4M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- DP-21 (0.0-1.5) (Lab ID: 10457092041)
  - 1,2-Dichloroethane-d4 (S)
- DP-21 (1.5-3.0) (Lab ID: 10457092042)
  - 1,2-Dichloroethane-d4 (S)
- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - 1,2-Dichloroethane-d4 (S)
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
  - 1,2-Dichloroethane-d4 (S)
- DP-24 (0.0-1.5) (Lab ID: 10457092047)
  - 1,2-Dichloroethane-d4 (S)
- DP-24 (1.5-3.0) (Lab ID: 10457092048)
  - 1,2-Dichloroethane-d4 (S)
- DP-25 (0.0-2.0) (Lab ID: 10457092049)
  - 1,2-Dichloroethane-d4 (S)
- DP-26 (0.0-1.5) (Lab ID: 10457092051)
  - 1,2-Dichloroethane-d4 (S)

5M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- DP-17 (3.0-5.0) (Lab ID: 10457092034)
  - 1,2-Dichloroethane-d4 (S)
- DP-18 (0.0-2.0) (Lab ID: 10457092035)
  - 1,2-Dichloroethane-d4 (S)
- DP-18 (3.0-5.0) (Lab ID: 10457092036)
  - 1,2-Dichloroethane-d4 (S)
- DP-19 (0.0-2.0) (Lab ID: 10457092037)
  - 1,2-Dichloroethane-d4 (S)
- DP-19 (2.0-3.5) (Lab ID: 10457092038)
  - 1,2-Dichloroethane-d4 (S)
- DP-20 (0.0-2.0) (Lab ID: 10457092039)
  - 1,2-Dichloroethane-d4 (S)
- DP-20 (3.0-5.0) (Lab ID: 10457092040)
  - 1,2-Dichloroethane-d4 (S)
- DP-22 (0.0-2.0) (Lab ID: 10457092043)
  - 1,2-Dichloroethane-d4 (S)
- DP-22 (2.0-4.0) (Lab ID: 10457092044)
  - 1,2-Dichloroethane-d4 (S)
- DP-25 (3.0-5.0) (Lab ID: 10457092050)
  - 1,2-Dichloroethane-d4 (S)
- DP-26 (1.5-3.0) (Lab ID: 10457092052)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 592201

5M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- DP-27 (0.0-2.0) (Lab ID: 10457092053)
  - 1,2-Dichloroethane-d4 (S)
- DP-27 (3.0-4.0) (Lab ID: 10457092054)
  - 1,2-Dichloroethane-d4 (S)
- DP-28 (0.0-2.0) (Lab ID: 10457092055)
  - 1,2-Dichloroethane-d4 (S)
- DP-28 (2.0-4.0) (Lab ID: 10457092056)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

### General Information:

53 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- DP-10 (0.0-2.0) (Lab ID: 10457092019)
- DP-10 (3.0-5.0) (Lab ID: 10457092020)
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
- DP-12 (3.0-5.0) (Lab ID: 10457092024)
- DP-13 (0.0-2.0) (Lab ID: 10457092025)
- DP-13 (3.0-5.0) (Lab ID: 10457092026)
- DP-14 (0.0-2.0) (Lab ID: 10457092027)
- DP-14 (3.0-5.0) (Lab ID: 10457092028)
- DP-7 (0.0-2.0) (Lab ID: 10457092013)
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
- DP-8 (0.0-2.0) (Lab ID: 10457092015)
- DP-8 (3.0-5.0) (Lab ID: 10457092016)
- DP-9 (0.0-2.0) (Lab ID: 10457092017)
- DP-9 (3.0-5.0) (Lab ID: 10457092018)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 579139

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3141085)
  - Bromomethane
- MS (Lab ID: 3141086)
  - Bromomethane
- MSD (Lab ID: 3141087)
  - Bromomethane

QC Batch: 579279

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3142081)
  - Bromomethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579279

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- MS (Lab ID: 3142082)
  - Bromomethane
- MSD (Lab ID: 3142083)
  - Bromomethane

QC Batch: 579622

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3143795)
  - Bromomethane
- MS (Lab ID: 3143796)
  - Bromomethane
- MSD (Lab ID: 3143797)
  - Bromomethane

QC Batch: 580108

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - Chloroethane
- LCS (Lab ID: 3146276)
  - Chloroethane
- MS (Lab ID: 3146277)
  - Chloroethane
- MSD (Lab ID: 3146278)
  - Chloroethane

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 580108

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - Chloroethane
- LCS (Lab ID: 3146276)
  - Chloroethane
- MS (Lab ID: 3146277)
  - Chloroethane
- MSD (Lab ID: 3146278)
  - Chloroethane

QC Batch: 580419

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3147579)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 580419

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- Trichlorofluoromethane
- MS (Lab ID: 3147580)
- Trichlorofluoromethane
- MSD (Lab ID: 3147581)
- Trichlorofluoromethane

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 579279

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579279 [MSV/4671 (Lab ID: 3142080)
- Acetone

QC Batch: 579622

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579622 [MSV/4673 (Lab ID: 3143794)
- Acetone

QC Batch: 580105

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580105 [MSV/4678 (Lab ID: 3146269)
- Benzene

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 580419

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3147579)
- Chloroethane
- Trichlorofluoromethane

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 579139

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457211001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3141086)
  - Bromomethane

R1: RPD value was outside control limits.

- MSD (Lab ID: 3141087)
  - Hexachloro-1,3-butadiene

QC Batch: 579279

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457226001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3142083)
  - trans-1,2-Dichloroethene

QC Batch: 579622

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3143796)
  - 1,2,4-Trichlorobenzene
  - 1,3,5-Trimethylbenzene
  - 1,3-Dichlorobenzene
  - 2-Chlorotoluene
  - 4-Chlorotoluene
  - Bromobenzene
  - Bromomethane
  - Dibromochloromethane
  - n-Butylbenzene
  - n-Propylbenzene
  - tert-Butylbenzene
- MSD (Lab ID: 3143797)
  - Chloroethane

QC Batch: 580105

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457054001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3146272)
  - 1,1-Dichloropropene

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- MSD (Lab ID: 3146278)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,1-Trichloroethane
  - 1,1,2,2-Tetrachloroethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

---

**Method:** EPA 8260B  
**Description:** 8260B MSV 5030 Med Level  
**Client:** GeoEngineers\_WA  
**Date:** December 12, 2019

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2-Butanone (MEK)
- 4-Chlorotoluene
- 4-Methyl-2-pentanone (MIBK)
- Acetone
- Allyl chloride
- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Chlorobenzene
- Chloroethane
- Chloroform
- Dibromomethane
- Diethyl ether (Ethyl ether)
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methyl-tert-butyl ether
- Methylene Chloride
- Naphthalene
- Styrene
- Tetrachloroethene
- Tetrahydrofuran
- Toluene
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- n-Butylbenzene
- n-Propylbenzene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- p-Isopropyltoluene
- sec-Butylbenzene
- tert-Butylbenzene
- trans-1,2-Dichloroethene

### Additional Comments:

Analyte Comments:

QC Batch: 579139

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3141084)
  - Dichlorofluoromethane
- DP-1 (0.0-2.0) (Lab ID: 10457092001)
  - Dichlorofluoromethane
- DP-1 (4.0-5.0) (Lab ID: 10457092002)
  - Dichlorofluoromethane
- LCS (Lab ID: 3141085)
  - Dichlorofluoromethane
- MS (Lab ID: 3141086)
  - Dichlorofluoromethane
- MSD (Lab ID: 3141087)
  - Dichlorofluoromethane

QC Batch: 579279

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3142080)
  - Dichlorofluoromethane
- DP-2 (0.0-2.0) (Lab ID: 10457092003)
  - Dichlorofluoromethane
- DP-2 (4.0-5.0) (Lab ID: 10457092004)
  - Dichlorofluoromethane
- DP-3 (0.0-2.0) (Lab ID: 10457092005)
  - Dichlorofluoromethane
- DP-3 (3.0-5.0) (Lab ID: 10457092006)
  - Dichlorofluoromethane
- DP-4 (0.0-2.0) (Lab ID: 10457092007)
  - Dichlorofluoromethane
- DP-4 (3.0-5.0) (Lab ID: 10457092008)
  - Dichlorofluoromethane
- LCS (Lab ID: 3142081)
  - Dichlorofluoromethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 579279

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MS (Lab ID: 3142082)
  - Dichlorofluoromethane
- MSD (Lab ID: 3142083)
  - Dichlorofluoromethane
- Trip Blanks (Lab ID: 10457092057)
  - Dichlorofluoromethane

QC Batch: 579622

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3143794)
  - Dichlorofluoromethane
- DP-5 (0.0-2.0) (Lab ID: 10457092009)
  - Dichlorofluoromethane
- DP-5 (3.0-5.0) (Lab ID: 10457092010)
  - Dichlorofluoromethane
- DP-6 (0.0-2.0) (Lab ID: 10457092011)
  - Dichlorofluoromethane
- DP-6 (3.0-5.0) (Lab ID: 10457092012)
  - Dichlorofluoromethane
- LCS (Lab ID: 3143795)
  - Dichlorofluoromethane
- MS (Lab ID: 3143796)
  - Dichlorofluoromethane
- MSD (Lab ID: 3143797)
  - Dichlorofluoromethane

QC Batch: 579856

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3145266)
  - Dichlorofluoromethane
- DP-10 (0.0-2.0) (Lab ID: 10457092019)
  - Dichlorofluoromethane
- DP-10 (3.0-5.0) (Lab ID: 10457092020)
  - Dichlorofluoromethane
- DP-11 (0.0-2.0) (Lab ID: 10457092021)
  - Dichlorofluoromethane
- DP-11 (3.0-5.0) (Lab ID: 10457092022)
  - Dichlorofluoromethane
- DP-12 (0.0-2.0) (Lab ID: 10457092023)
  - Dichlorofluoromethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 579856

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- DP-12 (3.0-5.0) (Lab ID: 10457092024)
  - Dichlorofluoromethane
- DP-13 (0.0-2.0) (Lab ID: 10457092025)
  - Dichlorofluoromethane
- DP-13 (3.0-5.0) (Lab ID: 10457092026)
  - Dichlorofluoromethane
- DP-14 (0.0-2.0) (Lab ID: 10457092027)
  - Dichlorofluoromethane
- DP-14 (3.0-5.0) (Lab ID: 10457092028)
  - Dichlorofluoromethane
- DP-7 (0.0-2.0) (Lab ID: 10457092013)
  - Dichlorofluoromethane
- DP-7 (3.0-5.0) (Lab ID: 10457092014)
  - Dichlorofluoromethane
- DP-8 (0.0-2.0) (Lab ID: 10457092015)
  - Dichlorofluoromethane
- DP-8 (3.0-5.0) (Lab ID: 10457092016)
  - Dichlorofluoromethane
- DP-9 (0.0-2.0) (Lab ID: 10457092017)
  - Dichlorofluoromethane
- DP-9 (3.0-5.0) (Lab ID: 10457092018)
  - Dichlorofluoromethane
- LCS (Lab ID: 3145267)
  - Dichlorofluoromethane
- MS (Lab ID: 3145434)
  - Dichlorofluoromethane
- MSD (Lab ID: 3145435)
  - Dichlorofluoromethane

QC Batch: 580105

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3146269)
  - Dichlorofluoromethane
- DP-15 (0.0-2.0) (Lab ID: 10457092029)
  - Dichlorofluoromethane
- DP-15 (3.0-5.0) (Lab ID: 10457092030)
  - Dichlorofluoromethane
- DP-16 (0.0-2.0) (Lab ID: 10457092031)
  - Dichlorofluoromethane
- DP-16 (3.0-5.0) (Lab ID: 10457092032)
  - Dichlorofluoromethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 580105

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- DP-17 (0.0-2.0) (Lab ID: 10457092033)
  - Dichlorofluoromethane
- DP-17 (3.0-5.0) (Lab ID: 10457092034)
  - Dichlorofluoromethane
- DP-18 (0.0-2.0) (Lab ID: 10457092035)
  - Dichlorofluoromethane
- DP-18 (3.0-5.0) (Lab ID: 10457092036)
  - Dichlorofluoromethane
- DP-19 (0.0-2.0) (Lab ID: 10457092037)
  - Dichlorofluoromethane
- LCS (Lab ID: 3146270)
  - Dichlorofluoromethane
- MS (Lab ID: 3146271)
  - Dichlorofluoromethane
- MSD (Lab ID: 3146272)
  - Dichlorofluoromethane

QC Batch: 580108

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3146275)
  - Dichlorofluoromethane
- DP-19 (2.0-3.5) (Lab ID: 10457092038)
  - Dichlorofluoromethane
- DP-20 (0.0-2.0) (Lab ID: 10457092039)
  - Dichlorofluoromethane
- DP-20 (3.0-5.0) (Lab ID: 10457092040)
  - Dichlorofluoromethane
- DP-21 (0.0-1.5) (Lab ID: 10457092041)
  - Dichlorofluoromethane
- DP-21 (1.5-3.0) (Lab ID: 10457092042)
  - Dichlorofluoromethane
- DP-22 (0.0-2.0) (Lab ID: 10457092043)
  - Dichlorofluoromethane
- DP-22 (2.0-4.0) (Lab ID: 10457092044)
  - Dichlorofluoromethane
- DP-23 (0.0-1.5) (Lab ID: 10457092045)
  - Dichlorofluoromethane
- DP-23 (1.5-3.0) (Lab ID: 10457092046)
  - Dichlorofluoromethane
- LCS (Lab ID: 3146276)
  - Dichlorofluoromethane

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** December 12, 2019

Analyte Comments:

QC Batch: 580108

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MS (Lab ID: 3146277)
  - Dichlorofluoromethane
- MSD (Lab ID: 3146278)
  - Dichlorofluoromethane

QC Batch: 580419

1M: Preserved from glass jar with headspace outside 48 hours from collection.

- DP-24 (1.5-3.0) (Lab ID: 10457092048)
  - 1,2-Dichloroethane-d4 (S)

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3147578)
  - Dichlorofluoromethane
- DP-24 (0.0-1.5) (Lab ID: 10457092047)
  - Dichlorofluoromethane
- DP-24 (1.5-3.0) (Lab ID: 10457092048)
  - Dichlorofluoromethane
- DP-27 (0.0-2.0) (Lab ID: 10457092053)
  - Dichlorofluoromethane
- DP-27 (3.0-4.0) (Lab ID: 10457092054)
  - Dichlorofluoromethane
- DP-28 (0.0-2.0) (Lab ID: 10457092055)
  - Dichlorofluoromethane
- DP-28 (2.0-4.0) (Lab ID: 10457092056)
  - Dichlorofluoromethane
- LCS (Lab ID: 3147579)
  - Dichlorofluoromethane
- MS (Lab ID: 3147580)
  - Dichlorofluoromethane
- MSD (Lab ID: 3147581)
  - Dichlorofluoromethane

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-1 (0.0-2.0)**      **Lab ID: 10457092001**      Collected: 11/26/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.8	ug/kg	38.8	10.8	1	12/03/18 19:42	12/05/18 18:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.6	ug/kg	38.8	13.6	1	12/03/18 19:42	12/05/18 18:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	38.8	15.5	1	12/03/18 19:42	12/05/18 18:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.2	ug/kg	38.8	13.2	1	12/03/18 19:42	12/05/18 18:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.6	ug/kg	38.8	11.6	1	12/03/18 19:42	12/05/18 18:14	12672-29-6	
PCB-1254 (Aroclor 1254)	175	ug/kg	38.8	11.4	1	12/03/18 19:42	12/05/18 18:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.3	ug/kg	38.8	9.3	1	12/03/18 19:42	12/05/18 18:14	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	48-125		1	12/03/18 19:42	12/05/18 18:14	877-09-8	
Decachlorobiphenyl (S)	88	%	30-134		1	12/03/18 19:42	12/05/18 18:14	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	44.6	mg/kg	17.6	2.9	1	11/30/18 17:47	12/02/18 20:12	68334-30-5	M1
Motor Oil Range	209	mg/kg	11.7	5.1	1	11/30/18 17:47	12/02/18 20:12		M1
<b>Surrogates</b>									
n-Triacontane (S)	68	%	50-150		1	11/30/18 17:47	12/02/18 20:12	638-68-6	
o-Terphenyl (S)	84	%	50-150		1	11/30/18 17:47	12/02/18 20:12	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.77	mg/kg	5.9	0.77	1	12/07/18 15:19	12/07/18 19:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	74	%	50-150		1	12/07/18 15:19	12/07/18 19:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.1	mg/kg	5.7	2.1	5	12/06/18 08:15	12/11/18 10:34	7440-36-0	D3,M1
Arsenic	5.6J	mg/kg	5.7	1.2	5	12/06/18 08:15	12/11/18 10:34	7440-38-2	D3
Beryllium	<0.076	mg/kg	1.4	0.076	5	12/06/18 08:15	12/11/18 10:34	7440-41-7	D3
Cadmium	1.9	mg/kg	0.85	0.11	5	12/06/18 08:15	12/11/18 10:34	7440-43-9	
Chromium	163	mg/kg	2.8	0.48	5	12/06/18 08:15	12/11/18 10:34	7440-47-3	M1
Copper	97.2	mg/kg	2.8	0.31	5	12/06/18 08:15	12/11/18 10:34	7440-50-8	M1
Lead	158	mg/kg	2.8	0.64	5	12/06/18 08:15	12/11/18 10:34	7439-92-1	M1
Nickel	48.5	mg/kg	5.7	0.36	5	12/06/18 08:15	12/11/18 10:34	7440-02-0	M1
Selenium	<1.9	mg/kg	5.7	1.9	5	12/06/18 08:15	12/11/18 10:34	7782-49-2	D3
Silver	<0.21	mg/kg	2.8	0.21	5	12/06/18 08:15	12/11/18 10:34	7440-22-4	D3
Thallium	4.6J	mg/kg	5.7	1.3	5	12/06/18 08:15	12/11/18 10:34	7440-28-0	D3,M1
Zinc	506	mg/kg	5.7	2.5	5	12/06/18 08:15	12/11/18 10:34	7440-66-6	P6
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	0.21	mg/kg	0.11	0.037	20	12/05/19 07:35	12/05/19 23:02	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.10	mg/kg	0.023	0.0092	1	12/05/18 14:27	12/12/18 13:58	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	15.0	%	0.10	0.10	1		12/11/18 14:47		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-1 (0.0-2.0)**      **Lab ID: 10457092001**      Collected: 11/26/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>6.3J</b>	ug/kg	11.7	0.63	1	12/10/18 12:55	12/12/18 00:57	90-12-0	
2-Methylnaphthalene	<b>4.4J</b>	ug/kg	11.7	0.59	1	12/10/18 12:55	12/12/18 00:57	91-57-6	
Acenaphthene	<b>3.2J</b>	ug/kg	11.7	0.48	1	12/10/18 12:55	12/12/18 00:57	83-32-9	
Acenaphthylene	<b>45.3</b>	ug/kg	11.7	0.58	1	12/10/18 12:55	12/12/18 00:57	208-96-8	M1,R1
Anthracene	<b>43.0</b>	ug/kg	11.7	0.55	1	12/10/18 12:55	12/12/18 00:57	120-12-7	M1,R1
Benzo(a)anthracene	<b>147</b>	ug/kg	11.7	1.3	1	12/10/18 12:55	12/12/18 00:57	56-55-3	M1,R1
Benzo(a)pyrene	<b>122</b>	ug/kg	11.7	0.80	1	12/10/18 12:55	12/12/18 00:57	50-32-8	M1,R1
Benzo(b)fluoranthene	<b>175</b>	ug/kg	11.7	0.44	1	12/10/18 12:55	12/12/18 00:57	205-99-2	M1,R1
Benzo(g,h,i)perylene	<b>72.4</b>	ug/kg	11.7	0.74	1	12/10/18 12:55	12/12/18 00:57	191-24-2	M1,R1
Benzo(k)fluoranthene	<b>66.4</b>	ug/kg	11.7	0.99	1	12/10/18 12:55	12/12/18 00:57	207-08-9	M1,R1
Chrysene	<b>161</b>	ug/kg	11.7	1.6	1	12/10/18 12:55	12/12/18 00:57	218-01-9	M1,R1
Dibenz(a,h)anthracene	<b>26.3</b>	ug/kg	11.7	0.54	1	12/10/18 12:55	12/12/18 00:57	53-70-3	R1
Fluoranthene	<b>259</b>	ug/kg	11.7	0.50	1	12/10/18 12:55	12/12/18 00:57	206-44-0	L2,M0, R1
Fluorene	<b>18.1</b>	ug/kg	11.7	0.37	1	12/10/18 12:55	12/12/18 00:57	86-73-7	M1,R1
Indeno(1,2,3-cd)pyrene	<b>62.6</b>	ug/kg	11.7	0.78	1	12/10/18 12:55	12/12/18 00:57	193-39-5	M1,R1
Naphthalene	<b>3.3J</b>	ug/kg	11.7	0.90	1	12/10/18 12:55	12/12/18 00:57	91-20-3	
Phenanthrene	<b>123</b>	ug/kg	11.7	2.2	1	12/10/18 12:55	12/12/18 00:57	85-01-8	M1,R1
Pyrene	<b>235</b>	ug/kg	11.7	1.8	1	12/10/18 12:55	12/12/18 00:57	129-00-0	M1,R1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	42-125		1	12/10/18 12:55	12/12/18 00:57	321-60-8	
p-Terphenyl-d14 (S)	71	%	57-125		1	12/10/18 12:55	12/12/18 00:57	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.25</b>	ug/kg	4.4	0.25	1	02/26/19 09:24	02/26/19 13:58	106-93-4	
Methylene Chloride	<b>&lt;4.1</b>	ug/kg	22.2	4.1	1	02/26/19 09:24	02/26/19 13:58	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/26/19 09:24	02/26/19 13:58	17060-07-0	6M,H3
Toluene-d8 (S)	92	%	75-125		1	02/26/19 09:24	02/26/19 13:58	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/26/19 09:24	02/26/19 13:58	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;22.0</b>	ug/kg	70.2	22.0	1	12/05/18 16:31	12/06/18 09:12	630-20-6	
1,1,1-Trichloroethane	<b>&lt;32.7</b>	ug/kg	70.2	32.7	1	12/05/18 16:31	12/06/18 09:12	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;12.4</b>	ug/kg	281	12.4	1	12/05/18 16:31	12/06/18 09:12	79-34-5	
1,1,2-Trichloroethane	<b>&lt;8.4</b>	ug/kg	70.2	8.4	1	12/05/18 16:31	12/06/18 09:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;81.4</b>	ug/kg	281	81.4	1	12/05/18 16:31	12/06/18 09:12	76-13-1	
1,1-Dichloroethane	<b>&lt;7.9</b>	ug/kg	70.2	7.9	1	12/05/18 16:31	12/06/18 09:12	75-34-3	
1,1-Dichloroethene	<b>&lt;21.1</b>	ug/kg	281	21.1	1	12/05/18 16:31	12/06/18 09:12	75-35-4	
1,1-Dichloropropene	<b>&lt;32.4</b>	ug/kg	70.2	32.4	1	12/05/18 16:31	12/06/18 09:12	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;11.2</b>	ug/kg	70.2	11.2	1	12/05/18 16:31	12/06/18 09:12	87-61-6	
1,2,3-Trichloropropane	<b>&lt;18.4</b>	ug/kg	281	18.4	1	12/05/18 16:31	12/06/18 09:12	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;15.6</b>	ug/kg	70.2	15.6	1	12/05/18 16:31	12/06/18 09:12	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;14.0</b>	ug/kg	70.2	14.0	1	12/05/18 16:31	12/06/18 09:12	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;244</b>	ug/kg	702	244	1	12/05/18 16:31	12/06/18 09:12	96-12-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-1 (0.0-2.0)**      **Lab ID: 10457092001**      Collected: 11/26/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dibromoethane (EDB)	<7.4	ug/kg	70.2	7.4	1	12/05/18 16:31	12/06/18 09:12	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/kg	70.2	2.8	1	12/05/18 16:31	12/06/18 09:12	95-50-1	
1,2-Dichloroethane	<7.7	ug/kg	70.2	7.7	1	12/05/18 16:31	12/06/18 09:12	107-06-2	
1,2-Dichloropropane	<12.1	ug/kg	70.2	12.1	1	12/05/18 16:31	12/06/18 09:12	78-87-5	
1,3,5-Trimethylbenzene	<11.2	ug/kg	70.2	11.2	1	12/05/18 16:31	12/06/18 09:12	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	70.2	2.6	1	12/05/18 16:31	12/06/18 09:12	541-73-1	
1,3-Dichloropropane	<9.7	ug/kg	70.2	9.7	1	12/05/18 16:31	12/06/18 09:12	142-28-9	
1,4-Dichlorobenzene	<4.4	ug/kg	70.2	4.4	1	12/05/18 16:31	12/06/18 09:12	106-46-7	
2,2-Dichloropropane	<8.8	ug/kg	281	8.8	1	12/05/18 16:31	12/06/18 09:12	594-20-7	
2-Butanone (MEK)	<37.3	ug/kg	351	37.3	1	12/05/18 16:31	12/06/18 09:12	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	70.2	3.5	1	12/05/18 16:31	12/06/18 09:12	95-49-8	
4-Chlorotoluene	<3.6	ug/kg	70.2	3.6	1	12/05/18 16:31	12/06/18 09:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.6	ug/kg	351	14.6	1	12/05/18 16:31	12/06/18 09:12	108-10-1	
Acetone	<436	ug/kg	1400	436	1	12/05/18 16:31	12/06/18 09:12	67-64-1	
Allyl chloride	<58.8	ug/kg	281	58.8	1	12/05/18 16:31	12/06/18 09:12	107-05-1	
Benzene	<4.0	ug/kg	28.1	4.0	1	12/05/18 16:31	12/06/18 09:12	71-43-2	
Bromobenzene	<4.3	ug/kg	70.2	4.3	1	12/05/18 16:31	12/06/18 09:12	108-86-1	
Bromochloromethane	<24.3	ug/kg	70.2	24.3	1	12/05/18 16:31	12/06/18 09:12	74-97-5	
Bromodichloromethane	<24.0	ug/kg	70.2	24.0	1	12/05/18 16:31	12/06/18 09:12	75-27-4	
Bromoform	<106	ug/kg	281	106	1	12/05/18 16:31	12/06/18 09:12	75-25-2	
Bromomethane	<82.1	ug/kg	702	82.1	1	12/05/18 16:31	12/06/18 09:12	74-83-9	
Carbon tetrachloride	<33.5	ug/kg	70.2	33.5	1	12/05/18 16:31	12/06/18 09:12	56-23-5	
Chlorobenzene	<4.0	ug/kg	70.2	4.0	1	12/05/18 16:31	12/06/18 09:12	108-90-7	
Chloroethane	<36.5	ug/kg	702	36.5	1	12/05/18 16:31	12/06/18 09:12	75-00-3	
Chloroform	<35.1	ug/kg	70.2	35.1	1	12/05/18 16:31	12/06/18 09:12	67-66-3	
Chloromethane	<16.8	ug/kg	281	16.8	1	12/05/18 16:31	12/06/18 09:12	74-87-3	
Dibromochloromethane	<8.1	ug/kg	281	8.1	1	12/05/18 16:31	12/06/18 09:12	124-48-1	
Dibromomethane	<12.9	ug/kg	70.2	12.9	1	12/05/18 16:31	12/06/18 09:12	74-95-3	
Dichlorodifluoromethane	<22.7	ug/kg	281	22.7	1	12/05/18 16:31	12/06/18 09:12	75-71-8	
Dichlorofluoromethane	<97.0	ug/kg	702	97.0	1	12/05/18 16:31	12/06/18 09:12	75-43-4	N2
Diethyl ether (Ethyl ether)	<42.9	ug/kg	281	42.9	1	12/05/18 16:31	12/06/18 09:12	60-29-7	
Ethylbenzene	<3.8	ug/kg	70.2	3.8	1	12/05/18 16:31	12/06/18 09:12	100-41-4	
Hexachloro-1,3-butadiene	<17.1	ug/kg	351	17.1	1	12/05/18 16:31	12/06/18 09:12	87-68-3	
Isopropylbenzene (Cumene)	<3.1	ug/kg	70.2	3.1	1	12/05/18 16:31	12/06/18 09:12	98-82-8	
Methyl-tert-butyl ether	<8.4	ug/kg	70.2	8.4	1	12/05/18 16:31	12/06/18 09:12	1634-04-4	
Methylene Chloride	<132	ug/kg	281	132	1	12/05/18 16:31	12/06/18 09:12	75-09-2	
Naphthalene	<65.7	ug/kg	281	65.7	1	12/05/18 16:31	12/06/18 09:12	91-20-3	
Styrene	<3.2	ug/kg	70.2	3.2	1	12/05/18 16:31	12/06/18 09:12	100-42-5	
Tetrachloroethene	<24.7	ug/kg	70.2	24.7	1	12/05/18 16:31	12/06/18 09:12	127-18-4	
Tetrahydrofuran	<102	ug/kg	2810	102	1	12/05/18 16:31	12/06/18 09:12	109-99-9	
Toluene	<17.1	ug/kg	70.2	17.1	1	12/05/18 16:31	12/06/18 09:12	108-88-3	
Trichloroethene	<10.8	ug/kg	70.2	10.8	1	12/05/18 16:31	12/06/18 09:12	79-01-6	
Trichlorofluoromethane	<122	ug/kg	281	122	1	12/05/18 16:31	12/06/18 09:12	75-69-4	
Vinyl chloride	<13.8	ug/kg	70.2	13.8	1	12/05/18 16:31	12/06/18 09:12	75-01-4	
Xylene (Total)	<16.3	ug/kg	211	16.3	1	12/05/18 16:31	12/06/18 09:12	1330-20-7	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-1 (0.0-2.0)**      **Lab ID: 10457092001**      Collected: 11/26/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
cis-1,2-Dichloroethene	<11.6	ug/kg	70.2	11.6	1	12/05/18 16:31	12/06/18 09:12	156-59-2	
cis-1,3-Dichloropropene	<10.0	ug/kg	70.2	10.0	1	12/05/18 16:31	12/06/18 09:12	10061-01-5	
n-Butylbenzene	<33.4	ug/kg	70.2	33.4	1	12/05/18 16:31	12/06/18 09:12	104-51-8	
n-Propylbenzene	<3.7	ug/kg	70.2	3.7	1	12/05/18 16:31	12/06/18 09:12	103-65-1	
p-Isopropyltoluene	<21.3	ug/kg	70.2	21.3	1	12/05/18 16:31	12/06/18 09:12	99-87-6	
sec-Butylbenzene	<13.4	ug/kg	70.2	13.4	1	12/05/18 16:31	12/06/18 09:12	135-98-8	
tert-Butylbenzene	<13.5	ug/kg	70.2	13.5	1	12/05/18 16:31	12/06/18 09:12	98-06-6	
trans-1,2-Dichloroethene	<32.8	ug/kg	70.2	32.8	1	12/05/18 16:31	12/06/18 09:12	156-60-5	
trans-1,3-Dichloropropene	<9.8	ug/kg	70.2	9.8	1	12/05/18 16:31	12/06/18 09:12	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/05/18 16:31	12/06/18 09:12	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/05/18 16:31	12/06/18 09:12	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	12/05/18 16:31	12/06/18 09:12	460-00-4	

**Sample: DP-1 (4.0-5.0)**      **Lab ID: 10457092002**      Collected: 11/26/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A    Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.5	ug/kg	41.3	11.5	1	12/03/18 19:42	12/05/18 18:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.5	ug/kg	41.3	14.5	1	12/03/18 19:42	12/05/18 18:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.5	ug/kg	41.3	16.5	1	12/03/18 19:42	12/05/18 18:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.0	ug/kg	41.3	14.0	1	12/03/18 19:42	12/05/18 18:29	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.4	ug/kg	41.3	12.4	1	12/03/18 19:42	12/05/18 18:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.2	ug/kg	41.3	12.2	1	12/03/18 19:42	12/05/18 18:29	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.9	ug/kg	41.3	9.9	1	12/03/18 19:42	12/05/18 18:29	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	48-125		1	12/03/18 19:42	12/05/18 18:29	877-09-8	
Decachlorobiphenyl (S)	90	%	30-134		1	12/03/18 19:42	12/05/18 18:29	2051-24-3	
<b>NWTPH-Dx GCS</b>		Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550							
Diesel Fuel Range	<3.1	mg/kg	18.9	3.1	1	11/30/18 17:47	12/02/18 21:36	68334-30-5	
Motor Oil Range	9.2J	mg/kg	12.6	5.5	1	11/30/18 17:47	12/02/18 21:36		
<b>Surrogates</b>									
n-Triacontane (S)	86	%	50-150		1	11/30/18 17:47	12/02/18 21:36	638-68-6	
o-Terphenyl (S)	89	%	50-150		1	11/30/18 17:47	12/02/18 21:36	84-15-1	
<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx							
TPH as Gas	<0.98	mg/kg	7.5	0.98	1	12/07/18 15:19	12/07/18 19:28		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	73	%	50-150		1	12/07/18 15:19	12/07/18 19:28	98-08-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-1 (4.0-5.0)**      **Lab ID: 10457092002**      Collected: 11/26/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.1	2.3	5	12/06/18 08:15	12/11/18 10:42	7440-36-0	D3
Arsenic	1.5J	mg/kg	6.1	1.3	5	12/06/18 08:15	12/11/18 10:42	7440-38-2	D3
Beryllium	<0.082	mg/kg	1.5	0.082	5	12/06/18 08:15	12/11/18 10:42	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.92	0.12	5	12/06/18 08:15	12/11/18 10:42	7440-43-9	D3
Chromium	7.8	mg/kg	3.1	0.52	5	12/06/18 08:15	12/11/18 10:42	7440-47-3	
Copper	23.8	mg/kg	3.1	0.34	5	12/06/18 08:15	12/11/18 10:42	7440-50-8	
Lead	8.1	mg/kg	3.1	0.69	5	12/06/18 08:15	12/11/18 10:42	7439-92-1	
Nickel	7.5	mg/kg	6.1	0.38	5	12/06/18 08:15	12/11/18 10:42	7440-02-0	
Selenium	<2.0	mg/kg	6.1	2.0	5	12/06/18 08:15	12/11/18 10:42	7782-49-2	D3
Silver	<0.22	mg/kg	3.1	0.22	5	12/06/18 08:15	12/11/18 10:42	7440-22-4	D3
Thallium	5.7J	mg/kg	6.1	1.4	5	12/06/18 08:15	12/11/18 10:42	7440-28-0	D3
Zinc	79.0	mg/kg	6.1	2.7	5	12/06/18 08:15	12/11/18 10:42	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	0.12	mg/kg	0.12	0.042	20	12/05/19 07:35	12/05/19 23:16	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.012J	mg/kg	0.024	0.0098	1	12/05/18 14:27	12/12/18 14:04	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.4	%	0.10	0.10	1		12/11/18 14:47		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.67	ug/kg	12.5	0.67	1	12/10/18 12:55	12/12/18 01:59	90-12-0	
2-Methylnaphthalene	<0.63	ug/kg	12.5	0.63	1	12/10/18 12:55	12/12/18 01:59	91-57-6	
Acenaphthene	0.52J	ug/kg	12.5	0.51	1	12/10/18 12:55	12/12/18 01:59	83-32-9	
Acenaphthylene	<0.62	ug/kg	12.5	0.62	1	12/10/18 12:55	12/12/18 01:59	208-96-8	
Anthracene	0.60J	ug/kg	12.5	0.58	1	12/10/18 12:55	12/12/18 01:59	120-12-7	B
Benzo(a)anthracene	1.7J	ug/kg	12.5	1.3	1	12/10/18 12:55	12/12/18 01:59	56-55-3	
Benzo(a)pyrene	2.2J	ug/kg	12.5	0.86	1	12/10/18 12:55	12/12/18 01:59	50-32-8	
Benzo(b)fluoranthene	2.5J	ug/kg	12.5	0.47	1	12/10/18 12:55	12/12/18 01:59	205-99-2	
Benzo(g,h,i)perylene	1.4J	ug/kg	12.5	0.79	1	12/10/18 12:55	12/12/18 01:59	191-24-2	
Benzo(k)fluoranthene	1.1J	ug/kg	12.5	1.1	1	12/10/18 12:55	12/12/18 01:59	207-08-9	
Chrysene	1.7J	ug/kg	12.5	1.7	1	12/10/18 12:55	12/12/18 01:59	218-01-9	
Dibenz(a,h)anthracene	<0.58	ug/kg	12.5	0.58	1	12/10/18 12:55	12/12/18 01:59	53-70-3	
Fluoranthene	3.1J	ug/kg	12.5	0.53	1	12/10/18 12:55	12/12/18 01:59	206-44-0	B,L2
Fluorene	0.40J	ug/kg	12.5	0.39	1	12/10/18 12:55	12/12/18 01:59	86-73-7	
Indeno(1,2,3-cd)pyrene	1.3J	ug/kg	12.5	0.84	1	12/10/18 12:55	12/12/18 01:59	193-39-5	
Naphthalene	<0.96	ug/kg	12.5	0.96	1	12/10/18 12:55	12/12/18 01:59	91-20-3	
Phenanthrene	<2.4	ug/kg	12.5	2.4	1	12/10/18 12:55	12/12/18 01:59	85-01-8	
Pyrene	2.7J	ug/kg	12.5	1.9	1	12/10/18 12:55	12/12/18 01:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	42-125		1	12/10/18 12:55	12/12/18 01:59	321-60-8	
p-Terphenyl-d14 (S)	80	%	57-125		1	12/10/18 12:55	12/12/18 01:59	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-1 (4.0-5.0)**      **Lab ID: 10457092002**      Collected: 11/26/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.7	0.27	1	02/26/19 09:24	02/26/19 14:17	106-93-4	
Methylene Chloride	<4.4	ug/kg	23.7	4.4	1	02/26/19 09:24	02/26/19 14:17	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	02/26/19 09:24	02/26/19 14:17	17060-07-0	6M,H3
Toluene-d8 (S)	93	%	75-125		1	02/26/19 09:24	02/26/19 14:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/26/19 09:24	02/26/19 14:17	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<23.5	ug/kg	75.0	23.5	1	12/05/18 16:31	12/06/18 08:35	630-20-6	
1,1,1-Trichloroethane	<34.9	ug/kg	75.0	34.9	1	12/05/18 16:31	12/06/18 08:35	71-55-6	
1,1,1,2-Tetrachloroethane	<13.2	ug/kg	300	13.2	1	12/05/18 16:31	12/06/18 08:35	79-34-5	
1,1,2-Trichloroethane	<9.0	ug/kg	75.0	9.0	1	12/05/18 16:31	12/06/18 08:35	79-00-5	
1,1,2-Trichlorotrifluoroethane	<87.0	ug/kg	300	87.0	1	12/05/18 16:31	12/06/18 08:35	76-13-1	
1,1-Dichloroethane	<8.4	ug/kg	75.0	8.4	1	12/05/18 16:31	12/06/18 08:35	75-34-3	
1,1-Dichloroethene	<22.5	ug/kg	300	22.5	1	12/05/18 16:31	12/06/18 08:35	75-35-4	
1,1-Dichloropropene	<34.6	ug/kg	75.0	34.6	1	12/05/18 16:31	12/06/18 08:35	563-58-6	
1,2,3-Trichlorobenzene	<12.0	ug/kg	75.0	12.0	1	12/05/18 16:31	12/06/18 08:35	87-61-6	
1,2,3-Trichloropropane	<19.6	ug/kg	300	19.6	1	12/05/18 16:31	12/06/18 08:35	96-18-4	
1,2,4-Trichlorobenzene	<16.6	ug/kg	75.0	16.6	1	12/05/18 16:31	12/06/18 08:35	120-82-1	
1,2,4-Trimethylbenzene	<15.0	ug/kg	75.0	15.0	1	12/05/18 16:31	12/06/18 08:35	95-63-6	
1,2-Dibromo-3-chloropropane	<261	ug/kg	750	261	1	12/05/18 16:31	12/06/18 08:35	96-12-8	
1,2-Dibromoethane (EDB)	<7.9	ug/kg	75.0	7.9	1	12/05/18 16:31	12/06/18 08:35	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	75.0	3.0	1	12/05/18 16:31	12/06/18 08:35	95-50-1	
1,2-Dichloroethane	<8.2	ug/kg	75.0	8.2	1	12/05/18 16:31	12/06/18 08:35	107-06-2	
1,2-Dichloropropane	<12.9	ug/kg	75.0	12.9	1	12/05/18 16:31	12/06/18 08:35	78-87-5	
1,3,5-Trimethylbenzene	<12.0	ug/kg	75.0	12.0	1	12/05/18 16:31	12/06/18 08:35	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	75.0	2.7	1	12/05/18 16:31	12/06/18 08:35	541-73-1	
1,3-Dichloropropane	<10.4	ug/kg	75.0	10.4	1	12/05/18 16:31	12/06/18 08:35	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	75.0	4.6	1	12/05/18 16:31	12/06/18 08:35	106-46-7	
2,2-Dichloropropane	<9.4	ug/kg	300	9.4	1	12/05/18 16:31	12/06/18 08:35	594-20-7	
2-Butanone (MEK)	<39.9	ug/kg	375	39.9	1	12/05/18 16:31	12/06/18 08:35	78-93-3	
2-Chlorotoluene	<3.7	ug/kg	75.0	3.7	1	12/05/18 16:31	12/06/18 08:35	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	75.0	3.8	1	12/05/18 16:31	12/06/18 08:35	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.6	ug/kg	375	15.6	1	12/05/18 16:31	12/06/18 08:35	108-10-1	
Acetone	931J	ug/kg	1500	466	1	12/05/18 16:31	12/06/18 08:35	67-64-1	
Allyl chloride	<62.8	ug/kg	300	62.8	1	12/05/18 16:31	12/06/18 08:35	107-05-1	
Benzene	<4.2	ug/kg	30.0	4.2	1	12/05/18 16:31	12/06/18 08:35	71-43-2	
Bromobenzene	<4.6	ug/kg	75.0	4.6	1	12/05/18 16:31	12/06/18 08:35	108-86-1	
Bromochloromethane	<25.9	ug/kg	75.0	25.9	1	12/05/18 16:31	12/06/18 08:35	74-97-5	
Bromodichloromethane	<25.6	ug/kg	75.0	25.6	1	12/05/18 16:31	12/06/18 08:35	75-27-4	
Bromoform	<114	ug/kg	300	114	1	12/05/18 16:31	12/06/18 08:35	75-25-2	
Bromomethane	<87.7	ug/kg	750	87.7	1	12/05/18 16:31	12/06/18 08:35	74-83-9	
Carbon tetrachloride	<35.8	ug/kg	75.0	35.8	1	12/05/18 16:31	12/06/18 08:35	56-23-5	
Chlorobenzene	<4.2	ug/kg	75.0	4.2	1	12/05/18 16:31	12/06/18 08:35	108-90-7	
Chloroethane	<39.0	ug/kg	750	39.0	1	12/05/18 16:31	12/06/18 08:35	75-00-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-1 (4.0-5.0) Lab ID: 10457092002** Collected: 11/26/18 12:30 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Chloroform	<37.5	ug/kg	75.0	37.5	1	12/05/18 16:31	12/06/18 08:35	67-66-3	
Chloromethane	<18.0	ug/kg	300	18.0	1	12/05/18 16:31	12/06/18 08:35	74-87-3	
Dibromochloromethane	<8.7	ug/kg	300	8.7	1	12/05/18 16:31	12/06/18 08:35	124-48-1	
Dibromomethane	<13.8	ug/kg	75.0	13.8	1	12/05/18 16:31	12/06/18 08:35	74-95-3	
Dichlorodifluoromethane	<24.3	ug/kg	300	24.3	1	12/05/18 16:31	12/06/18 08:35	75-71-8	
Dichlorofluoromethane	<104	ug/kg	750	104	1	12/05/18 16:31	12/06/18 08:35	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.9	ug/kg	300	45.9	1	12/05/18 16:31	12/06/18 08:35	60-29-7	
Ethylbenzene	<4.1	ug/kg	75.0	4.1	1	12/05/18 16:31	12/06/18 08:35	100-41-4	
Hexachloro-1,3-butadiene	<18.3	ug/kg	375	18.3	1	12/05/18 16:31	12/06/18 08:35	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	75.0	3.3	1	12/05/18 16:31	12/06/18 08:35	98-82-8	
Methyl-tert-butyl ether	<8.9	ug/kg	75.0	8.9	1	12/05/18 16:31	12/06/18 08:35	1634-04-4	
Methylene Chloride	<141	ug/kg	300	141	1	12/05/18 16:31	12/06/18 08:35	75-09-2	
Naphthalene	<70.2	ug/kg	300	70.2	1	12/05/18 16:31	12/06/18 08:35	91-20-3	
Styrene	<3.4	ug/kg	75.0	3.4	1	12/05/18 16:31	12/06/18 08:35	100-42-5	
Tetrachloroethene	<26.4	ug/kg	75.0	26.4	1	12/05/18 16:31	12/06/18 08:35	127-18-4	
Tetrahydrofuran	<109	ug/kg	3000	109	1	12/05/18 16:31	12/06/18 08:35	109-99-9	
Toluene	<18.3	ug/kg	75.0	18.3	1	12/05/18 16:31	12/06/18 08:35	108-88-3	
Trichloroethene	<11.6	ug/kg	75.0	11.6	1	12/05/18 16:31	12/06/18 08:35	79-01-6	
Trichlorofluoromethane	<131	ug/kg	300	131	1	12/05/18 16:31	12/06/18 08:35	75-69-4	
Vinyl chloride	<14.8	ug/kg	75.0	14.8	1	12/05/18 16:31	12/06/18 08:35	75-01-4	
Xylene (Total)	<17.4	ug/kg	225	17.4	1	12/05/18 16:31	12/06/18 08:35	1330-20-7	
cis-1,2-Dichloroethene	<12.4	ug/kg	75.0	12.4	1	12/05/18 16:31	12/06/18 08:35	156-59-2	
cis-1,3-Dichloropropene	<10.7	ug/kg	75.0	10.7	1	12/05/18 16:31	12/06/18 08:35	10061-01-5	
n-Butylbenzene	<35.7	ug/kg	75.0	35.7	1	12/05/18 16:31	12/06/18 08:35	104-51-8	
n-Propylbenzene	<4.0	ug/kg	75.0	4.0	1	12/05/18 16:31	12/06/18 08:35	103-65-1	
p-Isopropyltoluene	<22.8	ug/kg	75.0	22.8	1	12/05/18 16:31	12/06/18 08:35	99-87-6	
sec-Butylbenzene	<14.4	ug/kg	75.0	14.4	1	12/05/18 16:31	12/06/18 08:35	135-98-8	
tert-Butylbenzene	<14.4	ug/kg	75.0	14.4	1	12/05/18 16:31	12/06/18 08:35	98-06-6	
trans-1,2-Dichloroethene	<35.1	ug/kg	75.0	35.1	1	12/05/18 16:31	12/06/18 08:35	156-60-5	
trans-1,3-Dichloropropene	<10.4	ug/kg	75.0	10.4	1	12/05/18 16:31	12/06/18 08:35	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1	12/05/18 16:31	12/06/18 08:35	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/05/18 16:31	12/06/18 08:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/05/18 16:31	12/06/18 08:35	460-00-4	

**Sample: DP-2 (0.0-2.0) Lab ID: 10457092003** Collected: 11/26/18 13:30 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.1	ug/kg	39.9	11.1	1	12/03/18 19:42	12/05/18 18:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.0	ug/kg	39.9	14.0	1	12/03/18 19:42	12/05/18 18:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	39.9	16.0	1	12/03/18 19:42	12/05/18 18:45	11141-16-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-2 (0.0-2.0)**      **Lab ID: 10457092003**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1242 (Aroclor 1242)	<13.5	ug/kg	39.9	13.5	1	12/03/18 19:42	12/05/18 18:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	39.9	12.0	1	12/03/18 19:42	12/05/18 18:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.7	ug/kg	39.9	11.7	1	12/03/18 19:42	12/05/18 18:45	11097-69-1	
PCB-1260 (Aroclor 1260)	15.1J	ug/kg	39.9	9.5	1	12/03/18 19:42	12/05/18 18:45	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	81	%	48-125		1	12/03/18 19:42	12/05/18 18:45	877-09-8	
Decachlorobiphenyl (S)	89	%	30-134		1	12/03/18 19:42	12/05/18 18:45	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	17.8	2.9	1	11/30/18 17:47	12/02/18 21:45	68334-30-5	
Motor Oil Range	8.2J	mg/kg	11.9	5.1	1	11/30/18 17:47	12/02/18 21:45		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	11/30/18 17:47	12/02/18 21:45	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	11/30/18 17:47	12/02/18 21:45	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.3	mg/kg	9.6	1.3	1	12/07/18 15:19	12/07/18 19:45		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	80	%	50-150		1	12/07/18 15:19	12/07/18 19:45	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.0	2.3	5	12/06/18 08:15	12/11/18 10:44	7440-36-0	D3
Arsenic	2.3J	mg/kg	6.0	1.2	5	12/06/18 08:15	12/11/18 10:44	7440-38-2	D3
Beryllium	<0.080	mg/kg	1.5	0.080	5	12/06/18 08:15	12/11/18 10:44	7440-41-7	D3
Cadmium	0.21J	mg/kg	0.90	0.12	5	12/06/18 08:15	12/11/18 10:44	7440-43-9	D3
Chromium	7.1	mg/kg	3.0	0.51	5	12/06/18 08:15	12/11/18 10:44	7440-47-3	
Copper	18.2	mg/kg	3.0	0.33	5	12/06/18 08:15	12/11/18 10:44	7440-50-8	
Lead	4.5	mg/kg	3.0	0.68	5	12/06/18 08:15	12/11/18 10:44	7439-92-1	
Nickel	8.4	mg/kg	6.0	0.38	5	12/06/18 08:15	12/11/18 10:44	7440-02-0	
Selenium	<2.0	mg/kg	6.0	2.0	5	12/06/18 08:15	12/11/18 10:44	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 10:44	7440-22-4	D3
Thallium	3.7J	mg/kg	6.0	1.4	5	12/06/18 08:15	12/11/18 10:44	7440-28-0	D3
Zinc	56.3	mg/kg	6.0	2.6	5	12/06/18 08:15	12/11/18 10:44	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0091	mg/kg	0.023	0.0091	1	12/05/18 14:27	12/12/18 14:07	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.4	%	0.10	0.10	1		12/11/18 14:47		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.1	0.65	1	12/10/18 12:55	12/12/18 02:19	90-12-0	
2-Methylnaphthalene	<0.61	ug/kg	12.1	0.61	1	12/10/18 12:55	12/12/18 02:19	91-57-6	
Acenaphthene	0.79J	ug/kg	12.1	0.49	1	12/10/18 12:55	12/12/18 02:19	83-32-9	
Acenaphthylene	<0.60	ug/kg	12.1	0.60	1	12/10/18 12:55	12/12/18 02:19	208-96-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-2 (0.0-2.0)**      **Lab ID: 10457092003**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Anthracene	0.71J	ug/kg	12.1	0.57	1	12/10/18 12:55	12/12/18 02:19	120-12-7	B
Benzo(a)anthracene	<1.3	ug/kg	12.1	1.3	1	12/10/18 12:55	12/12/18 02:19	56-55-3	
Benzo(a)pyrene	<0.83	ug/kg	12.1	0.83	1	12/10/18 12:55	12/12/18 02:19	50-32-8	
Benzo(b)fluoranthene	0.63J	ug/kg	12.1	0.45	1	12/10/18 12:55	12/12/18 02:19	205-99-2	
Benzo(g,h,i)perylene	<0.76	ug/kg	12.1	0.76	1	12/10/18 12:55	12/12/18 02:19	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.1	1.0	1	12/10/18 12:55	12/12/18 02:19	207-08-9	
Chrysene	<1.6	ug/kg	12.1	1.6	1	12/10/18 12:55	12/12/18 02:19	218-01-9	
Dibenz(a,h)anthracene	<0.56	ug/kg	12.1	0.56	1	12/10/18 12:55	12/12/18 02:19	53-70-3	
Fluoranthene	1.6J	ug/kg	12.1	0.52	1	12/10/18 12:55	12/12/18 02:19	206-44-0	B,L2
Fluorene	<0.38	ug/kg	12.1	0.38	1	12/10/18 12:55	12/12/18 02:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.81	ug/kg	12.1	0.81	1	12/10/18 12:55	12/12/18 02:19	193-39-5	
Naphthalene	<0.93	ug/kg	12.1	0.93	1	12/10/18 12:55	12/12/18 02:19	91-20-3	
Phenanthrene	<2.3	ug/kg	12.1	2.3	1	12/10/18 12:55	12/12/18 02:19	85-01-8	
Pyrene	<1.8	ug/kg	12.1	1.8	1	12/10/18 12:55	12/12/18 02:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	48	%	42-125		1	12/10/18 12:55	12/12/18 02:19	321-60-8	
p-Terphenyl-d14 (S)	79	%	57-125		1	12/10/18 12:55	12/12/18 02:19	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.4	0.25	1	02/26/19 09:24	02/26/19 14:36	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.2	4.1	1	02/26/19 09:24	02/26/19 14:36	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/26/19 09:24	02/26/19 14:36	17060-07-0	6M,H3
Toluene-d8 (S)	93	%	75-125		1	02/26/19 09:24	02/26/19 14:36	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	02/26/19 09:24	02/26/19 14:36	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<23.5	ug/kg	74.9	23.5	1	12/06/18 13:46	12/07/18 03:18	630-20-6	
1,1,1-Trichloroethane	<34.9	ug/kg	74.9	34.9	1	12/06/18 13:46	12/07/18 03:18	71-55-6	
1,1,2,2-Tetrachloroethane	<13.2	ug/kg	299	13.2	1	12/06/18 13:46	12/07/18 03:18	79-34-5	
1,1,2-Trichloroethane	<9.0	ug/kg	74.9	9.0	1	12/06/18 13:46	12/07/18 03:18	79-00-5	
1,1,2-Trichlorotrifluoroethane	<86.9	ug/kg	299	86.9	1	12/06/18 13:46	12/07/18 03:18	76-13-1	
1,1-Dichloroethane	<8.4	ug/kg	74.9	8.4	1	12/06/18 13:46	12/07/18 03:18	75-34-3	
1,1-Dichloroethene	<22.5	ug/kg	299	22.5	1	12/06/18 13:46	12/07/18 03:18	75-35-4	
1,1-Dichloropropene	<34.6	ug/kg	74.9	34.6	1	12/06/18 13:46	12/07/18 03:18	563-58-6	
1,2,3-Trichlorobenzene	<12.0	ug/kg	74.9	12.0	1	12/06/18 13:46	12/07/18 03:18	87-61-6	
1,2,3-Trichloropropane	<19.6	ug/kg	299	19.6	1	12/06/18 13:46	12/07/18 03:18	96-18-4	
1,2,4-Trichlorobenzene	<16.6	ug/kg	74.9	16.6	1	12/06/18 13:46	12/07/18 03:18	120-82-1	
1,2,4-Trimethylbenzene	<15.0	ug/kg	74.9	15.0	1	12/06/18 13:46	12/07/18 03:18	95-63-6	
1,2-Dibromo-3-chloropropane	<261	ug/kg	749	261	1	12/06/18 13:46	12/07/18 03:18	96-12-8	
1,2-Dibromoethane (EDB)	<7.9	ug/kg	74.9	7.9	1	12/06/18 13:46	12/07/18 03:18	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	74.9	3.0	1	12/06/18 13:46	12/07/18 03:18	95-50-1	
1,2-Dichloroethane	<8.2	ug/kg	74.9	8.2	1	12/06/18 13:46	12/07/18 03:18	107-06-2	
1,2-Dichloropropane	<12.9	ug/kg	74.9	12.9	1	12/06/18 13:46	12/07/18 03:18	78-87-5	
1,3,5-Trimethylbenzene	<11.9	ug/kg	74.9	11.9	1	12/06/18 13:46	12/07/18 03:18	108-67-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-2 (0.0-2.0)**      **Lab ID: 10457092003**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<2.7	ug/kg	74.9	2.7	1	12/06/18 13:46	12/07/18 03:18	541-73-1	
1,3-Dichloropropane	<10.4	ug/kg	74.9	10.4	1	12/06/18 13:46	12/07/18 03:18	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	74.9	4.6	1	12/06/18 13:46	12/07/18 03:18	106-46-7	
2,2-Dichloropropane	<9.3	ug/kg	299	9.3	1	12/06/18 13:46	12/07/18 03:18	594-20-7	
2-Butanone (MEK)	<39.8	ug/kg	374	39.8	1	12/06/18 13:46	12/07/18 03:18	78-93-3	
2-Chlorotoluene	<3.7	ug/kg	74.9	3.7	1	12/06/18 13:46	12/07/18 03:18	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	74.9	3.8	1	12/06/18 13:46	12/07/18 03:18	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.6	ug/kg	374	15.6	1	12/06/18 13:46	12/07/18 03:18	108-10-1	
Acetone	592J	ug/kg	1500	466	1	12/06/18 13:46	12/07/18 03:18	67-64-1	B
Allyl chloride	<62.7	ug/kg	299	62.7	1	12/06/18 13:46	12/07/18 03:18	107-05-1	
Benzene	<4.2	ug/kg	29.9	4.2	1	12/06/18 13:46	12/07/18 03:18	71-43-2	
Bromobenzene	<4.6	ug/kg	74.9	4.6	1	12/06/18 13:46	12/07/18 03:18	108-86-1	
Bromochloromethane	<25.9	ug/kg	74.9	25.9	1	12/06/18 13:46	12/07/18 03:18	74-97-5	
Bromodichloromethane	<25.6	ug/kg	74.9	25.6	1	12/06/18 13:46	12/07/18 03:18	75-27-4	
Bromoform	<113	ug/kg	299	113	1	12/06/18 13:46	12/07/18 03:18	75-25-2	
Bromomethane	<87.6	ug/kg	749	87.6	1	12/06/18 13:46	12/07/18 03:18	74-83-9	
Carbon tetrachloride	<35.8	ug/kg	74.9	35.8	1	12/06/18 13:46	12/07/18 03:18	56-23-5	
Chlorobenzene	<4.2	ug/kg	74.9	4.2	1	12/06/18 13:46	12/07/18 03:18	108-90-7	
Chloroethane	<38.9	ug/kg	749	38.9	1	12/06/18 13:46	12/07/18 03:18	75-00-3	
Chloroform	<37.4	ug/kg	74.9	37.4	1	12/06/18 13:46	12/07/18 03:18	67-66-3	
Chloromethane	<18.0	ug/kg	299	18.0	1	12/06/18 13:46	12/07/18 03:18	74-87-3	
Dibromochloromethane	<8.7	ug/kg	299	8.7	1	12/06/18 13:46	12/07/18 03:18	124-48-1	
Dibromomethane	<13.7	ug/kg	74.9	13.7	1	12/06/18 13:46	12/07/18 03:18	74-95-3	
Dichlorodifluoromethane	<24.3	ug/kg	299	24.3	1	12/06/18 13:46	12/07/18 03:18	75-71-8	
Dichlorofluoromethane	<103	ug/kg	749	103	1	12/06/18 13:46	12/07/18 03:18	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.8	ug/kg	299	45.8	1	12/06/18 13:46	12/07/18 03:18	60-29-7	
Ethylbenzene	<4.1	ug/kg	74.9	4.1	1	12/06/18 13:46	12/07/18 03:18	100-41-4	
Hexachloro-1,3-butadiene	<18.3	ug/kg	374	18.3	1	12/06/18 13:46	12/07/18 03:18	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	74.9	3.3	1	12/06/18 13:46	12/07/18 03:18	98-82-8	
Methyl-tert-butyl ether	<8.9	ug/kg	74.9	8.9	1	12/06/18 13:46	12/07/18 03:18	1634-04-4	
Methylene Chloride	<141	ug/kg	299	141	1	12/06/18 13:46	12/07/18 03:18	75-09-2	
Naphthalene	<70.1	ug/kg	299	70.1	1	12/06/18 13:46	12/07/18 03:18	91-20-3	
Styrene	<3.4	ug/kg	74.9	3.4	1	12/06/18 13:46	12/07/18 03:18	100-42-5	
Tetrachloroethene	<26.4	ug/kg	74.9	26.4	1	12/06/18 13:46	12/07/18 03:18	127-18-4	
Tetrahydrofuran	<109	ug/kg	2990	109	1	12/06/18 13:46	12/07/18 03:18	109-99-9	
Toluene	<18.3	ug/kg	74.9	18.3	1	12/06/18 13:46	12/07/18 03:18	108-88-3	
Trichloroethene	<11.5	ug/kg	74.9	11.5	1	12/06/18 13:46	12/07/18 03:18	79-01-6	
Trichlorofluoromethane	<131	ug/kg	299	131	1	12/06/18 13:46	12/07/18 03:18	75-69-4	
Vinyl chloride	<14.7	ug/kg	74.9	14.7	1	12/06/18 13:46	12/07/18 03:18	75-01-4	
Xylene (Total)	<17.4	ug/kg	225	17.4	1	12/06/18 13:46	12/07/18 03:18	1330-20-7	
cis-1,2-Dichloroethene	<12.4	ug/kg	74.9	12.4	1	12/06/18 13:46	12/07/18 03:18	156-59-2	
cis-1,3-Dichloropropene	<10.7	ug/kg	74.9	10.7	1	12/06/18 13:46	12/07/18 03:18	10061-01-5	
n-Butylbenzene	<35.6	ug/kg	74.9	35.6	1	12/06/18 13:46	12/07/18 03:18	104-51-8	
n-Propylbenzene	<4.0	ug/kg	74.9	4.0	1	12/06/18 13:46	12/07/18 03:18	103-65-1	
p-Isopropyltoluene	<22.8	ug/kg	74.9	22.8	1	12/06/18 13:46	12/07/18 03:18	99-87-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-2 (0.0-2.0)**      **Lab ID: 10457092003**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
sec-Butylbenzene	<14.3	ug/kg	74.9	14.3	1	12/06/18 13:46	12/07/18 03:18	135-98-8	
tert-Butylbenzene	<14.4	ug/kg	74.9	14.4	1	12/06/18 13:46	12/07/18 03:18	98-06-6	
trans-1,2-Dichloroethene	<35.0	ug/kg	74.9	35.0	1	12/06/18 13:46	12/07/18 03:18	156-60-5	
trans-1,3-Dichloropropene	<10.4	ug/kg	74.9	10.4	1	12/06/18 13:46	12/07/18 03:18	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	12/06/18 13:46	12/07/18 03:18	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 03:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/06/18 13:46	12/07/18 03:18	460-00-4	

**Sample: DP-2 (4.0-5.0)**      **Lab ID: 10457092004**      Collected: 11/26/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.1	ug/kg	39.8	11.1	1	12/03/18 19:42	12/05/18 19:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.0	ug/kg	39.8	14.0	1	12/03/18 19:42	12/05/18 19:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.9	ug/kg	39.8	15.9	1	12/03/18 19:42	12/05/18 19:01	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.5	ug/kg	39.8	13.5	1	12/03/18 19:42	12/05/18 19:01	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.9	ug/kg	39.8	11.9	1	12/03/18 19:42	12/05/18 19:01	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.7	ug/kg	39.8	11.7	1	12/03/18 19:42	12/05/18 19:01	11097-69-1	
PCB-1260 (Aroclor 1260)	17.8J	ug/kg	39.8	9.5	1	12/03/18 19:42	12/05/18 19:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	72	%	48-125		1	12/03/18 19:42	12/05/18 19:01	877-09-8	
Decachlorobiphenyl (S)	86	%	30-134		1	12/03/18 19:42	12/05/18 19:01	2051-24-3	

**NWTPH-Dx GCS**

Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	<2.9	mg/kg	17.7	2.9	1	11/30/18 17:47	12/02/18 23:28	68334-30-5	
Motor Oil Range	<5.1	mg/kg	11.8	5.1	1	11/30/18 17:47	12/02/18 23:28		
<b>Surrogates</b>									
n-Triacontane (S)	58	%	50-150		1	11/30/18 17:47	12/02/18 23:28	638-68-6	
o-Terphenyl (S)	73	%	50-150		1	11/30/18 17:47	12/02/18 23:28	84-15-1	

**NWTPH-Gx GCV**

Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<0.88	mg/kg	6.7	0.88	1	12/07/18 15:19	12/07/18 20:02		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	81	%	50-150		1	12/07/18 15:19	12/07/18 20:02	98-08-8	

**6010D MET ICP**

Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	<2.3	mg/kg	6.0	2.3	5	12/06/18 08:15	12/11/18 10:54	7440-36-0	D3
Arsenic	2.0J	mg/kg	6.0	1.2	5	12/06/18 08:15	12/11/18 10:54	7440-38-2	D3
Beryllium	0.087J	mg/kg	1.5	0.080	5	12/06/18 08:15	12/11/18 10:54	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.90	0.12	5	12/06/18 08:15	12/11/18 10:54	7440-43-9	D3
Chromium	7.0	mg/kg	3.0	0.51	5	12/06/18 08:15	12/11/18 10:54	7440-47-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Lab Project No.: 10457092

**Sample: DP-2 (4.0-5.0)**      **Lab ID: 10457092004**      Collected: 11/26/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Copper	16.6	mg/kg	3.0	0.33	5	12/06/18 08:15	12/11/18 10:54	7440-50-8	
Lead	4.4	mg/kg	3.0	0.68	5	12/06/18 08:15	12/11/18 10:54	7439-92-1	
Nickel	7.5	mg/kg	6.0	0.38	5	12/06/18 08:15	12/11/18 10:54	7440-02-0	
Selenium	<2.0	mg/kg	6.0	2.0	5	12/06/18 08:15	12/11/18 10:54	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 10:54	7440-22-4	D3
Thallium	3.0J	mg/kg	6.0	1.4	5	12/06/18 08:15	12/11/18 10:54	7440-28-0	D3
Zinc	60.4	mg/kg	6.0	2.6	5	12/06/18 08:15	12/11/18 10:54	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0089	mg/kg	0.022	0.0089	1	12/05/18 14:27	12/12/18 14:09	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.6	%	0.10	0.10	1		12/11/18 14:47		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.1	0.65	1	12/10/18 12:55	12/12/18 02:40	90-12-0	
2-Methylnaphthalene	<0.61	ug/kg	12.1	0.61	1	12/10/18 12:55	12/12/18 02:40	91-57-6	
Acenaphthene	<0.49	ug/kg	12.1	0.49	1	12/10/18 12:55	12/12/18 02:40	83-32-9	
Acenaphthylene	<0.60	ug/kg	12.1	0.60	1	12/10/18 12:55	12/12/18 02:40	208-96-8	
Anthracene	<0.57	ug/kg	12.1	0.57	1	12/10/18 12:55	12/12/18 02:40	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	12.1	1.3	1	12/10/18 12:55	12/12/18 02:40	56-55-3	
Benzo(a)pyrene	<0.83	ug/kg	12.1	0.83	1	12/10/18 12:55	12/12/18 02:40	50-32-8	
Benzo(b)fluoranthene	<0.45	ug/kg	12.1	0.45	1	12/10/18 12:55	12/12/18 02:40	205-99-2	
Benzo(g,h,i)perylene	<0.76	ug/kg	12.1	0.76	1	12/10/18 12:55	12/12/18 02:40	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.1	1.0	1	12/10/18 12:55	12/12/18 02:40	207-08-9	
Chrysene	<1.6	ug/kg	12.1	1.6	1	12/10/18 12:55	12/12/18 02:40	218-01-9	
Dibenz(a,h)anthracene	<0.56	ug/kg	12.1	0.56	1	12/10/18 12:55	12/12/18 02:40	53-70-3	
Fluoranthene	1.4J	ug/kg	12.1	0.52	1	12/10/18 12:55	12/12/18 02:40	206-44-0	B,L2
Fluorene	<0.38	ug/kg	12.1	0.38	1	12/10/18 12:55	12/12/18 02:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.81	ug/kg	12.1	0.81	1	12/10/18 12:55	12/12/18 02:40	193-39-5	
Naphthalene	<0.93	ug/kg	12.1	0.93	1	12/10/18 12:55	12/12/18 02:40	91-20-3	
Phenanthrene	<2.3	ug/kg	12.1	2.3	1	12/10/18 12:55	12/12/18 02:40	85-01-8	
Pyrene	<1.8	ug/kg	12.1	1.8	1	12/10/18 12:55	12/12/18 02:40	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	42-125		1	12/10/18 12:55	12/12/18 02:40	321-60-8	
p-Terphenyl-d14 (S)	76	%	57-125		1	12/10/18 12:55	12/12/18 02:40	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.7	0.26	1	02/26/19 09:24	02/26/19 14:55	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.3	4.3	1	02/26/19 09:24	02/26/19 14:55	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/26/19 09:24	02/26/19 14:55	17060-07-0	6M,H3
Toluene-d8 (S)	93	%	75-125		1	02/26/19 09:24	02/26/19 14:55	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/26/19 09:24	02/26/19 14:55	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-2 (4.0-5.0)**      **Lab ID: 10457092004**      Collected: 11/26/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<20.9	ug/kg	66.7	20.9	1	12/06/18 13:46	12/07/18 03:36	630-20-6	
1,1,1-Trichloroethane	<31.1	ug/kg	66.7	31.1	1	12/06/18 13:46	12/07/18 03:36	71-55-6	
1,1,2,2-Tetrachloroethane	<11.8	ug/kg	267	11.8	1	12/06/18 13:46	12/07/18 03:36	79-34-5	
1,1,2-Trichloroethane	<8.0	ug/kg	66.7	8.0	1	12/06/18 13:46	12/07/18 03:36	79-00-5	
1,1,2-Trichlorotrifluoroethane	<77.4	ug/kg	267	77.4	1	12/06/18 13:46	12/07/18 03:36	76-13-1	
1,1-Dichloroethane	<7.5	ug/kg	66.7	7.5	1	12/06/18 13:46	12/07/18 03:36	75-34-3	
1,1-Dichloroethene	<20.0	ug/kg	267	20.0	1	12/06/18 13:46	12/07/18 03:36	75-35-4	
1,1-Dichloropropene	<30.8	ug/kg	66.7	30.8	1	12/06/18 13:46	12/07/18 03:36	563-58-6	
1,2,3-Trichlorobenzene	<10.7	ug/kg	66.7	10.7	1	12/06/18 13:46	12/07/18 03:36	87-61-6	
1,2,3-Trichloropropane	<17.5	ug/kg	267	17.5	1	12/06/18 13:46	12/07/18 03:36	96-18-4	
1,2,4-Trichlorobenzene	<14.8	ug/kg	66.7	14.8	1	12/06/18 13:46	12/07/18 03:36	120-82-1	
1,2,4-Trimethylbenzene	<13.3	ug/kg	66.7	13.3	1	12/06/18 13:46	12/07/18 03:36	95-63-6	
1,2-Dibromo-3-chloropropane	<232	ug/kg	667	232	1	12/06/18 13:46	12/07/18 03:36	96-12-8	
1,2-Dibromoethane (EDB)	<7.0	ug/kg	66.7	7.0	1	12/06/18 13:46	12/07/18 03:36	106-93-4	
1,2-Dichlorobenzene	<2.7	ug/kg	66.7	2.7	1	12/06/18 13:46	12/07/18 03:36	95-50-1	
1,2-Dichloroethane	<7.3	ug/kg	66.7	7.3	1	12/06/18 13:46	12/07/18 03:36	107-06-2	
1,2-Dichloropropane	<11.5	ug/kg	66.7	11.5	1	12/06/18 13:46	12/07/18 03:36	78-87-5	
1,3,5-Trimethylbenzene	<10.6	ug/kg	66.7	10.6	1	12/06/18 13:46	12/07/18 03:36	108-67-8	
1,3-Dichlorobenzene	<2.4	ug/kg	66.7	2.4	1	12/06/18 13:46	12/07/18 03:36	541-73-1	
1,3-Dichloropropane	<9.2	ug/kg	66.7	9.2	1	12/06/18 13:46	12/07/18 03:36	142-28-9	
1,4-Dichlorobenzene	<4.1	ug/kg	66.7	4.1	1	12/06/18 13:46	12/07/18 03:36	106-46-7	
2,2-Dichloropropane	<8.3	ug/kg	267	8.3	1	12/06/18 13:46	12/07/18 03:36	594-20-7	
2-Butanone (MEK)	<35.5	ug/kg	334	35.5	1	12/06/18 13:46	12/07/18 03:36	78-93-3	
2-Chlorotoluene	<3.3	ug/kg	66.7	3.3	1	12/06/18 13:46	12/07/18 03:36	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	66.7	3.4	1	12/06/18 13:46	12/07/18 03:36	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.9	ug/kg	334	13.9	1	12/06/18 13:46	12/07/18 03:36	108-10-1	
Acetone	817J	ug/kg	1330	415	1	12/06/18 13:46	12/07/18 03:36	67-64-1	B
Allyl chloride	<55.9	ug/kg	267	55.9	1	12/06/18 13:46	12/07/18 03:36	107-05-1	
Benzene	<3.8	ug/kg	26.7	3.8	1	12/06/18 13:46	12/07/18 03:36	71-43-2	
Bromobenzene	<4.1	ug/kg	66.7	4.1	1	12/06/18 13:46	12/07/18 03:36	108-86-1	
Bromochloromethane	<23.1	ug/kg	66.7	23.1	1	12/06/18 13:46	12/07/18 03:36	74-97-5	
Bromodichloromethane	<22.8	ug/kg	66.7	22.8	1	12/06/18 13:46	12/07/18 03:36	75-27-4	
Bromoform	<101	ug/kg	267	101	1	12/06/18 13:46	12/07/18 03:36	75-25-2	
Bromomethane	<78.1	ug/kg	667	78.1	1	12/06/18 13:46	12/07/18 03:36	74-83-9	
Carbon tetrachloride	<31.9	ug/kg	66.7	31.9	1	12/06/18 13:46	12/07/18 03:36	56-23-5	
Chlorobenzene	<3.8	ug/kg	66.7	3.8	1	12/06/18 13:46	12/07/18 03:36	108-90-7	
Chloroethane	<34.7	ug/kg	667	34.7	1	12/06/18 13:46	12/07/18 03:36	75-00-3	
Chloroform	<33.4	ug/kg	66.7	33.4	1	12/06/18 13:46	12/07/18 03:36	67-66-3	
Chloromethane	<16.0	ug/kg	267	16.0	1	12/06/18 13:46	12/07/18 03:36	74-87-3	
Dibromochloromethane	<7.7	ug/kg	267	7.7	1	12/06/18 13:46	12/07/18 03:36	124-48-1	
Dibromomethane	<12.2	ug/kg	66.7	12.2	1	12/06/18 13:46	12/07/18 03:36	74-95-3	
Dichlorodifluoromethane	<21.6	ug/kg	267	21.6	1	12/06/18 13:46	12/07/18 03:36	75-71-8	
Dichlorofluoromethane	<92.2	ug/kg	667	92.2	1	12/06/18 13:46	12/07/18 03:36	75-43-4	N2
Diethyl ether (Ethyl ether)	<40.8	ug/kg	267	40.8	1	12/06/18 13:46	12/07/18 03:36	60-29-7	
Ethylbenzene	<3.6	ug/kg	66.7	3.6	1	12/06/18 13:46	12/07/18 03:36	100-41-4	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-2 (4.0-5.0)**      **Lab ID: 10457092004**      Collected: 11/26/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Hexachloro-1,3-butadiene	<16.3	ug/kg	334	16.3	1	12/06/18 13:46	12/07/18 03:36	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/kg	66.7	3.0	1	12/06/18 13:46	12/07/18 03:36	98-82-8	
Methyl-tert-butyl ether	<7.9	ug/kg	66.7	7.9	1	12/06/18 13:46	12/07/18 03:36	1634-04-4	
Methylene Chloride	<126	ug/kg	267	126	1	12/06/18 13:46	12/07/18 03:36	75-09-2	
Naphthalene	<62.4	ug/kg	267	62.4	1	12/06/18 13:46	12/07/18 03:36	91-20-3	
Styrene	<3.0	ug/kg	66.7	3.0	1	12/06/18 13:46	12/07/18 03:36	100-42-5	
Tetrachloroethene	<23.5	ug/kg	66.7	23.5	1	12/06/18 13:46	12/07/18 03:36	127-18-4	
Tetrahydrofuran	<97.0	ug/kg	2670	97.0	1	12/06/18 13:46	12/07/18 03:36	109-99-9	
Toluene	<16.3	ug/kg	66.7	16.3	1	12/06/18 13:46	12/07/18 03:36	108-88-3	
Trichloroethene	<10.3	ug/kg	66.7	10.3	1	12/06/18 13:46	12/07/18 03:36	79-01-6	
Trichlorofluoromethane	<116	ug/kg	267	116	1	12/06/18 13:46	12/07/18 03:36	75-69-4	
Vinyl chloride	<13.1	ug/kg	66.7	13.1	1	12/06/18 13:46	12/07/18 03:36	75-01-4	
Xylene (Total)	<15.5	ug/kg	200	15.5	1	12/06/18 13:46	12/07/18 03:36	1330-20-7	
cis-1,2-Dichloroethene	<11.1	ug/kg	66.7	11.1	1	12/06/18 13:46	12/07/18 03:36	156-59-2	
cis-1,3-Dichloropropene	<9.6	ug/kg	66.7	9.6	1	12/06/18 13:46	12/07/18 03:36	10061-01-5	
n-Butylbenzene	<31.8	ug/kg	66.7	31.8	1	12/06/18 13:46	12/07/18 03:36	104-51-8	
n-Propylbenzene	<3.6	ug/kg	66.7	3.6	1	12/06/18 13:46	12/07/18 03:36	103-65-1	
p-Isopropyltoluene	<20.3	ug/kg	66.7	20.3	1	12/06/18 13:46	12/07/18 03:36	99-87-6	
sec-Butylbenzene	<12.8	ug/kg	66.7	12.8	1	12/06/18 13:46	12/07/18 03:36	135-98-8	
tert-Butylbenzene	<12.8	ug/kg	66.7	12.8	1	12/06/18 13:46	12/07/18 03:36	98-06-6	
trans-1,2-Dichloroethene	<31.2	ug/kg	66.7	31.2	1	12/06/18 13:46	12/07/18 03:36	156-60-5	
trans-1,3-Dichloropropene	<9.3	ug/kg	66.7	9.3	1	12/06/18 13:46	12/07/18 03:36	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1	12/06/18 13:46	12/07/18 03:36	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 03:36	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/06/18 13:46	12/07/18 03:36	460-00-4	

**Sample: DP-3 (0.0-2.0)**      **Lab ID: 10457092005**      Collected: 11/26/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.1	11.2	1	12/03/18 19:42	12/05/18 19:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.1	14.1	1	12/03/18 19:42	12/05/18 19:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	40.1	16.0	1	12/03/18 19:42	12/05/18 19:17	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.1	13.6	1	12/03/18 19:42	12/05/18 19:17	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	40.1	12.0	1	12/03/18 19:42	12/05/18 19:17	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.1	11.8	1	12/03/18 19:42	12/05/18 19:17	11097-69-1	
PCB-1260 (Aroclor 1260)	1310	ug/kg	40.1	9.6	1	12/03/18 19:42	12/05/18 19:17	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	80	%	48-125		1	12/03/18 19:42	12/05/18 19:17	877-09-8	
Decachlorobiphenyl (S)	82	%	30-134		1	12/03/18 19:42	12/05/18 19:17	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (0.0-2.0)**      **Lab ID: 10457092005**      Collected: 11/26/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>14.1J</b>	mg/kg	18.3	3.0	1	11/30/18 17:47	12/02/18 20:03	68334-30-5	
Motor Oil Range	<b>40.7</b>	mg/kg	12.2	5.3	1	11/30/18 17:47	12/02/18 20:03		
<b>Surrogates</b>									
n-Triacontane (S)	71	%	50-150		1	11/30/18 17:47	12/02/18 20:03	638-68-6	
o-Terphenyl (S)	89	%	50-150		1	11/30/18 17:47	12/02/18 20:03	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.81</b>	mg/kg	6.1	0.81	1	12/07/18 15:19	12/07/18 20:53		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	74	%	50-150		1	12/07/18 15:19	12/07/18 20:53	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.3</b>	mg/kg	6.1	2.3	5	12/06/18 08:15	12/11/18 10:56	7440-36-0	D3
Arsenic	<b>2.2J</b>	mg/kg	6.1	1.2	5	12/06/18 08:15	12/11/18 10:56	7440-38-2	D3
Beryllium	<b>&lt;0.081</b>	mg/kg	1.5	0.081	5	12/06/18 08:15	12/11/18 10:56	7440-41-7	D3
Cadmium	<b>0.44J</b>	mg/kg	0.91	0.12	5	12/06/18 08:15	12/11/18 10:56	7440-43-9	D3
Chromium	<b>8.6</b>	mg/kg	3.0	0.52	5	12/06/18 08:15	12/11/18 10:56	7440-47-3	
Copper	<b>42.7</b>	mg/kg	3.0	0.34	5	12/06/18 08:15	12/11/18 10:56	7440-50-8	
Lead	<b>46.4</b>	mg/kg	3.0	0.68	5	12/06/18 08:15	12/11/18 10:56	7439-92-1	
Nickel	<b>9.3</b>	mg/kg	6.1	0.38	5	12/06/18 08:15	12/11/18 10:56	7440-02-0	
Selenium	<b>&lt;2.0</b>	mg/kg	6.1	2.0	5	12/06/18 08:15	12/11/18 10:56	7782-49-2	D3
Silver	<b>&lt;0.22</b>	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 10:56	7440-22-4	D3
Thallium	<b>3.6J</b>	mg/kg	6.1	1.4	5	12/06/18 08:15	12/11/18 10:56	7440-28-0	D3
Zinc	<b>153</b>	mg/kg	6.1	2.7	5	12/06/18 08:15	12/11/18 10:56	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.069</b>	mg/kg	0.022	0.0089	1	12/05/18 14:27	12/12/18 14:16	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>18.2</b>	%	0.10	0.10	1		12/11/18 14:48		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.65</b>	ug/kg	12.2	0.65	1	12/10/18 12:55	12/14/18 13:15	90-12-0	
2-Methylnaphthalene	<b>&lt;0.61</b>	ug/kg	12.2	0.61	1	12/10/18 12:55	12/14/18 13:15	91-57-6	
Acenaphthene	<b>&lt;0.50</b>	ug/kg	12.2	0.50	1	12/10/18 12:55	12/14/18 13:15	83-32-9	
Acenaphthylene	<b>&lt;0.60</b>	ug/kg	12.2	0.60	1	12/10/18 12:55	12/14/18 13:15	208-96-8	
Anthracene	<b>1.1J</b>	ug/kg	12.2	0.57	1	12/10/18 12:55	12/14/18 13:15	120-12-7	B
Benzo(a)anthracene	<b>6.6J</b>	ug/kg	12.2	1.3	1	12/10/18 12:55	12/14/18 13:15	56-55-3	
Benzo(a)pyrene	<b>6.2J</b>	ug/kg	12.2	0.84	1	12/10/18 12:55	12/14/18 13:15	50-32-8	
Benzo(b)fluoranthene	<b>9.1J</b>	ug/kg	12.2	0.45	1	12/10/18 12:55	12/14/18 13:15	205-99-2	
Benzo(g,h,i)perylene	<b>5.4J</b>	ug/kg	12.2	0.77	1	12/10/18 12:55	12/14/18 13:15	191-24-2	
Benzo(k)fluoranthene	<b>3.5J</b>	ug/kg	12.2	1.0	1	12/10/18 12:55	12/14/18 13:15	207-08-9	
Chrysene	<b>6.2J</b>	ug/kg	12.2	1.7	1	12/10/18 12:55	12/14/18 13:15	218-01-9	
Dibenz(a,h)anthracene	<b>1.0J</b>	ug/kg	12.2	0.56	1	12/10/18 12:55	12/14/18 13:15	53-70-3	
Fluoranthene	<b>9.2J</b>	ug/kg	12.2	0.52	1	12/10/18 12:55	12/14/18 13:15	206-44-0	B,L2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (0.0-2.0)**      **Lab ID: 10457092005**      Collected: 11/26/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Fluorene	1.2J	ug/kg	12.2	0.38	1	12/10/18 12:55	12/14/18 13:15	86-73-7	
Indeno(1,2,3-cd)pyrene	4.2J	ug/kg	12.2	0.82	1	12/10/18 12:55	12/14/18 13:15	193-39-5	
Naphthalene	<0.94	ug/kg	12.2	0.94	1	12/10/18 12:55	12/14/18 13:15	91-20-3	
Phenanthrene	3.5J	ug/kg	12.2	2.3	1	12/10/18 12:55	12/14/18 13:15	85-01-8	
Pyrene	8.7J	ug/kg	12.2	1.9	1	12/10/18 12:55	12/14/18 13:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	42-125		1	12/10/18 12:55	12/14/18 13:15	321-60-8	
p-Terphenyl-d14 (S)	59	%	57-125		1	12/10/18 12:55	12/14/18 13:15	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	02/26/19 09:24	02/26/19 15:14	106-93-4	
Methylene Chloride	<4.2	ug/kg	23.0	4.2	1	02/26/19 09:24	02/26/19 15:14	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/26/19 09:24	02/26/19 15:14	17060-07-0	4M,H3
Toluene-d8 (S)	92	%	75-125		1	02/26/19 09:24	02/26/19 15:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/26/19 09:24	02/26/19 15:14	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<21.5	ug/kg	68.4	21.5	1	12/06/18 13:46	12/07/18 03:55	630-20-6	
1,1,1-Trichloroethane	<31.9	ug/kg	68.4	31.9	1	12/06/18 13:46	12/07/18 03:55	71-55-6	
1,1,2,2-Tetrachloroethane	<12.0	ug/kg	274	12.0	1	12/06/18 13:46	12/07/18 03:55	79-34-5	
1,1,2-Trichloroethane	<8.2	ug/kg	68.4	8.2	1	12/06/18 13:46	12/07/18 03:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	<79.3	ug/kg	274	79.3	1	12/06/18 13:46	12/07/18 03:55	76-13-1	
1,1-Dichloroethane	<7.7	ug/kg	68.4	7.7	1	12/06/18 13:46	12/07/18 03:55	75-34-3	
1,1-Dichloroethene	<20.5	ug/kg	274	20.5	1	12/06/18 13:46	12/07/18 03:55	75-35-4	
1,1-Dichloropropene	<31.6	ug/kg	68.4	31.6	1	12/06/18 13:46	12/07/18 03:55	563-58-6	
1,2,3-Trichlorobenzene	<10.9	ug/kg	68.4	10.9	1	12/06/18 13:46	12/07/18 03:55	87-61-6	
1,2,3-Trichloropropane	<17.9	ug/kg	274	17.9	1	12/06/18 13:46	12/07/18 03:55	96-18-4	
1,2,4-Trichlorobenzene	<15.2	ug/kg	68.4	15.2	1	12/06/18 13:46	12/07/18 03:55	120-82-1	
1,2,4-Trimethylbenzene	<13.7	ug/kg	68.4	13.7	1	12/06/18 13:46	12/07/18 03:55	95-63-6	
1,2-Dibromo-3-chloropropane	<238	ug/kg	684	238	1	12/06/18 13:46	12/07/18 03:55	96-12-8	
1,2-Dibromoethane (EDB)	<7.2	ug/kg	68.4	7.2	1	12/06/18 13:46	12/07/18 03:55	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/kg	68.4	2.8	1	12/06/18 13:46	12/07/18 03:55	95-50-1	
1,2-Dichloroethane	<7.5	ug/kg	68.4	7.5	1	12/06/18 13:46	12/07/18 03:55	107-06-2	
1,2-Dichloropropane	<11.8	ug/kg	68.4	11.8	1	12/06/18 13:46	12/07/18 03:55	78-87-5	
1,3,5-Trimethylbenzene	<10.9	ug/kg	68.4	10.9	1	12/06/18 13:46	12/07/18 03:55	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/kg	68.4	2.5	1	12/06/18 13:46	12/07/18 03:55	541-73-1	
1,3-Dichloropropane	<9.5	ug/kg	68.4	9.5	1	12/06/18 13:46	12/07/18 03:55	142-28-9	
1,4-Dichlorobenzene	<4.2	ug/kg	68.4	4.2	1	12/06/18 13:46	12/07/18 03:55	106-46-7	
2,2-Dichloropropane	<8.5	ug/kg	274	8.5	1	12/06/18 13:46	12/07/18 03:55	594-20-7	
2-Butanone (MEK)	<36.4	ug/kg	342	36.4	1	12/06/18 13:46	12/07/18 03:55	78-93-3	
2-Chlorotoluene	<3.4	ug/kg	68.4	3.4	1	12/06/18 13:46	12/07/18 03:55	95-49-8	
4-Chlorotoluene	<3.5	ug/kg	68.4	3.5	1	12/06/18 13:46	12/07/18 03:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.2	ug/kg	342	14.2	1	12/06/18 13:46	12/07/18 03:55	108-10-1	
Acetone	858J	ug/kg	1370	425	1	12/06/18 13:46	12/07/18 03:55	67-64-1	B

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (0.0-2.0)**      **Lab ID: 10457092005**      Collected: 11/26/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<57.3	ug/kg	274	57.3	1	12/06/18 13:46	12/07/18 03:55	107-05-1	
Benzene	<3.9	ug/kg	27.4	3.9	1	12/06/18 13:46	12/07/18 03:55	71-43-2	
Bromobenzene	<4.2	ug/kg	68.4	4.2	1	12/06/18 13:46	12/07/18 03:55	108-86-1	
Bromochloromethane	<23.7	ug/kg	68.4	23.7	1	12/06/18 13:46	12/07/18 03:55	74-97-5	
Bromodichloromethane	<23.4	ug/kg	68.4	23.4	1	12/06/18 13:46	12/07/18 03:55	75-27-4	
Bromoform	<104	ug/kg	274	104	1	12/06/18 13:46	12/07/18 03:55	75-25-2	
Bromomethane	<80.0	ug/kg	684	80.0	1	12/06/18 13:46	12/07/18 03:55	74-83-9	
Carbon tetrachloride	<32.7	ug/kg	68.4	32.7	1	12/06/18 13:46	12/07/18 03:55	56-23-5	
Chlorobenzene	<3.9	ug/kg	68.4	3.9	1	12/06/18 13:46	12/07/18 03:55	108-90-7	
Chloroethane	<35.6	ug/kg	684	35.6	1	12/06/18 13:46	12/07/18 03:55	75-00-3	
Chloroform	<34.2	ug/kg	68.4	34.2	1	12/06/18 13:46	12/07/18 03:55	67-66-3	
Chloromethane	<16.4	ug/kg	274	16.4	1	12/06/18 13:46	12/07/18 03:55	74-87-3	
Dibromochloromethane	<7.9	ug/kg	274	7.9	1	12/06/18 13:46	12/07/18 03:55	124-48-1	
Dibromomethane	<12.5	ug/kg	68.4	12.5	1	12/06/18 13:46	12/07/18 03:55	74-95-3	
Dichlorodifluoromethane	<22.2	ug/kg	274	22.2	1	12/06/18 13:46	12/07/18 03:55	75-71-8	
Dichlorofluoromethane	<94.5	ug/kg	684	94.5	1	12/06/18 13:46	12/07/18 03:55	75-43-4	N2
Diethyl ether (Ethyl ether)	<41.9	ug/kg	274	41.9	1	12/06/18 13:46	12/07/18 03:55	60-29-7	
Ethylbenzene	<3.7	ug/kg	68.4	3.7	1	12/06/18 13:46	12/07/18 03:55	100-41-4	
Hexachloro-1,3-butadiene	<16.7	ug/kg	342	16.7	1	12/06/18 13:46	12/07/18 03:55	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/kg	68.4	3.0	1	12/06/18 13:46	12/07/18 03:55	98-82-8	
Methyl-tert-butyl ether	<8.1	ug/kg	68.4	8.1	1	12/06/18 13:46	12/07/18 03:55	1634-04-4	
Methylene Chloride	<129	ug/kg	274	129	1	12/06/18 13:46	12/07/18 03:55	75-09-2	
Naphthalene	<64.0	ug/kg	274	64.0	1	12/06/18 13:46	12/07/18 03:55	91-20-3	
Styrene	<3.1	ug/kg	68.4	3.1	1	12/06/18 13:46	12/07/18 03:55	100-42-5	
Tetrachloroethene	<24.1	ug/kg	68.4	24.1	1	12/06/18 13:46	12/07/18 03:55	127-18-4	
Tetrahydrofuran	<99.4	ug/kg	2740	99.4	1	12/06/18 13:46	12/07/18 03:55	109-99-9	
Toluene	<16.7	ug/kg	68.4	16.7	1	12/06/18 13:46	12/07/18 03:55	108-88-3	
Trichloroethene	<10.5	ug/kg	68.4	10.5	1	12/06/18 13:46	12/07/18 03:55	79-01-6	
Trichlorofluoromethane	<119	ug/kg	274	119	1	12/06/18 13:46	12/07/18 03:55	75-69-4	
Vinyl chloride	<13.5	ug/kg	68.4	13.5	1	12/06/18 13:46	12/07/18 03:55	75-01-4	
Xylene (Total)	<15.9	ug/kg	205	15.9	1	12/06/18 13:46	12/07/18 03:55	1330-20-7	
cis-1,2-Dichloroethene	<11.3	ug/kg	68.4	11.3	1	12/06/18 13:46	12/07/18 03:55	156-59-2	
cis-1,3-Dichloropropene	<9.8	ug/kg	68.4	9.8	1	12/06/18 13:46	12/07/18 03:55	10061-01-5	
n-Butylbenzene	<32.6	ug/kg	68.4	32.6	1	12/06/18 13:46	12/07/18 03:55	104-51-8	
n-Propylbenzene	<3.7	ug/kg	68.4	3.7	1	12/06/18 13:46	12/07/18 03:55	103-65-1	
p-Isopropyltoluene	<20.8	ug/kg	68.4	20.8	1	12/06/18 13:46	12/07/18 03:55	99-87-6	
sec-Butylbenzene	<13.1	ug/kg	68.4	13.1	1	12/06/18 13:46	12/07/18 03:55	135-98-8	
tert-Butylbenzene	<13.1	ug/kg	68.4	13.1	1	12/06/18 13:46	12/07/18 03:55	98-06-6	
trans-1,2-Dichloroethene	<32.0	ug/kg	68.4	32.0	1	12/06/18 13:46	12/07/18 03:55	156-60-5	
trans-1,3-Dichloropropene	<9.5	ug/kg	68.4	9.5	1	12/06/18 13:46	12/07/18 03:55	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/06/18 13:46	12/07/18 03:55	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 03:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 03:55	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (3.0-5.0)**      **Lab ID: 10457092006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.3	11.2	1	12/03/18 19:42	12/05/18 20:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.2	ug/kg	40.3	14.2	1	12/03/18 19:42	12/05/18 20:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.1	ug/kg	40.3	16.1	1	12/03/18 19:42	12/05/18 20:20	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.7	ug/kg	40.3	13.7	1	12/03/18 19:42	12/05/18 20:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.1	ug/kg	40.3	12.1	1	12/03/18 19:42	12/05/18 20:20	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.9	ug/kg	40.3	11.9	1	12/03/18 19:42	12/05/18 20:20	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.3	9.6	1	12/03/18 19:42	12/05/18 20:20	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/03/18 19:42	12/05/18 20:20	877-09-8	
Decachlorobiphenyl (S)	88	%	30-134		1	12/03/18 19:42	12/05/18 20:20	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	18.1	2.9	1	11/30/18 17:47	12/02/18 23:18	68334-30-5	
Motor Oil Range	<5.2	mg/kg	12.1	5.2	1	11/30/18 17:47	12/02/18 23:18		
<b>Surrogates</b>									
n-Triacontane (S)	78	%	50-150		1	11/30/18 17:47	12/02/18 23:18	638-68-6	
o-Terphenyl (S)	89	%	50-150		1	11/30/18 17:47	12/02/18 23:18	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.80	mg/kg	6.1	0.80	1	12/07/18 15:19	12/07/18 21:10		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	82	%	50-150		1	12/07/18 15:19	12/07/18 21:10	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.8	2.2	5	12/06/18 08:15	12/11/18 10:57	7440-36-0	D3
Arsenic	1.5J	mg/kg	5.8	1.2	5	12/06/18 08:15	12/11/18 10:57	7440-38-2	D3
Beryllium	<0.077	mg/kg	1.4	0.077	5	12/06/18 08:15	12/11/18 10:57	7440-41-7	D3
Cadmium	0.14J	mg/kg	0.86	0.11	5	12/06/18 08:15	12/11/18 10:57	7440-43-9	D3
Chromium	8.1	mg/kg	2.9	0.49	5	12/06/18 08:15	12/11/18 10:57	7440-47-3	
Copper	14.1	mg/kg	2.9	0.32	5	12/06/18 08:15	12/11/18 10:57	7440-50-8	
Lead	4.1	mg/kg	2.9	0.65	5	12/06/18 08:15	12/11/18 10:57	7439-92-1	
Nickel	6.6	mg/kg	5.8	0.36	5	12/06/18 08:15	12/11/18 10:57	7440-02-0	
Selenium	<1.9	mg/kg	5.8	1.9	5	12/06/18 08:15	12/11/18 10:57	7782-49-2	D3
Silver	<0.21	mg/kg	2.9	0.21	5	12/06/18 08:15	12/11/18 10:57	7440-22-4	D3
Thallium	5.6J	mg/kg	5.8	1.3	5	12/06/18 08:15	12/11/18 10:57	7440-28-0	D3
Zinc	59.2	mg/kg	5.8	2.5	5	12/06/18 08:15	12/11/18 10:57	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	0.094J	mg/kg	0.12	0.039	20	12/05/19 07:35	12/05/19 23:19	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0095	mg/kg	0.024	0.0095	1	12/05/18 14:27	12/12/18 14:18	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.1	%	0.10	0.10	1		12/11/18 14:48		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-3 (3.0-5.0) Lab ID: 10457092006** Collected: 11/26/18 14:40 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.2	0.65	1	12/10/18 12:55	12/12/18 03:00	90-12-0	
2-Methylnaphthalene	<0.62	ug/kg	12.2	0.62	1	12/10/18 12:55	12/12/18 03:00	91-57-6	
Acenaphthene	<0.50	ug/kg	12.2	0.50	1	12/10/18 12:55	12/12/18 03:00	83-32-9	
Acenaphthylene	<0.60	ug/kg	12.2	0.60	1	12/10/18 12:55	12/12/18 03:00	208-96-8	
Anthracene	<0.57	ug/kg	12.2	0.57	1	12/10/18 12:55	12/12/18 03:00	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	12.2	1.3	1	12/10/18 12:55	12/12/18 03:00	56-55-3	
Benzo(a)pyrene	<0.84	ug/kg	12.2	0.84	1	12/10/18 12:55	12/12/18 03:00	50-32-8	
Benzo(b)fluoranthene	<0.46	ug/kg	12.2	0.46	1	12/10/18 12:55	12/12/18 03:00	205-99-2	
Benzo(g,h,i)perylene	<0.77	ug/kg	12.2	0.77	1	12/10/18 12:55	12/12/18 03:00	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.2	1.0	1	12/10/18 12:55	12/12/18 03:00	207-08-9	
Chrysene	<1.7	ug/kg	12.2	1.7	1	12/10/18 12:55	12/12/18 03:00	218-01-9	
Dibenz(a,h)anthracene	<0.56	ug/kg	12.2	0.56	1	12/10/18 12:55	12/12/18 03:00	53-70-3	
Fluoranthene	1.6J	ug/kg	12.2	0.52	1	12/10/18 12:55	12/12/18 03:00	206-44-0	B,L2
Fluorene	<0.38	ug/kg	12.2	0.38	1	12/10/18 12:55	12/12/18 03:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.82	ug/kg	12.2	0.82	1	12/10/18 12:55	12/12/18 03:00	193-39-5	
Naphthalene	<0.94	ug/kg	12.2	0.94	1	12/10/18 12:55	12/12/18 03:00	91-20-3	
Phenanthrene	<2.3	ug/kg	12.2	2.3	1	12/10/18 12:55	12/12/18 03:00	85-01-8	
Pyrene	<1.9	ug/kg	12.2	1.9	1	12/10/18 12:55	12/12/18 03:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	42-125		1	12/10/18 12:55	12/12/18 03:00	321-60-8	
p-Terphenyl-d14 (S)	78	%	57-125		1	12/10/18 12:55	12/12/18 03:00	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.7	0.26	1	02/26/19 09:24	02/26/19 15:33	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.4	4.3	1	02/26/19 09:24	02/26/19 15:33	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/26/19 09:24	02/26/19 15:33	17060-07-0	6M,H3
Toluene-d8 (S)	92	%	75-125		1	02/26/19 09:24	02/26/19 15:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/26/19 09:24	02/26/19 15:33	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<20.1	ug/kg	64.0	20.1	1	12/06/18 13:46	12/07/18 04:13	630-20-6	
1,1,1-Trichloroethane	<29.8	ug/kg	64.0	29.8	1	12/06/18 13:46	12/07/18 04:13	71-55-6	
1,1,2,2-Tetrachloroethane	<11.3	ug/kg	256	11.3	1	12/06/18 13:46	12/07/18 04:13	79-34-5	
1,1,2-Trichloroethane	<7.7	ug/kg	64.0	7.7	1	12/06/18 13:46	12/07/18 04:13	79-00-5	
1,1,2-Trichlorotrifluoroethane	<74.2	ug/kg	256	74.2	1	12/06/18 13:46	12/07/18 04:13	76-13-1	
1,1-Dichloroethane	<7.2	ug/kg	64.0	7.2	1	12/06/18 13:46	12/07/18 04:13	75-34-3	
1,1-Dichloroethene	<19.2	ug/kg	256	19.2	1	12/06/18 13:46	12/07/18 04:13	75-35-4	
1,1-Dichloropropene	<29.6	ug/kg	64.0	29.6	1	12/06/18 13:46	12/07/18 04:13	563-58-6	
1,2,3-Trichlorobenzene	<10.2	ug/kg	64.0	10.2	1	12/06/18 13:46	12/07/18 04:13	87-61-6	
1,2,3-Trichloropropane	<16.8	ug/kg	256	16.8	1	12/06/18 13:46	12/07/18 04:13	96-18-4	
1,2,4-Trichlorobenzene	<14.2	ug/kg	64.0	14.2	1	12/06/18 13:46	12/07/18 04:13	120-82-1	
1,2,4-Trimethylbenzene	<12.8	ug/kg	64.0	12.8	1	12/06/18 13:46	12/07/18 04:13	95-63-6	
1,2-Dibromo-3-chloropropane	<223	ug/kg	640	223	1	12/06/18 13:46	12/07/18 04:13	96-12-8	
1,2-Dibromoethane (EDB)	<6.7	ug/kg	64.0	6.7	1	12/06/18 13:46	12/07/18 04:13	106-93-4	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (3.0-5.0)**      **Lab ID: 10457092006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,2-Dichlorobenzene	<2.6	ug/kg	64.0	2.6	1	12/06/18 13:46	12/07/18 04:13	95-50-1	
1,2-Dichloroethane	<7.0	ug/kg	64.0	7.0	1	12/06/18 13:46	12/07/18 04:13	107-06-2	
1,2-Dichloropropane	<11.0	ug/kg	64.0	11.0	1	12/06/18 13:46	12/07/18 04:13	78-87-5	
1,3,5-Trimethylbenzene	<10.2	ug/kg	64.0	10.2	1	12/06/18 13:46	12/07/18 04:13	108-67-8	
1,3-Dichlorobenzene	<2.3	ug/kg	64.0	2.3	1	12/06/18 13:46	12/07/18 04:13	541-73-1	
1,3-Dichloropropane	<8.9	ug/kg	64.0	8.9	1	12/06/18 13:46	12/07/18 04:13	142-28-9	
1,4-Dichlorobenzene	<4.0	ug/kg	64.0	4.0	1	12/06/18 13:46	12/07/18 04:13	106-46-7	
2,2-Dichloropropane	<8.0	ug/kg	256	8.0	1	12/06/18 13:46	12/07/18 04:13	594-20-7	
2-Butanone (MEK)	<34.0	ug/kg	320	34.0	1	12/06/18 13:46	12/07/18 04:13	78-93-3	
2-Chlorotoluene	<3.1	ug/kg	64.0	3.1	1	12/06/18 13:46	12/07/18 04:13	95-49-8	
4-Chlorotoluene	<3.3	ug/kg	64.0	3.3	1	12/06/18 13:46	12/07/18 04:13	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.3	ug/kg	320	13.3	1	12/06/18 13:46	12/07/18 04:13	108-10-1	
Acetone	854J	ug/kg	1280	398	1	12/06/18 13:46	12/07/18 04:13	67-64-1	B
Allyl chloride	<53.6	ug/kg	256	53.6	1	12/06/18 13:46	12/07/18 04:13	107-05-1	
Benzene	<3.6	ug/kg	25.6	3.6	1	12/06/18 13:46	12/07/18 04:13	71-43-2	
Bromobenzene	<3.9	ug/kg	64.0	3.9	1	12/06/18 13:46	12/07/18 04:13	108-86-1	
Bromochloromethane	<22.1	ug/kg	64.0	22.1	1	12/06/18 13:46	12/07/18 04:13	74-97-5	
Bromodichloromethane	<21.9	ug/kg	64.0	21.9	1	12/06/18 13:46	12/07/18 04:13	75-27-4	
Bromoform	<96.9	ug/kg	256	96.9	1	12/06/18 13:46	12/07/18 04:13	75-25-2	
Bromomethane	<74.9	ug/kg	640	74.9	1	12/06/18 13:46	12/07/18 04:13	74-83-9	
Carbon tetrachloride	<30.6	ug/kg	64.0	30.6	1	12/06/18 13:46	12/07/18 04:13	56-23-5	
Chlorobenzene	<3.6	ug/kg	64.0	3.6	1	12/06/18 13:46	12/07/18 04:13	108-90-7	
Chloroethane	<33.3	ug/kg	640	33.3	1	12/06/18 13:46	12/07/18 04:13	75-00-3	
Chloroform	<32.0	ug/kg	64.0	32.0	1	12/06/18 13:46	12/07/18 04:13	67-66-3	
Chloromethane	<15.4	ug/kg	256	15.4	1	12/06/18 13:46	12/07/18 04:13	74-87-3	
Dibromochloromethane	<7.4	ug/kg	256	7.4	1	12/06/18 13:46	12/07/18 04:13	124-48-1	
Dibromomethane	<11.7	ug/kg	64.0	11.7	1	12/06/18 13:46	12/07/18 04:13	74-95-3	
Dichlorodifluoromethane	<20.7	ug/kg	256	20.7	1	12/06/18 13:46	12/07/18 04:13	75-71-8	
Dichlorofluoromethane	<88.4	ug/kg	640	88.4	1	12/06/18 13:46	12/07/18 04:13	75-43-4	N2
Diethyl ether (Ethyl ether)	<39.2	ug/kg	256	39.2	1	12/06/18 13:46	12/07/18 04:13	60-29-7	
Ethylbenzene	<3.5	ug/kg	64.0	3.5	1	12/06/18 13:46	12/07/18 04:13	100-41-4	
Hexachloro-1,3-butadiene	<15.6	ug/kg	320	15.6	1	12/06/18 13:46	12/07/18 04:13	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	64.0	2.8	1	12/06/18 13:46	12/07/18 04:13	98-82-8	
Methyl-tert-butyl ether	<7.6	ug/kg	64.0	7.6	1	12/06/18 13:46	12/07/18 04:13	1634-04-4	
Methylene Chloride	<120	ug/kg	256	120	1	12/06/18 13:46	12/07/18 04:13	75-09-2	
Naphthalene	<59.9	ug/kg	256	59.9	1	12/06/18 13:46	12/07/18 04:13	91-20-3	
Styrene	<2.9	ug/kg	64.0	2.9	1	12/06/18 13:46	12/07/18 04:13	100-42-5	
Tetrachloroethene	<22.5	ug/kg	64.0	22.5	1	12/06/18 13:46	12/07/18 04:13	127-18-4	
Tetrahydrofuran	<93.0	ug/kg	2560	93.0	1	12/06/18 13:46	12/07/18 04:13	109-99-9	
Toluene	<15.6	ug/kg	64.0	15.6	1	12/06/18 13:46	12/07/18 04:13	108-88-3	
Trichloroethene	<9.9	ug/kg	64.0	9.9	1	12/06/18 13:46	12/07/18 04:13	79-01-6	
Trichlorofluoromethane	<112	ug/kg	256	112	1	12/06/18 13:46	12/07/18 04:13	75-69-4	
Vinyl chloride	<12.6	ug/kg	64.0	12.6	1	12/06/18 13:46	12/07/18 04:13	75-01-4	
Xylene (Total)	<14.8	ug/kg	192	14.8	1	12/06/18 13:46	12/07/18 04:13	1330-20-7	
cis-1,2-Dichloroethene	<10.6	ug/kg	64.0	10.6	1	12/06/18 13:46	12/07/18 04:13	156-59-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-3 (3.0-5.0)**      **Lab ID: 10457092006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	<9.2	ug/kg	64.0	9.2	1	12/06/18 13:46	12/07/18 04:13	10061-01-5	
n-Butylbenzene	<30.5	ug/kg	64.0	30.5	1	12/06/18 13:46	12/07/18 04:13	104-51-8	
n-Propylbenzene	<3.4	ug/kg	64.0	3.4	1	12/06/18 13:46	12/07/18 04:13	103-65-1	
p-Isopropyltoluene	<19.4	ug/kg	64.0	19.4	1	12/06/18 13:46	12/07/18 04:13	99-87-6	
sec-Butylbenzene	<12.3	ug/kg	64.0	12.3	1	12/06/18 13:46	12/07/18 04:13	135-98-8	
tert-Butylbenzene	<12.3	ug/kg	64.0	12.3	1	12/06/18 13:46	12/07/18 04:13	98-06-6	
trans-1,2-Dichloroethene	<29.9	ug/kg	64.0	29.9	1	12/06/18 13:46	12/07/18 04:13	156-60-5	
trans-1,3-Dichloropropene	<8.9	ug/kg	64.0	8.9	1	12/06/18 13:46	12/07/18 04:13	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-125		1	12/06/18 13:46	12/07/18 04:13	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/06/18 13:46	12/07/18 04:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 04:13	460-00-4	

**Sample: DP-4 (0.0-2.0)**      **Lab ID: 10457092007**      Collected: 11/26/18 15:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A    Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.8	11.9	1	12/03/18 19:42	12/05/18 20:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.8	15.0	1	12/03/18 19:42	12/05/18 20:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.8	17.1	1	12/03/18 19:42	12/05/18 20:36	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.8	14.5	1	12/03/18 19:42	12/05/18 20:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.8	12.8	1	12/03/18 19:42	12/05/18 20:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	42.8	12.6	1	12/03/18 19:42	12/05/18 20:36	11097-69-1	
PCB-1260 (Aroclor 1260)	79.5	ug/kg	42.8	10.2	1	12/03/18 19:42	12/05/18 20:36	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	48-125		1	12/03/18 19:42	12/05/18 20:36	877-09-8	
Decachlorobiphenyl (S)	82	%	30-134		1	12/03/18 19:42	12/05/18 20:36	2051-24-3	
<b>NWTPH-Dx GCS</b>		Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550							
Diesel Fuel Range	<3.1	mg/kg	19.2	3.1	1	11/30/18 17:47	12/02/18 21:27	68334-30-5	
Motor Oil Range	10.5J	mg/kg	12.8	5.6	1	11/30/18 17:47	12/02/18 21:27		
<b>Surrogates</b>									
n-Triacontane (S)	52	%	50-150		1	11/30/18 17:47	12/02/18 21:27	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	11/30/18 17:47	12/02/18 21:27	84-15-1	
<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx							
TPH as Gas	<0.94	mg/kg	7.2	0.94	1	12/07/18 15:19	12/07/18 21:27		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	83	%	50-150		1	12/07/18 15:19	12/07/18 21:27	98-08-8	
<b>6010D MET ICP</b>		Analytical Method: EPA 6010D    Preparation Method: EPA 3050							
Antimony	<2.3	mg/kg	6.0	2.3	5	12/06/18 08:15	12/11/18 10:59	7440-36-0	D3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-4 (0.0-2.0)**      **Lab ID: 10457092007**      Collected: 11/26/18 15:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Arsenic	<b>2.2J</b>	mg/kg	6.0	1.2	5	12/06/18 08:15	12/11/18 10:59	7440-38-2	D3
Beryllium	<b>&lt;0.080</b>	mg/kg	1.5	0.080	5	12/06/18 08:15	12/11/18 10:59	7440-41-7	D3
Cadmium	<b>&lt;0.12</b>	mg/kg	0.90	0.12	5	12/06/18 08:15	12/11/18 10:59	7440-43-9	D3
Chromium	<b>8.2</b>	mg/kg	3.0	0.51	5	12/06/18 08:15	12/11/18 10:59	7440-47-3	
Copper	<b>20.2</b>	mg/kg	3.0	0.33	5	12/06/18 08:15	12/11/18 10:59	7440-50-8	
Lead	<b>24.8</b>	mg/kg	3.0	0.68	5	12/06/18 08:15	12/11/18 10:59	7439-92-1	
Nickel	<b>9.4</b>	mg/kg	6.0	0.38	5	12/06/18 08:15	12/11/18 10:59	7440-02-0	
Selenium	<b>&lt;2.0</b>	mg/kg	6.0	2.0	5	12/06/18 08:15	12/11/18 10:59	7782-49-2	D3
Silver	<b>&lt;0.22</b>	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 10:59	7440-22-4	D3
Thallium	<b>3.8J</b>	mg/kg	6.0	1.4	5	12/06/18 08:15	12/11/18 10:59	7440-28-0	D3
Zinc	<b>68.8</b>	mg/kg	6.0	2.6	5	12/06/18 08:15	12/11/18 10:59	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>0.026</b>	mg/kg	0.026	0.010	1	12/05/18 14:27	12/12/18 14:20	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>22.8</b>	%	0.10	0.10	1		12/11/18 14:48		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;6.9</b>	ug/kg	129	6.9	10	12/10/18 12:55	12/12/18 13:35	90-12-0	
2-Methylnaphthalene	<b>&lt;6.5</b>	ug/kg	129	6.5	10	12/10/18 12:55	12/12/18 13:35	91-57-6	
Acenaphthene	<b>20.7J</b>	ug/kg	129	5.3	10	12/10/18 12:55	12/12/18 13:35	83-32-9	
Acenaphthylene	<b>&lt;6.4</b>	ug/kg	129	6.4	10	12/10/18 12:55	12/12/18 13:35	208-96-8	
Anthracene	<b>177</b>	ug/kg	129	6.0	10	12/10/18 12:55	12/12/18 13:35	120-12-7	
Benzo(a)anthracene	<b>1380</b>	ug/kg	129	13.9	10	12/10/18 12:55	12/12/18 13:35	56-55-3	
Benzo(a)pyrene	<b>804</b>	ug/kg	129	8.8	10	12/10/18 12:55	12/12/18 13:35	50-32-8	
Benzo(b)fluoranthene	<b>1070</b>	ug/kg	129	4.8	10	12/10/18 12:55	12/12/18 13:35	205-99-2	
Benzo(g,h,i)perylene	<b>303</b>	ug/kg	129	8.1	10	12/10/18 12:55	12/12/18 13:35	191-24-2	
Benzo(k)fluoranthene	<b>484</b>	ug/kg	129	10.9	10	12/10/18 12:55	12/12/18 13:35	207-08-9	
Chrysene	<b>1260</b>	ug/kg	129	17.5	10	12/10/18 12:55	12/12/18 13:35	218-01-9	
Dibenz(a,h)anthracene	<b>116J</b>	ug/kg	129	5.9	10	12/10/18 12:55	12/12/18 13:35	53-70-3	
Fluoranthene	<b>2220</b>	ug/kg	129	5.5	10	12/10/18 12:55	12/12/18 13:35	206-44-0	L2
Fluorene	<b>8.6J</b>	ug/kg	129	4.0	10	12/10/18 12:55	12/12/18 13:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>300</b>	ug/kg	129	8.6	10	12/10/18 12:55	12/12/18 13:35	193-39-5	
Naphthalene	<b>&lt;9.9</b>	ug/kg	129	9.9	10	12/10/18 12:55	12/12/18 13:35	91-20-3	
Phenanthrene	<b>98.7J</b>	ug/kg	129	24.7	10	12/10/18 12:55	12/12/18 13:35	85-01-8	
Pyrene	<b>2240</b>	ug/kg	129	19.7	10	12/10/18 12:55	12/12/18 13:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	42-125		10	12/10/18 12:55	12/12/18 13:35	321-60-8	S4
p-Terphenyl-d14 (S)	0	%	57-125		10	12/10/18 12:55	12/12/18 13:35	1718-51-0	S4
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.28</b>	ug/kg	4.9	0.28	1	02/26/19 09:24	02/26/19 15:52	106-93-4	
Methylene Chloride	<b>&lt;4.5</b>	ug/kg	24.4	4.5	1	02/26/19 09:24	02/26/19 15:52	75-09-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-4 (0.0-2.0)**      **Lab ID: 10457092007**      Collected: 11/26/18 15:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	02/26/19 09:24	02/26/19 15:52	17060-07-0	6M, H3
Toluene-d8 (S)	93	%	75-125		1	02/26/19 09:24	02/26/19 15:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/26/19 09:24	02/26/19 15:52	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<20.4	ug/kg	64.8	20.4	1	12/06/18 13:46	12/07/18 04:32	630-20-6	
1,1,1-Trichloroethane	<30.2	ug/kg	64.8	30.2	1	12/06/18 13:46	12/07/18 04:32	71-55-6	
1,1,2,2-Tetrachloroethane	<11.4	ug/kg	259	11.4	1	12/06/18 13:46	12/07/18 04:32	79-34-5	
1,1,2-Trichloroethane	<7.8	ug/kg	64.8	7.8	1	12/06/18 13:46	12/07/18 04:32	79-00-5	
1,1,2-Trichlorotrifluoroethane	<75.2	ug/kg	259	75.2	1	12/06/18 13:46	12/07/18 04:32	76-13-1	
1,1-Dichloroethane	<7.3	ug/kg	64.8	7.3	1	12/06/18 13:46	12/07/18 04:32	75-34-3	
1,1-Dichloroethene	<19.5	ug/kg	259	19.5	1	12/06/18 13:46	12/07/18 04:32	75-35-4	
1,1-Dichloropropene	<30.0	ug/kg	64.8	30.0	1	12/06/18 13:46	12/07/18 04:32	563-58-6	
1,2,3-Trichlorobenzene	<10.4	ug/kg	64.8	10.4	1	12/06/18 13:46	12/07/18 04:32	87-61-6	
1,2,3-Trichloropropane	<17.0	ug/kg	259	17.0	1	12/06/18 13:46	12/07/18 04:32	96-18-4	
1,2,4-Trichlorobenzene	<14.4	ug/kg	64.8	14.4	1	12/06/18 13:46	12/07/18 04:32	120-82-1	
1,2,4-Trimethylbenzene	<13.0	ug/kg	64.8	13.0	1	12/06/18 13:46	12/07/18 04:32	95-63-6	
1,2-Dibromo-3-chloropropane	<226	ug/kg	648	226	1	12/06/18 13:46	12/07/18 04:32	96-12-8	
1,2-Dibromoethane (EDB)	<6.8	ug/kg	64.8	6.8	1	12/06/18 13:46	12/07/18 04:32	106-93-4	
1,2-Dichlorobenzene	<2.6	ug/kg	64.8	2.6	1	12/06/18 13:46	12/07/18 04:32	95-50-1	
1,2-Dichloroethane	<7.1	ug/kg	64.8	7.1	1	12/06/18 13:46	12/07/18 04:32	107-06-2	
1,2-Dichloropropane	<11.2	ug/kg	64.8	11.2	1	12/06/18 13:46	12/07/18 04:32	78-87-5	
1,3,5-Trimethylbenzene	<10.3	ug/kg	64.8	10.3	1	12/06/18 13:46	12/07/18 04:32	108-67-8	
1,3-Dichlorobenzene	<2.4	ug/kg	64.8	2.4	1	12/06/18 13:46	12/07/18 04:32	541-73-1	
1,3-Dichloropropane	<9.0	ug/kg	64.8	9.0	1	12/06/18 13:46	12/07/18 04:32	142-28-9	
1,4-Dichlorobenzene	<4.0	ug/kg	64.8	4.0	1	12/06/18 13:46	12/07/18 04:32	106-46-7	
2,2-Dichloropropane	<8.1	ug/kg	259	8.1	1	12/06/18 13:46	12/07/18 04:32	594-20-7	
2-Butanone (MEK)	<34.5	ug/kg	324	34.5	1	12/06/18 13:46	12/07/18 04:32	78-93-3	
2-Chlorotoluene	<3.2	ug/kg	64.8	3.2	1	12/06/18 13:46	12/07/18 04:32	95-49-8	
4-Chlorotoluene	<3.3	ug/kg	64.8	3.3	1	12/06/18 13:46	12/07/18 04:32	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.5	ug/kg	324	13.5	1	12/06/18 13:46	12/07/18 04:32	108-10-1	
Acetone	678J	ug/kg	1300	403	1	12/06/18 13:46	12/07/18 04:32	67-64-1	B
Allyl chloride	<54.3	ug/kg	259	54.3	1	12/06/18 13:46	12/07/18 04:32	107-05-1	
Benzene	<3.7	ug/kg	25.9	3.7	1	12/06/18 13:46	12/07/18 04:32	71-43-2	
Bromobenzene	<4.0	ug/kg	64.8	4.0	1	12/06/18 13:46	12/07/18 04:32	108-86-1	
Bromochloromethane	<22.4	ug/kg	64.8	22.4	1	12/06/18 13:46	12/07/18 04:32	74-97-5	
Bromodichloromethane	<22.2	ug/kg	64.8	22.2	1	12/06/18 13:46	12/07/18 04:32	75-27-4	
Bromoform	<98.2	ug/kg	259	98.2	1	12/06/18 13:46	12/07/18 04:32	75-25-2	
Bromomethane	<75.9	ug/kg	648	75.9	1	12/06/18 13:46	12/07/18 04:32	74-83-9	
Carbon tetrachloride	<31.0	ug/kg	64.8	31.0	1	12/06/18 13:46	12/07/18 04:32	56-23-5	
Chlorobenzene	<3.7	ug/kg	64.8	3.7	1	12/06/18 13:46	12/07/18 04:32	108-90-7	
Chloroethane	<33.7	ug/kg	648	33.7	1	12/06/18 13:46	12/07/18 04:32	75-00-3	
Chloroform	<32.4	ug/kg	64.8	32.4	1	12/06/18 13:46	12/07/18 04:32	67-66-3	
Chloromethane	<15.6	ug/kg	259	15.6	1	12/06/18 13:46	12/07/18 04:32	74-87-3	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-4 (0.0-2.0)**      **Lab ID: 10457092007**      Collected: 11/26/18 15:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromochloromethane	<7.5	ug/kg	259	7.5	1	12/06/18 13:46	12/07/18 04:32	124-48-1	
Dibromomethane	<11.9	ug/kg	64.8	11.9	1	12/06/18 13:46	12/07/18 04:32	74-95-3	
Dichlorodifluoromethane	<21.0	ug/kg	259	21.0	1	12/06/18 13:46	12/07/18 04:32	75-71-8	
Dichlorofluoromethane	<89.6	ug/kg	648	89.6	1	12/06/18 13:46	12/07/18 04:32	75-43-4	N2
Diethyl ether (Ethyl ether)	<39.7	ug/kg	259	39.7	1	12/06/18 13:46	12/07/18 04:32	60-29-7	
Ethylbenzene	<3.5	ug/kg	64.8	3.5	1	12/06/18 13:46	12/07/18 04:32	100-41-4	
Hexachloro-1,3-butadiene	<15.8	ug/kg	324	15.8	1	12/06/18 13:46	12/07/18 04:32	87-68-3	
Isopropylbenzene (Cumene)	<2.9	ug/kg	64.8	2.9	1	12/06/18 13:46	12/07/18 04:32	98-82-8	
Methyl-tert-butyl ether	<7.7	ug/kg	64.8	7.7	1	12/06/18 13:46	12/07/18 04:32	1634-04-4	
Methylene Chloride	<122	ug/kg	259	122	1	12/06/18 13:46	12/07/18 04:32	75-09-2	
Naphthalene	<60.7	ug/kg	259	60.7	1	12/06/18 13:46	12/07/18 04:32	91-20-3	
Styrene	<3.0	ug/kg	64.8	3.0	1	12/06/18 13:46	12/07/18 04:32	100-42-5	
Tetrachloroethene	<22.8	ug/kg	64.8	22.8	1	12/06/18 13:46	12/07/18 04:32	127-18-4	
Tetrahydrofuran	<94.3	ug/kg	2590	94.3	1	12/06/18 13:46	12/07/18 04:32	109-99-9	
Toluene	<15.8	ug/kg	64.8	15.8	1	12/06/18 13:46	12/07/18 04:32	108-88-3	
Trichloroethene	<10	ug/kg	64.8	10	1	12/06/18 13:46	12/07/18 04:32	79-01-6	
Trichlorofluoromethane	<113	ug/kg	259	113	1	12/06/18 13:46	12/07/18 04:32	75-69-4	
Vinyl chloride	<12.8	ug/kg	64.8	12.8	1	12/06/18 13:46	12/07/18 04:32	75-01-4	
Xylene (Total)	<15.0	ug/kg	195	15.0	1	12/06/18 13:46	12/07/18 04:32	1330-20-7	
cis-1,2-Dichloroethene	<10.8	ug/kg	64.8	10.8	1	12/06/18 13:46	12/07/18 04:32	156-59-2	
cis-1,3-Dichloropropene	<9.3	ug/kg	64.8	9.3	1	12/06/18 13:46	12/07/18 04:32	10061-01-5	
n-Butylbenzene	<30.9	ug/kg	64.8	30.9	1	12/06/18 13:46	12/07/18 04:32	104-51-8	
n-Propylbenzene	<3.5	ug/kg	64.8	3.5	1	12/06/18 13:46	12/07/18 04:32	103-65-1	
p-Isopropyltoluene	<19.7	ug/kg	64.8	19.7	1	12/06/18 13:46	12/07/18 04:32	99-87-6	
sec-Butylbenzene	<12.4	ug/kg	64.8	12.4	1	12/06/18 13:46	12/07/18 04:32	135-98-8	
tert-Butylbenzene	<12.5	ug/kg	64.8	12.5	1	12/06/18 13:46	12/07/18 04:32	98-06-6	
trans-1,2-Dichloroethene	<30.3	ug/kg	64.8	30.3	1	12/06/18 13:46	12/07/18 04:32	156-60-5	
trans-1,3-Dichloropropene	<9.0	ug/kg	64.8	9.0	1	12/06/18 13:46	12/07/18 04:32	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1	12/06/18 13:46	12/07/18 04:32	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 04:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/06/18 13:46	12/07/18 04:32	460-00-4	

**Sample: DP-4 (3.0-5.0)**      **Lab ID: 10457092008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.4	ug/kg	48.0	13.4	1	12/03/18 19:42	12/05/18 20:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.9	ug/kg	48.0	16.9	1	12/03/18 19:42	12/05/18 20:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<19.2	ug/kg	48.0	19.2	1	12/03/18 19:42	12/05/18 20:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<16.3	ug/kg	48.0	16.3	1	12/03/18 19:42	12/05/18 20:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.4	ug/kg	48.0	14.4	1	12/03/18 19:42	12/05/18 20:52	12672-29-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-4 (3.0-5.0)**      **Lab ID: 10457092008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1254 (Aroclor 1254)	<14.1	ug/kg	48.0	14.1	1	12/03/18 19:42	12/05/18 20:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.5	ug/kg	48.0	11.5	1	12/03/18 19:42	12/05/18 20:52	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	85	%	48-125		1	12/03/18 19:42	12/05/18 20:52	877-09-8	
Decachlorobiphenyl (S)	96	%	30-134		1	12/03/18 19:42	12/05/18 20:52	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.5	mg/kg	21.6	3.5	1	11/30/18 17:47	12/02/18 23:09	68334-30-5	
Motor Oil Range	<6.3	mg/kg	14.4	6.3	1	11/30/18 17:47	12/02/18 23:09		
<b>Surrogates</b>									
n-Triacontane (S)	88	%	50-150		1	11/30/18 17:47	12/02/18 23:09	638-68-6	
o-Terphenyl (S)	91	%	50-150		1	11/30/18 17:47	12/02/18 23:09	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	9.0	1.2	1	12/07/18 15:19	12/07/18 21:44		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	81	%	50-150		1	12/07/18 15:19	12/07/18 21:44	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.50	mg/kg	1.3	0.50	1	12/06/18 08:15	12/10/18 16:39	7440-36-0	
Arsenic	0.38J	mg/kg	1.3	0.27	1	12/06/18 08:15	12/10/18 16:39	7440-38-2	
Beryllium	0.041J	mg/kg	0.33	0.018	1	12/06/18 08:15	12/10/18 16:39	7440-41-7	
Cadmium	<0.026	mg/kg	0.20	0.026	1	12/06/18 08:15	12/10/18 16:39	7440-43-9	
Chromium	2.8	mg/kg	0.66	0.11	1	12/06/18 08:15	12/10/18 16:39	7440-47-3	
Copper	3.9	mg/kg	0.66	0.073	1	12/06/18 08:15	12/10/18 16:39	7440-50-8	
Lead	1.7	mg/kg	0.66	0.15	1	12/06/18 08:15	12/10/18 16:39	7439-92-1	
Nickel	2.6	mg/kg	1.3	0.083	1	12/06/18 08:15	12/10/18 16:39	7440-02-0	
Selenium	<0.43	mg/kg	1.3	0.43	1	12/06/18 08:15	12/10/18 16:39	7782-49-2	
Silver	<0.048	mg/kg	0.66	0.048	1	12/06/18 08:15	12/10/18 16:39	7440-22-4	
Thallium	<0.30	mg/kg	1.3	0.30	1	12/06/18 08:15	12/10/18 16:39	7440-28-0	
Zinc	8.3	mg/kg	1.3	0.58	1	12/06/18 08:15	12/10/18 16:39	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0098	mg/kg	0.024	0.0098	1	12/05/18 14:27	12/12/18 14:23	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	31.4	%	0.10	0.10	1		12/11/18 14:48		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.78	ug/kg	14.5	0.78	1	12/10/18 12:55	12/12/18 13:55	90-12-0	
2-Methylnaphthalene	<0.73	ug/kg	14.5	0.73	1	12/10/18 12:55	12/12/18 13:55	91-57-6	
Acenaphthene	<0.59	ug/kg	14.5	0.59	1	12/10/18 12:55	12/12/18 13:55	83-32-9	
Acenaphthylene	<0.72	ug/kg	14.5	0.72	1	12/10/18 12:55	12/12/18 13:55	208-96-8	
Anthracene	<0.68	ug/kg	14.5	0.68	1	12/10/18 12:55	12/12/18 13:55	120-12-7	
Benzo(a)anthracene	<1.6	ug/kg	14.5	1.6	1	12/10/18 12:55	12/12/18 13:55	56-55-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-4 (3.0-5.0)**      **Lab ID: 10457092008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Benzo(a)pyrene	<1.0	ug/kg	14.5	1.0	1	12/10/18 12:55	12/12/18 13:55	50-32-8	
Benzo(b)fluoranthene	0.89J	ug/kg	14.5	0.54	1	12/10/18 12:55	12/12/18 13:55	205-99-2	
Benzo(g,h,i)perylene	<0.92	ug/kg	14.5	0.92	1	12/10/18 12:55	12/12/18 13:55	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	14.5	1.2	1	12/10/18 12:55	12/12/18 13:55	207-08-9	
Chrysene	<2.0	ug/kg	14.5	2.0	1	12/10/18 12:55	12/12/18 13:55	218-01-9	
Dibenz(a,h)anthracene	<0.67	ug/kg	14.5	0.67	1	12/10/18 12:55	12/12/18 13:55	53-70-3	
Fluoranthene	1.7J	ug/kg	14.5	0.62	1	12/10/18 12:55	12/12/18 13:55	206-44-0	B,L2
Fluorene	<0.45	ug/kg	14.5	0.45	1	12/10/18 12:55	12/12/18 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.97	ug/kg	14.5	0.97	1	12/10/18 12:55	12/12/18 13:55	193-39-5	
Naphthalene	<1.1	ug/kg	14.5	1.1	1	12/10/18 12:55	12/12/18 13:55	91-20-3	
Phenanthrene	<2.8	ug/kg	14.5	2.8	1	12/10/18 12:55	12/12/18 13:55	85-01-8	
Pyrene	<2.2	ug/kg	14.5	2.2	1	12/10/18 12:55	12/12/18 13:55	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	19	%	42-125		1	12/10/18 12:55	12/12/18 13:55	321-60-8	2M,S0
p-Terphenyl-d14 (S)	71	%	57-125		1	12/10/18 12:55	12/12/18 13:55	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.31	ug/kg	5.5	0.31	1	02/26/19 09:24	02/26/19 16:12	106-93-4	
Methylene Chloride	<5.1	ug/kg	27.6	5.1	1	02/26/19 09:24	02/26/19 16:12	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	118	%	75-125		1	02/26/19 09:24	02/26/19 16:12	17060-07-0	6M,H3
Toluene-d8 (S)	90	%	75-125		1	02/26/19 09:24	02/26/19 16:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/26/19 09:24	02/26/19 16:12	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<26.0	ug/kg	82.7	26.0	1	12/06/18 13:46	12/07/18 04:50	630-20-6	
1,1,1-Trichloroethane	<38.5	ug/kg	82.7	38.5	1	12/06/18 13:46	12/07/18 04:50	71-55-6	
1,1,2,2-Tetrachloroethane	<14.6	ug/kg	331	14.6	1	12/06/18 13:46	12/07/18 04:50	79-34-5	
1,1,2-Trichloroethane	<9.9	ug/kg	82.7	9.9	1	12/06/18 13:46	12/07/18 04:50	79-00-5	
1,1,2-Trichlorotrifluoroethane	<95.9	ug/kg	331	95.9	1	12/06/18 13:46	12/07/18 04:50	76-13-1	
1,1-Dichloroethane	<9.3	ug/kg	82.7	9.3	1	12/06/18 13:46	12/07/18 04:50	75-34-3	
1,1-Dichloroethene	<24.8	ug/kg	331	24.8	1	12/06/18 13:46	12/07/18 04:50	75-35-4	
1,1-Dichloropropene	<38.2	ug/kg	82.7	38.2	1	12/06/18 13:46	12/07/18 04:50	563-58-6	
1,2,3-Trichlorobenzene	<13.2	ug/kg	82.7	13.2	1	12/06/18 13:46	12/07/18 04:50	87-61-6	
1,2,3-Trichloropropane	<21.7	ug/kg	331	21.7	1	12/06/18 13:46	12/07/18 04:50	96-18-4	
1,2,4-Trichlorobenzene	<18.4	ug/kg	82.7	18.4	1	12/06/18 13:46	12/07/18 04:50	120-82-1	
1,2,4-Trimethylbenzene	<16.5	ug/kg	82.7	16.5	1	12/06/18 13:46	12/07/18 04:50	95-63-6	
1,2-Dibromo-3-chloropropane	<288	ug/kg	827	288	1	12/06/18 13:46	12/07/18 04:50	96-12-8	
1,2-Dibromoethane (EDB)	<8.7	ug/kg	82.7	8.7	1	12/06/18 13:46	12/07/18 04:50	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	82.7	3.3	1	12/06/18 13:46	12/07/18 04:50	95-50-1	
1,2-Dichloroethane	<9.1	ug/kg	82.7	9.1	1	12/06/18 13:46	12/07/18 04:50	107-06-2	
1,2-Dichloropropane	<14.3	ug/kg	82.7	14.3	1	12/06/18 13:46	12/07/18 04:50	78-87-5	
1,3,5-Trimethylbenzene	<13.2	ug/kg	82.7	13.2	1	12/06/18 13:46	12/07/18 04:50	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	82.7	3.0	1	12/06/18 13:46	12/07/18 04:50	541-73-1	
1,3-Dichloropropane	<11.4	ug/kg	82.7	11.4	1	12/06/18 13:46	12/07/18 04:50	142-28-9	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-4 (3.0-5.0)**      **Lab ID: 10457092008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,4-Dichlorobenzene	<5.1	ug/kg	82.7	5.1	1	12/06/18 13:46	12/07/18 04:50	106-46-7	
2,2-Dichloropropane	<10.3	ug/kg	331	10.3	1	12/06/18 13:46	12/07/18 04:50	594-20-7	
2-Butanone (MEK)	<44.0	ug/kg	413	44.0	1	12/06/18 13:46	12/07/18 04:50	78-93-3	
2-Chlorotoluene	<4.1	ug/kg	82.7	4.1	1	12/06/18 13:46	12/07/18 04:50	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	82.7	4.2	1	12/06/18 13:46	12/07/18 04:50	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.2	ug/kg	413	17.2	1	12/06/18 13:46	12/07/18 04:50	108-10-1	
Acetone	1240J	ug/kg	1650	514	1	12/06/18 13:46	12/07/18 04:50	67-64-1	B
Allyl chloride	<69.3	ug/kg	331	69.3	1	12/06/18 13:46	12/07/18 04:50	107-05-1	
Benzene	<4.7	ug/kg	33.1	4.7	1	12/06/18 13:46	12/07/18 04:50	71-43-2	
Bromobenzene	<5.1	ug/kg	82.7	5.1	1	12/06/18 13:46	12/07/18 04:50	108-86-1	
Bromochloromethane	<28.6	ug/kg	82.7	28.6	1	12/06/18 13:46	12/07/18 04:50	74-97-5	
Bromodichloromethane	<28.3	ug/kg	82.7	28.3	1	12/06/18 13:46	12/07/18 04:50	75-27-4	
Bromoform	<125	ug/kg	331	125	1	12/06/18 13:46	12/07/18 04:50	75-25-2	
Bromomethane	<96.7	ug/kg	827	96.7	1	12/06/18 13:46	12/07/18 04:50	74-83-9	
Carbon tetrachloride	<39.5	ug/kg	82.7	39.5	1	12/06/18 13:46	12/07/18 04:50	56-23-5	
Chlorobenzene	<4.7	ug/kg	82.7	4.7	1	12/06/18 13:46	12/07/18 04:50	108-90-7	
Chloroethane	<43.0	ug/kg	827	43.0	1	12/06/18 13:46	12/07/18 04:50	75-00-3	
Chloroform	<41.3	ug/kg	82.7	41.3	1	12/06/18 13:46	12/07/18 04:50	67-66-3	
Chloromethane	<19.8	ug/kg	331	19.8	1	12/06/18 13:46	12/07/18 04:50	74-87-3	
Dibromochloromethane	<9.6	ug/kg	331	9.6	1	12/06/18 13:46	12/07/18 04:50	124-48-1	
Dibromomethane	<15.2	ug/kg	82.7	15.2	1	12/06/18 13:46	12/07/18 04:50	74-95-3	
Dichlorodifluoromethane	<26.8	ug/kg	331	26.8	1	12/06/18 13:46	12/07/18 04:50	75-71-8	
Dichlorofluoromethane	<114	ug/kg	827	114	1	12/06/18 13:46	12/07/18 04:50	75-43-4	N2
Diethyl ether (Ethyl ether)	<50.6	ug/kg	331	50.6	1	12/06/18 13:46	12/07/18 04:50	60-29-7	
Ethylbenzene	<4.5	ug/kg	82.7	4.5	1	12/06/18 13:46	12/07/18 04:50	100-41-4	
Hexachloro-1,3-butadiene	<20.2	ug/kg	413	20.2	1	12/06/18 13:46	12/07/18 04:50	87-68-3	
Isopropylbenzene (Cumene)	<3.7	ug/kg	82.7	3.7	1	12/06/18 13:46	12/07/18 04:50	98-82-8	
Methyl-tert-butyl ether	<9.8	ug/kg	82.7	9.8	1	12/06/18 13:46	12/07/18 04:50	1634-04-4	
Methylene Chloride	<156	ug/kg	331	156	1	12/06/18 13:46	12/07/18 04:50	75-09-2	
Naphthalene	<77.4	ug/kg	331	77.4	1	12/06/18 13:46	12/07/18 04:50	91-20-3	
Styrene	<3.8	ug/kg	82.7	3.8	1	12/06/18 13:46	12/07/18 04:50	100-42-5	
Tetrachloroethene	<29.1	ug/kg	82.7	29.1	1	12/06/18 13:46	12/07/18 04:50	127-18-4	
Tetrahydrofuran	<120	ug/kg	3310	120	1	12/06/18 13:46	12/07/18 04:50	109-99-9	
Toluene	<20.2	ug/kg	82.7	20.2	1	12/06/18 13:46	12/07/18 04:50	108-88-3	
Trichloroethene	<12.7	ug/kg	82.7	12.7	1	12/06/18 13:46	12/07/18 04:50	79-01-6	
Trichlorofluoromethane	<144	ug/kg	331	144	1	12/06/18 13:46	12/07/18 04:50	75-69-4	
Vinyl chloride	<16.3	ug/kg	82.7	16.3	1	12/06/18 13:46	12/07/18 04:50	75-01-4	
Xylene (Total)	<19.2	ug/kg	248	19.2	1	12/06/18 13:46	12/07/18 04:50	1330-20-7	
cis-1,2-Dichloroethene	<13.7	ug/kg	82.7	13.7	1	12/06/18 13:46	12/07/18 04:50	156-59-2	
cis-1,3-Dichloropropene	<11.8	ug/kg	82.7	11.8	1	12/06/18 13:46	12/07/18 04:50	10061-01-5	
n-Butylbenzene	<39.4	ug/kg	82.7	39.4	1	12/06/18 13:46	12/07/18 04:50	104-51-8	
n-Propylbenzene	<4.4	ug/kg	82.7	4.4	1	12/06/18 13:46	12/07/18 04:50	103-65-1	
p-Isopropyltoluene	<25.1	ug/kg	82.7	25.1	1	12/06/18 13:46	12/07/18 04:50	99-87-6	
sec-Butylbenzene	<15.8	ug/kg	82.7	15.8	1	12/06/18 13:46	12/07/18 04:50	135-98-8	
tert-Butylbenzene	<15.9	ug/kg	82.7	15.9	1	12/06/18 13:46	12/07/18 04:50	98-06-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-4 (3.0-5.0)**      **Lab ID: 10457092008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,2-Dichloroethene	<38.7	ug/kg	82.7	38.7	1	12/06/18 13:46	12/07/18 04:50	156-60-5	
trans-1,3-Dichloropropene	<11.5	ug/kg	82.7	11.5	1	12/06/18 13:46	12/07/18 04:50	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 04:50	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 04:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 04:50	460-00-4	

**Sample: DP-5 (0.0-2.0)**      **Lab ID: 10457092009**      Collected: 11/27/18 08:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.1	ug/kg	43.4	12.1	1	12/03/18 19:42	12/05/18 21:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.2	ug/kg	43.4	15.2	1	12/03/18 19:42	12/05/18 21:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.3	ug/kg	43.4	17.3	1	12/03/18 19:42	12/05/18 21:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.7	ug/kg	43.4	14.7	1	12/03/18 19:42	12/05/18 21:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.0	ug/kg	43.4	13.0	1	12/03/18 19:42	12/05/18 21:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.8	ug/kg	43.4	12.8	1	12/03/18 19:42	12/05/18 21:07	11097-69-1	
PCB-1260 (Aroclor 1260)	189	ug/kg	43.4	10.4	1	12/03/18 19:42	12/05/18 21:07	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/03/18 19:42	12/05/18 21:07	877-09-8	
Decachlorobiphenyl (S)	97	%	30-134		1	12/03/18 19:42	12/05/18 21:07	2051-24-3	

**NWTPH-Dx GCS**      Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	18.7J	mg/kg	19.8	3.2	1	11/30/18 17:47	12/02/18 21:17	68334-30-5	
Motor Oil Range	65.6	mg/kg	13.2	5.7	1	11/30/18 17:47	12/02/18 21:17		
<b>Surrogates</b>									
n-Triacontane (S)	89	%	50-150		1	11/30/18 17:47	12/02/18 21:17	638-68-6	
o-Terphenyl (S)	85	%	50-150		1	11/30/18 17:47	12/02/18 21:17	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<1.5	mg/kg	11.1	1.5	1	12/07/18 17:37	12/10/18 04:58		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91	%	50-150		1	12/07/18 17:37	12/10/18 04:58	98-08-8	

**6010D MET ICP**      Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	<2.3	mg/kg	6.0	2.3	5	12/06/18 08:15	12/11/18 11:01	7440-36-0	D3
Arsenic	3.2J	mg/kg	6.0	1.2	5	12/06/18 08:15	12/11/18 11:01	7440-38-2	D3
Beryllium	<0.081	mg/kg	1.5	0.081	5	12/06/18 08:15	12/11/18 11:01	7440-41-7	D3
Cadmium	0.53J	mg/kg	0.91	0.12	5	12/06/18 08:15	12/11/18 11:01	7440-43-9	D3
Chromium	10.3	mg/kg	3.0	0.52	5	12/06/18 08:15	12/11/18 11:01	7440-47-3	
Copper	63.1	mg/kg	3.0	0.34	5	12/06/18 08:15	12/11/18 11:01	7440-50-8	
Lead	123	mg/kg	3.0	0.68	5	12/06/18 08:15	12/11/18 11:01	7439-92-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-5 (0.0-2.0)**      **Lab ID: 10457092009**      Collected: 11/27/18 08:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Nickel	10.6	mg/kg	6.0	0.38	5	12/06/18 08:15	12/11/18 11:01	7440-02-0	
Selenium	<2.0	mg/kg	6.0	2.0	5	12/06/18 08:15	12/11/18 11:01	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 11:01	7440-22-4	D3
Thallium	3.8J	mg/kg	6.0	1.4	5	12/06/18 08:15	12/11/18 11:01	7440-28-0	D3
Zinc	114	mg/kg	6.0	2.6	5	12/06/18 08:15	12/11/18 11:01	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.072	mg/kg	0.025	0.0099	1	12/05/18 14:27	12/12/18 14:25	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.2	%	0.10	0.10	1		12/11/18 14:48		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.1	0.70	1	12/10/18 12:55	12/12/18 14:36	90-12-0	
2-Methylnaphthalene	0.85J	ug/kg	13.1	0.66	1	12/10/18 12:55	12/12/18 14:36	91-57-6	
Acenaphthene	3.0J	ug/kg	13.1	0.54	1	12/10/18 12:55	12/12/18 14:36	83-32-9	
Acenaphthylene	4.4J	ug/kg	13.1	0.65	1	12/10/18 12:55	12/12/18 14:36	208-96-8	
Anthracene	21.1	ug/kg	13.1	0.61	1	12/10/18 12:55	12/12/18 14:36	120-12-7	
Benzo(a)anthracene	108	ug/kg	13.1	1.4	1	12/10/18 12:55	12/12/18 14:36	56-55-3	
Benzo(a)pyrene	77.0	ug/kg	13.1	0.90	1	12/10/18 12:55	12/12/18 14:36	50-32-8	
Benzo(b)fluoranthene	126	ug/kg	13.1	0.49	1	12/10/18 12:55	12/12/18 14:36	205-99-2	
Benzo(g,h,i)perylene	59.3	ug/kg	13.1	0.83	1	12/10/18 12:55	12/12/18 14:36	191-24-2	
Benzo(k)fluoranthene	48.1	ug/kg	13.1	1.1	1	12/10/18 12:55	12/12/18 14:36	207-08-9	
Chrysene	115	ug/kg	13.1	1.8	1	12/10/18 12:55	12/12/18 14:36	218-01-9	
Dibenz(a,h)anthracene	12.1J	ug/kg	13.1	0.60	1	12/10/18 12:55	12/12/18 14:36	53-70-3	
Fluoranthene	195	ug/kg	13.1	0.56	1	12/10/18 12:55	12/12/18 14:36	206-44-0	L2
Fluorene	2.6J	ug/kg	13.1	0.41	1	12/10/18 12:55	12/12/18 14:36	86-73-7	
Indeno(1,2,3-cd)pyrene	48.4	ug/kg	13.1	0.88	1	12/10/18 12:55	12/12/18 14:36	193-39-5	
Naphthalene	1.2J	ug/kg	13.1	1.0	1	12/10/18 12:55	12/12/18 14:36	91-20-3	
Phenanthrene	57.7	ug/kg	13.1	2.5	1	12/10/18 12:55	12/12/18 14:36	85-01-8	
Pyrene	184	ug/kg	13.1	2.0	1	12/10/18 12:55	12/12/18 14:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	42-125		1	12/10/18 12:55	12/12/18 14:36	321-60-8	
p-Terphenyl-d14 (S)	74	%	57-125		1	12/10/18 12:55	12/12/18 14:36	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	02/26/19 09:24	02/26/19 16:31	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.7	4.5	1	02/26/19 09:24	02/26/19 16:31	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	02/26/19 09:24	02/26/19 16:31	17060-07-0	6M, H3
Toluene-d8 (S)	92	%	75-125		1	02/26/19 09:24	02/26/19 16:31	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/26/19 09:24	02/26/19 16:31	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<27.3	ug/kg	86.9	27.3	1	12/07/18 14:28	12/10/18 17:16	630-20-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-5 (0.0-2.0)**      **Lab ID: 10457092009**      Collected: 11/27/18 08:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1-Trichloroethane	<40.5	ug/kg	86.9	40.5	1	12/07/18 14:28	12/10/18 17:16	71-55-6	
1,1,2,2-Tetrachloroethane	<15.3	ug/kg	347	15.3	1	12/07/18 14:28	12/10/18 17:16	79-34-5	
1,1,2-Trichloroethane	<10.4	ug/kg	86.9	10.4	1	12/07/18 14:28	12/10/18 17:16	79-00-5	
1,1,2-Trichlorotrifluoroethane	<101	ug/kg	347	101	1	12/07/18 14:28	12/10/18 17:16	76-13-1	
1,1-Dichloroethane	<9.7	ug/kg	86.9	9.7	1	12/07/18 14:28	12/10/18 17:16	75-34-3	
1,1-Dichloroethene	<26.1	ug/kg	347	26.1	1	12/07/18 14:28	12/10/18 17:16	75-35-4	
1,1-Dichloropropene	<40.1	ug/kg	86.9	40.1	1	12/07/18 14:28	12/10/18 17:16	563-58-6	
1,2,3-Trichlorobenzene	<13.9	ug/kg	86.9	13.9	1	12/07/18 14:28	12/10/18 17:16	87-61-6	
1,2,3-Trichloropropane	<22.8	ug/kg	347	22.8	1	12/07/18 14:28	12/10/18 17:16	96-18-4	
1,2,4-Trichlorobenzene	<19.3	ug/kg	86.9	19.3	1	12/07/18 14:28	12/10/18 17:16	120-82-1	
1,2,4-Trimethylbenzene	<17.4	ug/kg	86.9	17.4	1	12/07/18 14:28	12/10/18 17:16	95-63-6	
1,2-Dibromo-3-chloropropane	<302	ug/kg	869	302	1	12/07/18 14:28	12/10/18 17:16	96-12-8	
1,2-Dibromoethane (EDB)	<9.1	ug/kg	86.9	9.1	1	12/07/18 14:28	12/10/18 17:16	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/kg	86.9	3.5	1	12/07/18 14:28	12/10/18 17:16	95-50-1	
1,2-Dichloroethane	<9.6	ug/kg	86.9	9.6	1	12/07/18 14:28	12/10/18 17:16	107-06-2	
1,2-Dichloropropane	<15.0	ug/kg	86.9	15.0	1	12/07/18 14:28	12/10/18 17:16	78-87-5	
1,3,5-Trimethylbenzene	<13.8	ug/kg	86.9	13.8	1	12/07/18 14:28	12/10/18 17:16	108-67-8	
1,3-Dichlorobenzene	<3.2	ug/kg	86.9	3.2	1	12/07/18 14:28	12/10/18 17:16	541-73-1	
1,3-Dichloropropane	<12.0	ug/kg	86.9	12.0	1	12/07/18 14:28	12/10/18 17:16	142-28-9	
1,4-Dichlorobenzene	<5.4	ug/kg	86.9	5.4	1	12/07/18 14:28	12/10/18 17:16	106-46-7	
2,2-Dichloropropane	<10.8	ug/kg	347	10.8	1	12/07/18 14:28	12/10/18 17:16	594-20-7	
2-Butanone (MEK)	<46.2	ug/kg	434	46.2	1	12/07/18 14:28	12/10/18 17:16	78-93-3	
2-Chlorotoluene	<4.3	ug/kg	86.9	4.3	1	12/07/18 14:28	12/10/18 17:16	95-49-8	
4-Chlorotoluene	<4.4	ug/kg	86.9	4.4	1	12/07/18 14:28	12/10/18 17:16	106-43-4	
4-Methyl-2-pentanone (MIBK)	<18.1	ug/kg	434	18.1	1	12/07/18 14:28	12/10/18 17:16	108-10-1	
Acetone	<540	ug/kg	1740	540	1	12/07/18 14:28	12/10/18 17:16	67-64-1	
Allyl chloride	<72.8	ug/kg	347	72.8	1	12/07/18 14:28	12/10/18 17:16	107-05-1	
Benzene	<4.9	ug/kg	34.7	4.9	1	12/07/18 14:28	12/10/18 17:16	71-43-2	
Bromobenzene	<5.3	ug/kg	86.9	5.3	1	12/07/18 14:28	12/10/18 17:16	108-86-1	
Bromochloromethane	<30.1	ug/kg	86.9	30.1	1	12/07/18 14:28	12/10/18 17:16	74-97-5	
Bromodichloromethane	<29.7	ug/kg	86.9	29.7	1	12/07/18 14:28	12/10/18 17:16	75-27-4	
Bromoform	<131	ug/kg	347	131	1	12/07/18 14:28	12/10/18 17:16	75-25-2	
Bromomethane	<102	ug/kg	869	102	1	12/07/18 14:28	12/10/18 17:16	74-83-9	
Carbon tetrachloride	<41.5	ug/kg	86.9	41.5	1	12/07/18 14:28	12/10/18 17:16	56-23-5	
Chlorobenzene	<4.9	ug/kg	86.9	4.9	1	12/07/18 14:28	12/10/18 17:16	108-90-7	
Chloroethane	<45.2	ug/kg	869	45.2	1	12/07/18 14:28	12/10/18 17:16	75-00-3	
Chloroform	<43.4	ug/kg	86.9	43.4	1	12/07/18 14:28	12/10/18 17:16	67-66-3	
Chloromethane	<20.8	ug/kg	347	20.8	1	12/07/18 14:28	12/10/18 17:16	74-87-3	
Dibromochloromethane	<10.1	ug/kg	347	10.1	1	12/07/18 14:28	12/10/18 17:16	124-48-1	
Dibromomethane	<15.9	ug/kg	86.9	15.9	1	12/07/18 14:28	12/10/18 17:16	74-95-3	
Dichlorodifluoromethane	<28.1	ug/kg	347	28.1	1	12/07/18 14:28	12/10/18 17:16	75-71-8	
Dichlorofluoromethane	<120	ug/kg	869	120	1	12/07/18 14:28	12/10/18 17:16	75-43-4	N2
Diethyl ether (Ethyl ether)	<53.2	ug/kg	347	53.2	1	12/07/18 14:28	12/10/18 17:16	60-29-7	
Ethylbenzene	<4.7	ug/kg	86.9	4.7	1	12/07/18 14:28	12/10/18 17:16	100-41-4	
Hexachloro-1,3-butadiene	<21.2	ug/kg	434	21.2	1	12/07/18 14:28	12/10/18 17:16	87-68-3	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-5 (0.0-2.0)**      **Lab ID: 10457092009**      Collected: 11/27/18 08:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Isopropylbenzene (Cumene)	<3.9	ug/kg	86.9	3.9	1	12/07/18 14:28	12/10/18 17:16	98-82-8	
Methyl-tert-butyl ether	<10.3	ug/kg	86.9	10.3	1	12/07/18 14:28	12/10/18 17:16	1634-04-4	
Methylene Chloride	<163	ug/kg	347	163	1	12/07/18 14:28	12/10/18 17:16	75-09-2	
Naphthalene	<81.3	ug/kg	347	81.3	1	12/07/18 14:28	12/10/18 17:16	91-20-3	
Styrene	<4.0	ug/kg	86.9	4.0	1	12/07/18 14:28	12/10/18 17:16	100-42-5	
Tetrachloroethene	<30.6	ug/kg	86.9	30.6	1	12/07/18 14:28	12/10/18 17:16	127-18-4	
Tetrahydrofuran	<126	ug/kg	3470	126	1	12/07/18 14:28	12/10/18 17:16	109-99-9	
Toluene	<21.2	ug/kg	86.9	21.2	1	12/07/18 14:28	12/10/18 17:16	108-88-3	
Trichloroethene	<13.4	ug/kg	86.9	13.4	1	12/07/18 14:28	12/10/18 17:16	79-01-6	
Trichlorofluoromethane	<151	ug/kg	347	151	1	12/07/18 14:28	12/10/18 17:16	75-69-4	
Vinyl chloride	<17.1	ug/kg	86.9	17.1	1	12/07/18 14:28	12/10/18 17:16	75-01-4	
Xylene (Total)	<20.1	ug/kg	261	20.1	1	12/07/18 14:28	12/10/18 17:16	1330-20-7	
cis-1,2-Dichloroethene	<14.4	ug/kg	86.9	14.4	1	12/07/18 14:28	12/10/18 17:16	156-59-2	
cis-1,3-Dichloropropene	<12.4	ug/kg	86.9	12.4	1	12/07/18 14:28	12/10/18 17:16	10061-01-5	
n-Butylbenzene	<41.3	ug/kg	86.9	41.3	1	12/07/18 14:28	12/10/18 17:16	104-51-8	
n-Propylbenzene	<4.6	ug/kg	86.9	4.6	1	12/07/18 14:28	12/10/18 17:16	103-65-1	
p-Isopropyltoluene	<26.4	ug/kg	86.9	26.4	1	12/07/18 14:28	12/10/18 17:16	99-87-6	
sec-Butylbenzene	<16.6	ug/kg	86.9	16.6	1	12/07/18 14:28	12/10/18 17:16	135-98-8	
tert-Butylbenzene	<16.7	ug/kg	86.9	16.7	1	12/07/18 14:28	12/10/18 17:16	98-06-6	
trans-1,2-Dichloroethene	<40.6	ug/kg	86.9	40.6	1	12/07/18 14:28	12/10/18 17:16	156-60-5	
trans-1,3-Dichloropropene	<12.1	ug/kg	86.9	12.1	1	12/07/18 14:28	12/10/18 17:16	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/07/18 14:28	12/10/18 17:16	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/07/18 14:28	12/10/18 17:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/07/18 14:28	12/10/18 17:16	460-00-4	

**Sample: DP-5 (3.0-5.0)**      **Lab ID: 10457092010**      Collected: 11/27/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.1	ug/kg	47.0	13.1	1	12/03/18 19:42	12/05/18 21:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.5	ug/kg	47.0	16.5	1	12/03/18 19:42	12/05/18 21:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.8	ug/kg	47.0	18.8	1	12/03/18 19:42	12/05/18 21:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.9	ug/kg	47.0	15.9	1	12/03/18 19:42	12/05/18 21:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.1	ug/kg	47.0	14.1	1	12/03/18 19:42	12/05/18 21:23	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.8	ug/kg	47.0	13.8	1	12/03/18 19:42	12/05/18 21:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.2	ug/kg	47.0	11.2	1	12/03/18 19:42	12/05/18 21:23	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	70	%	48-125		1	12/03/18 19:42	12/05/18 21:23	877-09-8	
Decachlorobiphenyl (S)	72	%	30-134		1	12/03/18 19:42	12/05/18 21:23	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-5 (3.0-5.0)**      **Lab ID: 10457092010**      Collected: 11/27/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>&lt;3.5</b>	mg/kg	21.3	3.5	1	11/30/18 17:47	12/02/18 22:13	68334-30-5	
Motor Oil Range	<b>7.9J</b>	mg/kg	14.2	6.2	1	11/30/18 17:47	12/02/18 22:13		
<b>Surrogates</b>									
n-Triacontane (S)	92	%	50-150		1	11/30/18 17:47	12/02/18 22:13	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	11/30/18 17:47	12/02/18 22:13	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;1.2</b>	mg/kg	9.0	1.2	1	12/07/18 17:37	12/10/18 05:14		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	12/07/18 17:37	12/10/18 05:14	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.5</b>	mg/kg	6.7	2.5	5	12/06/18 08:15	12/11/18 11:02	7440-36-0	D3
Arsenic	<b>1.5J</b>	mg/kg	6.7	1.4	5	12/06/18 08:15	12/11/18 11:02	7440-38-2	D3
Beryllium	<b>0.10J</b>	mg/kg	1.7	0.090	5	12/06/18 08:15	12/11/18 11:02	7440-41-7	D3
Cadmium	<b>&lt;0.13</b>	mg/kg	1.0	0.13	5	12/06/18 08:15	12/11/18 11:02	7440-43-9	D3
Chromium	<b>9.2</b>	mg/kg	3.4	0.58	5	12/06/18 08:15	12/11/18 11:02	7440-47-3	
Copper	<b>14.3</b>	mg/kg	3.4	0.37	5	12/06/18 08:15	12/11/18 11:02	7440-50-8	
Lead	<b>4.9</b>	mg/kg	3.4	0.76	5	12/06/18 08:15	12/11/18 11:02	7439-92-1	
Nickel	<b>6.5J</b>	mg/kg	6.7	0.42	5	12/06/18 08:15	12/11/18 11:02	7440-02-0	D3
Selenium	<b>&lt;2.2</b>	mg/kg	6.7	2.2	5	12/06/18 08:15	12/11/18 11:02	7782-49-2	D3
Silver	<b>&lt;0.24</b>	mg/kg	3.4	0.24	5	12/06/18 08:15	12/11/18 11:02	7440-22-4	D3
Thallium	<b>3.3J</b>	mg/kg	6.7	1.5	5	12/06/18 08:15	12/11/18 11:02	7440-28-0	D3
Zinc	<b>37.6</b>	mg/kg	6.7	2.9	5	12/06/18 08:15	12/11/18 11:02	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	<b>0.13J</b>	mg/kg	0.14	0.047	20	12/05/19 07:35	12/05/19 23:28	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.010</b>	mg/kg	0.025	0.010	1	12/05/18 14:27	12/12/18 14:27	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>29.7</b>	%	0.10	0.10	1		12/11/18 14:48		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.76</b>	ug/kg	14.1	0.76	1	12/10/18 12:55	12/12/18 14:57	90-12-0	
2-Methylnaphthalene	<b>&lt;0.71</b>	ug/kg	14.1	0.71	1	12/10/18 12:55	12/12/18 14:57	91-57-6	
Acenaphthene	<b>&lt;0.58</b>	ug/kg	14.1	0.58	1	12/10/18 12:55	12/12/18 14:57	83-32-9	
Acenaphthylene	<b>&lt;0.70</b>	ug/kg	14.1	0.70	1	12/10/18 12:55	12/12/18 14:57	208-96-8	
Anthracene	<b>&lt;0.66</b>	ug/kg	14.1	0.66	1	12/10/18 12:55	12/12/18 14:57	120-12-7	
Benzo(a)anthracene	<b>&lt;1.5</b>	ug/kg	14.1	1.5	1	12/10/18 12:55	12/12/18 14:57	56-55-3	
Benzo(a)pyrene	<b>&lt;0.97</b>	ug/kg	14.1	0.97	1	12/10/18 12:55	12/12/18 14:57	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.53</b>	ug/kg	14.1	0.53	1	12/10/18 12:55	12/12/18 14:57	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.89</b>	ug/kg	14.1	0.89	1	12/10/18 12:55	12/12/18 14:57	191-24-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-5 (3.0-5.0)**      **Lab ID: 10457092010**      Collected: 11/27/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(k)fluoranthene	<1.2	ug/kg	14.1	1.2	1	12/10/18 12:55	12/12/18 14:57	207-08-9	
Chrysene	<1.9	ug/kg	14.1	1.9	1	12/10/18 12:55	12/12/18 14:57	218-01-9	
Dibenz(a,h)anthracene	<0.65	ug/kg	14.1	0.65	1	12/10/18 12:55	12/12/18 14:57	53-70-3	
Fluoranthene	1.9J	ug/kg	14.1	0.60	1	12/10/18 12:55	12/12/18 14:57	206-44-0	B,L2
Fluorene	<0.44	ug/kg	14.1	0.44	1	12/10/18 12:55	12/12/18 14:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.95	ug/kg	14.1	0.95	1	12/10/18 12:55	12/12/18 14:57	193-39-5	
Naphthalene	<1.1	ug/kg	14.1	1.1	1	12/10/18 12:55	12/12/18 14:57	91-20-3	
Phenanthrene	<2.7	ug/kg	14.1	2.7	1	12/10/18 12:55	12/12/18 14:57	85-01-8	
Pyrene	<2.2	ug/kg	14.1	2.2	1	12/10/18 12:55	12/12/18 14:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	30	%	42-125		1	12/10/18 12:55	12/12/18 14:57	321-60-8	H5,S0
p-Terphenyl-d14 (S)	71	%	57-125		1	12/10/18 12:55	12/12/18 14:57	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.32	ug/kg	5.6	0.32	1	02/26/19 09:24	02/26/19 16:50	106-93-4	
Methylene Chloride	<5.1	ug/kg	27.9	5.1	1	02/26/19 09:24	02/26/19 16:50	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/26/19 09:24	02/26/19 16:50	17060-07-0	6M,H3
Toluene-d8 (S)	91	%	75-125		1	02/26/19 09:24	02/26/19 16:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/26/19 09:24	02/26/19 16:50	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.7	ug/kg	81.9	25.7	1	12/07/18 14:28	12/10/18 17:34	630-20-6	
1,1,1-Trichloroethane	<38.2	ug/kg	81.9	38.2	1	12/07/18 14:28	12/10/18 17:34	71-55-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	327	14.4	1	12/07/18 14:28	12/10/18 17:34	79-34-5	
1,1,2-Trichloroethane	<9.8	ug/kg	81.9	9.8	1	12/07/18 14:28	12/10/18 17:34	79-00-5	
1,1,2-Trichlorotrifluoroethane	<95.0	ug/kg	327	95.0	1	12/07/18 14:28	12/10/18 17:34	76-13-1	
1,1-Dichloroethane	<9.2	ug/kg	81.9	9.2	1	12/07/18 14:28	12/10/18 17:34	75-34-3	
1,1-Dichloroethene	<24.6	ug/kg	327	24.6	1	12/07/18 14:28	12/10/18 17:34	75-35-4	
1,1-Dichloropropene	<37.8	ug/kg	81.9	37.8	1	12/07/18 14:28	12/10/18 17:34	563-58-6	
1,2,3-Trichlorobenzene	<13.1	ug/kg	81.9	13.1	1	12/07/18 14:28	12/10/18 17:34	87-61-6	
1,2,3-Trichloropropane	<21.4	ug/kg	327	21.4	1	12/07/18 14:28	12/10/18 17:34	96-18-4	
1,2,4-Trichlorobenzene	<18.2	ug/kg	81.9	18.2	1	12/07/18 14:28	12/10/18 17:34	120-82-1	
1,2,4-Trimethylbenzene	<16.4	ug/kg	81.9	16.4	1	12/07/18 14:28	12/10/18 17:34	95-63-6	
1,2-Dibromo-3-chloropropane	<285	ug/kg	819	285	1	12/07/18 14:28	12/10/18 17:34	96-12-8	
1,2-Dibromoethane (EDB)	<8.6	ug/kg	81.9	8.6	1	12/07/18 14:28	12/10/18 17:34	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	81.9	3.3	1	12/07/18 14:28	12/10/18 17:34	95-50-1	
1,2-Dichloroethane	<9.0	ug/kg	81.9	9.0	1	12/07/18 14:28	12/10/18 17:34	107-06-2	
1,2-Dichloropropane	<14.1	ug/kg	81.9	14.1	1	12/07/18 14:28	12/10/18 17:34	78-87-5	
1,3,5-Trimethylbenzene	<13.0	ug/kg	81.9	13.0	1	12/07/18 14:28	12/10/18 17:34	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	81.9	3.0	1	12/07/18 14:28	12/10/18 17:34	541-73-1	
1,3-Dichloropropane	<11.3	ug/kg	81.9	11.3	1	12/07/18 14:28	12/10/18 17:34	142-28-9	
1,4-Dichlorobenzene	<5.1	ug/kg	81.9	5.1	1	12/07/18 14:28	12/10/18 17:34	106-46-7	
2,2-Dichloropropane	<10.2	ug/kg	327	10.2	1	12/07/18 14:28	12/10/18 17:34	594-20-7	
2-Butanone (MEK)	<43.6	ug/kg	409	43.6	1	12/07/18 14:28	12/10/18 17:34	78-93-3	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-5 (3.0-5.0)**      **Lab ID: 10457092010**      Collected: 11/27/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Chlorotoluene	<4.0	ug/kg	81.9	4.0	1	12/07/18 14:28	12/10/18 17:34	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	81.9	4.2	1	12/07/18 14:28	12/10/18 17:34	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.0	ug/kg	409	17.0	1	12/07/18 14:28	12/10/18 17:34	108-10-1	
Acetone	<b>941J</b>	ug/kg	1640	509	1	12/07/18 14:28	12/10/18 17:34	67-64-1	B
Allyl chloride	<68.6	ug/kg	327	68.6	1	12/07/18 14:28	12/10/18 17:34	107-05-1	
Benzene	<4.6	ug/kg	32.7	4.6	1	12/07/18 14:28	12/10/18 17:34	71-43-2	
Bromobenzene	<5.0	ug/kg	81.9	5.0	1	12/07/18 14:28	12/10/18 17:34	108-86-1	
Bromochloromethane	<28.3	ug/kg	81.9	28.3	1	12/07/18 14:28	12/10/18 17:34	74-97-5	
Bromodichloromethane	<28.0	ug/kg	81.9	28.0	1	12/07/18 14:28	12/10/18 17:34	75-27-4	
Bromoform	<124	ug/kg	327	124	1	12/07/18 14:28	12/10/18 17:34	75-25-2	
Bromomethane	<95.8	ug/kg	819	95.8	1	12/07/18 14:28	12/10/18 17:34	74-83-9	
Carbon tetrachloride	<39.1	ug/kg	81.9	39.1	1	12/07/18 14:28	12/10/18 17:34	56-23-5	
Chlorobenzene	<4.6	ug/kg	81.9	4.6	1	12/07/18 14:28	12/10/18 17:34	108-90-7	
Chloroethane	<42.6	ug/kg	819	42.6	1	12/07/18 14:28	12/10/18 17:34	75-00-3	
Chloroform	<40.9	ug/kg	81.9	40.9	1	12/07/18 14:28	12/10/18 17:34	67-66-3	
Chloromethane	<19.6	ug/kg	327	19.6	1	12/07/18 14:28	12/10/18 17:34	74-87-3	
Dibromochloromethane	<9.5	ug/kg	327	9.5	1	12/07/18 14:28	12/10/18 17:34	124-48-1	
Dibromomethane	<15.0	ug/kg	81.9	15.0	1	12/07/18 14:28	12/10/18 17:34	74-95-3	
Dichlorodifluoromethane	<26.5	ug/kg	327	26.5	1	12/07/18 14:28	12/10/18 17:34	75-71-8	
Dichlorofluoromethane	<113	ug/kg	819	113	1	12/07/18 14:28	12/10/18 17:34	75-43-4	N2
Diethyl ether (Ethyl ether)	<50.1	ug/kg	327	50.1	1	12/07/18 14:28	12/10/18 17:34	60-29-7	
Ethylbenzene	<4.5	ug/kg	81.9	4.5	1	12/07/18 14:28	12/10/18 17:34	100-41-4	
Hexachloro-1,3-butadiene	<20.0	ug/kg	409	20.0	1	12/07/18 14:28	12/10/18 17:34	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	81.9	3.6	1	12/07/18 14:28	12/10/18 17:34	98-82-8	
Methyl-tert-butyl ether	<9.7	ug/kg	81.9	9.7	1	12/07/18 14:28	12/10/18 17:34	1634-04-4	
Methylene Chloride	<154	ug/kg	327	154	1	12/07/18 14:28	12/10/18 17:34	75-09-2	
Naphthalene	<76.6	ug/kg	327	76.6	1	12/07/18 14:28	12/10/18 17:34	91-20-3	
Styrene	<3.7	ug/kg	81.9	3.7	1	12/07/18 14:28	12/10/18 17:34	100-42-5	
Tetrachloroethene	<28.8	ug/kg	81.9	28.8	1	12/07/18 14:28	12/10/18 17:34	127-18-4	
Tetrahydrofuran	<119	ug/kg	3270	119	1	12/07/18 14:28	12/10/18 17:34	109-99-9	
Toluene	<20.0	ug/kg	81.9	20.0	1	12/07/18 14:28	12/10/18 17:34	108-88-3	
Trichloroethene	<12.6	ug/kg	81.9	12.6	1	12/07/18 14:28	12/10/18 17:34	79-01-6	
Trichlorofluoromethane	<143	ug/kg	327	143	1	12/07/18 14:28	12/10/18 17:34	75-69-4	
Vinyl chloride	<16.1	ug/kg	81.9	16.1	1	12/07/18 14:28	12/10/18 17:34	75-01-4	
Xylene (Total)	<19.0	ug/kg	246	19.0	1	12/07/18 14:28	12/10/18 17:34	1330-20-7	
cis-1,2-Dichloroethene	<13.6	ug/kg	81.9	13.6	1	12/07/18 14:28	12/10/18 17:34	156-59-2	
cis-1,3-Dichloropropene	<11.7	ug/kg	81.9	11.7	1	12/07/18 14:28	12/10/18 17:34	10061-01-5	
n-Butylbenzene	<39.0	ug/kg	81.9	39.0	1	12/07/18 14:28	12/10/18 17:34	104-51-8	
n-Propylbenzene	<4.4	ug/kg	81.9	4.4	1	12/07/18 14:28	12/10/18 17:34	103-65-1	
p-Isopropyltoluene	<24.9	ug/kg	81.9	24.9	1	12/07/18 14:28	12/10/18 17:34	99-87-6	
sec-Butylbenzene	<15.7	ug/kg	81.9	15.7	1	12/07/18 14:28	12/10/18 17:34	135-98-8	
tert-Butylbenzene	<15.7	ug/kg	81.9	15.7	1	12/07/18 14:28	12/10/18 17:34	98-06-6	
trans-1,2-Dichloroethene	<38.3	ug/kg	81.9	38.3	1	12/07/18 14:28	12/10/18 17:34	156-60-5	
trans-1,3-Dichloropropene	<11.4	ug/kg	81.9	11.4	1	12/07/18 14:28	12/10/18 17:34	10061-02-6	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-5 (3.0-5.0)**      **Lab ID: 10457092010**      Collected: 11/27/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	12/07/18 14:28	12/10/18 17:34	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/07/18 14:28	12/10/18 17:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/07/18 14:28	12/10/18 17:34	460-00-4	

**Sample: DP-6 (0.0-2.0)**      **Lab ID: 10457092011**      Collected: 11/27/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.8	ug/kg	42.3	11.8	1	12/03/18 19:42	12/05/18 21:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.9	ug/kg	42.3	14.9	1	12/03/18 19:42	12/05/18 21:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.9	ug/kg	42.3	16.9	1	12/03/18 19:42	12/05/18 21:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.3	ug/kg	42.3	14.3	1	12/03/18 19:42	12/05/18 21:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.7	ug/kg	42.3	12.7	1	12/03/18 19:42	12/05/18 21:39	12672-29-6	
PCB-1254 (Aroclor 1254)	5300	ug/kg	211	62.2	5	12/03/18 19:42	12/06/18 11:55	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.1	ug/kg	42.3	10.1	1	12/03/18 19:42	12/05/18 21:39	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	48-125		1	12/03/18 19:42	12/05/18 21:39	877-09-8	
Decachlorobiphenyl (S)	83	%	30-134		1	12/03/18 19:42	12/05/18 21:39	2051-24-3	

**NWTPH-Dx GCS**      Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	507	mg/kg	187	30.2	10	11/30/18 17:47	12/02/18 20:40	68334-30-5	D6
Motor Oil Range	833	mg/kg	124	54.0	10	11/30/18 17:47	12/02/18 20:40		D6
<b>Surrogates</b>									
n-Triacontane (S)	0	%	50-150		10	11/30/18 17:47	12/02/18 20:40	638-68-6	S4
o-Terphenyl (S)	0	%	50-150		10	11/30/18 17:47	12/02/18 20:40	84-15-1	S4

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	1.4J	mg/kg	7.9	1.0	1	12/07/18 17:37	12/10/18 06:23		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	12/07/18 17:37	12/10/18 06:23	98-08-8	

**6010D MET ICP, TCLP**      Analytical Method: EPA 6010D    Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 12/31/18 08:59    Initial pH: 9.04; Final pH: 1.92

Lead	0.64	mg/L	0.50	0.0098	1	12/31/18 09:55	01/02/19 09:10	7439-92-1	
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**6010D MET ICP**      Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	<2.3	mg/kg	6.2	2.3	5	12/06/18 08:15	12/11/18 11:04	7440-36-0	D3
Arsenic	5.2J	mg/kg	6.2	1.3	5	12/06/18 08:15	12/11/18 11:04	7440-38-2	D3
Beryllium	<0.083	mg/kg	1.5	0.083	5	12/06/18 08:15	12/11/18 11:04	7440-41-7	D3
Cadmium	6.3	mg/kg	0.92	0.12	5	12/06/18 08:15	12/11/18 11:04	7440-43-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-6 (0.0-2.0)**      **Lab ID: 10457092011**      Collected: 11/27/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Chromium	<b>60.1</b>	mg/kg	3.1	0.53	5	12/06/18 08:15	12/11/18 11:04	7440-47-3	
Copper	<b>336</b>	mg/kg	3.1	0.34	5	12/06/18 08:15	12/11/18 11:04	7440-50-8	
Lead	<b>865</b>	mg/kg	3.1	0.70	5	12/06/18 08:15	12/11/18 11:04	7439-92-1	
Nickel	<b>48.3</b>	mg/kg	6.2	0.39	5	12/06/18 08:15	12/11/18 11:04	7440-02-0	
Selenium	<b>&lt;2.0</b>	mg/kg	6.2	2.0	5	12/06/18 08:15	12/11/18 11:04	7782-49-2	D3
Silver	<b>&lt;0.22</b>	mg/kg	3.1	0.22	5	12/06/18 08:15	12/11/18 11:04	7440-22-4	D3
Thallium	<b>3.3J</b>	mg/kg	6.2	1.4	5	12/06/18 08:15	12/11/18 11:04	7440-28-0	D3
Zinc	<b>1690</b>	mg/kg	6.2	2.7	5	12/06/18 08:15	12/11/18 11:04	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>1.0</b>	mg/kg	0.043	0.017	2	12/05/18 14:27	12/12/18 14:59	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>22.0</b>	%	0.10	0.10	1		12/11/18 14:49		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;342</b>	ug/kg	6390	342	100	12/10/18 12:55	12/12/18 16:19	90-12-0	
2-Methylnaphthalene	<b>&lt;323</b>	ug/kg	6390	323	100	12/10/18 12:55	12/12/18 16:19	91-57-6	
Acenaphthene	<b>1840J</b>	ug/kg	6390	261	100	12/10/18 12:55	12/12/18 16:19	83-32-9	
Acenaphthylene	<b>&lt;316</b>	ug/kg	6390	316	100	12/10/18 12:55	12/12/18 16:19	208-96-8	
Anthracene	<b>6200J</b>	ug/kg	6390	299	100	12/10/18 12:55	12/12/18 16:19	120-12-7	
Benzo(a)anthracene	<b>20700</b>	ug/kg	6390	690	100	12/10/18 12:55	12/12/18 16:19	56-55-3	
Benzo(a)pyrene	<b>14200</b>	ug/kg	6390	439	100	12/10/18 12:55	12/12/18 16:19	50-32-8	
Benzo(b)fluoranthene	<b>19300</b>	ug/kg	6390	238	100	12/10/18 12:55	12/12/18 16:19	205-99-2	
Benzo(g,h,i)perylene	<b>9160</b>	ug/kg	6390	404	100	12/10/18 12:55	12/12/18 16:19	191-24-2	
Benzo(k)fluoranthene	<b>8310</b>	ug/kg	6390	540	100	12/10/18 12:55	12/12/18 16:19	207-08-9	
Chrysene	<b>18900</b>	ug/kg	6390	869	100	12/10/18 12:55	12/12/18 16:19	218-01-9	
Dibenz(a,h)anthracene	<b>1890J</b>	ug/kg	6390	295	100	12/10/18 12:55	12/12/18 16:19	53-70-3	
Fluoranthene	<b>42000</b>	ug/kg	6390	273	100	12/10/18 12:55	12/12/18 16:19	206-44-0	L2
Fluorene	<b>1970J</b>	ug/kg	6390	200	100	12/10/18 12:55	12/12/18 16:19	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>7440</b>	ug/kg	6390	428	100	12/10/18 12:55	12/12/18 16:19	193-39-5	
Naphthalene	<b>1040J</b>	ug/kg	6390	493	100	12/10/18 12:55	12/12/18 16:19	91-20-3	
Phenanthrene	<b>20100</b>	ug/kg	6390	1230	100	12/10/18 12:55	12/12/18 16:19	85-01-8	
Pyrene	<b>37000</b>	ug/kg	6390	978	100	12/10/18 12:55	12/12/18 16:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	42-125		100	12/10/18 12:55	12/12/18 16:19	321-60-8	P3,S4
p-Terphenyl-d14 (S)	0	%	57-125		100	12/10/18 12:55	12/12/18 16:19	1718-51-0	S4
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.27</b>	ug/kg	4.8	0.27	1	02/26/19 09:24	02/26/19 17:09	106-93-4	
Methylene Chloride	<b>&lt;4.4</b>	ug/kg	24.1	4.4	1	02/26/19 09:24	02/26/19 17:09	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	02/26/19 09:24	02/26/19 17:09	17060-07-0	4M,H3
Toluene-d8 (S)	93	%	75-125		1	02/26/19 09:24	02/26/19 17:09	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	02/26/19 09:24	02/26/19 17:09	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-6 (0.0-2.0)**      **Lab ID: 10457092011**      Collected: 11/27/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<21.1	ug/kg	67.0	21.1	1	12/07/18 14:28	12/10/18 17:53	630-20-6	
1,1,1-Trichloroethane	<31.2	ug/kg	67.0	31.2	1	12/07/18 14:28	12/10/18 17:53	71-55-6	
1,1,2,2-Tetrachloroethane	<11.8	ug/kg	268	11.8	1	12/07/18 14:28	12/10/18 17:53	79-34-5	
1,1,2-Trichloroethane	<8.0	ug/kg	67.0	8.0	1	12/07/18 14:28	12/10/18 17:53	79-00-5	
1,1,2-Trichlorotrifluoroethane	<77.8	ug/kg	268	77.8	1	12/07/18 14:28	12/10/18 17:53	76-13-1	
1,1-Dichloroethane	<7.5	ug/kg	67.0	7.5	1	12/07/18 14:28	12/10/18 17:53	75-34-3	
1,1-Dichloroethene	<20.1	ug/kg	268	20.1	1	12/07/18 14:28	12/10/18 17:53	75-35-4	
1,1-Dichloropropene	<31.0	ug/kg	67.0	31.0	1	12/07/18 14:28	12/10/18 17:53	563-58-6	
1,2,3-Trichlorobenzene	<10.7	ug/kg	67.0	10.7	1	12/07/18 14:28	12/10/18 17:53	87-61-6	
1,2,3-Trichloropropane	<17.6	ug/kg	268	17.6	1	12/07/18 14:28	12/10/18 17:53	96-18-4	
1,2,4-Trichlorobenzene	<14.9	ug/kg	67.0	14.9	1	12/07/18 14:28	12/10/18 17:53	120-82-1	
1,2,4-Trimethylbenzene	<13.4	ug/kg	67.0	13.4	1	12/07/18 14:28	12/10/18 17:53	95-63-6	
1,2-Dibromo-3-chloropropane	<233	ug/kg	670	233	1	12/07/18 14:28	12/10/18 17:53	96-12-8	
1,2-Dibromoethane (EDB)	<7.1	ug/kg	67.0	7.1	1	12/07/18 14:28	12/10/18 17:53	106-93-4	
1,2-Dichlorobenzene	<2.7	ug/kg	67.0	2.7	1	12/07/18 14:28	12/10/18 17:53	95-50-1	
1,2-Dichloroethane	<7.4	ug/kg	67.0	7.4	1	12/07/18 14:28	12/10/18 17:53	107-06-2	
1,2-Dichloropropane	<11.6	ug/kg	67.0	11.6	1	12/07/18 14:28	12/10/18 17:53	78-87-5	
1,3,5-Trimethylbenzene	<10.7	ug/kg	67.0	10.7	1	12/07/18 14:28	12/10/18 17:53	108-67-8	
1,3-Dichlorobenzene	<2.4	ug/kg	67.0	2.4	1	12/07/18 14:28	12/10/18 17:53	541-73-1	
1,3-Dichloropropane	<9.3	ug/kg	67.0	9.3	1	12/07/18 14:28	12/10/18 17:53	142-28-9	
1,4-Dichlorobenzene	<4.2	ug/kg	67.0	4.2	1	12/07/18 14:28	12/10/18 17:53	106-46-7	
2,2-Dichloropropane	<8.4	ug/kg	268	8.4	1	12/07/18 14:28	12/10/18 17:53	594-20-7	
2-Butanone (MEK)	<35.7	ug/kg	335	35.7	1	12/07/18 14:28	12/10/18 17:53	78-93-3	
2-Chlorotoluene	<3.3	ug/kg	67.0	3.3	1	12/07/18 14:28	12/10/18 17:53	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	67.0	3.4	1	12/07/18 14:28	12/10/18 17:53	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.9	ug/kg	335	13.9	1	12/07/18 14:28	12/10/18 17:53	108-10-1	
Acetone	<417	ug/kg	1340	417	1	12/07/18 14:28	12/10/18 17:53	67-64-1	
Allyl chloride	<56.2	ug/kg	268	56.2	1	12/07/18 14:28	12/10/18 17:53	107-05-1	
Benzene	<3.8	ug/kg	26.8	3.8	1	12/07/18 14:28	12/10/18 17:53	71-43-2	
Bromobenzene	<4.1	ug/kg	67.0	4.1	1	12/07/18 14:28	12/10/18 17:53	108-86-1	
Bromochloromethane	<23.2	ug/kg	67.0	23.2	1	12/07/18 14:28	12/10/18 17:53	74-97-5	
Bromodichloromethane	<22.9	ug/kg	67.0	22.9	1	12/07/18 14:28	12/10/18 17:53	75-27-4	
Bromoform	<102	ug/kg	268	102	1	12/07/18 14:28	12/10/18 17:53	75-25-2	
Bromomethane	<78.4	ug/kg	670	78.4	1	12/07/18 14:28	12/10/18 17:53	74-83-9	
Carbon tetrachloride	<32.0	ug/kg	67.0	32.0	1	12/07/18 14:28	12/10/18 17:53	56-23-5	
Chlorobenzene	<3.8	ug/kg	67.0	3.8	1	12/07/18 14:28	12/10/18 17:53	108-90-7	
Chloroethane	<34.9	ug/kg	670	34.9	1	12/07/18 14:28	12/10/18 17:53	75-00-3	
Chloroform	<33.5	ug/kg	67.0	33.5	1	12/07/18 14:28	12/10/18 17:53	67-66-3	
Chloromethane	<16.1	ug/kg	268	16.1	1	12/07/18 14:28	12/10/18 17:53	74-87-3	
Dibromochloromethane	<7.8	ug/kg	268	7.8	1	12/07/18 14:28	12/10/18 17:53	124-48-1	
Dibromomethane	<12.3	ug/kg	67.0	12.3	1	12/07/18 14:28	12/10/18 17:53	74-95-3	
Dichlorodifluoromethane	<21.7	ug/kg	268	21.7	1	12/07/18 14:28	12/10/18 17:53	75-71-8	
Dichlorofluoromethane	<92.7	ug/kg	670	92.7	1	12/07/18 14:28	12/10/18 17:53	75-43-4	N2
Diethyl ether (Ethyl ether)	<41.0	ug/kg	268	41.0	1	12/07/18 14:28	12/10/18 17:53	60-29-7	
Ethylbenzene	<3.6	ug/kg	67.0	3.6	1	12/07/18 14:28	12/10/18 17:53	100-41-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-6 (0.0-2.0)**      **Lab ID: 10457092011**      Collected: 11/27/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Hexachloro-1,3-butadiene	<16.4	ug/kg	335	16.4	1	12/07/18 14:28	12/10/18 17:53	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/kg	67.0	3.0	1	12/07/18 14:28	12/10/18 17:53	98-82-8	
Methyl-tert-butyl ether	<8.0	ug/kg	67.0	8.0	1	12/07/18 14:28	12/10/18 17:53	1634-04-4	
Methylene Chloride	<126	ug/kg	268	126	1	12/07/18 14:28	12/10/18 17:53	75-09-2	
Naphthalene	71.6J	ug/kg	268	62.8	1	12/07/18 14:28	12/10/18 17:53	91-20-3	
Styrene	<3.1	ug/kg	67.0	3.1	1	12/07/18 14:28	12/10/18 17:53	100-42-5	
Tetrachloroethene	<23.6	ug/kg	67.0	23.6	1	12/07/18 14:28	12/10/18 17:53	127-18-4	
Tetrahydrofuran	<97.5	ug/kg	2680	97.5	1	12/07/18 14:28	12/10/18 17:53	109-99-9	
Toluene	<16.4	ug/kg	67.0	16.4	1	12/07/18 14:28	12/10/18 17:53	108-88-3	
Trichloroethene	<10.3	ug/kg	67.0	10.3	1	12/07/18 14:28	12/10/18 17:53	79-01-6	
Trichlorofluoromethane	<117	ug/kg	268	117	1	12/07/18 14:28	12/10/18 17:53	75-69-4	
Vinyl chloride	<13.2	ug/kg	67.0	13.2	1	12/07/18 14:28	12/10/18 17:53	75-01-4	
Xylene (Total)	<15.6	ug/kg	201	15.6	1	12/07/18 14:28	12/10/18 17:53	1330-20-7	
cis-1,2-Dichloroethene	<11.1	ug/kg	67.0	11.1	1	12/07/18 14:28	12/10/18 17:53	156-59-2	
cis-1,3-Dichloropropene	<9.6	ug/kg	67.0	9.6	1	12/07/18 14:28	12/10/18 17:53	10061-01-5	
n-Butylbenzene	<31.9	ug/kg	67.0	31.9	1	12/07/18 14:28	12/10/18 17:53	104-51-8	
n-Propylbenzene	<3.6	ug/kg	67.0	3.6	1	12/07/18 14:28	12/10/18 17:53	103-65-1	
p-Isopropyltoluene	<20.4	ug/kg	67.0	20.4	1	12/07/18 14:28	12/10/18 17:53	99-87-6	
sec-Butylbenzene	<12.8	ug/kg	67.0	12.8	1	12/07/18 14:28	12/10/18 17:53	135-98-8	
tert-Butylbenzene	<12.9	ug/kg	67.0	12.9	1	12/07/18 14:28	12/10/18 17:53	98-06-6	
trans-1,2-Dichloroethene	<31.4	ug/kg	67.0	31.4	1	12/07/18 14:28	12/10/18 17:53	156-60-5	
trans-1,3-Dichloropropene	<9.3	ug/kg	67.0	9.3	1	12/07/18 14:28	12/10/18 17:53	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	12/07/18 14:28	12/10/18 17:53	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/07/18 14:28	12/10/18 17:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/07/18 14:28	12/10/18 17:53	460-00-4	

**Sample: DP-6 (3.0-5.0)**      **Lab ID: 10457092012**      Collected: 11/27/18 09:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<12.4	ug/kg	44.5	12.4	1	12/03/18 19:42	12/05/18 21:55	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	44.5	15.6	1	12/03/18 19:42	12/05/18 21:55	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.8	ug/kg	44.5	17.8	1	12/03/18 19:42	12/05/18 21:55	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.1	ug/kg	44.5	15.1	1	12/03/18 19:42	12/05/18 21:55	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.3	ug/kg	44.5	13.3	1	12/03/18 19:42	12/05/18 21:55	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.1	ug/kg	44.5	13.1	1	12/03/18 19:42	12/05/18 21:55	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.6	ug/kg	44.5	10.6	1	12/03/18 19:42	12/05/18 21:55	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/03/18 19:42	12/05/18 21:55	877-09-8	
Decachlorobiphenyl (S)	86	%	30-134		1	12/03/18 19:42	12/05/18 21:55	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-6 (3.0-5.0)**      **Lab ID: 10457092012**      Collected: 11/27/18 09:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>4.8J</b>	mg/kg	20.0	3.2	1	11/30/18 17:47	12/02/18 21:08	68334-30-5	
Motor Oil Range	<b>14.1</b>	mg/kg	13.3	5.8	1	11/30/18 17:47	12/02/18 21:08		
<b>Surrogates</b>									
n-Triacontane (S)	92	%	50-150		1	11/30/18 17:47	12/02/18 21:08	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	11/30/18 17:47	12/02/18 21:08	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>2.5J</b>	mg/kg	8.1	1.1	1	12/07/18 17:37	12/10/18 06:40		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	96	%	50-150		1	12/07/18 17:37	12/10/18 06:40	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.4</b>	mg/kg	6.4	2.4	5	12/06/18 08:15	12/11/18 11:06	7440-36-0	D3
Arsenic	<b>1.7J</b>	mg/kg	6.4	1.3	5	12/06/18 08:15	12/11/18 11:06	7440-38-2	D3
Beryllium	<b>&lt;0.086</b>	mg/kg	1.6	0.086	5	12/06/18 08:15	12/11/18 11:06	7440-41-7	D3
Cadmium	<b>0.14J</b>	mg/kg	0.96	0.13	5	12/06/18 08:15	12/11/18 11:06	7440-43-9	D3
Chromium	<b>10.4</b>	mg/kg	3.2	0.55	5	12/06/18 08:15	12/11/18 11:06	7440-47-3	
Copper	<b>16.6</b>	mg/kg	3.2	0.36	5	12/06/18 08:15	12/11/18 11:06	7440-50-8	
Lead	<b>40.5</b>	mg/kg	3.2	0.72	5	12/06/18 08:15	12/11/18 11:06	7439-92-1	
Nickel	<b>7.0</b>	mg/kg	6.4	0.40	5	12/06/18 08:15	12/11/18 11:06	7440-02-0	
Selenium	<b>&lt;2.1</b>	mg/kg	6.4	2.1	5	12/06/18 08:15	12/11/18 11:06	7782-49-2	D3
Silver	<b>&lt;0.23</b>	mg/kg	3.2	0.23	5	12/06/18 08:15	12/11/18 11:06	7440-22-4	D3
Thallium	<b>5.1J</b>	mg/kg	6.4	1.5	5	12/06/18 08:15	12/11/18 11:06	7440-28-0	D3
Zinc	<b>62.9</b>	mg/kg	6.4	2.8	5	12/06/18 08:15	12/11/18 11:06	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	<b>0.13J</b>	mg/kg	0.13	0.044	20	12/05/19 07:35	12/05/19 23:31	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.0091</b>	mg/kg	0.023	0.0091	1	12/05/18 14:27	12/12/18 14:33	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>26.3</b>	%	0.10	0.10	1		12/11/18 15:24		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.72</b>	ug/kg	13.5	0.72	1	12/10/18 12:55	12/12/18 15:18	90-12-0	
2-Methylnaphthalene	<b>&lt;0.68</b>	ug/kg	13.5	0.68	1	12/10/18 12:55	12/12/18 15:18	91-57-6	
Acenaphthene	<b>2.6J</b>	ug/kg	13.5	0.55	1	12/10/18 12:55	12/12/18 15:18	83-32-9	
Acenaphthylene	<b>&lt;0.67</b>	ug/kg	13.5	0.67	1	12/10/18 12:55	12/12/18 15:18	208-96-8	
Anthracene	<b>10.6J</b>	ug/kg	13.5	0.63	1	12/10/18 12:55	12/12/18 15:18	120-12-7	
Benzo(a)anthracene	<b>47.7</b>	ug/kg	13.5	1.5	1	12/10/18 12:55	12/12/18 15:18	56-55-3	
Benzo(a)pyrene	<b>42.5</b>	ug/kg	13.5	0.93	1	12/10/18 12:55	12/12/18 15:18	50-32-8	
Benzo(b)fluoranthene	<b>56.7</b>	ug/kg	13.5	0.50	1	12/10/18 12:55	12/12/18 15:18	205-99-2	
Benzo(g,h,i)perylene	<b>28.7</b>	ug/kg	13.5	0.85	1	12/10/18 12:55	12/12/18 15:18	191-24-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-6 (3.0-5.0)**      **Lab ID: 10457092012**      Collected: 11/27/18 09:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Benzo(k)fluoranthene	23.9	ug/kg	13.5	1.1	1	12/10/18 12:55	12/12/18 15:18	207-08-9	
Chrysene	45.7	ug/kg	13.5	1.8	1	12/10/18 12:55	12/12/18 15:18	218-01-9	
Dibenz(a,h)anthracene	8.1J	ug/kg	13.5	0.62	1	12/10/18 12:55	12/12/18 15:18	53-70-3	
Fluoranthene	82.8	ug/kg	13.5	0.58	1	12/10/18 12:55	12/12/18 15:18	206-44-0	L2
Fluorene	3.2J	ug/kg	13.5	0.42	1	12/10/18 12:55	12/12/18 15:18	86-73-7	
Indeno(1,2,3-cd)pyrene	25.7	ug/kg	13.5	0.90	1	12/10/18 12:55	12/12/18 15:18	193-39-5	
Naphthalene	<1.0	ug/kg	13.5	1.0	1	12/10/18 12:55	12/12/18 15:18	91-20-3	
Phenanthrene	31.5	ug/kg	13.5	2.6	1	12/10/18 12:55	12/12/18 15:18	85-01-8	
Pyrene	71.7	ug/kg	13.5	2.1	1	12/10/18 12:55	12/12/18 15:18	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	41	%	42-125		1	12/10/18 12:55	12/12/18 15:18	321-60-8	2M,S0
p-Terphenyl-d14 (S)	70	%	57-125		1	12/10/18 12:55	12/12/18 15:18	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.3	0.30	1	02/26/19 09:24	02/26/19 17:28	106-93-4	
Methylene Chloride	<4.9	ug/kg	26.7	4.9	1	02/26/19 09:24	02/26/19 17:28	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	02/26/19 09:24	02/26/19 17:28	17060-07-0	6M,H3
Toluene-d8 (S)	91	%	75-125		1	02/26/19 09:24	02/26/19 17:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/26/19 09:24	02/26/19 17:28	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<21.5	ug/kg	68.6	21.5	1	12/07/18 14:28	12/10/18 18:12	630-20-6	
1,1,1-Trichloroethane	<32.0	ug/kg	68.6	32.0	1	12/07/18 14:28	12/10/18 18:12	71-55-6	
1,1,1,2,2-Tetrachloroethane	<12.1	ug/kg	275	12.1	1	12/07/18 14:28	12/10/18 18:12	79-34-5	
1,1,2-Trichloroethane	<8.2	ug/kg	68.6	8.2	1	12/07/18 14:28	12/10/18 18:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	<79.6	ug/kg	275	79.6	1	12/07/18 14:28	12/10/18 18:12	76-13-1	
1,1-Dichloroethane	<7.7	ug/kg	68.6	7.7	1	12/07/18 14:28	12/10/18 18:12	75-34-3	
1,1-Dichloroethene	<20.6	ug/kg	275	20.6	1	12/07/18 14:28	12/10/18 18:12	75-35-4	
1,1-Dichloropropene	<31.7	ug/kg	68.6	31.7	1	12/07/18 14:28	12/10/18 18:12	563-58-6	
1,2,3-Trichlorobenzene	<11.0	ug/kg	68.6	11.0	1	12/07/18 14:28	12/10/18 18:12	87-61-6	
1,2,3-Trichloropropane	<18.0	ug/kg	275	18.0	1	12/07/18 14:28	12/10/18 18:12	96-18-4	
1,2,4-Trichlorobenzene	<15.2	ug/kg	68.6	15.2	1	12/07/18 14:28	12/10/18 18:12	120-82-1	
1,2,4-Trimethylbenzene	<13.7	ug/kg	68.6	13.7	1	12/07/18 14:28	12/10/18 18:12	95-63-6	
1,2-Dibromo-3-chloropropane	<239	ug/kg	686	239	1	12/07/18 14:28	12/10/18 18:12	96-12-8	
1,2-Dibromoethane (EDB)	<7.2	ug/kg	68.6	7.2	1	12/07/18 14:28	12/10/18 18:12	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/kg	68.6	2.8	1	12/07/18 14:28	12/10/18 18:12	95-50-1	
1,2-Dichloroethane	<7.5	ug/kg	68.6	7.5	1	12/07/18 14:28	12/10/18 18:12	107-06-2	
1,2-Dichloropropane	<11.8	ug/kg	68.6	11.8	1	12/07/18 14:28	12/10/18 18:12	78-87-5	
1,3,5-Trimethylbenzene	<10.9	ug/kg	68.6	10.9	1	12/07/18 14:28	12/10/18 18:12	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/kg	68.6	2.5	1	12/07/18 14:28	12/10/18 18:12	541-73-1	
1,3-Dichloropropane	<9.5	ug/kg	68.6	9.5	1	12/07/18 14:28	12/10/18 18:12	142-28-9	
1,4-Dichlorobenzene	<4.3	ug/kg	68.6	4.3	1	12/07/18 14:28	12/10/18 18:12	106-46-7	
2,2-Dichloropropane	<8.6	ug/kg	275	8.6	1	12/07/18 14:28	12/10/18 18:12	594-20-7	
2-Butanone (MEK)	<36.5	ug/kg	343	36.5	1	12/07/18 14:28	12/10/18 18:12	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-6 (3.0-5.0)**      **Lab ID: 10457092012**      Collected: 11/27/18 09:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Chlorotoluene	<3.4	ug/kg	68.6	3.4	1	12/07/18 14:28	12/10/18 18:12	95-49-8	
4-Chlorotoluene	<3.5	ug/kg	68.6	3.5	1	12/07/18 14:28	12/10/18 18:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.3	ug/kg	343	14.3	1	12/07/18 14:28	12/10/18 18:12	108-10-1	
Acetone	904J	ug/kg	1370	427	1	12/07/18 14:28	12/10/18 18:12	67-64-1	B
Allyl chloride	<57.5	ug/kg	275	57.5	1	12/07/18 14:28	12/10/18 18:12	107-05-1	
Benzene	<3.9	ug/kg	27.5	3.9	1	12/07/18 14:28	12/10/18 18:12	71-43-2	
Bromobenzene	<4.2	ug/kg	68.6	4.2	1	12/07/18 14:28	12/10/18 18:12	108-86-1	
Bromochloromethane	<23.7	ug/kg	68.6	23.7	1	12/07/18 14:28	12/10/18 18:12	74-97-5	
Bromodichloromethane	<23.5	ug/kg	68.6	23.5	1	12/07/18 14:28	12/10/18 18:12	75-27-4	
Bromoform	<104	ug/kg	275	104	1	12/07/18 14:28	12/10/18 18:12	75-25-2	
Bromomethane	<80.3	ug/kg	686	80.3	1	12/07/18 14:28	12/10/18 18:12	74-83-9	
Carbon tetrachloride	<32.8	ug/kg	68.6	32.8	1	12/07/18 14:28	12/10/18 18:12	56-23-5	
Chlorobenzene	<3.9	ug/kg	68.6	3.9	1	12/07/18 14:28	12/10/18 18:12	108-90-7	
Chloroethane	<35.7	ug/kg	686	35.7	1	12/07/18 14:28	12/10/18 18:12	75-00-3	
Chloroform	<34.3	ug/kg	68.6	34.3	1	12/07/18 14:28	12/10/18 18:12	67-66-3	
Chloromethane	<16.5	ug/kg	275	16.5	1	12/07/18 14:28	12/10/18 18:12	74-87-3	
Dibromochloromethane	<8.0	ug/kg	275	8.0	1	12/07/18 14:28	12/10/18 18:12	124-48-1	
Dibromomethane	<12.6	ug/kg	68.6	12.6	1	12/07/18 14:28	12/10/18 18:12	74-95-3	
Dichlorodifluoromethane	<22.2	ug/kg	275	22.2	1	12/07/18 14:28	12/10/18 18:12	75-71-8	
Dichlorofluoromethane	<94.8	ug/kg	686	94.8	1	12/07/18 14:28	12/10/18 18:12	75-43-4	N2
Diethyl ether (Ethyl ether)	<42.0	ug/kg	275	42.0	1	12/07/18 14:28	12/10/18 18:12	60-29-7	
Ethylbenzene	<3.7	ug/kg	68.6	3.7	1	12/07/18 14:28	12/10/18 18:12	100-41-4	
Hexachloro-1,3-butadiene	<16.7	ug/kg	343	16.7	1	12/07/18 14:28	12/10/18 18:12	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/kg	68.6	3.0	1	12/07/18 14:28	12/10/18 18:12	98-82-8	
Methyl-tert-butyl ether	<8.2	ug/kg	68.6	8.2	1	12/07/18 14:28	12/10/18 18:12	1634-04-4	
Methylene Chloride	<129	ug/kg	275	129	1	12/07/18 14:28	12/10/18 18:12	75-09-2	
Naphthalene	<64.2	ug/kg	275	64.2	1	12/07/18 14:28	12/10/18 18:12	91-20-3	
Styrene	<3.1	ug/kg	68.6	3.1	1	12/07/18 14:28	12/10/18 18:12	100-42-5	
Tetrachloroethene	<24.2	ug/kg	68.6	24.2	1	12/07/18 14:28	12/10/18 18:12	127-18-4	
Tetrahydrofuran	<99.8	ug/kg	2750	99.8	1	12/07/18 14:28	12/10/18 18:12	109-99-9	
Toluene	<16.7	ug/kg	68.6	16.7	1	12/07/18 14:28	12/10/18 18:12	108-88-3	
Trichloroethene	<10.6	ug/kg	68.6	10.6	1	12/07/18 14:28	12/10/18 18:12	79-01-6	
Trichlorofluoromethane	<120	ug/kg	275	120	1	12/07/18 14:28	12/10/18 18:12	75-69-4	
Vinyl chloride	<13.5	ug/kg	68.6	13.5	1	12/07/18 14:28	12/10/18 18:12	75-01-4	
Xylene (Total)	<15.9	ug/kg	206	15.9	1	12/07/18 14:28	12/10/18 18:12	1330-20-7	
cis-1,2-Dichloroethene	<11.4	ug/kg	68.6	11.4	1	12/07/18 14:28	12/10/18 18:12	156-59-2	
cis-1,3-Dichloropropene	<9.8	ug/kg	68.6	9.8	1	12/07/18 14:28	12/10/18 18:12	10061-01-5	
n-Butylbenzene	<32.7	ug/kg	68.6	32.7	1	12/07/18 14:28	12/10/18 18:12	104-51-8	
n-Propylbenzene	<3.7	ug/kg	68.6	3.7	1	12/07/18 14:28	12/10/18 18:12	103-65-1	
p-Isopropyltoluene	<20.9	ug/kg	68.6	20.9	1	12/07/18 14:28	12/10/18 18:12	99-87-6	
sec-Butylbenzene	<13.1	ug/kg	68.6	13.1	1	12/07/18 14:28	12/10/18 18:12	135-98-8	
tert-Butylbenzene	<13.2	ug/kg	68.6	13.2	1	12/07/18 14:28	12/10/18 18:12	98-06-6	
trans-1,2-Dichloroethene	<32.1	ug/kg	68.6	32.1	1	12/07/18 14:28	12/10/18 18:12	156-60-5	
trans-1,3-Dichloropropene	<9.5	ug/kg	68.6	9.5	1	12/07/18 14:28	12/10/18 18:12	10061-02-6	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-6 (3.0-5.0)**      **Lab ID: 10457092012**      Collected: 11/27/18 09:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/07/18 14:28	12/10/18 18:12	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	12/07/18 14:28	12/10/18 18:12	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/07/18 14:28	12/10/18 18:12	460-00-4	

**Sample: DP-7 (0.0-2.0)**      **Lab ID: 10457092013**      Collected: 11/27/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.0	ug/kg	42.9	12.0	1	12/03/18 19:42	12/05/18 22:11	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.1	ug/kg	42.9	15.1	1	12/03/18 19:42	12/05/18 22:11	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.2	ug/kg	42.9	17.2	1	12/03/18 19:42	12/05/18 22:11	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.6	ug/kg	42.9	14.6	1	12/03/18 19:42	12/05/18 22:11	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.9	ug/kg	42.9	12.9	1	12/03/18 19:42	12/05/18 22:11	12672-29-6	
PCB-1254 (Aroclor 1254)	798	ug/kg	42.9	12.6	1	12/03/18 19:42	12/05/18 22:11	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.3	ug/kg	42.9	10.3	1	12/03/18 19:42	12/05/18 22:11	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	85	%	48-125		1	12/03/18 19:42	12/05/18 22:11	877-09-8	
Decachlorobiphenyl (S)	99	%	30-134		1	12/03/18 19:42	12/05/18 22:11	2051-24-3	

**NWTPH-Dx GCS**      Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	58.9	mg/kg	19.5	3.2	1	11/30/18 17:47	12/02/18 20:59	68334-30-5	
Motor Oil Range	168	mg/kg	13.0	5.7	1	11/30/18 17:47	12/02/18 20:59		
<b>Surrogates</b>									
n-Triacontane (S)	91	%	50-150		1	11/30/18 17:47	12/02/18 20:59	638-68-6	
o-Terphenyl (S)	100	%	50-150		1	11/30/18 17:47	12/02/18 20:59	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<1.1	mg/kg	8.1	1.1	1	12/07/18 17:37	12/10/18 06:57		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	113	%	50-150		1	12/07/18 17:37	12/10/18 06:57	98-08-8	

**6010D MET ICP**      Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	2.9J	mg/kg	5.9	2.2	5	12/06/18 08:15	12/11/18 11:07	7440-36-0	D3
Arsenic	2.7J	mg/kg	5.9	1.2	5	12/06/18 08:15	12/11/18 11:07	7440-38-2	D3
Beryllium	<0.079	mg/kg	1.5	0.079	5	12/06/18 08:15	12/11/18 11:07	7440-41-7	D3
Cadmium	1.4	mg/kg	0.89	0.12	5	12/06/18 08:15	12/11/18 11:07	7440-43-9	
Chromium	12.4	mg/kg	3.0	0.51	5	12/06/18 08:15	12/11/18 11:07	7440-47-3	
Copper	113	mg/kg	3.0	0.33	5	12/06/18 08:15	12/11/18 11:07	7440-50-8	
Lead	107	mg/kg	3.0	0.67	5	12/06/18 08:15	12/11/18 11:07	7439-92-1	
Nickel	13.3	mg/kg	5.9	0.37	5	12/06/18 08:15	12/11/18 11:07	7440-02-0	
Selenium	<1.9	mg/kg	5.9	1.9	5	12/06/18 08:15	12/11/18 11:07	7782-49-2	D3

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-7 (0.0-2.0)**      **Lab ID: 10457092013**      Collected: 11/27/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Silver	<0.21	mg/kg	3.0	0.21	5	12/06/18 08:15	12/11/18 11:07	7440-22-4	D3
Thallium	3.5J	mg/kg	5.9	1.4	5	12/06/18 08:15	12/11/18 11:07	7440-28-0	D3
Zinc	223	mg/kg	5.9	2.6	5	12/06/18 08:15	12/11/18 11:07	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.28	mg/kg	0.026	0.010	1	12/05/18 14:27	12/12/18 14:40	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.2	%	0.10	0.10	1		12/11/18 15:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.0	0.70	1	12/10/18 12:55	12/14/18 13:36	90-12-0	
2-Methylnaphthalene	<0.66	ug/kg	13.0	0.66	1	12/10/18 12:55	12/14/18 13:36	91-57-6	
Acenaphthene	1.5J	ug/kg	13.0	0.53	1	12/10/18 12:55	12/14/18 13:36	83-32-9	
Acenaphthylene	<0.64	ug/kg	13.0	0.64	1	12/10/18 12:55	12/14/18 13:36	208-96-8	
Anthracene	6.2J	ug/kg	13.0	0.61	1	12/10/18 12:55	12/14/18 13:36	120-12-7	
Benzo(a)anthracene	14.5	ug/kg	13.0	1.4	1	12/10/18 12:55	12/14/18 13:36	56-55-3	
Benzo(a)pyrene	13.4	ug/kg	13.0	0.89	1	12/10/18 12:55	12/14/18 13:36	50-32-8	
Benzo(b)fluoranthene	18.2	ug/kg	13.0	0.49	1	12/10/18 12:55	12/14/18 13:36	205-99-2	
Benzo(g,h,i)perylene	10.6J	ug/kg	13.0	0.82	1	12/10/18 12:55	12/14/18 13:36	191-24-2	
Benzo(k)fluoranthene	7.5J	ug/kg	13.0	1.1	1	12/10/18 12:55	12/14/18 13:36	207-08-9	
Chrysene	15.3	ug/kg	13.0	1.8	1	12/10/18 12:55	12/14/18 13:36	218-01-9	
Dibenz(a,h)anthracene	2.0J	ug/kg	13.0	0.60	1	12/10/18 12:55	12/14/18 13:36	53-70-3	
Fluoranthene	27.6	ug/kg	13.0	0.56	1	12/10/18 12:55	12/14/18 13:36	206-44-0	L2
Fluorene	1.2J	ug/kg	13.0	0.41	1	12/10/18 12:55	12/14/18 13:36	86-73-7	
Indeno(1,2,3-cd)pyrene	8.4J	ug/kg	13.0	0.87	1	12/10/18 12:55	12/14/18 13:36	193-39-5	
Naphthalene	<1.0	ug/kg	13.0	1.0	1	12/10/18 12:55	12/14/18 13:36	91-20-3	
Phenanthrene	15.3	ug/kg	13.0	2.5	1	12/10/18 12:55	12/14/18 13:36	85-01-8	
Pyrene	25.9	ug/kg	13.0	2.0	1	12/10/18 12:55	12/14/18 13:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	54	%	42-125		1	12/10/18 12:55	12/14/18 13:36	321-60-8	
p-Terphenyl-d14 (S)	59	%	57-125		1	12/10/18 12:55	12/14/18 13:36	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	02/26/19 09:24	02/26/19 17:47	106-93-4	
Methylene Chloride	<4.8	ug/kg	25.9	4.8	1	02/26/19 09:24	02/26/19 17:47	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	02/26/19 09:24	02/26/19 17:47	17060-07-0	6M, H3
Toluene-d8 (S)	91	%	75-125		1	02/26/19 09:24	02/26/19 17:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/26/19 09:24	02/26/19 17:47	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.6	ug/kg	81.5	25.6	1	12/10/18 10:49	12/10/18 13:55	630-20-6	
1,1,1-Trichloroethane	<38.0	ug/kg	81.5	38.0	1	12/10/18 10:49	12/10/18 13:55	71-55-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	81.5	14.4	1	12/10/18 10:49	12/10/18 13:55	79-34-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-7 (0.0-2.0)**      **Lab ID: 10457092013**      Collected: 11/27/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2-Trichloroethane	<9.8	ug/kg	81.5	9.8	1	12/10/18 10:49	12/10/18 13:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	<94.6	ug/kg	326	94.6	1	12/10/18 10:49	12/10/18 13:55	76-13-1	
1,1-Dichloroethane	<9.1	ug/kg	81.5	9.1	1	12/10/18 10:49	12/10/18 13:55	75-34-3	
1,1-Dichloroethene	<24.5	ug/kg	81.5	24.5	1	12/10/18 10:49	12/10/18 13:55	75-35-4	L2
1,1-Dichloropropene	<37.7	ug/kg	81.5	37.7	1	12/10/18 10:49	12/10/18 13:55	563-58-6	
1,2,3-Trichlorobenzene	<13.0	ug/kg	81.5	13.0	1	12/10/18 10:49	12/10/18 13:55	87-61-6	
1,2,3-Trichloropropane	<21.4	ug/kg	326	21.4	1	12/10/18 10:49	12/10/18 13:55	96-18-4	
1,2,4-Trichlorobenzene	<18.1	ug/kg	81.5	18.1	1	12/10/18 10:49	12/10/18 13:55	120-82-1	
1,2,4-Trimethylbenzene	<16.3	ug/kg	81.5	16.3	1	12/10/18 10:49	12/10/18 13:55	95-63-6	
1,2-Dibromo-3-chloropropane	<284	ug/kg	815	284	1	12/10/18 10:49	12/10/18 13:55	96-12-8	
1,2-Dibromoethane (EDB)	<8.6	ug/kg	81.5	8.6	1	12/10/18 10:49	12/10/18 13:55	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	81.5	3.3	1	12/10/18 10:49	12/10/18 13:55	95-50-1	
1,2-Dichloroethane	<9.0	ug/kg	81.5	9.0	1	12/10/18 10:49	12/10/18 13:55	107-06-2	
1,2-Dichloropropane	<14.1	ug/kg	81.5	14.1	1	12/10/18 10:49	12/10/18 13:55	78-87-5	
1,3,5-Trimethylbenzene	<13.0	ug/kg	81.5	13.0	1	12/10/18 10:49	12/10/18 13:55	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	81.5	3.0	1	12/10/18 10:49	12/10/18 13:55	541-73-1	
1,3-Dichloropropane	<11.3	ug/kg	81.5	11.3	1	12/10/18 10:49	12/10/18 13:55	142-28-9	
1,4-Dichlorobenzene	<5.1	ug/kg	81.5	5.1	1	12/10/18 10:49	12/10/18 13:55	106-46-7	
2,2-Dichloropropane	<10.2	ug/kg	326	10.2	1	12/10/18 10:49	12/10/18 13:55	594-20-7	
2-Butanone (MEK)	<43.4	ug/kg	408	43.4	1	12/10/18 10:49	12/10/18 13:55	78-93-3	
2-Chlorotoluene	<4.0	ug/kg	81.5	4.0	1	12/10/18 10:49	12/10/18 13:55	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	81.5	4.2	1	12/10/18 10:49	12/10/18 13:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.0	ug/kg	408	17.0	1	12/10/18 10:49	12/10/18 13:55	108-10-1	
Acetone	<507	ug/kg	1630	507	1	12/10/18 10:49	12/10/18 13:55	67-64-1	
Allyl chloride	<68.3	ug/kg	326	68.3	1	12/10/18 10:49	12/10/18 13:55	107-05-1	
Benzene	<4.6	ug/kg	32.6	4.6	1	12/10/18 10:49	12/10/18 13:55	71-43-2	
Bromobenzene	<5.0	ug/kg	81.5	5.0	1	12/10/18 10:49	12/10/18 13:55	108-86-1	
Bromochloromethane	<28.2	ug/kg	81.5	28.2	1	12/10/18 10:49	12/10/18 13:55	74-97-5	
Bromodichloromethane	<27.9	ug/kg	81.5	27.9	1	12/10/18 10:49	12/10/18 13:55	75-27-4	
Bromoform	<123	ug/kg	326	123	1	12/10/18 10:49	12/10/18 13:55	75-25-2	
Bromomethane	<95.4	ug/kg	815	95.4	1	12/10/18 10:49	12/10/18 13:55	74-83-9	
Carbon tetrachloride	<39.0	ug/kg	81.5	39.0	1	12/10/18 10:49	12/10/18 13:55	56-23-5	
Chlorobenzene	<4.6	ug/kg	81.5	4.6	1	12/10/18 10:49	12/10/18 13:55	108-90-7	
Chloroethane	<42.4	ug/kg	81.5	42.4	1	12/10/18 10:49	12/10/18 13:55	75-00-3	
Chloroform	<40.8	ug/kg	81.5	40.8	1	12/10/18 10:49	12/10/18 13:55	67-66-3	
Chloromethane	<19.6	ug/kg	326	19.6	1	12/10/18 10:49	12/10/18 13:55	74-87-3	
Dibromochloromethane	<9.5	ug/kg	326	9.5	1	12/10/18 10:49	12/10/18 13:55	124-48-1	
Dibromomethane	<15.0	ug/kg	81.5	15.0	1	12/10/18 10:49	12/10/18 13:55	74-95-3	L2
Dichlorodifluoromethane	<26.4	ug/kg	326	26.4	1	12/10/18 10:49	12/10/18 13:55	75-71-8	
Dichlorofluoromethane	<113	ug/kg	815	113	1	12/10/18 10:49	12/10/18 13:55	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.9	ug/kg	326	49.9	1	12/10/18 10:49	12/10/18 13:55	60-29-7	
Ethylbenzene	<4.4	ug/kg	81.5	4.4	1	12/10/18 10:49	12/10/18 13:55	100-41-4	
Hexachloro-1,3-butadiene	<19.9	ug/kg	408	19.9	1	12/10/18 10:49	12/10/18 13:55	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	81.5	3.6	1	12/10/18 10:49	12/10/18 13:55	98-82-8	
Methyl-tert-butyl ether	<9.7	ug/kg	81.5	9.7	1	12/10/18 10:49	12/10/18 13:55	1634-04-4	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-7 (0.0-2.0)**      **Lab ID: 10457092013**      Collected: 11/27/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Methylene Chloride	<153	ug/kg	326	153	1	12/10/18 10:49	12/10/18 13:55	75-09-2	
Naphthalene	<76.3	ug/kg	326	76.3	1	12/10/18 10:49	12/10/18 13:55	91-20-3	
Styrene	<3.7	ug/kg	81.5	3.7	1	12/10/18 10:49	12/10/18 13:55	100-42-5	
Tetrachloroethene	<28.7	ug/kg	81.5	28.7	1	12/10/18 10:49	12/10/18 13:55	127-18-4	L2
Tetrahydrofuran	<119	ug/kg	3260	119	1	12/10/18 10:49	12/10/18 13:55	109-99-9	
Toluene	<19.9	ug/kg	81.5	19.9	1	12/10/18 10:49	12/10/18 13:55	108-88-3	
Trichloroethene	<12.6	ug/kg	81.5	12.6	1	12/10/18 10:49	12/10/18 13:55	79-01-6	L2
Trichlorofluoromethane	<142	ug/kg	326	142	1	12/10/18 10:49	12/10/18 13:55	75-69-4	
Vinyl chloride	<16.0	ug/kg	32.6	16.0	1	12/10/18 10:49	12/10/18 13:55	75-01-4	
Xylene (Total)	<18.9	ug/kg	245	18.9	1	12/10/18 10:49	12/10/18 13:55	1330-20-7	
cis-1,2-Dichloroethene	<13.5	ug/kg	81.5	13.5	1	12/10/18 10:49	12/10/18 13:55	156-59-2	
cis-1,3-Dichloropropene	<11.7	ug/kg	81.5	11.7	1	12/10/18 10:49	12/10/18 13:55	10061-01-5	
n-Butylbenzene	<38.8	ug/kg	81.5	38.8	1	12/10/18 10:49	12/10/18 13:55	104-51-8	
n-Propylbenzene	<4.4	ug/kg	81.5	4.4	1	12/10/18 10:49	12/10/18 13:55	103-65-1	
p-Isopropyltoluene	<24.8	ug/kg	81.5	24.8	1	12/10/18 10:49	12/10/18 13:55	99-87-6	
sec-Butylbenzene	<15.6	ug/kg	81.5	15.6	1	12/10/18 10:49	12/10/18 13:55	135-98-8	
tert-Butylbenzene	<15.7	ug/kg	81.5	15.7	1	12/10/18 10:49	12/10/18 13:55	98-06-6	
trans-1,2-Dichloroethene	<38.2	ug/kg	81.5	38.2	1	12/10/18 10:49	12/10/18 13:55	156-60-5	
trans-1,3-Dichloropropene	<11.3	ug/kg	81.5	11.3	1	12/10/18 10:49	12/10/18 13:55	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-125		1	12/10/18 10:49	12/10/18 13:55	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 13:55	2037-26-5	
4-Bromofluorobenzene (S)	107	%	75-125		1	12/10/18 10:49	12/10/18 13:55	460-00-4	

**Sample: DP-7 (3.0-5.0)**      **Lab ID: 10457092014**      Collected: 11/27/18 10:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.8	ug/kg	45.9	12.8	1	12/03/18 19:42	12/05/18 22:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.1	ug/kg	45.9	16.1	1	12/03/18 19:42	12/05/18 22:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.4	ug/kg	45.9	18.4	1	12/03/18 19:42	12/05/18 22:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	45.9	15.6	1	12/03/18 19:42	12/05/18 22:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.8	ug/kg	45.9	13.8	1	12/03/18 19:42	12/05/18 22:26	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.5	ug/kg	45.9	13.5	1	12/03/18 19:42	12/05/18 22:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.0	ug/kg	45.9	11.0	1	12/03/18 19:42	12/05/18 22:26	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/03/18 19:42	12/05/18 22:26	877-09-8	
Decachlorobiphenyl (S)	87	%	30-134		1	12/03/18 19:42	12/05/18 22:26	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	20.9	3.4	1	11/30/18 17:47	12/02/18 22:04	68334-30-5	
Motor Oil Range	<6.1	mg/kg	14.0	6.1	1	11/30/18 17:47	12/02/18 22:04		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-7 (3.0-5.0)**      **Lab ID: 10457092014**      Collected: 11/27/18 10:30      Received: 11/30/18 09:55      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3550									
<i>Surrogates</i>									
n-Triacontane (S)	86	%	50-150		1	11/30/18 17:47	12/02/18 22:04	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	11/30/18 17:47	12/02/18 22:04	84-15-1	
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<0.95	mg/kg	7.2	0.95	1	12/07/18 17:37	12/10/18 07:15		
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/07/18 17:37	12/10/18 07:15	98-08-8	
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<0.53	mg/kg	1.4	0.53	1	12/06/18 08:15	12/10/18 16:48	7440-36-0	
Arsenic	0.59J	mg/kg	1.4	0.29	1	12/06/18 08:15	12/10/18 16:48	7440-38-2	
Beryllium	0.058J	mg/kg	0.35	0.019	1	12/06/18 08:15	12/10/18 16:48	7440-41-7	
Cadmium	0.044J	mg/kg	0.21	0.028	1	12/06/18 08:15	12/10/18 16:48	7440-43-9	
Chromium	5.3	mg/kg	0.70	0.12	1	12/06/18 08:15	12/10/18 16:48	7440-47-3	
Copper	10.6	mg/kg	0.70	0.078	1	12/06/18 08:15	12/10/18 16:48	7440-50-8	
Lead	3.3	mg/kg	0.70	0.16	1	12/06/18 08:15	12/10/18 16:48	7439-92-1	
Nickel	4.0	mg/kg	1.4	0.089	1	12/06/18 08:15	12/10/18 16:48	7440-02-0	
Selenium	<0.46	mg/kg	1.4	0.46	1	12/06/18 08:15	12/10/18 16:48	7782-49-2	
Silver	<0.051	mg/kg	0.70	0.051	1	12/06/18 08:15	12/10/18 16:48	7440-22-4	
Thallium	0.34J	mg/kg	1.4	0.32	1	12/06/18 08:15	12/10/18 16:48	7440-28-0	
Zinc	20.8	mg/kg	1.4	0.62	1	12/06/18 08:15	12/10/18 16:48	7440-66-6	
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<0.011	mg/kg	0.026	0.011	1	12/05/18 14:27	12/12/18 14:43	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	29.0	%	0.10	0.10	1		12/11/18 15:25		
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.75	ug/kg	14.0	0.75	1	12/10/18 12:55	12/12/18 02:04	90-12-0	
2-Methylnaphthalene	<0.71	ug/kg	14.0	0.71	1	12/10/18 12:55	12/12/18 02:04	91-57-6	
Acenaphthene	<0.57	ug/kg	14.0	0.57	1	12/10/18 12:55	12/12/18 02:04	83-32-9	
Acenaphthylene	<0.69	ug/kg	14.0	0.69	1	12/10/18 12:55	12/12/18 02:04	208-96-8	
Anthracene	<0.66	ug/kg	14.0	0.66	1	12/10/18 12:55	12/12/18 02:04	120-12-7	
Benzo(a)anthracene	1.6J	ug/kg	14.0	1.5	1	12/10/18 12:55	12/12/18 02:04	56-55-3	
Benzo(a)pyrene	1.5J	ug/kg	14.0	0.96	1	12/10/18 12:55	12/12/18 02:04	50-32-8	
Benzo(b)fluoranthene	1.9J	ug/kg	14.0	0.52	1	12/10/18 12:55	12/12/18 02:04	205-99-2	
Benzo(g,h,i)perylene	<0.89	ug/kg	14.0	0.89	1	12/10/18 12:55	12/12/18 02:04	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	14.0	1.2	1	12/10/18 12:55	12/12/18 02:04	207-08-9	
Chrysene	<1.9	ug/kg	14.0	1.9	1	12/10/18 12:55	12/12/18 02:04	218-01-9	
Dibenz(a,h)anthracene	<0.65	ug/kg	14.0	0.65	1	12/10/18 12:55	12/12/18 02:04	53-70-3	
Fluoranthene	2.6J	ug/kg	14.0	0.60	1	12/10/18 12:55	12/12/18 02:04	206-44-0	B,L2
Fluorene	<0.44	ug/kg	14.0	0.44	1	12/10/18 12:55	12/12/18 02:04	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.94	ug/kg	14.0	0.94	1	12/10/18 12:55	12/12/18 02:04	193-39-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-7 (3.0-5.0)**      **Lab ID: 10457092014**      Collected: 11/27/18 10:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Naphthalene	<1.1	ug/kg	14.0	1.1	1	12/10/18 12:55	12/12/18 02:04	91-20-3	
Phenanthrene	<2.7	ug/kg	14.0	2.7	1	12/10/18 12:55	12/12/18 02:04	85-01-8	
Pyrene	2.4J	ug/kg	14.0	2.1	1	12/10/18 12:55	12/12/18 02:04	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	37	%	42-125		1	12/10/18 12:55	12/12/18 02:04	321-60-8	H5,S0
p-Terphenyl-d14 (S)	61	%	57-125		1	12/10/18 12:55	12/12/18 02:04	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.4	0.30	1	02/27/19 09:34	02/27/19 14:50	106-93-4	
Methylene Chloride	<4.9	ug/kg	26.8	4.9	1	02/27/19 09:34	02/27/19 14:50	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	02/27/19 09:34	02/27/19 14:50	17060-07-0	5M,H3
Toluene-d8 (S)	90	%	75-125		1	02/27/19 09:34	02/27/19 14:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 14:50	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.8	ug/kg	91.9	28.8	1	12/10/18 10:49	12/10/18 14:12	630-20-6	
1,1,1-Trichloroethane	<42.8	ug/kg	91.9	42.8	1	12/10/18 10:49	12/10/18 14:12	71-55-6	
1,1,2,2-Tetrachloroethane	<16.2	ug/kg	91.9	16.2	1	12/10/18 10:49	12/10/18 14:12	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/kg	91.9	11.0	1	12/10/18 10:49	12/10/18 14:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	<107	ug/kg	367	107	1	12/10/18 10:49	12/10/18 14:12	76-13-1	
1,1-Dichloroethane	<10.3	ug/kg	91.9	10.3	1	12/10/18 10:49	12/10/18 14:12	75-34-3	
1,1-Dichloroethene	<27.6	ug/kg	91.9	27.6	1	12/10/18 10:49	12/10/18 14:12	75-35-4	L2
1,1-Dichloropropene	<42.4	ug/kg	91.9	42.4	1	12/10/18 10:49	12/10/18 14:12	563-58-6	
1,2,3-Trichlorobenzene	<14.7	ug/kg	91.9	14.7	1	12/10/18 10:49	12/10/18 14:12	87-61-6	
1,2,3-Trichloropropane	<24.1	ug/kg	367	24.1	1	12/10/18 10:49	12/10/18 14:12	96-18-4	
1,2,4-Trichlorobenzene	<20.4	ug/kg	91.9	20.4	1	12/10/18 10:49	12/10/18 14:12	120-82-1	
1,2,4-Trimethylbenzene	<18.4	ug/kg	91.9	18.4	1	12/10/18 10:49	12/10/18 14:12	95-63-6	
1,2-Dibromo-3-chloropropane	<320	ug/kg	919	320	1	12/10/18 10:49	12/10/18 14:12	96-12-8	
1,2-Dibromoethane (EDB)	<9.7	ug/kg	91.9	9.7	1	12/10/18 10:49	12/10/18 14:12	106-93-4	
1,2-Dichlorobenzene	<3.7	ug/kg	91.9	3.7	1	12/10/18 10:49	12/10/18 14:12	95-50-1	
1,2-Dichloroethane	<10.1	ug/kg	91.9	10.1	1	12/10/18 10:49	12/10/18 14:12	107-06-2	
1,2-Dichloropropane	<15.8	ug/kg	91.9	15.8	1	12/10/18 10:49	12/10/18 14:12	78-87-5	
1,3,5-Trimethylbenzene	<14.6	ug/kg	91.9	14.6	1	12/10/18 10:49	12/10/18 14:12	108-67-8	
1,3-Dichlorobenzene	<3.3	ug/kg	91.9	3.3	1	12/10/18 10:49	12/10/18 14:12	541-73-1	
1,3-Dichloropropane	<12.7	ug/kg	91.9	12.7	1	12/10/18 10:49	12/10/18 14:12	142-28-9	
1,4-Dichlorobenzene	<5.7	ug/kg	91.9	5.7	1	12/10/18 10:49	12/10/18 14:12	106-46-7	
2,2-Dichloropropane	<11.5	ug/kg	367	11.5	1	12/10/18 10:49	12/10/18 14:12	594-20-7	
2-Butanone (MEK)	<48.9	ug/kg	459	48.9	1	12/10/18 10:49	12/10/18 14:12	78-93-3	
2-Chlorotoluene	<4.5	ug/kg	91.9	4.5	1	12/10/18 10:49	12/10/18 14:12	95-49-8	
4-Chlorotoluene	<4.7	ug/kg	91.9	4.7	1	12/10/18 10:49	12/10/18 14:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.1	ug/kg	459	19.1	1	12/10/18 10:49	12/10/18 14:12	108-10-1	
Acetone	<571	ug/kg	1840	571	1	12/10/18 10:49	12/10/18 14:12	67-64-1	
Allyl chloride	<77.0	ug/kg	367	77.0	1	12/10/18 10:49	12/10/18 14:12	107-05-1	
Benzene	<5.2	ug/kg	36.7	5.2	1	12/10/18 10:49	12/10/18 14:12	71-43-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-7 (3.0-5.0)**      **Lab ID: 10457092014**      Collected: 11/27/18 10:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Bromobenzene	<5.6	ug/kg	91.9	5.6	1	12/10/18 10:49	12/10/18 14:12	108-86-1	
Bromochloromethane	<31.8	ug/kg	91.9	31.8	1	12/10/18 10:49	12/10/18 14:12	74-97-5	
Bromodichloromethane	<31.4	ug/kg	91.9	31.4	1	12/10/18 10:49	12/10/18 14:12	75-27-4	
Bromoform	<139	ug/kg	367	139	1	12/10/18 10:49	12/10/18 14:12	75-25-2	
Bromomethane	<107	ug/kg	919	107	1	12/10/18 10:49	12/10/18 14:12	74-83-9	
Carbon tetrachloride	<43.9	ug/kg	91.9	43.9	1	12/10/18 10:49	12/10/18 14:12	56-23-5	
Chlorobenzene	<5.2	ug/kg	91.9	5.2	1	12/10/18 10:49	12/10/18 14:12	108-90-7	
Chloroethane	<47.8	ug/kg	919	47.8	1	12/10/18 10:49	12/10/18 14:12	75-00-3	
Chloroform	<45.9	ug/kg	91.9	45.9	1	12/10/18 10:49	12/10/18 14:12	67-66-3	
Chloromethane	<22.0	ug/kg	367	22.0	1	12/10/18 10:49	12/10/18 14:12	74-87-3	
Dibromochloromethane	<10.7	ug/kg	367	10.7	1	12/10/18 10:49	12/10/18 14:12	124-48-1	
Dibromomethane	<16.8	ug/kg	91.9	16.8	1	12/10/18 10:49	12/10/18 14:12	74-95-3	L2
Dichlorodifluoromethane	<29.8	ug/kg	367	29.8	1	12/10/18 10:49	12/10/18 14:12	75-71-8	
Dichlorofluoromethane	<127	ug/kg	919	127	1	12/10/18 10:49	12/10/18 14:12	75-43-4	N2
Diethyl ether (Ethyl ether)	<56.2	ug/kg	367	56.2	1	12/10/18 10:49	12/10/18 14:12	60-29-7	
Ethylbenzene	<5.0	ug/kg	91.9	5.0	1	12/10/18 10:49	12/10/18 14:12	100-41-4	
Hexachloro-1,3-butadiene	<22.4	ug/kg	459	22.4	1	12/10/18 10:49	12/10/18 14:12	87-68-3	
Isopropylbenzene (Cumene)	<4.1	ug/kg	91.9	4.1	1	12/10/18 10:49	12/10/18 14:12	98-82-8	
Methyl-tert-butyl ether	<10.9	ug/kg	91.9	10.9	1	12/10/18 10:49	12/10/18 14:12	1634-04-4	
Methylene Chloride	<173	ug/kg	367	173	1	12/10/18 10:49	12/10/18 14:12	75-09-2	
Naphthalene	<86.0	ug/kg	367	86.0	1	12/10/18 10:49	12/10/18 14:12	91-20-3	
Styrene	<4.2	ug/kg	91.9	4.2	1	12/10/18 10:49	12/10/18 14:12	100-42-5	
Tetrachloroethene	<32.3	ug/kg	91.9	32.3	1	12/10/18 10:49	12/10/18 14:12	127-18-4	L2
Tetrahydrofuran	<134	ug/kg	3670	134	1	12/10/18 10:49	12/10/18 14:12	109-99-9	
Toluene	<22.4	ug/kg	91.9	22.4	1	12/10/18 10:49	12/10/18 14:12	108-88-3	
Trichloroethene	<14.2	ug/kg	91.9	14.2	1	12/10/18 10:49	12/10/18 14:12	79-01-6	L2
Trichlorofluoromethane	<160	ug/kg	367	160	1	12/10/18 10:49	12/10/18 14:12	75-69-4	
Vinyl chloride	<18.1	ug/kg	36.7	18.1	1	12/10/18 10:49	12/10/18 14:12	75-01-4	
Xylene (Total)	<21.3	ug/kg	276	21.3	1	12/10/18 10:49	12/10/18 14:12	1330-20-7	
cis-1,2-Dichloroethene	<15.2	ug/kg	91.9	15.2	1	12/10/18 10:49	12/10/18 14:12	156-59-2	
cis-1,3-Dichloropropene	<13.2	ug/kg	91.9	13.2	1	12/10/18 10:49	12/10/18 14:12	10061-01-5	
n-Butylbenzene	<43.7	ug/kg	91.9	43.7	1	12/10/18 10:49	12/10/18 14:12	104-51-8	
n-Propylbenzene	<4.9	ug/kg	91.9	4.9	1	12/10/18 10:49	12/10/18 14:12	103-65-1	
p-Isopropyltoluene	<27.9	ug/kg	91.9	27.9	1	12/10/18 10:49	12/10/18 14:12	99-87-6	
sec-Butylbenzene	<17.6	ug/kg	91.9	17.6	1	12/10/18 10:49	12/10/18 14:12	135-98-8	
tert-Butylbenzene	<17.6	ug/kg	91.9	17.6	1	12/10/18 10:49	12/10/18 14:12	98-06-6	
trans-1,2-Dichloroethene	<43.0	ug/kg	91.9	43.0	1	12/10/18 10:49	12/10/18 14:12	156-60-5	
trans-1,3-Dichloropropene	<12.8	ug/kg	91.9	12.8	1	12/10/18 10:49	12/10/18 14:12	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-125		1	12/10/18 10:49	12/10/18 14:12	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 10:49	12/10/18 14:12	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 10:49	12/10/18 14:12	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-8 (0.0-2.0)**      **Lab ID: 10457092015**      Collected: 11/27/18 11:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.0	ug/kg	43.2	12.0	1	12/03/18 16:53	12/11/18 09:44	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.2	ug/kg	43.2	15.2	1	12/03/18 16:53	12/11/18 09:44	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.3	ug/kg	43.2	17.3	1	12/03/18 16:53	12/11/18 09:44	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.7	ug/kg	43.2	14.7	1	12/03/18 16:53	12/11/18 09:44	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.0	ug/kg	43.2	13.0	1	12/03/18 16:53	12/11/18 09:44	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.7	ug/kg	43.2	12.7	1	12/03/18 16:53	12/11/18 09:44	11097-69-1	
PCB-1260 (Aroclor 1260)	70.6	ug/kg	43.2	10.3	1	12/03/18 16:53	12/11/18 09:44	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	88	%	48-125		1	12/03/18 16:53	12/11/18 09:44	877-09-8	
Decachlorobiphenyl (S)	79	%	30-134		1	12/03/18 16:53	12/11/18 09:44	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	5.4J	mg/kg	19.7	3.2	1	11/30/18 17:47	12/02/18 21:55	68334-30-5	
Motor Oil Range	15.0	mg/kg	13.1	5.7	1	11/30/18 17:47	12/02/18 21:55		
<b>Surrogates</b>									
n-Triacontane (S)	82	%	50-150		1	11/30/18 17:47	12/02/18 21:55	638-68-6	
o-Terphenyl (S)	96	%	50-150		1	11/30/18 17:47	12/02/18 21:55	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.0	mg/kg	8.0	1.0	1	12/07/18 17:37	12/10/18 07:32		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	99	%	50-150		1	12/07/18 17:37	12/10/18 07:32	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.4	mg/kg	6.4	2.4	5	12/06/18 08:15	12/11/18 11:09	7440-36-0	D3
Arsenic	2.9J	mg/kg	6.4	1.3	5	12/06/18 08:15	12/11/18 11:09	7440-38-2	D3
Beryllium	<0.086	mg/kg	1.6	0.086	5	12/06/18 08:15	12/11/18 11:09	7440-41-7	D3
Cadmium	0.34J	mg/kg	0.97	0.13	5	12/06/18 08:15	12/11/18 11:09	7440-43-9	D3
Chromium	11.7	mg/kg	3.2	0.55	5	12/06/18 08:15	12/11/18 11:09	7440-47-3	
Copper	36.9	mg/kg	3.2	0.36	5	12/06/18 08:15	12/11/18 11:09	7440-50-8	
Lead	54.1	mg/kg	3.2	0.73	5	12/06/18 08:15	12/11/18 11:09	7439-92-1	
Nickel	10.1	mg/kg	6.4	0.40	5	12/06/18 08:15	12/11/18 11:09	7440-02-0	
Selenium	<2.1	mg/kg	6.4	2.1	5	12/06/18 08:15	12/11/18 11:09	7782-49-2	D3
Silver	<0.23	mg/kg	3.2	0.23	5	12/06/18 08:15	12/11/18 11:09	7440-22-4	D3
Thallium	3.8J	mg/kg	6.4	1.5	5	12/06/18 08:15	12/11/18 11:09	7440-28-0	D3
Zinc	111	mg/kg	6.4	2.8	5	12/06/18 08:15	12/11/18 11:09	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	0.11J	mg/kg	0.13	0.043	20	12/05/19 07:35	12/05/19 23:34	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.019J	mg/kg	0.024	0.0096	1	12/05/18 14:27	12/12/18 14:45	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.9	%	0.10	0.10	1		12/11/18 15:25		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-8 (0.0-2.0)**      **Lab ID: 10457092015**      Collected: 11/27/18 11:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.1	0.70	1	12/10/18 12:55	12/12/18 02:27	90-12-0	
2-Methylnaphthalene	<0.66	ug/kg	13.1	0.66	1	12/10/18 12:55	12/12/18 02:27	91-57-6	
Acenaphthene	<0.53	ug/kg	13.1	0.53	1	12/10/18 12:55	12/12/18 02:27	83-32-9	
Acenaphthylene	<0.65	ug/kg	13.1	0.65	1	12/10/18 12:55	12/12/18 02:27	208-96-8	
Anthracene	<0.61	ug/kg	13.1	0.61	1	12/10/18 12:55	12/12/18 02:27	120-12-7	
Benzo(a)anthracene	3.6J	ug/kg	13.1	1.4	1	12/10/18 12:55	12/12/18 02:27	56-55-3	
Benzo(a)pyrene	4.1J	ug/kg	13.1	0.90	1	12/10/18 12:55	12/12/18 02:27	50-32-8	
Benzo(b)fluoranthene	5.6J	ug/kg	13.1	0.49	1	12/10/18 12:55	12/12/18 02:27	205-99-2	
Benzo(g,h,i)perylene	5.0J	ug/kg	13.1	0.83	1	12/10/18 12:55	12/12/18 02:27	191-24-2	
Benzo(k)fluoranthene	2.4J	ug/kg	13.1	1.1	1	12/10/18 12:55	12/12/18 02:27	207-08-9	
Chrysene	4.0J	ug/kg	13.1	1.8	1	12/10/18 12:55	12/12/18 02:27	218-01-9	
Dibenz(a,h)anthracene	<0.60	ug/kg	13.1	0.60	1	12/10/18 12:55	12/12/18 02:27	53-70-3	
Fluoranthene	6.9J	ug/kg	13.1	0.56	1	12/10/18 12:55	12/12/18 02:27	206-44-0	B,L2
Fluorene	<0.41	ug/kg	13.1	0.41	1	12/10/18 12:55	12/12/18 02:27	86-73-7	
Indeno(1,2,3-cd)pyrene	3.8J	ug/kg	13.1	0.88	1	12/10/18 12:55	12/12/18 02:27	193-39-5	
Naphthalene	<1.0	ug/kg	13.1	1.0	1	12/10/18 12:55	12/12/18 02:27	91-20-3	
Phenanthrene	6.4J	ug/kg	13.1	2.5	1	12/10/18 12:55	12/12/18 02:27	85-01-8	
Pyrene	6.0J	ug/kg	13.1	2.0	1	12/10/18 12:55	12/12/18 02:27	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	42-125		1	12/10/18 12:55	12/12/18 02:27	321-60-8	
p-Terphenyl-d14 (S)	69	%	57-125		1	12/10/18 12:55	12/12/18 02:27	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	02/27/19 09:34	02/27/19 15:09	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.8	4.7	1	02/27/19 09:34	02/27/19 15:09	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	02/27/19 09:34	02/27/19 15:09	17060-07-0	5M,H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 15:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/27/19 09:34	02/27/19 15:09	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.2	ug/kg	80.2	25.2	1	12/10/18 10:49	12/10/18 14:30	630-20-6	
1,1,1-Trichloroethane	<37.4	ug/kg	80.2	37.4	1	12/10/18 10:49	12/10/18 14:30	71-55-6	
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	80.2	14.1	1	12/10/18 10:49	12/10/18 14:30	79-34-5	
1,1,2-Trichloroethane	<9.6	ug/kg	80.2	9.6	1	12/10/18 10:49	12/10/18 14:30	79-00-5	
1,1,2-Trichlorotrifluoroethane	<93.0	ug/kg	321	93.0	1	12/10/18 10:49	12/10/18 14:30	76-13-1	
1,1-Dichloroethane	<9.0	ug/kg	80.2	9.0	1	12/10/18 10:49	12/10/18 14:30	75-34-3	
1,1-Dichloroethene	<24.1	ug/kg	80.2	24.1	1	12/10/18 10:49	12/10/18 14:30	75-35-4	L2
1,1-Dichloropropene	<37.0	ug/kg	80.2	37.0	1	12/10/18 10:49	12/10/18 14:30	563-58-6	
1,2,3-Trichlorobenzene	<12.8	ug/kg	80.2	12.8	1	12/10/18 10:49	12/10/18 14:30	87-61-6	
1,2,3-Trichloropropane	<21.0	ug/kg	321	21.0	1	12/10/18 10:49	12/10/18 14:30	96-18-4	
1,2,4-Trichlorobenzene	<17.8	ug/kg	80.2	17.8	1	12/10/18 10:49	12/10/18 14:30	120-82-1	
1,2,4-Trimethylbenzene	<16.0	ug/kg	80.2	16.0	1	12/10/18 10:49	12/10/18 14:30	95-63-6	
1,2-Dibromo-3-chloropropane	<279	ug/kg	802	279	1	12/10/18 10:49	12/10/18 14:30	96-12-8	
1,2-Dibromoethane (EDB)	<8.4	ug/kg	80.2	8.4	1	12/10/18 10:49	12/10/18 14:30	106-93-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-8 (0.0-2.0)**      **Lab ID: 10457092015**      Collected: 11/27/18 11:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichlorobenzene	<3.2	ug/kg	80.2	3.2	1	12/10/18 10:49	12/10/18 14:30	95-50-1	
1,2-Dichloroethane	<8.8	ug/kg	80.2	8.8	1	12/10/18 10:49	12/10/18 14:30	107-06-2	
1,2-Dichloropropane	<13.8	ug/kg	80.2	13.8	1	12/10/18 10:49	12/10/18 14:30	78-87-5	
1,3,5-Trimethylbenzene	<12.8	ug/kg	80.2	12.8	1	12/10/18 10:49	12/10/18 14:30	108-67-8	
1,3-Dichlorobenzene	<2.9	ug/kg	80.2	2.9	1	12/10/18 10:49	12/10/18 14:30	541-73-1	
1,3-Dichloropropane	<11.1	ug/kg	80.2	11.1	1	12/10/18 10:49	12/10/18 14:30	142-28-9	
1,4-Dichlorobenzene	<5.0	ug/kg	80.2	5.0	1	12/10/18 10:49	12/10/18 14:30	106-46-7	
2,2-Dichloropropane	<10.0	ug/kg	321	10.0	1	12/10/18 10:49	12/10/18 14:30	594-20-7	
2-Butanone (MEK)	<42.7	ug/kg	401	42.7	1	12/10/18 10:49	12/10/18 14:30	78-93-3	
2-Chlorotoluene	<3.9	ug/kg	80.2	3.9	1	12/10/18 10:49	12/10/18 14:30	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	80.2	4.1	1	12/10/18 10:49	12/10/18 14:30	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.7	ug/kg	401	16.7	1	12/10/18 10:49	12/10/18 14:30	108-10-1	
Acetone	<499	ug/kg	1600	499	1	12/10/18 10:49	12/10/18 14:30	67-64-1	
Allyl chloride	<67.2	ug/kg	321	67.2	1	12/10/18 10:49	12/10/18 14:30	107-05-1	
Benzene	<4.5	ug/kg	32.1	4.5	1	12/10/18 10:49	12/10/18 14:30	71-43-2	
Bromobenzene	<4.9	ug/kg	80.2	4.9	1	12/10/18 10:49	12/10/18 14:30	108-86-1	
Bromochloromethane	<27.7	ug/kg	80.2	27.7	1	12/10/18 10:49	12/10/18 14:30	74-97-5	
Bromodichloromethane	<27.4	ug/kg	80.2	27.4	1	12/10/18 10:49	12/10/18 14:30	75-27-4	
Bromoform	<121	ug/kg	321	121	1	12/10/18 10:49	12/10/18 14:30	75-25-2	
Bromomethane	<93.8	ug/kg	802	93.8	1	12/10/18 10:49	12/10/18 14:30	74-83-9	
Carbon tetrachloride	<38.3	ug/kg	80.2	38.3	1	12/10/18 10:49	12/10/18 14:30	56-23-5	
Chlorobenzene	<4.5	ug/kg	80.2	4.5	1	12/10/18 10:49	12/10/18 14:30	108-90-7	
Chloroethane	<41.7	ug/kg	802	41.7	1	12/10/18 10:49	12/10/18 14:30	75-00-3	
Chloroform	<40.1	ug/kg	80.2	40.1	1	12/10/18 10:49	12/10/18 14:30	67-66-3	
Chloromethane	<19.2	ug/kg	321	19.2	1	12/10/18 10:49	12/10/18 14:30	74-87-3	
Dibromochloromethane	<9.3	ug/kg	321	9.3	1	12/10/18 10:49	12/10/18 14:30	124-48-1	
Dibromomethane	<14.7	ug/kg	80.2	14.7	1	12/10/18 10:49	12/10/18 14:30	74-95-3	L2
Dichlorodifluoromethane	<26.0	ug/kg	321	26.0	1	12/10/18 10:49	12/10/18 14:30	75-71-8	
Dichlorofluoromethane	<111	ug/kg	802	111	1	12/10/18 10:49	12/10/18 14:30	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.1	ug/kg	321	49.1	1	12/10/18 10:49	12/10/18 14:30	60-29-7	
Ethylbenzene	<4.4	ug/kg	80.2	4.4	1	12/10/18 10:49	12/10/18 14:30	100-41-4	
Hexachloro-1,3-butadiene	<19.6	ug/kg	401	19.6	1	12/10/18 10:49	12/10/18 14:30	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	80.2	3.6	1	12/10/18 10:49	12/10/18 14:30	98-82-8	
Methyl-tert-butyl ether	<9.5	ug/kg	80.2	9.5	1	12/10/18 10:49	12/10/18 14:30	1634-04-4	
Methylene Chloride	<151	ug/kg	321	151	1	12/10/18 10:49	12/10/18 14:30	75-09-2	
Naphthalene	<75.1	ug/kg	321	75.1	1	12/10/18 10:49	12/10/18 14:30	91-20-3	
Styrene	<3.7	ug/kg	80.2	3.7	1	12/10/18 10:49	12/10/18 14:30	100-42-5	
Tetrachloroethene	<28.2	ug/kg	80.2	28.2	1	12/10/18 10:49	12/10/18 14:30	127-18-4	L2
Tetrahydrofuran	<117	ug/kg	3210	117	1	12/10/18 10:49	12/10/18 14:30	109-99-9	
Toluene	<19.6	ug/kg	80.2	19.6	1	12/10/18 10:49	12/10/18 14:30	108-88-3	
Trichloroethene	<12.4	ug/kg	80.2	12.4	1	12/10/18 10:49	12/10/18 14:30	79-01-6	L2
Trichlorofluoromethane	<140	ug/kg	321	140	1	12/10/18 10:49	12/10/18 14:30	75-69-4	
Vinyl chloride	<15.8	ug/kg	32.1	15.8	1	12/10/18 10:49	12/10/18 14:30	75-01-4	
Xylene (Total)	<18.6	ug/kg	241	18.6	1	12/10/18 10:49	12/10/18 14:30	1330-20-7	
cis-1,2-Dichloroethene	<13.3	ug/kg	80.2	13.3	1	12/10/18 10:49	12/10/18 14:30	156-59-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-8 (0.0-2.0)**      **Lab ID: 10457092015**      Collected: 11/27/18 11:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
cis-1,3-Dichloropropene	<11.5	ug/kg	80.2	11.5	1	12/10/18 10:49	12/10/18 14:30	10061-01-5	
n-Butylbenzene	<38.2	ug/kg	80.2	38.2	1	12/10/18 10:49	12/10/18 14:30	104-51-8	
n-Propylbenzene	<4.3	ug/kg	80.2	4.3	1	12/10/18 10:49	12/10/18 14:30	103-65-1	
p-Isopropyltoluene	<24.4	ug/kg	80.2	24.4	1	12/10/18 10:49	12/10/18 14:30	99-87-6	
sec-Butylbenzene	<15.4	ug/kg	80.2	15.4	1	12/10/18 10:49	12/10/18 14:30	135-98-8	
tert-Butylbenzene	<15.4	ug/kg	80.2	15.4	1	12/10/18 10:49	12/10/18 14:30	98-06-6	
trans-1,2-Dichloroethene	<37.5	ug/kg	80.2	37.5	1	12/10/18 10:49	12/10/18 14:30	156-60-5	
trans-1,3-Dichloropropene	<11.1	ug/kg	80.2	11.1	1	12/10/18 10:49	12/10/18 14:30	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-125		1	12/10/18 10:49	12/10/18 14:30	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 14:30	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	12/10/18 10:49	12/10/18 14:30	460-00-4	

**Sample: DP-8 (3.0-5.0)**      **Lab ID: 10457092016**      Collected: 11/27/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.9	ug/kg	46.4	12.9	1	12/03/18 16:53	12/11/18 09:59	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.3	ug/kg	46.4	16.3	1	12/03/18 16:53	12/11/18 09:59	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.6	ug/kg	46.4	18.6	1	12/03/18 16:53	12/11/18 09:59	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.8	ug/kg	46.4	15.8	1	12/03/18 16:53	12/11/18 09:59	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.9	ug/kg	46.4	13.9	1	12/03/18 16:53	12/11/18 09:59	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.7	ug/kg	46.4	13.7	1	12/03/18 16:53	12/11/18 09:59	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.1	ug/kg	46.4	11.1	1	12/03/18 16:53	12/11/18 09:59	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	88	%	48-125		1	12/03/18 16:53	12/11/18 09:59	877-09-8	
Decachlorobiphenyl (S)	77	%	30-134		1	12/03/18 16:53	12/11/18 09:59	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	21.1	3.4	1	11/30/18 17:47	12/02/18 22:50	68334-30-5	
Motor Oil Range	<6.1	mg/kg	14.1	6.1	1	11/30/18 17:47	12/02/18 22:50		
<b>Surrogates</b>									
n-Triacontane (S)	93	%	50-150		1	11/30/18 17:47	12/02/18 22:50	638-68-6	
o-Terphenyl (S)	99	%	50-150		1	11/30/18 17:47	12/02/18 22:50	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	1.7J	mg/kg	8.3	1.1	1	12/07/18 17:37	12/10/18 07:49		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/07/18 17:37	12/10/18 07:49	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.52	mg/kg	1.4	0.52	1	12/06/18 08:15	12/10/18 16:55	7440-36-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-8 (3.0-5.0)**      **Lab ID: 10457092016**      Collected: 11/27/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Arsenic	<b>0.84J</b>	mg/kg	1.4	0.28	1	12/06/18 08:15	12/10/18 16:55	7440-38-2	
Beryllium	<b>0.077J</b>	mg/kg	0.35	0.018	1	12/06/18 08:15	12/10/18 16:55	7440-41-7	
Cadmium	<b>&lt;0.027</b>	mg/kg	0.21	0.027	1	12/06/18 08:15	12/10/18 16:55	7440-43-9	
Chromium	<b>4.2</b>	mg/kg	0.69	0.12	1	12/06/18 08:15	12/10/18 16:55	7440-47-3	
Copper	<b>10.2</b>	mg/kg	0.69	0.077	1	12/06/18 08:15	12/10/18 16:55	7440-50-8	
Lead	<b>3.1</b>	mg/kg	0.69	0.16	1	12/06/18 08:15	12/10/18 16:55	7439-92-1	
Nickel	<b>4.4</b>	mg/kg	1.4	0.087	1	12/06/18 08:15	12/10/18 16:55	7440-02-0	
Selenium	<b>&lt;0.45</b>	mg/kg	1.4	0.45	1	12/06/18 08:15	12/10/18 16:55	7782-49-2	
Silver	<b>&lt;0.050</b>	mg/kg	0.69	0.050	1	12/06/18 08:15	12/10/18 16:55	7440-22-4	
Thallium	<b>0.47J</b>	mg/kg	1.4	0.32	1	12/06/18 08:15	12/10/18 16:55	7440-28-0	
Zinc	<b>19.4</b>	mg/kg	1.4	0.60	1	12/06/18 08:15	12/10/18 16:55	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.011</b>	mg/kg	0.027	0.011	1	12/05/18 14:27	12/12/18 14:48	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>29.0</b>	%	0.10	0.10	1		12/11/18 15:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.75</b>	ug/kg	14.0	0.75	1	12/10/18 12:55	12/12/18 02:50	90-12-0	
2-Methylnaphthalene	<b>&lt;0.71</b>	ug/kg	14.0	0.71	1	12/10/18 12:55	12/12/18 02:50	91-57-6	
Acenaphthene	<b>&lt;0.57</b>	ug/kg	14.0	0.57	1	12/10/18 12:55	12/12/18 02:50	83-32-9	
Acenaphthylene	<b>&lt;0.69</b>	ug/kg	14.0	0.69	1	12/10/18 12:55	12/12/18 02:50	208-96-8	
Anthracene	<b>&lt;0.65</b>	ug/kg	14.0	0.65	1	12/10/18 12:55	12/12/18 02:50	120-12-7	
Benzo(a)anthracene	<b>&lt;1.5</b>	ug/kg	14.0	1.5	1	12/10/18 12:55	12/12/18 02:50	56-55-3	
Benzo(a)pyrene	<b>&lt;0.96</b>	ug/kg	14.0	0.96	1	12/10/18 12:55	12/12/18 02:50	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.52</b>	ug/kg	14.0	0.52	1	12/10/18 12:55	12/12/18 02:50	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.88</b>	ug/kg	14.0	0.88	1	12/10/18 12:55	12/12/18 02:50	191-24-2	
Benzo(k)fluoranthene	<b>&lt;1.2</b>	ug/kg	14.0	1.2	1	12/10/18 12:55	12/12/18 02:50	207-08-9	
Chrysene	<b>&lt;1.9</b>	ug/kg	14.0	1.9	1	12/10/18 12:55	12/12/18 02:50	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.64</b>	ug/kg	14.0	0.64	1	12/10/18 12:55	12/12/18 02:50	53-70-3	
Fluoranthene	<b>1.1J</b>	ug/kg	14.0	0.60	1	12/10/18 12:55	12/12/18 02:50	206-44-0	B,L2
Fluorene	<b>&lt;0.44</b>	ug/kg	14.0	0.44	1	12/10/18 12:55	12/12/18 02:50	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.94</b>	ug/kg	14.0	0.94	1	12/10/18 12:55	12/12/18 02:50	193-39-5	
Naphthalene	<b>&lt;1.1</b>	ug/kg	14.0	1.1	1	12/10/18 12:55	12/12/18 02:50	91-20-3	
Phenanthrene	<b>&lt;2.7</b>	ug/kg	14.0	2.7	1	12/10/18 12:55	12/12/18 02:50	85-01-8	
Pyrene	<b>&lt;2.1</b>	ug/kg	14.0	2.1	1	12/10/18 12:55	12/12/18 02:50	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	42-125		1	12/10/18 12:55	12/12/18 02:50	321-60-8	
p-Terphenyl-d14 (S)	58	%	57-125		1	12/10/18 12:55	12/12/18 02:50	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.30</b>	ug/kg	5.3	0.30	1	02/27/19 09:34	02/27/19 15:28	106-93-4	
Methylene Chloride	<b>&lt;4.9</b>	ug/kg	26.5	4.9	1	02/27/19 09:34	02/27/19 15:28	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-8 (3.0-5.0)**      **Lab ID: 10457092016**      Collected: 11/27/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	02/27/19 09:34	02/27/19 15:28	17060-07-0	5M, H3
Toluene-d8 (S)	90	%	75-125		1	02/27/19 09:34	02/27/19 15:28	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/27/19 09:34	02/27/19 15:28	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<31.1	ug/kg	99.0	31.1	1	12/10/18 10:49	12/10/18 14:47	630-20-6	
1,1,1-Trichloroethane	<46.1	ug/kg	99.0	46.1	1	12/10/18 10:49	12/10/18 14:47	71-55-6	
1,1,2,2-Tetrachloroethane	<17.4	ug/kg	99.0	17.4	1	12/10/18 10:49	12/10/18 14:47	79-34-5	
1,1,2-Trichloroethane	<11.8	ug/kg	99.0	11.8	1	12/10/18 10:49	12/10/18 14:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	<115	ug/kg	396	115	1	12/10/18 10:49	12/10/18 14:47	76-13-1	
1,1-Dichloroethane	<11.1	ug/kg	99.0	11.1	1	12/10/18 10:49	12/10/18 14:47	75-34-3	
1,1-Dichloroethene	<29.7	ug/kg	99.0	29.7	1	12/10/18 10:49	12/10/18 14:47	75-35-4	L2
1,1-Dichloropropene	<45.8	ug/kg	99.0	45.8	1	12/10/18 10:49	12/10/18 14:47	563-58-6	
1,2,3-Trichlorobenzene	<15.8	ug/kg	99.0	15.8	1	12/10/18 10:49	12/10/18 14:47	87-61-6	
1,2,3-Trichloropropane	<25.9	ug/kg	396	25.9	1	12/10/18 10:49	12/10/18 14:47	96-18-4	
1,2,4-Trichlorobenzene	<22.0	ug/kg	99.0	22.0	1	12/10/18 10:49	12/10/18 14:47	120-82-1	
1,2,4-Trimethylbenzene	<19.8	ug/kg	99.0	19.8	1	12/10/18 10:49	12/10/18 14:47	95-63-6	
1,2-Dibromo-3-chloropropane	<345	ug/kg	990	345	1	12/10/18 10:49	12/10/18 14:47	96-12-8	
1,2-Dibromoethane (EDB)	<10.4	ug/kg	99.0	10.4	1	12/10/18 10:49	12/10/18 14:47	106-93-4	
1,2-Dichlorobenzene	<4.0	ug/kg	99.0	4.0	1	12/10/18 10:49	12/10/18 14:47	95-50-1	
1,2-Dichloroethane	<10.9	ug/kg	99.0	10.9	1	12/10/18 10:49	12/10/18 14:47	107-06-2	
1,2-Dichloropropane	<17.1	ug/kg	99.0	17.1	1	12/10/18 10:49	12/10/18 14:47	78-87-5	
1,3,5-Trimethylbenzene	<15.8	ug/kg	99.0	15.8	1	12/10/18 10:49	12/10/18 14:47	108-67-8	
1,3-Dichlorobenzene	<3.6	ug/kg	99.0	3.6	1	12/10/18 10:49	12/10/18 14:47	541-73-1	
1,3-Dichloropropane	<13.7	ug/kg	99.0	13.7	1	12/10/18 10:49	12/10/18 14:47	142-28-9	
1,4-Dichlorobenzene	<6.1	ug/kg	99.0	6.1	1	12/10/18 10:49	12/10/18 14:47	106-46-7	
2,2-Dichloropropane	<12.4	ug/kg	396	12.4	1	12/10/18 10:49	12/10/18 14:47	594-20-7	
2-Butanone (MEK)	<52.7	ug/kg	495	52.7	1	12/10/18 10:49	12/10/18 14:47	78-93-3	
2-Chlorotoluene	<4.9	ug/kg	99.0	4.9	1	12/10/18 10:49	12/10/18 14:47	95-49-8	
4-Chlorotoluene	<5.1	ug/kg	99.0	5.1	1	12/10/18 10:49	12/10/18 14:47	106-43-4	
4-Methyl-2-pentanone (MIBK)	<20.6	ug/kg	495	20.6	1	12/10/18 10:49	12/10/18 14:47	108-10-1	
Acetone	<616	ug/kg	1980	616	1	12/10/18 10:49	12/10/18 14:47	67-64-1	
Allyl chloride	<83.0	ug/kg	396	83.0	1	12/10/18 10:49	12/10/18 14:47	107-05-1	
Benzene	<5.6	ug/kg	39.6	5.6	1	12/10/18 10:49	12/10/18 14:47	71-43-2	
Bromobenzene	<6.1	ug/kg	99.0	6.1	1	12/10/18 10:49	12/10/18 14:47	108-86-1	
Bromochloromethane	<34.3	ug/kg	99.0	34.3	1	12/10/18 10:49	12/10/18 14:47	74-97-5	
Bromodichloromethane	<33.9	ug/kg	99.0	33.9	1	12/10/18 10:49	12/10/18 14:47	75-27-4	
Bromoform	<150	ug/kg	396	150	1	12/10/18 10:49	12/10/18 14:47	75-25-2	
Bromomethane	<116	ug/kg	990	116	1	12/10/18 10:49	12/10/18 14:47	74-83-9	
Carbon tetrachloride	<47.3	ug/kg	99.0	47.3	1	12/10/18 10:49	12/10/18 14:47	56-23-5	
Chlorobenzene	<5.6	ug/kg	99.0	5.6	1	12/10/18 10:49	12/10/18 14:47	108-90-7	
Chloroethane	<51.5	ug/kg	990	51.5	1	12/10/18 10:49	12/10/18 14:47	75-00-3	
Chloroform	<49.5	ug/kg	99.0	49.5	1	12/10/18 10:49	12/10/18 14:47	67-66-3	
Chloromethane	<23.8	ug/kg	396	23.8	1	12/10/18 10:49	12/10/18 14:47	74-87-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
 Pace Project No.: 10457092

**Sample: DP-8 (3.0-5.0)**      **Lab ID: 10457092016**      Collected: 11/27/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromochloromethane	<11.5	ug/kg	396	11.5	1	12/10/18 10:49	12/10/18 14:47	124-48-1	
Dibromomethane	<18.2	ug/kg	99.0	18.2	1	12/10/18 10:49	12/10/18 14:47	74-95-3	L2
Dichlorodifluoromethane	<32.1	ug/kg	396	32.1	1	12/10/18 10:49	12/10/18 14:47	75-71-8	
Dichlorofluoromethane	<137	ug/kg	990	137	1	12/10/18 10:49	12/10/18 14:47	75-43-4	N2
Diethyl ether (Ethyl ether)	<60.6	ug/kg	396	60.6	1	12/10/18 10:49	12/10/18 14:47	60-29-7	
Ethylbenzene	<5.4	ug/kg	99.0	5.4	1	12/10/18 10:49	12/10/18 14:47	100-41-4	
Hexachloro-1,3-butadiene	<24.2	ug/kg	495	24.2	1	12/10/18 10:49	12/10/18 14:47	87-68-3	
Isopropylbenzene (Cumene)	<4.4	ug/kg	99.0	4.4	1	12/10/18 10:49	12/10/18 14:47	98-82-8	
Methyl-tert-butyl ether	<11.8	ug/kg	99.0	11.8	1	12/10/18 10:49	12/10/18 14:47	1634-04-4	
Methylene Chloride	<186	ug/kg	396	186	1	12/10/18 10:49	12/10/18 14:47	75-09-2	
Naphthalene	<92.7	ug/kg	396	92.7	1	12/10/18 10:49	12/10/18 14:47	91-20-3	
Styrene	<4.5	ug/kg	99.0	4.5	1	12/10/18 10:49	12/10/18 14:47	100-42-5	
Tetrachloroethene	<34.9	ug/kg	99.0	34.9	1	12/10/18 10:49	12/10/18 14:47	127-18-4	L2
Tetrahydrofuran	<144	ug/kg	3960	144	1	12/10/18 10:49	12/10/18 14:47	109-99-9	
Toluene	<24.2	ug/kg	99.0	24.2	1	12/10/18 10:49	12/10/18 14:47	108-88-3	
Trichloroethene	<15.3	ug/kg	99.0	15.3	1	12/10/18 10:49	12/10/18 14:47	79-01-6	L2
Trichlorofluoromethane	<173	ug/kg	396	173	1	12/10/18 10:49	12/10/18 14:47	75-69-4	
Vinyl chloride	<19.5	ug/kg	39.6	19.5	1	12/10/18 10:49	12/10/18 14:47	75-01-4	
Xylene (Total)	<23.0	ug/kg	297	23.0	1	12/10/18 10:49	12/10/18 14:47	1330-20-7	
cis-1,2-Dichloroethene	<16.4	ug/kg	99.0	16.4	1	12/10/18 10:49	12/10/18 14:47	156-59-2	
cis-1,3-Dichloropropene	<14.2	ug/kg	99.0	14.2	1	12/10/18 10:49	12/10/18 14:47	10061-01-5	
n-Butylbenzene	<47.1	ug/kg	99.0	47.1	1	12/10/18 10:49	12/10/18 14:47	104-51-8	
n-Propylbenzene	<5.3	ug/kg	99.0	5.3	1	12/10/18 10:49	12/10/18 14:47	103-65-1	
p-Isopropyltoluene	<30.1	ug/kg	99.0	30.1	1	12/10/18 10:49	12/10/18 14:47	99-87-6	
sec-Butylbenzene	<19.0	ug/kg	99.0	19.0	1	12/10/18 10:49	12/10/18 14:47	135-98-8	
tert-Butylbenzene	<19.0	ug/kg	99.0	19.0	1	12/10/18 10:49	12/10/18 14:47	98-06-6	
trans-1,2-Dichloroethene	<46.3	ug/kg	99.0	46.3	1	12/10/18 10:49	12/10/18 14:47	156-60-5	
trans-1,3-Dichloropropene	<13.8	ug/kg	99.0	13.8	1	12/10/18 10:49	12/10/18 14:47	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	91	%	75-125		1	12/10/18 10:49	12/10/18 14:47	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/10/18 10:49	12/10/18 14:47	2037-26-5	
4-Bromofluorobenzene (S)	107	%	75-125		1	12/10/18 10:49	12/10/18 14:47	460-00-4	

**Sample: DP-9 (0.0-2.0)**      **Lab ID: 10457092017**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	42.1	11.7	1	12/03/18 16:53	12/11/18 10:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.8	ug/kg	42.1	14.8	1	12/03/18 16:53	12/11/18 10:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.8	ug/kg	42.1	16.8	1	12/03/18 16:53	12/11/18 10:45	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.3	ug/kg	42.1	14.3	1	12/03/18 16:53	12/11/18 10:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	42.1	12.6	1	12/03/18 16:53	12/11/18 10:45	12672-29-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-9 (0.0-2.0)**      **Lab ID: 10457092017**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1254 (Aroclor 1254)	<12.4	ug/kg	42.1	12.4	1	12/03/18 16:53	12/11/18 10:45	11097-69-1	
PCB-1260 (Aroclor 1260)	66.7	ug/kg	42.1	10.1	1	12/03/18 16:53	12/11/18 10:45	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	93	%	48-125		1	12/03/18 16:53	12/11/18 10:45	877-09-8	
Decachlorobiphenyl (S)	79	%	30-134		1	12/03/18 16:53	12/11/18 10:45	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.1	3.1	1	11/30/18 17:47	12/02/18 22:41	68334-30-5	
Motor Oil Range	6.5J	mg/kg	12.8	5.5	1	11/30/18 17:47	12/02/18 22:41		
<b>Surrogates</b>									
n-Triacontane (S)	68	%	50-150		1	11/30/18 17:47	12/02/18 22:41	638-68-6	
o-Terphenyl (S)	92	%	50-150		1	11/30/18 17:47	12/02/18 22:41	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.83	mg/kg	6.4	0.83	1	12/07/18 17:37	12/10/18 08:06		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/07/18 17:37	12/10/18 08:06	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.1	2.3	5	12/06/18 08:15	12/11/18 11:14	7440-36-0	D3
Arsenic	1.7J	mg/kg	6.1	1.2	5	12/06/18 08:15	12/11/18 11:14	7440-38-2	D3
Beryllium	<0.081	mg/kg	1.5	0.081	5	12/06/18 08:15	12/11/18 11:14	7440-41-7	D3
Cadmium	0.26J	mg/kg	0.91	0.12	5	12/06/18 08:15	12/11/18 11:14	7440-43-9	D3
Chromium	7.5	mg/kg	3.0	0.52	5	12/06/18 08:15	12/11/18 11:14	7440-47-3	
Copper	18.6	mg/kg	3.0	0.34	5	12/06/18 08:15	12/11/18 11:14	7440-50-8	
Lead	5.3	mg/kg	3.0	0.69	5	12/06/18 08:15	12/11/18 11:14	7439-92-1	
Nickel	8.2	mg/kg	6.1	0.38	5	12/06/18 08:15	12/11/18 11:14	7440-02-0	
Selenium	<2.0	mg/kg	6.1	2.0	5	12/06/18 08:15	12/11/18 11:14	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 08:15	12/11/18 11:14	7440-22-4	D3
Thallium	4.3J	mg/kg	6.1	1.4	5	12/06/18 08:15	12/11/18 11:14	7440-28-0	D3
Zinc	53.4	mg/kg	6.1	2.7	5	12/06/18 08:15	12/11/18 11:14	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0090	mg/kg	0.023	0.0090	1	12/05/18 14:27	12/12/18 14:50	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.6	%	0.10	0.10	1		12/11/18 15:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.67	ug/kg	12.6	0.67	1	12/10/18 12:55	12/12/18 03:13	90-12-0	
2-Methylnaphthalene	<0.64	ug/kg	12.6	0.64	1	12/10/18 12:55	12/12/18 03:13	91-57-6	
Acenaphthene	<0.52	ug/kg	12.6	0.52	1	12/10/18 12:55	12/12/18 03:13	83-32-9	
Acenaphthylene	<0.62	ug/kg	12.6	0.62	1	12/10/18 12:55	12/12/18 03:13	208-96-8	
Anthracene	<0.59	ug/kg	12.6	0.59	1	12/10/18 12:55	12/12/18 03:13	120-12-7	
Benzo(a)anthracene	2.2J	ug/kg	12.6	1.4	1	12/10/18 12:55	12/12/18 03:13	56-55-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-9 (0.0-2.0)**      **Lab ID: 10457092017**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Benzo(a)pyrene	<b>2.0J</b>	ug/kg	12.6	0.87	1	12/10/18 12:55	12/12/18 03:13	50-32-8	
Benzo(b)fluoranthene	<b>3.0J</b>	ug/kg	12.6	0.47	1	12/10/18 12:55	12/12/18 03:13	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.80</b>	ug/kg	12.6	0.80	1	12/10/18 12:55	12/12/18 03:13	191-24-2	
Benzo(k)fluoranthene	<b>1.6J</b>	ug/kg	12.6	1.1	1	12/10/18 12:55	12/12/18 03:13	207-08-9	
Chrysene	<b>2.8J</b>	ug/kg	12.6	1.7	1	12/10/18 12:55	12/12/18 03:13	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.58</b>	ug/kg	12.6	0.58	1	12/10/18 12:55	12/12/18 03:13	53-70-3	
Fluoranthene	<b>4.0J</b>	ug/kg	12.6	0.54	1	12/10/18 12:55	12/12/18 03:13	206-44-0	B,L2
Fluorene	<b>&lt;0.39</b>	ug/kg	12.6	0.39	1	12/10/18 12:55	12/12/18 03:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.84</b>	ug/kg	12.6	0.84	1	12/10/18 12:55	12/12/18 03:13	193-39-5	
Naphthalene	<b>&lt;0.97</b>	ug/kg	12.6	0.97	1	12/10/18 12:55	12/12/18 03:13	91-20-3	
Phenanthrene	<b>&lt;2.4</b>	ug/kg	12.6	2.4	1	12/10/18 12:55	12/12/18 03:13	85-01-8	
Pyrene	<b>3.5J</b>	ug/kg	12.6	1.9	1	12/10/18 12:55	12/12/18 03:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	42-125		1	12/10/18 12:55	12/12/18 03:13	321-60-8	
p-Terphenyl-d14 (S)	64	%	57-125		1	12/10/18 12:55	12/12/18 03:13	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.29</b>	ug/kg	5.1	0.29	1	02/27/19 09:34	02/27/19 15:47	106-93-4	
Methylene Chloride	<b>&lt;4.6</b>	ug/kg	25.3	4.6	1	02/27/19 09:34	02/27/19 15:47	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/27/19 09:34	02/27/19 15:47	17060-07-0	5M,H3
Toluene-d8 (S)	90	%	75-125		1	02/27/19 09:34	02/27/19 15:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/27/19 09:34	02/27/19 15:47	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;19.8</b>	ug/kg	63.1	19.8	1	12/10/18 10:49	12/10/18 15:04	630-20-6	
1,1,1-Trichloroethane	<b>&lt;29.4</b>	ug/kg	63.1	29.4	1	12/10/18 10:49	12/10/18 15:04	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;11.1</b>	ug/kg	63.1	11.1	1	12/10/18 10:49	12/10/18 15:04	79-34-5	
1,1,2-Trichloroethane	<b>&lt;7.6</b>	ug/kg	63.1	7.6	1	12/10/18 10:49	12/10/18 15:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;73.2</b>	ug/kg	253	73.2	1	12/10/18 10:49	12/10/18 15:04	76-13-1	
1,1-Dichloroethane	<b>&lt;7.1</b>	ug/kg	63.1	7.1	1	12/10/18 10:49	12/10/18 15:04	75-34-3	
1,1-Dichloroethene	<b>&lt;18.9</b>	ug/kg	63.1	18.9	1	12/10/18 10:49	12/10/18 15:04	75-35-4	L2
1,1-Dichloropropene	<b>&lt;29.2</b>	ug/kg	63.1	29.2	1	12/10/18 10:49	12/10/18 15:04	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;10.1</b>	ug/kg	63.1	10.1	1	12/10/18 10:49	12/10/18 15:04	87-61-6	
1,2,3-Trichloropropane	<b>&lt;16.5</b>	ug/kg	253	16.5	1	12/10/18 10:49	12/10/18 15:04	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;14.0</b>	ug/kg	63.1	14.0	1	12/10/18 10:49	12/10/18 15:04	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;12.6</b>	ug/kg	63.1	12.6	1	12/10/18 10:49	12/10/18 15:04	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;220</b>	ug/kg	631	220	1	12/10/18 10:49	12/10/18 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;6.6</b>	ug/kg	63.1	6.6	1	12/10/18 10:49	12/10/18 15:04	106-93-4	
1,2-Dichlorobenzene	<b>&lt;2.6</b>	ug/kg	63.1	2.6	1	12/10/18 10:49	12/10/18 15:04	95-50-1	
1,2-Dichloroethane	<b>&lt;6.9</b>	ug/kg	63.1	6.9	1	12/10/18 10:49	12/10/18 15:04	107-06-2	
1,2-Dichloropropane	<b>&lt;10.9</b>	ug/kg	63.1	10.9	1	12/10/18 10:49	12/10/18 15:04	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;10.1</b>	ug/kg	63.1	10.1	1	12/10/18 10:49	12/10/18 15:04	108-67-8	
1,3-Dichlorobenzene	<b>&lt;2.3</b>	ug/kg	63.1	2.3	1	12/10/18 10:49	12/10/18 15:04	541-73-1	
1,3-Dichloropropane	<b>&lt;8.7</b>	ug/kg	63.1	8.7	1	12/10/18 10:49	12/10/18 15:04	142-28-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-9 (0.0-2.0)**      **Lab ID: 10457092017**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,4-Dichlorobenzene	<3.9	ug/kg	63.1	3.9	1	12/10/18 10:49	12/10/18 15:04	106-46-7	
2,2-Dichloropropane	<7.9	ug/kg	253	7.9	1	12/10/18 10:49	12/10/18 15:04	594-20-7	
2-Butanone (MEK)	<33.6	ug/kg	316	33.6	1	12/10/18 10:49	12/10/18 15:04	78-93-3	
2-Chlorotoluene	<3.1	ug/kg	63.1	3.1	1	12/10/18 10:49	12/10/18 15:04	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	63.1	3.2	1	12/10/18 10:49	12/10/18 15:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.1	ug/kg	316	13.1	1	12/10/18 10:49	12/10/18 15:04	108-10-1	
Acetone	<393	ug/kg	1260	393	1	12/10/18 10:49	12/10/18 15:04	67-64-1	
Allyl chloride	<52.9	ug/kg	253	52.9	1	12/10/18 10:49	12/10/18 15:04	107-05-1	
Benzene	<3.6	ug/kg	25.3	3.6	1	12/10/18 10:49	12/10/18 15:04	71-43-2	
Bromobenzene	<3.9	ug/kg	63.1	3.9	1	12/10/18 10:49	12/10/18 15:04	108-86-1	
Bromochloromethane	<21.8	ug/kg	63.1	21.8	1	12/10/18 10:49	12/10/18 15:04	74-97-5	
Bromodichloromethane	<21.6	ug/kg	63.1	21.6	1	12/10/18 10:49	12/10/18 15:04	75-27-4	
Bromoform	<95.6	ug/kg	253	95.6	1	12/10/18 10:49	12/10/18 15:04	75-25-2	
Bromomethane	<73.9	ug/kg	631	73.9	1	12/10/18 10:49	12/10/18 15:04	74-83-9	
Carbon tetrachloride	<30.2	ug/kg	63.1	30.2	1	12/10/18 10:49	12/10/18 15:04	56-23-5	
Chlorobenzene	<3.6	ug/kg	63.1	3.6	1	12/10/18 10:49	12/10/18 15:04	108-90-7	
Chloroethane	<32.8	ug/kg	631	32.8	1	12/10/18 10:49	12/10/18 15:04	75-00-3	
Chloroform	<31.6	ug/kg	63.1	31.6	1	12/10/18 10:49	12/10/18 15:04	67-66-3	
Chloromethane	<15.2	ug/kg	253	15.2	1	12/10/18 10:49	12/10/18 15:04	74-87-3	
Dibromochloromethane	<7.3	ug/kg	253	7.3	1	12/10/18 10:49	12/10/18 15:04	124-48-1	
Dibromomethane	<11.6	ug/kg	63.1	11.6	1	12/10/18 10:49	12/10/18 15:04	74-95-3	L2
Dichlorodifluoromethane	<20.5	ug/kg	253	20.5	1	12/10/18 10:49	12/10/18 15:04	75-71-8	
Dichlorofluoromethane	<87.2	ug/kg	631	87.2	1	12/10/18 10:49	12/10/18 15:04	75-43-4	N2
Diethyl ether (Ethyl ether)	<38.6	ug/kg	253	38.6	1	12/10/18 10:49	12/10/18 15:04	60-29-7	
Ethylbenzene	3.5J	ug/kg	63.1	3.4	1	12/10/18 10:49	12/10/18 15:04	100-41-4	
Hexachloro-1,3-butadiene	<15.4	ug/kg	316	15.4	1	12/10/18 10:49	12/10/18 15:04	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	63.1	2.8	1	12/10/18 10:49	12/10/18 15:04	98-82-8	
Methyl-tert-butyl ether	<7.5	ug/kg	63.1	7.5	1	12/10/18 10:49	12/10/18 15:04	1634-04-4	
Methylene Chloride	<119	ug/kg	253	119	1	12/10/18 10:49	12/10/18 15:04	75-09-2	
Naphthalene	<59.1	ug/kg	253	59.1	1	12/10/18 10:49	12/10/18 15:04	91-20-3	
Styrene	<2.9	ug/kg	63.1	2.9	1	12/10/18 10:49	12/10/18 15:04	100-42-5	
Tetrachloroethene	<22.2	ug/kg	63.1	22.2	1	12/10/18 10:49	12/10/18 15:04	127-18-4	L2
Tetrahydrofuran	<91.8	ug/kg	2530	91.8	1	12/10/18 10:49	12/10/18 15:04	109-99-9	
Toluene	<15.4	ug/kg	63.1	15.4	1	12/10/18 10:49	12/10/18 15:04	108-88-3	
Trichloroethene	<9.7	ug/kg	63.1	9.7	1	12/10/18 10:49	12/10/18 15:04	79-01-6	L2
Trichlorofluoromethane	<110	ug/kg	253	110	1	12/10/18 10:49	12/10/18 15:04	75-69-4	
Vinyl chloride	<12.4	ug/kg	25.3	12.4	1	12/10/18 10:49	12/10/18 15:04	75-01-4	
Xylene (Total)	<14.6	ug/kg	189	14.6	1	12/10/18 10:49	12/10/18 15:04	1330-20-7	
cis-1,2-Dichloroethene	<10.5	ug/kg	63.1	10.5	1	12/10/18 10:49	12/10/18 15:04	156-59-2	
cis-1,3-Dichloropropene	<9.0	ug/kg	63.1	9.0	1	12/10/18 10:49	12/10/18 15:04	10061-01-5	
n-Butylbenzene	<30.1	ug/kg	63.1	30.1	1	12/10/18 10:49	12/10/18 15:04	104-51-8	
n-Propylbenzene	<3.4	ug/kg	63.1	3.4	1	12/10/18 10:49	12/10/18 15:04	103-65-1	
p-Isopropyltoluene	<19.2	ug/kg	63.1	19.2	1	12/10/18 10:49	12/10/18 15:04	99-87-6	
sec-Butylbenzene	<12.1	ug/kg	63.1	12.1	1	12/10/18 10:49	12/10/18 15:04	135-98-8	
tert-Butylbenzene	<12.1	ug/kg	63.1	12.1	1	12/10/18 10:49	12/10/18 15:04	98-06-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-9 (0.0-2.0)**      **Lab ID: 10457092017**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,2-Dichloroethene	<29.5	ug/kg	63.1	29.5	1	12/10/18 10:49	12/10/18 15:04	156-60-5	
trans-1,3-Dichloropropene	<8.8	ug/kg	63.1	8.8	1	12/10/18 10:49	12/10/18 15:04	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	90	%	75-125		1	12/10/18 10:49	12/10/18 15:04	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 15:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 15:04	460-00-4	

**Sample: DP-9 (3.0-5.0)**      **Lab ID: 10457092018**      Collected: 11/27/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.8	ug/kg	46.1	12.8	1	12/03/18 16:53	12/11/18 11:00	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.2	ug/kg	46.1	16.2	1	12/03/18 16:53	12/11/18 11:00	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.4	ug/kg	46.1	18.4	1	12/03/18 16:53	12/11/18 11:00	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	46.1	15.6	1	12/03/18 16:53	12/11/18 11:00	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.8	ug/kg	46.1	13.8	1	12/03/18 16:53	12/11/18 11:00	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.6	ug/kg	46.1	13.6	1	12/03/18 16:53	12/11/18 11:00	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.0	ug/kg	46.1	11.0	1	12/03/18 16:53	12/11/18 11:00	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	90	%	48-125		1	12/03/18 16:53	12/11/18 11:00	877-09-8	
Decachlorobiphenyl (S)	83	%	30-134		1	12/03/18 16:53	12/11/18 11:00	2051-24-3	

**NWTPH-Dx GCS**      Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	<3.4	mg/kg	20.9	3.4	1	11/30/18 17:47	12/02/18 22:32	68334-30-5	
Motor Oil Range	<6.0	mg/kg	13.9	6.0	1	11/30/18 17:47	12/02/18 22:32		
<b>Surrogates</b>									
n-Triacontane (S)	52	%	50-150		1	11/30/18 17:47	12/02/18 22:32	638-68-6	
o-Terphenyl (S)	54	%	50-150		1	11/30/18 17:47	12/02/18 22:32	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<1.0	mg/kg	7.9	1.0	1	12/07/18 17:37	12/10/18 08:23		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/07/18 17:37	12/10/18 08:23	98-08-8	

**6010D MET ICP**      Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	<0.48	mg/kg	1.3	0.48	1	12/06/18 08:15	12/10/18 16:58	7440-36-0	
Arsenic	0.93J	mg/kg	1.3	0.26	1	12/06/18 08:15	12/10/18 16:58	7440-38-2	
Beryllium	0.040J	mg/kg	0.32	0.017	1	12/06/18 08:15	12/10/18 16:58	7440-41-7	
Cadmium	<0.026	mg/kg	0.19	0.026	1	12/06/18 08:15	12/10/18 16:58	7440-43-9	
Chromium	4.5	mg/kg	0.64	0.11	1	12/06/18 08:15	12/10/18 16:58	7440-47-3	
Copper	10.7	mg/kg	0.64	0.071	1	12/06/18 08:15	12/10/18 16:58	7440-50-8	
Lead	2.4	mg/kg	0.64	0.14	1	12/06/18 08:15	12/10/18 16:58	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-9 (3.0-5.0)**      **Lab ID: 10457092018**      Collected: 11/27/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Nickel	4.9	mg/kg	1.3	0.081	1	12/06/18 08:15	12/10/18 16:58	7440-02-0	
Selenium	<0.42	mg/kg	1.3	0.42	1	12/06/18 08:15	12/10/18 16:58	7782-49-2	
Silver	<0.047	mg/kg	0.64	0.047	1	12/06/18 08:15	12/10/18 16:58	7440-22-4	
Thallium	<0.30	mg/kg	1.3	0.30	1	12/06/18 08:15	12/10/18 16:58	7440-28-0	
Zinc	18.7	mg/kg	1.3	0.56	1	12/06/18 08:15	12/10/18 16:58	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.011	mg/kg	0.028	0.011	1	12/05/18 14:27	12/12/18 14:52	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.5	%	0.10	0.10	1		12/11/18 15:25		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.74	ug/kg	13.9	0.74	1	12/10/18 12:55	12/12/18 03:36	90-12-0	
2-Methylnaphthalene	<0.70	ug/kg	13.9	0.70	1	12/10/18 12:55	12/12/18 03:36	91-57-6	
Acenaphthene	<0.57	ug/kg	13.9	0.57	1	12/10/18 12:55	12/12/18 03:36	83-32-9	
Acenaphthylene	<0.69	ug/kg	13.9	0.69	1	12/10/18 12:55	12/12/18 03:36	208-96-8	
Anthracene	<0.65	ug/kg	13.9	0.65	1	12/10/18 12:55	12/12/18 03:36	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	13.9	1.5	1	12/10/18 12:55	12/12/18 03:36	56-55-3	
Benzo(a)pyrene	<0.95	ug/kg	13.9	0.95	1	12/10/18 12:55	12/12/18 03:36	50-32-8	
Benzo(b)fluoranthene	<0.52	ug/kg	13.9	0.52	1	12/10/18 12:55	12/12/18 03:36	205-99-2	
Benzo(g,h,i)perylene	<0.88	ug/kg	13.9	0.88	1	12/10/18 12:55	12/12/18 03:36	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	13.9	1.2	1	12/10/18 12:55	12/12/18 03:36	207-08-9	
Chrysene	<1.9	ug/kg	13.9	1.9	1	12/10/18 12:55	12/12/18 03:36	218-01-9	
Dibenz(a,h)anthracene	<0.64	ug/kg	13.9	0.64	1	12/10/18 12:55	12/12/18 03:36	53-70-3	
Fluoranthene	1.2J	ug/kg	13.9	0.59	1	12/10/18 12:55	12/12/18 03:36	206-44-0	B,L2
Fluorene	<0.43	ug/kg	13.9	0.43	1	12/10/18 12:55	12/12/18 03:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.93	ug/kg	13.9	0.93	1	12/10/18 12:55	12/12/18 03:36	193-39-5	
Naphthalene	<1.1	ug/kg	13.9	1.1	1	12/10/18 12:55	12/12/18 03:36	91-20-3	
Phenanthrene	<2.7	ug/kg	13.9	2.7	1	12/10/18 12:55	12/12/18 03:36	85-01-8	
Pyrene	<2.1	ug/kg	13.9	2.1	1	12/10/18 12:55	12/12/18 03:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	42-125		1	12/10/18 12:55	12/12/18 03:36	321-60-8	
p-Terphenyl-d14 (S)	63	%	57-125		1	12/10/18 12:55	12/12/18 03:36	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.3	0.30	1	02/27/19 09:34	02/27/19 16:07	106-93-4	
Methylene Chloride	<4.9	ug/kg	26.5	4.9	1	02/27/19 09:34	02/27/19 16:07	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/27/19 09:34	02/27/19 16:07	17060-07-0	5M,H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 16:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 16:07	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.1	ug/kg	89.5	28.1	1	12/10/18 10:49	12/10/18 15:22	630-20-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-9 (3.0-5.0)**      **Lab ID: 10457092018**      Collected: 11/27/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1-Trichloroethane	<41.7	ug/kg	89.5	41.7	1	12/10/18 10:49	12/10/18 15:22	71-55-6	
1,1,2,2-Tetrachloroethane	<15.8	ug/kg	89.5	15.8	1	12/10/18 10:49	12/10/18 15:22	79-34-5	
1,1,2-Trichloroethane	<10.7	ug/kg	89.5	10.7	1	12/10/18 10:49	12/10/18 15:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	<104	ug/kg	358	104	1	12/10/18 10:49	12/10/18 15:22	76-13-1	
1,1-Dichloroethane	<10.0	ug/kg	89.5	10.0	1	12/10/18 10:49	12/10/18 15:22	75-34-3	
1,1-Dichloroethene	<26.9	ug/kg	89.5	26.9	1	12/10/18 10:49	12/10/18 15:22	75-35-4	L2
1,1-Dichloropropene	<41.4	ug/kg	89.5	41.4	1	12/10/18 10:49	12/10/18 15:22	563-58-6	
1,2,3-Trichlorobenzene	<14.3	ug/kg	89.5	14.3	1	12/10/18 10:49	12/10/18 15:22	87-61-6	
1,2,3-Trichloropropane	<23.5	ug/kg	358	23.5	1	12/10/18 10:49	12/10/18 15:22	96-18-4	
1,2,4-Trichlorobenzene	<19.9	ug/kg	89.5	19.9	1	12/10/18 10:49	12/10/18 15:22	120-82-1	
1,2,4-Trimethylbenzene	<17.9	ug/kg	89.5	17.9	1	12/10/18 10:49	12/10/18 15:22	95-63-6	
1,2-Dibromo-3-chloropropane	<312	ug/kg	895	312	1	12/10/18 10:49	12/10/18 15:22	96-12-8	
1,2-Dibromoethane (EDB)	<9.4	ug/kg	89.5	9.4	1	12/10/18 10:49	12/10/18 15:22	106-93-4	
1,2-Dichlorobenzene	<3.6	ug/kg	89.5	3.6	1	12/10/18 10:49	12/10/18 15:22	95-50-1	
1,2-Dichloroethane	<9.8	ug/kg	89.5	9.8	1	12/10/18 10:49	12/10/18 15:22	107-06-2	
1,2-Dichloropropane	<15.4	ug/kg	89.5	15.4	1	12/10/18 10:49	12/10/18 15:22	78-87-5	
1,3,5-Trimethylbenzene	<14.3	ug/kg	89.5	14.3	1	12/10/18 10:49	12/10/18 15:22	108-67-8	
1,3-Dichlorobenzene	<3.3	ug/kg	89.5	3.3	1	12/10/18 10:49	12/10/18 15:22	541-73-1	
1,3-Dichloropropane	<12.4	ug/kg	89.5	12.4	1	12/10/18 10:49	12/10/18 15:22	142-28-9	
1,4-Dichlorobenzene	<5.6	ug/kg	89.5	5.6	1	12/10/18 10:49	12/10/18 15:22	106-46-7	
2,2-Dichloropropane	<11.2	ug/kg	358	11.2	1	12/10/18 10:49	12/10/18 15:22	594-20-7	
2-Butanone (MEK)	<47.6	ug/kg	448	47.6	1	12/10/18 10:49	12/10/18 15:22	78-93-3	
2-Chlorotoluene	<4.4	ug/kg	89.5	4.4	1	12/10/18 10:49	12/10/18 15:22	95-49-8	
4-Chlorotoluene	<4.6	ug/kg	89.5	4.6	1	12/10/18 10:49	12/10/18 15:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<18.6	ug/kg	448	18.6	1	12/10/18 10:49	12/10/18 15:22	108-10-1	
Acetone	<557	ug/kg	1790	557	1	12/10/18 10:49	12/10/18 15:22	67-64-1	
Allyl chloride	<75.0	ug/kg	358	75.0	1	12/10/18 10:49	12/10/18 15:22	107-05-1	
Benzene	<5.0	ug/kg	35.8	5.0	1	12/10/18 10:49	12/10/18 15:22	71-43-2	
Bromobenzene	<5.5	ug/kg	89.5	5.5	1	12/10/18 10:49	12/10/18 15:22	108-86-1	
Bromochloromethane	<31.0	ug/kg	89.5	31.0	1	12/10/18 10:49	12/10/18 15:22	74-97-5	
Bromodichloromethane	<30.6	ug/kg	89.5	30.6	1	12/10/18 10:49	12/10/18 15:22	75-27-4	
Bromoform	<136	ug/kg	358	136	1	12/10/18 10:49	12/10/18 15:22	75-25-2	
Bromomethane	<105	ug/kg	895	105	1	12/10/18 10:49	12/10/18 15:22	74-83-9	
Carbon tetrachloride	<42.8	ug/kg	89.5	42.8	1	12/10/18 10:49	12/10/18 15:22	56-23-5	
Chlorobenzene	<5.0	ug/kg	89.5	5.0	1	12/10/18 10:49	12/10/18 15:22	108-90-7	
Chloroethane	<46.5	ug/kg	895	46.5	1	12/10/18 10:49	12/10/18 15:22	75-00-3	
Chloroform	<44.8	ug/kg	89.5	44.8	1	12/10/18 10:49	12/10/18 15:22	67-66-3	
Chloromethane	<21.5	ug/kg	358	21.5	1	12/10/18 10:49	12/10/18 15:22	74-87-3	
Dibromochloromethane	<10.4	ug/kg	358	10.4	1	12/10/18 10:49	12/10/18 15:22	124-48-1	
Dibromomethane	<16.4	ug/kg	89.5	16.4	1	12/10/18 10:49	12/10/18 15:22	74-95-3	L2
Dichlorodifluoromethane	<29.0	ug/kg	358	29.0	1	12/10/18 10:49	12/10/18 15:22	75-71-8	
Dichlorofluoromethane	<124	ug/kg	895	124	1	12/10/18 10:49	12/10/18 15:22	75-43-4	N2
Diethyl ether (Ethyl ether)	<54.8	ug/kg	358	54.8	1	12/10/18 10:49	12/10/18 15:22	60-29-7	
Ethylbenzene	<4.9	ug/kg	89.5	4.9	1	12/10/18 10:49	12/10/18 15:22	100-41-4	
Hexachloro-1,3-butadiene	<21.8	ug/kg	448	21.8	1	12/10/18 10:49	12/10/18 15:22	87-68-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-9 (3.0-5.0)**      **Lab ID: 10457092018**      Collected: 11/27/18 12:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Isopropylbenzene (Cumene)	<4.0	ug/kg	89.5	4.0	1	12/10/18 10:49	12/10/18 15:22	98-82-8	
Methyl-tert-butyl ether	<10.7	ug/kg	89.5	10.7	1	12/10/18 10:49	12/10/18 15:22	1634-04-4	
Methylene Chloride	<168	ug/kg	358	168	1	12/10/18 10:49	12/10/18 15:22	75-09-2	
Naphthalene	<83.8	ug/kg	358	83.8	1	12/10/18 10:49	12/10/18 15:22	91-20-3	
Styrene	<4.1	ug/kg	89.5	4.1	1	12/10/18 10:49	12/10/18 15:22	100-42-5	
Tetrachloroethene	<31.5	ug/kg	89.5	31.5	1	12/10/18 10:49	12/10/18 15:22	127-18-4	L2
Tetrahydrofuran	<130	ug/kg	3580	130	1	12/10/18 10:49	12/10/18 15:22	109-99-9	
Toluene	<21.8	ug/kg	89.5	21.8	1	12/10/18 10:49	12/10/18 15:22	108-88-3	
Trichloroethene	<13.8	ug/kg	89.5	13.8	1	12/10/18 10:49	12/10/18 15:22	79-01-6	L2
Trichlorofluoromethane	<156	ug/kg	358	156	1	12/10/18 10:49	12/10/18 15:22	75-69-4	
Vinyl chloride	<17.6	ug/kg	35.8	17.6	1	12/10/18 10:49	12/10/18 15:22	75-01-4	
Xylene (Total)	<20.8	ug/kg	269	20.8	1	12/10/18 10:49	12/10/18 15:22	1330-20-7	
cis-1,2-Dichloroethene	<14.8	ug/kg	89.5	14.8	1	12/10/18 10:49	12/10/18 15:22	156-59-2	
cis-1,3-Dichloropropene	<12.8	ug/kg	89.5	12.8	1	12/10/18 10:49	12/10/18 15:22	10061-01-5	
n-Butylbenzene	<42.6	ug/kg	89.5	42.6	1	12/10/18 10:49	12/10/18 15:22	104-51-8	
n-Propylbenzene	<4.8	ug/kg	89.5	4.8	1	12/10/18 10:49	12/10/18 15:22	103-65-1	
p-Isopropyltoluene	<27.2	ug/kg	89.5	27.2	1	12/10/18 10:49	12/10/18 15:22	99-87-6	
sec-Butylbenzene	<17.2	ug/kg	89.5	17.2	1	12/10/18 10:49	12/10/18 15:22	135-98-8	
tert-Butylbenzene	<17.2	ug/kg	89.5	17.2	1	12/10/18 10:49	12/10/18 15:22	98-06-6	
trans-1,2-Dichloroethene	<41.9	ug/kg	89.5	41.9	1	12/10/18 10:49	12/10/18 15:22	156-60-5	
trans-1,3-Dichloropropene	<12.4	ug/kg	89.5	12.4	1	12/10/18 10:49	12/10/18 15:22	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	85	%	75-125		1	12/10/18 10:49	12/10/18 15:22	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 15:22	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	12/10/18 10:49	12/10/18 15:22	460-00-4	

**Sample: DP-10 (0.0-2.0)**      **Lab ID: 10457092019**      Collected: 11/27/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	42.2	11.7	1	12/03/18 16:53	12/11/18 11:15	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.8	ug/kg	42.2	14.8	1	12/03/18 16:53	12/11/18 11:15	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.9	ug/kg	42.2	16.9	1	12/03/18 16:53	12/11/18 11:15	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.3	ug/kg	42.2	14.3	1	12/03/18 16:53	12/11/18 11:15	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	42.2	12.6	1	12/03/18 16:53	12/11/18 11:15	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.4	ug/kg	42.2	12.4	1	12/03/18 16:53	12/11/18 11:15	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.1	ug/kg	42.2	10.1	1	12/03/18 16:53	12/11/18 11:15	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/03/18 16:53	12/11/18 11:15	877-09-8	
Decachlorobiphenyl (S)	66	%	30-134		1	12/03/18 16:53	12/11/18 11:15	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-10 (0.0-2.0)**      **Lab ID: 10457092019**      Collected: 11/27/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	18.9	3.1	1	11/30/18 17:47	12/02/18 23:00	68334-30-5	
Motor Oil Range	7.1J	mg/kg	12.6	5.5	1	11/30/18 17:47	12/02/18 23:00		
<b>Surrogates</b>									
n-Triacontane (S)	68	%	50-150		1	11/30/18 17:47	12/02/18 23:00	638-68-6	
o-Terphenyl (S)	83	%	50-150		1	11/30/18 17:47	12/02/18 23:00	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.93	mg/kg	7.1	0.93	1	12/07/18 17:37	12/10/18 09:22		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	108	%	50-150		1	12/07/18 17:37	12/10/18 09:22	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.2	2.3	5	12/06/18 08:15	12/11/18 11:15	7440-36-0	D3
Arsenic	1.7J	mg/kg	6.2	1.3	5	12/06/18 08:15	12/11/18 11:15	7440-38-2	D3
Beryllium	0.11J	mg/kg	1.6	0.083	5	12/06/18 08:15	12/11/18 11:15	7440-41-7	D3
Cadmium	0.22J	mg/kg	0.93	0.12	5	12/06/18 08:15	12/11/18 11:15	7440-43-9	D3
Chromium	8.0	mg/kg	3.1	0.53	5	12/06/18 08:15	12/11/18 11:15	7440-47-3	
Copper	18.5	mg/kg	3.1	0.35	5	12/06/18 08:15	12/11/18 11:15	7440-50-8	
Lead	8.7	mg/kg	3.1	0.70	5	12/06/18 08:15	12/11/18 11:15	7439-92-1	
Nickel	7.7	mg/kg	6.2	0.39	5	12/06/18 08:15	12/11/18 11:15	7440-02-0	
Selenium	<2.0	mg/kg	6.2	2.0	5	12/06/18 08:15	12/11/18 11:15	7782-49-2	D3
Silver	<0.23	mg/kg	3.1	0.23	5	12/06/18 08:15	12/11/18 11:15	7440-22-4	D3
Thallium	3.4J	mg/kg	6.2	1.4	5	12/06/18 08:15	12/11/18 11:15	7440-28-0	D3
Zinc	65.1	mg/kg	6.2	2.7	5	12/06/18 08:15	12/11/18 11:15	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.022	mg/kg	0.022	0.0088	1	12/05/18 14:27	12/12/18 14:54	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.9	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.68	ug/kg	12.7	0.68	1	12/10/18 12:55	12/13/18 21:38	90-12-0	
2-Methylnaphthalene	<0.64	ug/kg	12.7	0.64	1	12/10/18 12:55	12/13/18 21:38	91-57-6	
Acenaphthene	2.4J	ug/kg	12.7	0.52	1	12/10/18 12:55	12/13/18 21:38	83-32-9	
Acenaphthylene	1.1J	ug/kg	12.7	0.63	1	12/10/18 12:55	12/13/18 21:38	208-96-8	
Anthracene	22.9	ug/kg	12.7	0.59	1	12/10/18 12:55	12/13/18 21:38	120-12-7	
Benzo(a)anthracene	250	ug/kg	12.7	1.4	1	12/10/18 12:55	12/13/18 21:38	56-55-3	
Benzo(a)pyrene	196	ug/kg	12.7	0.87	1	12/10/18 12:55	12/13/18 21:38	50-32-8	
Benzo(b)fluoranthene	272	ug/kg	12.7	0.47	1	12/10/18 12:55	12/13/18 21:38	205-99-2	
Benzo(g,h,i)perylene	121	ug/kg	12.7	0.80	1	12/10/18 12:55	12/13/18 21:38	191-24-2	
Benzo(k)fluoranthene	108	ug/kg	12.7	1.1	1	12/10/18 12:55	12/13/18 21:38	207-08-9	
Chrysene	263	ug/kg	12.7	1.7	1	12/10/18 12:55	12/13/18 21:38	218-01-9	
Dibenz(a,h)anthracene	39.6	ug/kg	12.7	0.59	1	12/10/18 12:55	12/13/18 21:38	53-70-3	
Fluoranthene	347	ug/kg	12.7	0.54	1	12/10/18 12:55	12/13/18 21:38	206-44-0	L2

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-10 (0.0-2.0)**      **Lab ID: 10457092019**      Collected: 11/27/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Fluorene	<b>1.6J</b>	ug/kg	12.7	0.40	1	12/10/18 12:55	12/13/18 21:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>107</b>	ug/kg	12.7	0.85	1	12/10/18 12:55	12/13/18 21:38	193-39-5	
Naphthalene	<b>&lt;0.98</b>	ug/kg	12.7	0.98	1	12/10/18 12:55	12/13/18 21:38	91-20-3	
Phenanthrene	<b>47.5</b>	ug/kg	12.7	2.4	1	12/10/18 12:55	12/13/18 21:38	85-01-8	
Pyrene	<b>353</b>	ug/kg	12.7	1.9	1	12/10/18 12:55	12/13/18 21:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	42-125		1	12/10/18 12:55	12/13/18 21:38	321-60-8	
p-Terphenyl-d14 (S)	78	%	57-125		1	12/10/18 12:55	12/13/18 21:38	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.28</b>	ug/kg	4.9	0.28	1	02/27/19 09:34	02/27/19 16:26	106-93-4	
Methylene Chloride	<b>&lt;4.5</b>	ug/kg	24.4	4.5	1	02/27/19 09:34	02/27/19 16:26	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	02/27/19 09:34	02/27/19 16:26	17060-07-0	4M,H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 16:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/27/19 09:34	02/27/19 16:26	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;27.0</b>	ug/kg	86.0	27.0	1	12/10/18 10:49	12/10/18 15:39	630-20-6	
1,1,1-Trichloroethane	<b>&lt;40.1</b>	ug/kg	86.0	40.1	1	12/10/18 10:49	12/10/18 15:39	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;15.1</b>	ug/kg	86.0	15.1	1	12/10/18 10:49	12/10/18 15:39	79-34-5	
1,1,2-Trichloroethane	<b>&lt;10.3</b>	ug/kg	86.0	10.3	1	12/10/18 10:49	12/10/18 15:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;99.7</b>	ug/kg	344	99.7	1	12/10/18 10:49	12/10/18 15:39	76-13-1	
1,1-Dichloroethane	<b>&lt;9.6</b>	ug/kg	86.0	9.6	1	12/10/18 10:49	12/10/18 15:39	75-34-3	
1,1-Dichloroethene	<b>&lt;25.8</b>	ug/kg	86.0	25.8	1	12/10/18 10:49	12/10/18 15:39	75-35-4	L2
1,1-Dichloropropene	<b>&lt;39.7</b>	ug/kg	86.0	39.7	1	12/10/18 10:49	12/10/18 15:39	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;13.7</b>	ug/kg	86.0	13.7	1	12/10/18 10:49	12/10/18 15:39	87-61-6	
1,2,3-Trichloropropane	<b>&lt;22.5</b>	ug/kg	344	22.5	1	12/10/18 10:49	12/10/18 15:39	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;19.1</b>	ug/kg	86.0	19.1	1	12/10/18 10:49	12/10/18 15:39	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;17.2</b>	ug/kg	86.0	17.2	1	12/10/18 10:49	12/10/18 15:39	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;299</b>	ug/kg	860	299	1	12/10/18 10:49	12/10/18 15:39	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;9.0</b>	ug/kg	86.0	9.0	1	12/10/18 10:49	12/10/18 15:39	106-93-4	
1,2-Dichlorobenzene	<b>&lt;3.5</b>	ug/kg	86.0	3.5	1	12/10/18 10:49	12/10/18 15:39	95-50-1	
1,2-Dichloroethane	<b>&lt;9.5</b>	ug/kg	86.0	9.5	1	12/10/18 10:49	12/10/18 15:39	107-06-2	
1,2-Dichloropropane	<b>&lt;14.8</b>	ug/kg	86.0	14.8	1	12/10/18 10:49	12/10/18 15:39	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;13.7</b>	ug/kg	86.0	13.7	1	12/10/18 10:49	12/10/18 15:39	108-67-8	
1,3-Dichlorobenzene	<b>&lt;3.1</b>	ug/kg	86.0	3.1	1	12/10/18 10:49	12/10/18 15:39	541-73-1	
1,3-Dichloropropane	<b>&lt;11.9</b>	ug/kg	86.0	11.9	1	12/10/18 10:49	12/10/18 15:39	142-28-9	
1,4-Dichlorobenzene	<b>&lt;5.3</b>	ug/kg	86.0	5.3	1	12/10/18 10:49	12/10/18 15:39	106-46-7	
2,2-Dichloropropane	<b>&lt;10.7</b>	ug/kg	344	10.7	1	12/10/18 10:49	12/10/18 15:39	594-20-7	
2-Butanone (MEK)	<b>&lt;45.7</b>	ug/kg	430	45.7	1	12/10/18 10:49	12/10/18 15:39	78-93-3	
2-Chlorotoluene	<b>&lt;4.2</b>	ug/kg	86.0	4.2	1	12/10/18 10:49	12/10/18 15:39	95-49-8	
4-Chlorotoluene	<b>&lt;4.4</b>	ug/kg	86.0	4.4	1	12/10/18 10:49	12/10/18 15:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	<b>&lt;17.9</b>	ug/kg	430	17.9	1	12/10/18 10:49	12/10/18 15:39	108-10-1	
Acetone	<b>&lt;535</b>	ug/kg	1720	535	1	12/10/18 10:49	12/10/18 15:39	67-64-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-10 (0.0-2.0)**      **Lab ID: 10457092019**      Collected: 11/27/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Allyl chloride	<72.0	ug/kg	344	72.0	1	12/10/18 10:49	12/10/18 15:39	107-05-1	
Benzene	<4.8	ug/kg	34.4	4.8	1	12/10/18 10:49	12/10/18 15:39	71-43-2	
Bromobenzene	<5.3	ug/kg	86.0	5.3	1	12/10/18 10:49	12/10/18 15:39	108-86-1	
Bromochloromethane	<29.7	ug/kg	86.0	29.7	1	12/10/18 10:49	12/10/18 15:39	74-97-5	
Bromodichloromethane	<29.4	ug/kg	86.0	29.4	1	12/10/18 10:49	12/10/18 15:39	75-27-4	
Bromoform	<130	ug/kg	344	130	1	12/10/18 10:49	12/10/18 15:39	75-25-2	
Bromomethane	<101	ug/kg	860	101	1	12/10/18 10:49	12/10/18 15:39	74-83-9	
Carbon tetrachloride	<41.1	ug/kg	86.0	41.1	1	12/10/18 10:49	12/10/18 15:39	56-23-5	
Chlorobenzene	<4.8	ug/kg	86.0	4.8	1	12/10/18 10:49	12/10/18 15:39	108-90-7	
Chloroethane	<44.7	ug/kg	860	44.7	1	12/10/18 10:49	12/10/18 15:39	75-00-3	
Chloroform	<43.0	ug/kg	86.0	43.0	1	12/10/18 10:49	12/10/18 15:39	67-66-3	
Chloromethane	<20.6	ug/kg	344	20.6	1	12/10/18 10:49	12/10/18 15:39	74-87-3	
Dibromochloromethane	<10	ug/kg	344	10	1	12/10/18 10:49	12/10/18 15:39	124-48-1	
Dibromomethane	<15.8	ug/kg	86.0	15.8	1	12/10/18 10:49	12/10/18 15:39	74-95-3	L2
Dichlorodifluoromethane	<27.9	ug/kg	344	27.9	1	12/10/18 10:49	12/10/18 15:39	75-71-8	
Dichlorofluoromethane	<119	ug/kg	860	119	1	12/10/18 10:49	12/10/18 15:39	75-43-4	N2
Diethyl ether (Ethyl ether)	<52.6	ug/kg	344	52.6	1	12/10/18 10:49	12/10/18 15:39	60-29-7	
Ethylbenzene	<4.7	ug/kg	86.0	4.7	1	12/10/18 10:49	12/10/18 15:39	100-41-4	
Hexachloro-1,3-butadiene	<21.0	ug/kg	430	21.0	1	12/10/18 10:49	12/10/18 15:39	87-68-3	
Isopropylbenzene (Cumene)	<3.8	ug/kg	86.0	3.8	1	12/10/18 10:49	12/10/18 15:39	98-82-8	
Methyl-tert-butyl ether	<10.2	ug/kg	86.0	10.2	1	12/10/18 10:49	12/10/18 15:39	1634-04-4	
Methylene Chloride	<162	ug/kg	344	162	1	12/10/18 10:49	12/10/18 15:39	75-09-2	
Naphthalene	<80.5	ug/kg	344	80.5	1	12/10/18 10:49	12/10/18 15:39	91-20-3	
Styrene	<3.9	ug/kg	86.0	3.9	1	12/10/18 10:49	12/10/18 15:39	100-42-5	
Tetrachloroethene	<30.3	ug/kg	86.0	30.3	1	12/10/18 10:49	12/10/18 15:39	127-18-4	L2
Tetrahydrofuran	<125	ug/kg	3440	125	1	12/10/18 10:49	12/10/18 15:39	109-99-9	
Toluene	<21.0	ug/kg	86.0	21.0	1	12/10/18 10:49	12/10/18 15:39	108-88-3	
Trichloroethene	<13.3	ug/kg	86.0	13.3	1	12/10/18 10:49	12/10/18 15:39	79-01-6	L2
Trichlorofluoromethane	<150	ug/kg	344	150	1	12/10/18 10:49	12/10/18 15:39	75-69-4	
Vinyl chloride	<16.9	ug/kg	34.4	16.9	1	12/10/18 10:49	12/10/18 15:39	75-01-4	
Xylene (Total)	<19.9	ug/kg	258	19.9	1	12/10/18 10:49	12/10/18 15:39	1330-20-7	
cis-1,2-Dichloroethene	<14.3	ug/kg	86.0	14.3	1	12/10/18 10:49	12/10/18 15:39	156-59-2	
cis-1,3-Dichloropropene	<12.3	ug/kg	86.0	12.3	1	12/10/18 10:49	12/10/18 15:39	10061-01-5	
n-Butylbenzene	<40.9	ug/kg	86.0	40.9	1	12/10/18 10:49	12/10/18 15:39	104-51-8	
n-Propylbenzene	<4.6	ug/kg	86.0	4.6	1	12/10/18 10:49	12/10/18 15:39	103-65-1	
p-Isopropyltoluene	<26.1	ug/kg	86.0	26.1	1	12/10/18 10:49	12/10/18 15:39	99-87-6	
sec-Butylbenzene	<16.5	ug/kg	86.0	16.5	1	12/10/18 10:49	12/10/18 15:39	135-98-8	
tert-Butylbenzene	<16.5	ug/kg	86.0	16.5	1	12/10/18 10:49	12/10/18 15:39	98-06-6	
trans-1,2-Dichloroethene	<40.2	ug/kg	86.0	40.2	1	12/10/18 10:49	12/10/18 15:39	156-60-5	
trans-1,3-Dichloropropene	<12.0	ug/kg	86.0	12.0	1	12/10/18 10:49	12/10/18 15:39	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-125		1	12/10/18 10:49	12/10/18 15:39	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 15:39	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 15:39	460-00-4	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-10 (3.0-5.0) Lab ID: 10457092020** Collected: 11/27/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.0	ug/kg	46.8	13.0	1	12/03/18 16:53	12/11/18 11:31	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.4	ug/kg	46.8	16.4	1	12/03/18 16:53	12/11/18 11:31	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.7	ug/kg	46.8	18.7	1	12/03/18 16:53	12/11/18 11:31	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.9	ug/kg	46.8	15.9	1	12/03/18 16:53	12/11/18 11:31	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.0	ug/kg	46.8	14.0	1	12/03/18 16:53	12/11/18 11:31	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.8	ug/kg	46.8	13.8	1	12/03/18 16:53	12/11/18 11:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.2	ug/kg	46.8	11.2	1	12/03/18 16:53	12/11/18 11:31	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/03/18 16:53	12/11/18 11:31	877-09-8	
Decachlorobiphenyl (S)	75	%	30-134		1	12/03/18 16:53	12/11/18 11:31	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	21.3	3.4	1	11/30/18 17:47	12/02/18 22:23	68334-30-5	
Motor Oil Range	<6.2	mg/kg	14.2	6.2	1	11/30/18 17:47	12/02/18 22:23		
<b>Surrogates</b>									
n-Triacontane (S)	86	%	50-150		1	11/30/18 17:47	12/02/18 22:23	638-68-6	
o-Terphenyl (S)	91	%	50-150		1	11/30/18 17:47	12/02/18 22:23	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	8.8	1.2	1	12/07/18 17:37	12/10/18 09:39		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	113	%	50-150		1	12/07/18 17:37	12/10/18 09:39	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.52	mg/kg	1.4	0.52	1	12/06/18 08:15	12/10/18 17:02	7440-36-0	
Arsenic	1.6	mg/kg	1.4	0.28	1	12/06/18 08:15	12/10/18 17:02	7440-38-2	
Beryllium	0.031J	mg/kg	0.34	0.018	1	12/06/18 08:15	12/10/18 17:02	7440-41-7	
Cadmium	<0.027	mg/kg	0.21	0.027	1	12/06/18 08:15	12/10/18 17:02	7440-43-9	
Chromium	5.5	mg/kg	0.69	0.12	1	12/06/18 08:15	12/10/18 17:02	7440-47-3	
Copper	11.9	mg/kg	0.69	0.076	1	12/06/18 08:15	12/10/18 17:02	7440-50-8	
Lead	2.7	mg/kg	0.69	0.16	1	12/06/18 08:15	12/10/18 17:02	7439-92-1	
Nickel	5.9	mg/kg	1.4	0.087	1	12/06/18 08:15	12/10/18 17:02	7440-02-0	
Selenium	<0.45	mg/kg	1.4	0.45	1	12/06/18 08:15	12/10/18 17:02	7782-49-2	
Silver	<0.050	mg/kg	0.69	0.050	1	12/06/18 08:15	12/10/18 17:02	7440-22-4	
Thallium	0.91J	mg/kg	1.4	0.32	1	12/06/18 08:15	12/10/18 17:02	7440-28-0	
Zinc	29.1	mg/kg	1.4	0.60	1	12/06/18 08:15	12/10/18 17:02	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.011	mg/kg	0.028	0.011	1	12/05/18 14:27	12/12/18 14:57	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.5	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.75	ug/kg	14.1	0.75	1	12/10/18 12:55	12/13/18 21:59	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-10 (3.0-5.0) Lab ID: 10457092020** Collected: 11/27/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
2-Methylnaphthalene	<0.71	ug/kg	14.1	0.71	1	12/10/18 12:55	12/13/18 21:59	91-57-6	
Acenaphthene	<0.58	ug/kg	14.1	0.58	1	12/10/18 12:55	12/13/18 21:59	83-32-9	
Acenaphthylene	<0.70	ug/kg	14.1	0.70	1	12/10/18 12:55	12/13/18 21:59	208-96-8	
Anthracene	<0.66	ug/kg	14.1	0.66	1	12/10/18 12:55	12/13/18 21:59	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	14.1	1.5	1	12/10/18 12:55	12/13/18 21:59	56-55-3	
Benzo(a)pyrene	<0.97	ug/kg	14.1	0.97	1	12/10/18 12:55	12/13/18 21:59	50-32-8	
Benzo(b)fluoranthene	<0.52	ug/kg	14.1	0.52	1	12/10/18 12:55	12/13/18 21:59	205-99-2	
Benzo(g,h,i)perylene	<0.89	ug/kg	14.1	0.89	1	12/10/18 12:55	12/13/18 21:59	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	14.1	1.2	1	12/10/18 12:55	12/13/18 21:59	207-08-9	
Chrysene	<1.9	ug/kg	14.1	1.9	1	12/10/18 12:55	12/13/18 21:59	218-01-9	
Dibenz(a,h)anthracene	<0.65	ug/kg	14.1	0.65	1	12/10/18 12:55	12/13/18 21:59	53-70-3	
Fluoranthene	1.6J	ug/kg	14.1	0.60	1	12/10/18 12:55	12/13/18 21:59	206-44-0	B,L2
Fluorene	0.53J	ug/kg	14.1	0.44	1	12/10/18 12:55	12/13/18 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.94	ug/kg	14.1	0.94	1	12/10/18 12:55	12/13/18 21:59	193-39-5	
Naphthalene	<1.1	ug/kg	14.1	1.1	1	12/10/18 12:55	12/13/18 21:59	91-20-3	
Phenanthrene	<2.7	ug/kg	14.1	2.7	1	12/10/18 12:55	12/13/18 21:59	85-01-8	
Pyrene	<2.2	ug/kg	14.1	2.2	1	12/10/18 12:55	12/13/18 21:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	53	%	42-125		1	12/10/18 12:55	12/13/18 21:59	321-60-8	
p-Terphenyl-d14 (S)	73	%	57-125		1	12/10/18 12:55	12/13/18 21:59	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.31	ug/kg	5.5	0.31	1	02/27/19 09:34	02/27/19 16:45	106-93-4	
Methylene Chloride	<5.1	ug/kg	27.7	5.1	1	02/27/19 09:34	02/27/19 16:45	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	02/27/19 09:34	02/27/19 16:45	17060-07-0	5M,H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 16:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/27/19 09:34	02/27/19 16:45	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<26.5	ug/kg	84.5	26.5	1	12/10/18 10:49	12/10/18 15:56	630-20-6	
1,1,1-Trichloroethane	<39.4	ug/kg	84.5	39.4	1	12/10/18 10:49	12/10/18 15:56	71-55-6	
1,1,2,2-Tetrachloroethane	<14.9	ug/kg	84.5	14.9	1	12/10/18 10:49	12/10/18 15:56	79-34-5	
1,1,2-Trichloroethane	<10.1	ug/kg	84.5	10.1	1	12/10/18 10:49	12/10/18 15:56	79-00-5	
1,1,2-Trichlorotrifluoroethane	<98.1	ug/kg	338	98.1	1	12/10/18 10:49	12/10/18 15:56	76-13-1	
1,1-Dichloroethane	<9.5	ug/kg	84.5	9.5	1	12/10/18 10:49	12/10/18 15:56	75-34-3	
1,1-Dichloroethene	<25.4	ug/kg	84.5	25.4	1	12/10/18 10:49	12/10/18 15:56	75-35-4	L2
1,1-Dichloropropene	<39.1	ug/kg	84.5	39.1	1	12/10/18 10:49	12/10/18 15:56	563-58-6	
1,2,3-Trichlorobenzene	<13.5	ug/kg	84.5	13.5	1	12/10/18 10:49	12/10/18 15:56	87-61-6	
1,2,3-Trichloropropane	<22.2	ug/kg	338	22.2	1	12/10/18 10:49	12/10/18 15:56	96-18-4	
1,2,4-Trichlorobenzene	<18.8	ug/kg	84.5	18.8	1	12/10/18 10:49	12/10/18 15:56	120-82-1	
1,2,4-Trimethylbenzene	<16.9	ug/kg	84.5	16.9	1	12/10/18 10:49	12/10/18 15:56	95-63-6	
1,2-Dibromo-3-chloropropane	<294	ug/kg	845	294	1	12/10/18 10:49	12/10/18 15:56	96-12-8	
1,2-Dibromoethane (EDB)	<8.9	ug/kg	84.5	8.9	1	12/10/18 10:49	12/10/18 15:56	106-93-4	
1,2-Dichlorobenzene	<3.4	ug/kg	84.5	3.4	1	12/10/18 10:49	12/10/18 15:56	95-50-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-10 (3.0-5.0) Lab ID: 10457092020** Collected: 11/27/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<9.3	ug/kg	84.5	9.3	1	12/10/18 10:49	12/10/18 15:56	107-06-2	
1,2-Dichloropropane	<14.6	ug/kg	84.5	14.6	1	12/10/18 10:49	12/10/18 15:56	78-87-5	
1,3,5-Trimethylbenzene	<13.5	ug/kg	84.5	13.5	1	12/10/18 10:49	12/10/18 15:56	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/kg	84.5	3.1	1	12/10/18 10:49	12/10/18 15:56	541-73-1	
1,3-Dichloropropane	<11.7	ug/kg	84.5	11.7	1	12/10/18 10:49	12/10/18 15:56	142-28-9	
1,4-Dichlorobenzene	<5.2	ug/kg	84.5	5.2	1	12/10/18 10:49	12/10/18 15:56	106-46-7	
2,2-Dichloropropane	<10.6	ug/kg	338	10.6	1	12/10/18 10:49	12/10/18 15:56	594-20-7	
2-Butanone (MEK)	<45.0	ug/kg	423	45.0	1	12/10/18 10:49	12/10/18 15:56	78-93-3	
2-Chlorotoluene	<4.2	ug/kg	84.5	4.2	1	12/10/18 10:49	12/10/18 15:56	95-49-8	
4-Chlorotoluene	<4.3	ug/kg	84.5	4.3	1	12/10/18 10:49	12/10/18 15:56	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.6	ug/kg	423	17.6	1	12/10/18 10:49	12/10/18 15:56	108-10-1	
Acetone	<526	ug/kg	1690	526	1	12/10/18 10:49	12/10/18 15:56	67-64-1	
Allyl chloride	<70.9	ug/kg	338	70.9	1	12/10/18 10:49	12/10/18 15:56	107-05-1	
Benzene	<4.8	ug/kg	33.8	4.8	1	12/10/18 10:49	12/10/18 15:56	71-43-2	
Bromobenzene	<5.2	ug/kg	84.5	5.2	1	12/10/18 10:49	12/10/18 15:56	108-86-1	
Bromochloromethane	<29.3	ug/kg	84.5	29.3	1	12/10/18 10:49	12/10/18 15:56	74-97-5	
Bromodichloromethane	<28.9	ug/kg	84.5	28.9	1	12/10/18 10:49	12/10/18 15:56	75-27-4	
Bromoform	<128	ug/kg	338	128	1	12/10/18 10:49	12/10/18 15:56	75-25-2	
Bromomethane	<98.9	ug/kg	845	98.9	1	12/10/18 10:49	12/10/18 15:56	74-83-9	
Carbon tetrachloride	<40.4	ug/kg	84.5	40.4	1	12/10/18 10:49	12/10/18 15:56	56-23-5	
Chlorobenzene	<4.8	ug/kg	84.5	4.8	1	12/10/18 10:49	12/10/18 15:56	108-90-7	
Chloroethane	<44.0	ug/kg	845	44.0	1	12/10/18 10:49	12/10/18 15:56	75-00-3	
Chloroform	<42.3	ug/kg	84.5	42.3	1	12/10/18 10:49	12/10/18 15:56	67-66-3	
Chloromethane	<20.3	ug/kg	338	20.3	1	12/10/18 10:49	12/10/18 15:56	74-87-3	
Dibromochloromethane	<9.8	ug/kg	338	9.8	1	12/10/18 10:49	12/10/18 15:56	124-48-1	
Dibromomethane	<15.5	ug/kg	84.5	15.5	1	12/10/18 10:49	12/10/18 15:56	74-95-3	L2
Dichlorodifluoromethane	<27.4	ug/kg	338	27.4	1	12/10/18 10:49	12/10/18 15:56	75-71-8	
Dichlorofluoromethane	<117	ug/kg	845	117	1	12/10/18 10:49	12/10/18 15:56	75-43-4	N2
Diethyl ether (Ethyl ether)	<51.7	ug/kg	338	51.7	1	12/10/18 10:49	12/10/18 15:56	60-29-7	
Ethylbenzene	<4.6	ug/kg	84.5	4.6	1	12/10/18 10:49	12/10/18 15:56	100-41-4	
Hexachloro-1,3-butadiene	<20.6	ug/kg	423	20.6	1	12/10/18 10:49	12/10/18 15:56	87-68-3	
Isopropylbenzene (Cumene)	<3.8	ug/kg	84.5	3.8	1	12/10/18 10:49	12/10/18 15:56	98-82-8	
Methyl-tert-butyl ether	<10.1	ug/kg	84.5	10.1	1	12/10/18 10:49	12/10/18 15:56	1634-04-4	
Methylene Chloride	<159	ug/kg	338	159	1	12/10/18 10:49	12/10/18 15:56	75-09-2	
Naphthalene	<79.1	ug/kg	338	79.1	1	12/10/18 10:49	12/10/18 15:56	91-20-3	
Styrene	<3.9	ug/kg	84.5	3.9	1	12/10/18 10:49	12/10/18 15:56	100-42-5	
Tetrachloroethene	<29.8	ug/kg	84.5	29.8	1	12/10/18 10:49	12/10/18 15:56	127-18-4	L2
Tetrahydrofuran	<123	ug/kg	3380	123	1	12/10/18 10:49	12/10/18 15:56	109-99-9	
Toluene	<20.6	ug/kg	84.5	20.6	1	12/10/18 10:49	12/10/18 15:56	108-88-3	
Trichloroethene	<13.0	ug/kg	84.5	13.0	1	12/10/18 10:49	12/10/18 15:56	79-01-6	L2
Trichlorofluoromethane	<147	ug/kg	338	147	1	12/10/18 10:49	12/10/18 15:56	75-69-4	
Vinyl chloride	<16.6	ug/kg	33.8	16.6	1	12/10/18 10:49	12/10/18 15:56	75-01-4	
Xylene (Total)	<19.6	ug/kg	254	19.6	1	12/10/18 10:49	12/10/18 15:56	1330-20-7	
cis-1,2-Dichloroethene	<14.0	ug/kg	84.5	14.0	1	12/10/18 10:49	12/10/18 15:56	156-59-2	
cis-1,3-Dichloropropene	<12.1	ug/kg	84.5	12.1	1	12/10/18 10:49	12/10/18 15:56	10061-01-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-10 (3.0-5.0)**      **Lab ID: 10457092020**      Collected: 11/27/18 12:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<40.2	ug/kg	84.5	40.2	1	12/10/18 10:49	12/10/18 15:56	104-51-8	
n-Propylbenzene	<4.5	ug/kg	84.5	4.5	1	12/10/18 10:49	12/10/18 15:56	103-65-1	
p-Isopropyltoluene	<25.7	ug/kg	84.5	25.7	1	12/10/18 10:49	12/10/18 15:56	99-87-6	
sec-Butylbenzene	<16.2	ug/kg	84.5	16.2	1	12/10/18 10:49	12/10/18 15:56	135-98-8	
tert-Butylbenzene	<16.2	ug/kg	84.5	16.2	1	12/10/18 10:49	12/10/18 15:56	98-06-6	
trans-1,2-Dichloroethene	<39.6	ug/kg	84.5	39.6	1	12/10/18 10:49	12/10/18 15:56	156-60-5	
trans-1,3-Dichloropropene	<11.8	ug/kg	84.5	11.8	1	12/10/18 10:49	12/10/18 15:56	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-125		1	12/10/18 10:49	12/10/18 15:56	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/10/18 10:49	12/10/18 15:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 10:49	12/10/18 15:56	460-00-4	

**Sample: DP-11 (0.0-2.0)**      **Lab ID: 10457092021**      Collected: 11/27/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.5	ug/kg	41.2	11.5	1	12/03/18 16:53	12/11/18 11:46	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.5	ug/kg	41.2	14.5	1	12/03/18 16:53	12/11/18 11:46	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.5	ug/kg	41.2	16.5	1	12/03/18 16:53	12/11/18 11:46	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.0	ug/kg	41.2	14.0	1	12/03/18 16:53	12/11/18 11:46	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.3	ug/kg	41.2	12.3	1	12/03/18 16:53	12/11/18 11:46	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.1	ug/kg	41.2	12.1	1	12/03/18 16:53	12/11/18 11:46	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.8	ug/kg	41.2	9.8	1	12/03/18 16:53	12/11/18 11:46	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	90	%	48-125		1	12/03/18 16:53	12/11/18 11:46	877-09-8	
Decachlorobiphenyl (S)	83	%	30-134		1	12/03/18 16:53	12/11/18 11:46	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.7	3.0	1	12/03/18 14:05	12/12/18 20:34	68334-30-5	
Motor Oil Range	5.7J	mg/kg	12.5	5.4	1	12/03/18 14:05	12/12/18 20:34		
<b>Surrogates</b>									
n-Triacontane (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 20:34	638-68-6	
o-Terphenyl (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 20:34	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.91	mg/kg	7.0	0.91	1	12/07/18 17:37	12/10/18 09:56		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	12/07/18 17:37	12/10/18 09:56	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.9	2.2	5	12/06/18 14:26	12/11/18 11:19	7440-36-0	D3,M1
Arsenic	2.2J	mg/kg	5.9	1.2	5	12/06/18 14:26	12/11/18 11:19	7440-38-2	D3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-11 (0.0-2.0)**      **Lab ID: 10457092021**      Collected: 11/27/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Beryllium	<0.079	mg/kg	1.5	0.079	5	12/06/18 14:26	12/11/18 11:19	7440-41-7	D3
Cadmium	0.18J	mg/kg	0.88	0.12	5	12/06/18 14:26	12/11/18 11:19	7440-43-9	D3
Chromium	8.1	mg/kg	2.9	0.50	5	12/06/18 14:26	12/11/18 11:19	7440-47-3	
Copper	16.6	mg/kg	2.9	0.33	5	12/06/18 14:26	12/11/18 11:19	7440-50-8	
Lead	6.6	mg/kg	2.9	0.67	5	12/06/18 14:26	12/11/18 11:19	7439-92-1	
Nickel	7.7	mg/kg	5.9	0.37	5	12/06/18 14:26	12/11/18 11:19	7440-02-0	
Selenium	<1.9	mg/kg	5.9	1.9	5	12/06/18 14:26	12/11/18 11:19	7782-49-2	D3
Silver	<0.21	mg/kg	2.9	0.21	5	12/06/18 14:26	12/11/18 11:19	7440-22-4	D3
Thallium	3.8J	mg/kg	5.9	1.4	5	12/06/18 14:26	12/11/18 11:19	7440-28-0	D3
Zinc	61.3	mg/kg	5.9	2.6	5	12/06/18 14:26	12/11/18 11:19	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	0.11J	mg/kg	0.12	0.041	20	12/05/19 07:35	12/05/19 23:37	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0089	mg/kg	0.022	0.0089	1	12/06/18 14:27	12/12/18 16:23	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	19.9	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.66	ug/kg	12.3	0.66	1	12/04/18 16:22	12/05/18 17:30	90-12-0	
2-Methylnaphthalene	<0.62	ug/kg	12.3	0.62	1	12/04/18 16:22	12/05/18 17:30	91-57-6	
Acenaphthene	1.4J	ug/kg	12.3	0.50	1	12/04/18 16:22	12/05/18 17:30	83-32-9	
Acenaphthylene	3.7J	ug/kg	12.3	0.61	1	12/04/18 16:22	12/05/18 17:30	208-96-8	
Anthracene	1.7J	ug/kg	12.3	0.58	1	12/04/18 16:22	12/05/18 17:30	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	12.3	1.3	1	12/04/18 16:22	12/05/18 17:30	56-55-3	
Benzo(a)pyrene	1.1J	ug/kg	12.3	0.85	1	12/04/18 16:22	12/05/18 17:30	50-32-8	
Benzo(b)fluoranthene	<0.46	ug/kg	12.3	0.46	1	12/04/18 16:22	12/05/18 17:30	205-99-2	
Benzo(g,h,i)perylene	<0.78	ug/kg	12.3	0.78	1	12/04/18 16:22	12/05/18 17:30	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.3	1.0	1	12/04/18 16:22	12/05/18 17:30	207-08-9	
Chrysene	<1.7	ug/kg	12.3	1.7	1	12/04/18 16:22	12/05/18 17:30	218-01-9	
Dibenz(a,h)anthracene	<0.57	ug/kg	12.3	0.57	1	12/04/18 16:22	12/05/18 17:30	53-70-3	
Fluoranthene	1.6J	ug/kg	12.3	0.53	1	12/04/18 16:22	12/05/18 17:30	206-44-0	L2
Fluorene	1.7J	ug/kg	12.3	0.39	1	12/04/18 16:22	12/05/18 17:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.83	ug/kg	12.3	0.83	1	12/04/18 16:22	12/05/18 17:30	193-39-5	
Naphthalene	<0.95	ug/kg	12.3	0.95	1	12/04/18 16:22	12/05/18 17:30	91-20-3	
Phenanthrene	2.6J	ug/kg	12.3	2.4	1	12/04/18 16:22	12/05/18 17:30	85-01-8	
Pyrene	<1.9	ug/kg	12.3	1.9	1	12/04/18 16:22	12/05/18 17:30	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	42-125		1	12/04/18 16:22	12/05/18 17:30	321-60-8	
p-Terphenyl-d14 (S)	73	%	57-125		1	12/04/18 16:22	12/05/18 17:30	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-11 (0.0-2.0)**      **Lab ID: 10457092021**      Collected: 11/27/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	02/27/19 09:34	02/27/19 17:04	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.0	4.4	1	02/27/19 09:34	02/27/19 17:04	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/27/19 09:34	02/27/19 17:04	17060-07-0	5M,H3
Toluene-d8 (S)	90	%	75-125		1	02/27/19 09:34	02/27/19 17:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/27/19 09:34	02/27/19 17:04	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<22.6	ug/kg	72.0	22.6	1	12/10/18 10:49	12/10/18 16:14	630-20-6	
1,1,1-Trichloroethane	<33.5	ug/kg	72.0	33.5	1	12/10/18 10:49	12/10/18 16:14	71-55-6	
1,1,1,2-Tetrachloroethane	<12.7	ug/kg	72.0	12.7	1	12/10/18 10:49	12/10/18 16:14	79-34-5	
1,1,2-Trichloroethane	<8.6	ug/kg	72.0	8.6	1	12/10/18 10:49	12/10/18 16:14	79-00-5	
1,1,2-Trichlorotrifluoroethane	<83.5	ug/kg	288	83.5	1	12/10/18 10:49	12/10/18 16:14	76-13-1	
1,1-Dichloroethane	<8.1	ug/kg	72.0	8.1	1	12/10/18 10:49	12/10/18 16:14	75-34-3	
1,1-Dichloroethene	<21.6	ug/kg	72.0	21.6	1	12/10/18 10:49	12/10/18 16:14	75-35-4	L2
1,1-Dichloropropene	<33.2	ug/kg	72.0	33.2	1	12/10/18 10:49	12/10/18 16:14	563-58-6	
1,2,3-Trichlorobenzene	<11.5	ug/kg	72.0	11.5	1	12/10/18 10:49	12/10/18 16:14	87-61-6	
1,2,3-Trichloropropane	<18.9	ug/kg	288	18.9	1	12/10/18 10:49	12/10/18 16:14	96-18-4	
1,2,4-Trichlorobenzene	<16.0	ug/kg	72.0	16.0	1	12/10/18 10:49	12/10/18 16:14	120-82-1	
1,2,4-Trimethylbenzene	<14.4	ug/kg	72.0	14.4	1	12/10/18 10:49	12/10/18 16:14	95-63-6	
1,2-Dibromo-3-chloropropane	<250	ug/kg	720	250	1	12/10/18 10:49	12/10/18 16:14	96-12-8	
1,2-Dibromoethane (EDB)	<7.6	ug/kg	72.0	7.6	1	12/10/18 10:49	12/10/18 16:14	106-93-4	
1,2-Dichlorobenzene	<2.9	ug/kg	72.0	2.9	1	12/10/18 10:49	12/10/18 16:14	95-50-1	
1,2-Dichloroethane	<7.9	ug/kg	72.0	7.9	1	12/10/18 10:49	12/10/18 16:14	107-06-2	
1,2-Dichloropropane	<12.4	ug/kg	72.0	12.4	1	12/10/18 10:49	12/10/18 16:14	78-87-5	
1,3,5-Trimethylbenzene	<11.5	ug/kg	72.0	11.5	1	12/10/18 10:49	12/10/18 16:14	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	72.0	2.6	1	12/10/18 10:49	12/10/18 16:14	541-73-1	
1,3-Dichloropropane	<10	ug/kg	72.0	10	1	12/10/18 10:49	12/10/18 16:14	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/kg	72.0	4.5	1	12/10/18 10:49	12/10/18 16:14	106-46-7	
2,2-Dichloropropane	<9.0	ug/kg	288	9.0	1	12/10/18 10:49	12/10/18 16:14	594-20-7	
2-Butanone (MEK)	<38.3	ug/kg	360	38.3	1	12/10/18 10:49	12/10/18 16:14	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	72.0	3.5	1	12/10/18 10:49	12/10/18 16:14	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	72.0	3.7	1	12/10/18 10:49	12/10/18 16:14	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.0	ug/kg	360	15.0	1	12/10/18 10:49	12/10/18 16:14	108-10-1	
Acetone	<448	ug/kg	1440	448	1	12/10/18 10:49	12/10/18 16:14	67-64-1	
Allyl chloride	<60.3	ug/kg	288	60.3	1	12/10/18 10:49	12/10/18 16:14	107-05-1	
Benzene	<4.1	ug/kg	28.8	4.1	1	12/10/18 10:49	12/10/18 16:14	71-43-2	
Bromobenzene	<4.4	ug/kg	72.0	4.4	1	12/10/18 10:49	12/10/18 16:14	108-86-1	
Bromochloromethane	<24.9	ug/kg	72.0	24.9	1	12/10/18 10:49	12/10/18 16:14	74-97-5	
Bromodichloromethane	<24.6	ug/kg	72.0	24.6	1	12/10/18 10:49	12/10/18 16:14	75-27-4	
Bromoform	<109	ug/kg	288	109	1	12/10/18 10:49	12/10/18 16:14	75-25-2	
Bromomethane	<84.2	ug/kg	720	84.2	1	12/10/18 10:49	12/10/18 16:14	74-83-9	
Carbon tetrachloride	<34.4	ug/kg	72.0	34.4	1	12/10/18 10:49	12/10/18 16:14	56-23-5	
Chlorobenzene	<4.1	ug/kg	72.0	4.1	1	12/10/18 10:49	12/10/18 16:14	108-90-7	
Chloroethane	<37.4	ug/kg	720	37.4	1	12/10/18 10:49	12/10/18 16:14	75-00-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-11 (0.0-2.0)**      **Lab ID: 10457092021**      Collected: 11/27/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Chloroform	<36.0	ug/kg	72.0	36.0	1	12/10/18 10:49	12/10/18 16:14	67-66-3	
Chloromethane	<17.3	ug/kg	288	17.3	1	12/10/18 10:49	12/10/18 16:14	74-87-3	
Dibromochloromethane	<8.3	ug/kg	288	8.3	1	12/10/18 10:49	12/10/18 16:14	124-48-1	
Dibromomethane	<13.2	ug/kg	72.0	13.2	1	12/10/18 10:49	12/10/18 16:14	74-95-3	L2
Dichlorodifluoromethane	<23.3	ug/kg	288	23.3	1	12/10/18 10:49	12/10/18 16:14	75-71-8	
Dichlorofluoromethane	<99.5	ug/kg	720	99.5	1	12/10/18 10:49	12/10/18 16:14	75-43-4	N2
Diethyl ether (Ethyl ether)	<44.0	ug/kg	288	44.0	1	12/10/18 10:49	12/10/18 16:14	60-29-7	
Ethylbenzene	<3.9	ug/kg	72.0	3.9	1	12/10/18 10:49	12/10/18 16:14	100-41-4	
Hexachloro-1,3-butadiene	<17.6	ug/kg	360	17.6	1	12/10/18 10:49	12/10/18 16:14	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	72.0	3.2	1	12/10/18 10:49	12/10/18 16:14	98-82-8	
Methyl-tert-butyl ether	<8.6	ug/kg	72.0	8.6	1	12/10/18 10:49	12/10/18 16:14	1634-04-4	
Methylene Chloride	<135	ug/kg	288	135	1	12/10/18 10:49	12/10/18 16:14	75-09-2	
Naphthalene	<67.4	ug/kg	288	67.4	1	12/10/18 10:49	12/10/18 16:14	91-20-3	
Styrene	<3.3	ug/kg	72.0	3.3	1	12/10/18 10:49	12/10/18 16:14	100-42-5	
Tetrachloroethene	<25.3	ug/kg	72.0	25.3	1	12/10/18 10:49	12/10/18 16:14	127-18-4	L2
Tetrahydrofuran	<105	ug/kg	2880	105	1	12/10/18 10:49	12/10/18 16:14	109-99-9	
Toluene	<17.6	ug/kg	72.0	17.6	1	12/10/18 10:49	12/10/18 16:14	108-88-3	
Trichloroethene	<11.1	ug/kg	72.0	11.1	1	12/10/18 10:49	12/10/18 16:14	79-01-6	L2
Trichlorofluoromethane	<126	ug/kg	288	126	1	12/10/18 10:49	12/10/18 16:14	75-69-4	
Vinyl chloride	<14.2	ug/kg	28.8	14.2	1	12/10/18 10:49	12/10/18 16:14	75-01-4	
Xylene (Total)	<16.7	ug/kg	216	16.7	1	12/10/18 10:49	12/10/18 16:14	1330-20-7	
cis-1,2-Dichloroethene	<11.9	ug/kg	72.0	11.9	1	12/10/18 10:49	12/10/18 16:14	156-59-2	
cis-1,3-Dichloropropene	<10.3	ug/kg	72.0	10.3	1	12/10/18 10:49	12/10/18 16:14	10061-01-5	
n-Butylbenzene	<34.3	ug/kg	72.0	34.3	1	12/10/18 10:49	12/10/18 16:14	104-51-8	
n-Propylbenzene	<3.8	ug/kg	72.0	3.8	1	12/10/18 10:49	12/10/18 16:14	103-65-1	
p-Isopropyltoluene	<21.9	ug/kg	72.0	21.9	1	12/10/18 10:49	12/10/18 16:14	99-87-6	
sec-Butylbenzene	<13.8	ug/kg	72.0	13.8	1	12/10/18 10:49	12/10/18 16:14	135-98-8	
tert-Butylbenzene	<13.8	ug/kg	72.0	13.8	1	12/10/18 10:49	12/10/18 16:14	98-06-6	
trans-1,2-Dichloroethene	<33.7	ug/kg	72.0	33.7	1	12/10/18 10:49	12/10/18 16:14	156-60-5	
trans-1,3-Dichloropropene	<10.0	ug/kg	72.0	10.0	1	12/10/18 10:49	12/10/18 16:14	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/10/18 10:49	12/10/18 16:14	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 10:49	12/10/18 16:14	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 16:14	460-00-4	

**Sample: DP-11 (3.0-5.0)**      **Lab ID: 10457092022**      Collected: 11/27/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.0	ug/kg	43.0	12.0	1	12/03/18 16:53	12/11/18 12:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.1	ug/kg	43.0	15.1	1	12/03/18 16:53	12/11/18 12:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.2	ug/kg	43.0	17.2	1	12/03/18 16:53	12/11/18 12:01	11141-16-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-11 (3.0-5.0)**      **Lab ID: 10457092022**      Collected: 11/27/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1242 (Aroclor 1242)	<14.6	ug/kg	43.0	14.6	1	12/03/18 16:53	12/11/18 12:01	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.9	ug/kg	43.0	12.9	1	12/03/18 16:53	12/11/18 12:01	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	43.0	12.6	1	12/03/18 16:53	12/11/18 12:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.3	ug/kg	43.0	10.3	1	12/03/18 16:53	12/11/18 12:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	83	%	48-125		1	12/03/18 16:53	12/11/18 12:01	877-09-8	
Decachlorobiphenyl (S)	80	%	30-134		1	12/03/18 16:53	12/11/18 12:01	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.2	mg/kg	19.5	3.2	1	12/03/18 14:05	12/12/18 21:08	68334-30-5	
Motor Oil Range	<5.7	mg/kg	13.0	5.7	1	12/03/18 14:05	12/12/18 21:08		
<b>Surrogates</b>									
n-Triacontane (S)	99	%	50-150		1	12/03/18 14:05	12/12/18 21:08	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 21:08	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.0	mg/kg	7.7	1.0	1	12/07/18 17:37	12/10/18 10:13		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	105	%	50-150		1	12/07/18 17:37	12/10/18 10:13	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.9	2.2	5	12/06/18 14:26	12/11/18 11:30	7440-36-0	D3
Arsenic	<1.2	mg/kg	5.9	1.2	5	12/06/18 14:26	12/11/18 11:30	7440-38-2	D3
Beryllium	<0.080	mg/kg	1.5	0.080	5	12/06/18 14:26	12/11/18 11:30	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.89	0.12	5	12/06/18 14:26	12/11/18 11:30	7440-43-9	D3
Chromium	7.6	mg/kg	3.0	0.51	5	12/06/18 14:26	12/11/18 11:30	7440-47-3	
Copper	12.3	mg/kg	3.0	0.33	5	12/06/18 14:26	12/11/18 11:30	7440-50-8	
Lead	3.7	mg/kg	3.0	0.67	5	12/06/18 14:26	12/11/18 11:30	7439-92-1	
Nickel	6.3	mg/kg	5.9	0.37	5	12/06/18 14:26	12/11/18 11:30	7440-02-0	
Selenium	<2.0	mg/kg	5.9	2.0	5	12/06/18 14:26	12/11/18 11:30	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 14:26	12/11/18 11:30	7440-22-4	D3
Thallium	2.4J	mg/kg	5.9	1.4	5	12/06/18 14:26	12/11/18 11:30	7440-28-0	D3
Zinc	44.8	mg/kg	5.9	2.6	5	12/06/18 14:26	12/11/18 11:30	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0099	mg/kg	0.025	0.0099	1	12/06/18 14:27	12/12/18 16:30	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.6	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	13.0	0.69	1	12/04/18 16:22	12/05/18 17:51	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	13.0	0.65	1	12/04/18 16:22	12/05/18 17:51	91-57-6	
Acenaphthene	<0.53	ug/kg	13.0	0.53	1	12/04/18 16:22	12/05/18 17:51	83-32-9	
Acenaphthylene	3.9J	ug/kg	13.0	0.64	1	12/04/18 16:22	12/05/18 17:51	208-96-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-11 (3.0-5.0)**      **Lab ID: 10457092022**      Collected: 11/27/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
Anthracene	1.5J	ug/kg	13.0	0.61	1	12/04/18 16:22	12/05/18 17:51	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	13.0	1.4	1	12/04/18 16:22	12/05/18 17:51	56-55-3	
Benzo(a)pyrene	<0.89	ug/kg	13.0	0.89	1	12/04/18 16:22	12/05/18 17:51	50-32-8	
Benzo(b)fluoranthene	<0.48	ug/kg	13.0	0.48	1	12/04/18 16:22	12/05/18 17:51	205-99-2	
Benzo(g,h,i)perylene	<0.82	ug/kg	13.0	0.82	1	12/04/18 16:22	12/05/18 17:51	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	13.0	1.1	1	12/04/18 16:22	12/05/18 17:51	207-08-9	
Chrysene	<1.8	ug/kg	13.0	1.8	1	12/04/18 16:22	12/05/18 17:51	218-01-9	
Dibenz(a,h)anthracene	<0.60	ug/kg	13.0	0.60	1	12/04/18 16:22	12/05/18 17:51	53-70-3	
Fluoranthene	1.3J	ug/kg	13.0	0.55	1	12/04/18 16:22	12/05/18 17:51	206-44-0	L2
Fluorene	1.8J	ug/kg	13.0	0.41	1	12/04/18 16:22	12/05/18 17:51	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.87	ug/kg	13.0	0.87	1	12/04/18 16:22	12/05/18 17:51	193-39-5	
Naphthalene	<1.0	ug/kg	13.0	1.0	1	12/04/18 16:22	12/05/18 17:51	91-20-3	
Phenanthrene	2.7J	ug/kg	13.0	2.5	1	12/04/18 16:22	12/05/18 17:51	85-01-8	
Pyrene	<2.0	ug/kg	13.0	2.0	1	12/04/18 16:22	12/05/18 17:51	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	42-125		1	12/04/18 16:22	12/05/18 17:51	321-60-8	
p-Terphenyl-d14 (S)	61	%	57-125		1	12/04/18 16:22	12/05/18 17:51	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	02/27/19 09:34	02/27/19 17:23	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.4	4.5	1	02/27/19 09:34	02/27/19 17:23	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	02/27/19 09:34	02/27/19 17:23	17060-07-0	5M, H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 17:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 17:23	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<23.2	ug/kg	73.9	23.2	1	12/10/18 10:49	12/10/18 16:31	630-20-6	
1,1,1-Trichloroethane	<34.4	ug/kg	73.9	34.4	1	12/10/18 10:49	12/10/18 16:31	71-55-6	
1,1,2,2-Tetrachloroethane	<13.0	ug/kg	73.9	13.0	1	12/10/18 10:49	12/10/18 16:31	79-34-5	
1,1,2-Trichloroethane	<8.8	ug/kg	73.9	8.8	1	12/10/18 10:49	12/10/18 16:31	79-00-5	
1,1,2-Trichlorotrifluoroethane	<85.7	ug/kg	296	85.7	1	12/10/18 10:49	12/10/18 16:31	76-13-1	
1,1-Dichloroethane	<8.3	ug/kg	73.9	8.3	1	12/10/18 10:49	12/10/18 16:31	75-34-3	
1,1-Dichloroethene	<22.2	ug/kg	73.9	22.2	1	12/10/18 10:49	12/10/18 16:31	75-35-4	L2
1,1-Dichloropropene	<34.1	ug/kg	73.9	34.1	1	12/10/18 10:49	12/10/18 16:31	563-58-6	
1,2,3-Trichlorobenzene	<11.8	ug/kg	73.9	11.8	1	12/10/18 10:49	12/10/18 16:31	87-61-6	
1,2,3-Trichloropropane	<19.4	ug/kg	296	19.4	1	12/10/18 10:49	12/10/18 16:31	96-18-4	
1,2,4-Trichlorobenzene	<16.4	ug/kg	73.9	16.4	1	12/10/18 10:49	12/10/18 16:31	120-82-1	
1,2,4-Trimethylbenzene	<14.8	ug/kg	73.9	14.8	1	12/10/18 10:49	12/10/18 16:31	95-63-6	
1,2-Dibromo-3-chloropropane	<257	ug/kg	739	257	1	12/10/18 10:49	12/10/18 16:31	96-12-8	
1,2-Dibromoethane (EDB)	<7.8	ug/kg	73.9	7.8	1	12/10/18 10:49	12/10/18 16:31	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	73.9	3.0	1	12/10/18 10:49	12/10/18 16:31	95-50-1	
1,2-Dichloroethane	<8.1	ug/kg	73.9	8.1	1	12/10/18 10:49	12/10/18 16:31	107-06-2	
1,2-Dichloropropane	<12.7	ug/kg	73.9	12.7	1	12/10/18 10:49	12/10/18 16:31	78-87-5	
1,3,5-Trimethylbenzene	<11.8	ug/kg	73.9	11.8	1	12/10/18 10:49	12/10/18 16:31	108-67-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-11 (3.0-5.0)**      **Lab ID: 10457092022**      Collected: 11/27/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<2.7	ug/kg	73.9	2.7	1	12/10/18 10:49	12/10/18 16:31	541-73-1	
1,3-Dichloropropane	<10.2	ug/kg	73.9	10.2	1	12/10/18 10:49	12/10/18 16:31	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	73.9	4.6	1	12/10/18 10:49	12/10/18 16:31	106-46-7	
2,2-Dichloropropane	<9.2	ug/kg	296	9.2	1	12/10/18 10:49	12/10/18 16:31	594-20-7	
2-Butanone (MEK)	<39.3	ug/kg	370	39.3	1	12/10/18 10:49	12/10/18 16:31	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	73.9	3.6	1	12/10/18 10:49	12/10/18 16:31	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	73.9	3.8	1	12/10/18 10:49	12/10/18 16:31	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.4	ug/kg	370	15.4	1	12/10/18 10:49	12/10/18 16:31	108-10-1	
Acetone	<460	ug/kg	1480	460	1	12/10/18 10:49	12/10/18 16:31	67-64-1	
Allyl chloride	<61.9	ug/kg	296	61.9	1	12/10/18 10:49	12/10/18 16:31	107-05-1	
Benzene	<4.2	ug/kg	29.6	4.2	1	12/10/18 10:49	12/10/18 16:31	71-43-2	
Bromobenzene	<4.5	ug/kg	73.9	4.5	1	12/10/18 10:49	12/10/18 16:31	108-86-1	
Bromochloromethane	<25.6	ug/kg	73.9	25.6	1	12/10/18 10:49	12/10/18 16:31	74-97-5	
Bromodichloromethane	<25.3	ug/kg	73.9	25.3	1	12/10/18 10:49	12/10/18 16:31	75-27-4	
Bromoform	<112	ug/kg	296	112	1	12/10/18 10:49	12/10/18 16:31	75-25-2	
Bromomethane	<86.5	ug/kg	739	86.5	1	12/10/18 10:49	12/10/18 16:31	74-83-9	
Carbon tetrachloride	<35.3	ug/kg	73.9	35.3	1	12/10/18 10:49	12/10/18 16:31	56-23-5	
Chlorobenzene	<4.2	ug/kg	73.9	4.2	1	12/10/18 10:49	12/10/18 16:31	108-90-7	
Chloroethane	<38.4	ug/kg	739	38.4	1	12/10/18 10:49	12/10/18 16:31	75-00-3	
Chloroform	<37.0	ug/kg	73.9	37.0	1	12/10/18 10:49	12/10/18 16:31	67-66-3	
Chloromethane	<17.7	ug/kg	296	17.7	1	12/10/18 10:49	12/10/18 16:31	74-87-3	
Dibromochloromethane	<8.6	ug/kg	296	8.6	1	12/10/18 10:49	12/10/18 16:31	124-48-1	
Dibromomethane	<13.6	ug/kg	73.9	13.6	1	12/10/18 10:49	12/10/18 16:31	74-95-3	L2
Dichlorodifluoromethane	<23.9	ug/kg	296	23.9	1	12/10/18 10:49	12/10/18 16:31	75-71-8	
Dichlorofluoromethane	<102	ug/kg	739	102	1	12/10/18 10:49	12/10/18 16:31	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.2	ug/kg	296	45.2	1	12/10/18 10:49	12/10/18 16:31	60-29-7	
Ethylbenzene	<4.0	ug/kg	73.9	4.0	1	12/10/18 10:49	12/10/18 16:31	100-41-4	
Hexachloro-1,3-butadiene	<18.0	ug/kg	370	18.0	1	12/10/18 10:49	12/10/18 16:31	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	73.9	3.3	1	12/10/18 10:49	12/10/18 16:31	98-82-8	
Methyl-tert-butyl ether	<8.8	ug/kg	73.9	8.8	1	12/10/18 10:49	12/10/18 16:31	1634-04-4	
Methylene Chloride	<139	ug/kg	296	139	1	12/10/18 10:49	12/10/18 16:31	75-09-2	
Naphthalene	<69.2	ug/kg	296	69.2	1	12/10/18 10:49	12/10/18 16:31	91-20-3	
Styrene	<3.4	ug/kg	73.9	3.4	1	12/10/18 10:49	12/10/18 16:31	100-42-5	
Tetrachloroethene	<26.0	ug/kg	73.9	26.0	1	12/10/18 10:49	12/10/18 16:31	127-18-4	L2
Tetrahydrofuran	<107	ug/kg	2960	107	1	12/10/18 10:49	12/10/18 16:31	109-99-9	
Toluene	<18.0	ug/kg	73.9	18.0	1	12/10/18 10:49	12/10/18 16:31	108-88-3	
Trichloroethene	<11.4	ug/kg	73.9	11.4	1	12/10/18 10:49	12/10/18 16:31	79-01-6	L2
Trichlorofluoromethane	<129	ug/kg	296	129	1	12/10/18 10:49	12/10/18 16:31	75-69-4	
Vinyl chloride	<14.5	ug/kg	29.6	14.5	1	12/10/18 10:49	12/10/18 16:31	75-01-4	
Xylene (Total)	<17.1	ug/kg	222	17.1	1	12/10/18 10:49	12/10/18 16:31	1330-20-7	
cis-1,2-Dichloroethene	<12.3	ug/kg	73.9	12.3	1	12/10/18 10:49	12/10/18 16:31	156-59-2	
cis-1,3-Dichloropropene	<10.6	ug/kg	73.9	10.6	1	12/10/18 10:49	12/10/18 16:31	10061-01-5	
n-Butylbenzene	<35.2	ug/kg	73.9	35.2	1	12/10/18 10:49	12/10/18 16:31	104-51-8	
n-Propylbenzene	<3.9	ug/kg	73.9	3.9	1	12/10/18 10:49	12/10/18 16:31	103-65-1	
p-Isopropyltoluene	<22.5	ug/kg	73.9	22.5	1	12/10/18 10:49	12/10/18 16:31	99-87-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-11 (3.0-5.0)**      **Lab ID: 10457092022**      Collected: 11/27/18 13:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<14.2	ug/kg	73.9	14.2	1	12/10/18 10:49	12/10/18 16:31	135-98-8	
tert-Butylbenzene	<14.2	ug/kg	73.9	14.2	1	12/10/18 10:49	12/10/18 16:31	98-06-6	
trans-1,2-Dichloroethene	<34.6	ug/kg	73.9	34.6	1	12/10/18 10:49	12/10/18 16:31	156-60-5	
trans-1,3-Dichloropropene	<10.3	ug/kg	73.9	10.3	1	12/10/18 10:49	12/10/18 16:31	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-125		1	12/10/18 10:49	12/10/18 16:31	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/10/18 10:49	12/10/18 16:31	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 10:49	12/10/18 16:31	460-00-4	

**Sample: DP-12 (0.0-2.0)**      **Lab ID: 10457092023**      Collected: 11/27/18 14:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A    Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.0	ug/kg	39.4	11.0	1	12/03/18 16:53	12/11/18 12:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.9	ug/kg	39.4	13.9	1	12/03/18 16:53	12/11/18 12:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.8	ug/kg	39.4	15.8	1	12/03/18 16:53	12/11/18 12:17	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.4	ug/kg	39.4	13.4	1	12/03/18 16:53	12/11/18 12:17	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.8	ug/kg	39.4	11.8	1	12/03/18 16:53	12/11/18 12:17	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.6	ug/kg	39.4	11.6	1	12/03/18 16:53	12/11/18 12:17	11097-69-1	
PCB-1260 (Aroclor 1260)	37.9J	ug/kg	39.4	9.4	1	12/03/18 16:53	12/11/18 12:17	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	90	%	48-125		1	12/03/18 16:53	12/11/18 12:17	877-09-8	
Decachlorobiphenyl (S)	84	%	30-134		1	12/03/18 16:53	12/11/18 12:17	2051-24-3	

**NWTPH-Dx GCS**

Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	5.4J	mg/kg	17.7	2.9	1	12/03/18 14:05	12/12/18 21:19	68334-30-5	
Motor Oil Range	20.6	mg/kg	11.8	5.1	1	12/03/18 14:05	12/12/18 21:19		
<b>Surrogates</b>									
n-Triacontane (S)	79	%	50-150		1	12/03/18 14:05	12/12/18 21:19	638-68-6	
o-Terphenyl (S)	89	%	50-150		1	12/03/18 14:05	12/12/18 21:19	84-15-1	

**NWTPH-Gx GCV**

Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<0.97	mg/kg	7.4	0.97	1	12/07/18 17:37	12/10/18 10:30		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	12/07/18 17:37	12/10/18 10:30	98-08-8	

**6010D MET ICP, TCLP**

Analytical Method: EPA 6010D    Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 12/31/18 08:59    Initial pH: 9.67; Final pH: 2.29

Lead	0.19J	mg/L	0.50	0.0098	1	12/31/18 09:55	01/02/19 09:26	7439-92-1	
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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-12 (0.0-2.0)**      **Lab ID: 10457092023**      Collected: 11/27/18 14:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.7	2.2	5	12/06/18 14:26	12/11/18 11:31	7440-36-0	D3
Arsenic	1.8J	mg/kg	5.7	1.2	5	12/06/18 14:26	12/11/18 11:31	7440-38-2	D3
Beryllium	<0.077	mg/kg	1.4	0.077	5	12/06/18 14:26	12/11/18 11:31	7440-41-7	D3
Cadmium	0.53J	mg/kg	0.86	0.11	5	12/06/18 14:26	12/11/18 11:31	7440-43-9	D3
Chromium	8.0	mg/kg	2.9	0.49	5	12/06/18 14:26	12/11/18 11:31	7440-47-3	
Copper	30.1	mg/kg	2.9	0.32	5	12/06/18 14:26	12/11/18 11:31	7440-50-8	
Lead	542	mg/kg	2.9	0.65	5	12/06/18 14:26	12/11/18 11:31	7439-92-1	
Nickel	9.4	mg/kg	5.7	0.36	5	12/06/18 14:26	12/11/18 11:31	7440-02-0	
Selenium	<1.9	mg/kg	5.7	1.9	5	12/06/18 14:26	12/11/18 11:31	7782-49-2	D3
Silver	<0.21	mg/kg	2.9	0.21	5	12/06/18 14:26	12/11/18 11:31	7440-22-4	D3
Thallium	3.6J	mg/kg	5.7	1.3	5	12/06/18 14:26	12/11/18 11:31	7440-28-0	D3
Zinc	171	mg/kg	5.7	2.5	5	12/06/18 14:26	12/11/18 11:31	7440-66-6	
<b>6020B MET ICPMS</b> Analytical Method: EPA 6020B      Preparation Method: EPA 3050									
Thallium	0.094J	mg/kg	0.12	0.039	20	12/05/19 07:35	12/05/19 23:40	7440-28-0	H1,H2
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<0.0093	mg/kg	0.023	0.0093	1	12/06/18 14:27	12/12/18 16:33	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	16.3	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.64	ug/kg	11.9	0.64	1	12/04/18 16:22	12/05/18 18:11	90-12-0	
2-Methylnaphthalene	<0.60	ug/kg	11.9	0.60	1	12/04/18 16:22	12/05/18 18:11	91-57-6	
Acenaphthene	1.3J	ug/kg	11.9	0.49	1	12/04/18 16:22	12/05/18 18:11	83-32-9	
Acenaphthylene	3.9J	ug/kg	11.9	0.59	1	12/04/18 16:22	12/05/18 18:11	208-96-8	
Anthracene	1.7J	ug/kg	11.9	0.56	1	12/04/18 16:22	12/05/18 18:11	120-12-7	
Benzo(a)anthracene	5.6J	ug/kg	11.9	1.3	1	12/04/18 16:22	12/05/18 18:11	56-55-3	
Benzo(a)pyrene	8.5J	ug/kg	11.9	0.82	1	12/04/18 16:22	12/05/18 18:11	50-32-8	
Benzo(b)fluoranthene	10.6J	ug/kg	11.9	0.44	1	12/04/18 16:22	12/05/18 18:11	205-99-2	
Benzo(g,h,i)perylene	10.8J	ug/kg	11.9	0.75	1	12/04/18 16:22	12/05/18 18:11	191-24-2	
Benzo(k)fluoranthene	4.5J	ug/kg	11.9	1.0	1	12/04/18 16:22	12/05/18 18:11	207-08-9	
Chrysene	6.6J	ug/kg	11.9	1.6	1	12/04/18 16:22	12/05/18 18:11	218-01-9	
Dibenz(a,h)anthracene	2.1J	ug/kg	11.9	0.55	1	12/04/18 16:22	12/05/18 18:11	53-70-3	
Fluoranthene	9.0J	ug/kg	11.9	0.51	1	12/04/18 16:22	12/05/18 18:11	206-44-0	L2
Fluorene	1.7J	ug/kg	11.9	0.37	1	12/04/18 16:22	12/05/18 18:11	86-73-7	
Indeno(1,2,3-cd)pyrene	8.1J	ug/kg	11.9	0.80	1	12/04/18 16:22	12/05/18 18:11	193-39-5	
Naphthalene	<0.92	ug/kg	11.9	0.92	1	12/04/18 16:22	12/05/18 18:11	91-20-3	
Phenanthrene	4.6J	ug/kg	11.9	2.3	1	12/04/18 16:22	12/05/18 18:11	85-01-8	
Pyrene	10.0J	ug/kg	11.9	1.8	1	12/04/18 16:22	12/05/18 18:11	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	42-125		1	12/04/18 16:22	12/05/18 18:11	321-60-8	
p-Terphenyl-d14 (S)	76	%	57-125		1	12/04/18 16:22	12/05/18 18:11	1718-51-0	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-12 (0.0-2.0)**      **Lab ID: 10457092023**      Collected: 11/27/18 14:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	02/27/19 09:34	02/27/19 17:42	106-93-4	
Methylene Chloride	<4.2	ug/kg	23.0	4.2	1	02/27/19 09:34	02/27/19 17:42	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	02/27/19 09:34	02/27/19 17:42	17060-07-0	5M,H3
Toluene-d8 (S)	90	%	75-125		1	02/27/19 09:34	02/27/19 17:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/27/19 09:34	02/27/19 17:42	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<23.2	ug/kg	73.9	23.2	1	12/10/18 10:49	12/10/18 16:49	630-20-6	
1,1,1-Trichloroethane	<34.4	ug/kg	73.9	34.4	1	12/10/18 10:49	12/10/18 16:49	71-55-6	
1,1,1,2-Tetrachloroethane	<13.0	ug/kg	73.9	13.0	1	12/10/18 10:49	12/10/18 16:49	79-34-5	
1,1,2-Trichloroethane	<8.8	ug/kg	73.9	8.8	1	12/10/18 10:49	12/10/18 16:49	79-00-5	
1,1,2-Trichlorotrifluoroethane	<85.7	ug/kg	295	85.7	1	12/10/18 10:49	12/10/18 16:49	76-13-1	
1,1-Dichloroethane	<8.3	ug/kg	73.9	8.3	1	12/10/18 10:49	12/10/18 16:49	75-34-3	
1,1-Dichloroethene	<22.2	ug/kg	73.9	22.2	1	12/10/18 10:49	12/10/18 16:49	75-35-4	L2
1,1-Dichloropropene	<34.1	ug/kg	73.9	34.1	1	12/10/18 10:49	12/10/18 16:49	563-58-6	
1,2,3-Trichlorobenzene	<11.8	ug/kg	73.9	11.8	1	12/10/18 10:49	12/10/18 16:49	87-61-6	
1,2,3-Trichloropropane	<19.4	ug/kg	295	19.4	1	12/10/18 10:49	12/10/18 16:49	96-18-4	
1,2,4-Trichlorobenzene	<16.4	ug/kg	73.9	16.4	1	12/10/18 10:49	12/10/18 16:49	120-82-1	
1,2,4-Trimethylbenzene	<14.8	ug/kg	73.9	14.8	1	12/10/18 10:49	12/10/18 16:49	95-63-6	
1,2-Dibromo-3-chloropropane	<257	ug/kg	739	257	1	12/10/18 10:49	12/10/18 16:49	96-12-8	
1,2-Dibromoethane (EDB)	<7.8	ug/kg	73.9	7.8	1	12/10/18 10:49	12/10/18 16:49	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	73.9	3.0	1	12/10/18 10:49	12/10/18 16:49	95-50-1	
1,2-Dichloroethane	<8.1	ug/kg	73.9	8.1	1	12/10/18 10:49	12/10/18 16:49	107-06-2	
1,2-Dichloropropane	<12.7	ug/kg	73.9	12.7	1	12/10/18 10:49	12/10/18 16:49	78-87-5	
1,3,5-Trimethylbenzene	<11.8	ug/kg	73.9	11.8	1	12/10/18 10:49	12/10/18 16:49	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	73.9	2.7	1	12/10/18 10:49	12/10/18 16:49	541-73-1	
1,3-Dichloropropane	<10.2	ug/kg	73.9	10.2	1	12/10/18 10:49	12/10/18 16:49	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	73.9	4.6	1	12/10/18 10:49	12/10/18 16:49	106-46-7	
2,2-Dichloropropane	<9.2	ug/kg	295	9.2	1	12/10/18 10:49	12/10/18 16:49	594-20-7	
2-Butanone (MEK)	<39.3	ug/kg	369	39.3	1	12/10/18 10:49	12/10/18 16:49	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	73.9	3.6	1	12/10/18 10:49	12/10/18 16:49	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	73.9	3.8	1	12/10/18 10:49	12/10/18 16:49	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.4	ug/kg	369	15.4	1	12/10/18 10:49	12/10/18 16:49	108-10-1	
Acetone	<459	ug/kg	1480	459	1	12/10/18 10:49	12/10/18 16:49	67-64-1	
Allyl chloride	<61.9	ug/kg	295	61.9	1	12/10/18 10:49	12/10/18 16:49	107-05-1	
Benzene	<4.2	ug/kg	29.5	4.2	1	12/10/18 10:49	12/10/18 16:49	71-43-2	
Bromobenzene	<4.5	ug/kg	73.9	4.5	1	12/10/18 10:49	12/10/18 16:49	108-86-1	
Bromochloromethane	<25.6	ug/kg	73.9	25.6	1	12/10/18 10:49	12/10/18 16:49	74-97-5	
Bromodichloromethane	<25.3	ug/kg	73.9	25.3	1	12/10/18 10:49	12/10/18 16:49	75-27-4	
Bromoform	<112	ug/kg	295	112	1	12/10/18 10:49	12/10/18 16:49	75-25-2	
Bromomethane	<86.4	ug/kg	739	86.4	1	12/10/18 10:49	12/10/18 16:49	74-83-9	
Carbon tetrachloride	<35.3	ug/kg	73.9	35.3	1	12/10/18 10:49	12/10/18 16:49	56-23-5	
Chlorobenzene	<4.2	ug/kg	73.9	4.2	1	12/10/18 10:49	12/10/18 16:49	108-90-7	
Chloroethane	<38.4	ug/kg	739	38.4	1	12/10/18 10:49	12/10/18 16:49	75-00-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-12 (0.0-2.0)**      **Lab ID: 10457092023**      Collected: 11/27/18 14:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Chloroform	<36.9	ug/kg	73.9	36.9	1	12/10/18 10:49	12/10/18 16:49	67-66-3	
Chloromethane	<17.7	ug/kg	295	17.7	1	12/10/18 10:49	12/10/18 16:49	74-87-3	
Dibromochloromethane	<8.6	ug/kg	295	8.6	1	12/10/18 10:49	12/10/18 16:49	124-48-1	
Dibromomethane	<13.5	ug/kg	73.9	13.5	1	12/10/18 10:49	12/10/18 16:49	74-95-3	L2
Dichlorodifluoromethane	<23.9	ug/kg	295	23.9	1	12/10/18 10:49	12/10/18 16:49	75-71-8	
Dichlorofluoromethane	<102	ug/kg	739	102	1	12/10/18 10:49	12/10/18 16:49	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.2	ug/kg	295	45.2	1	12/10/18 10:49	12/10/18 16:49	60-29-7	
Ethylbenzene	<4.0	ug/kg	73.9	4.0	1	12/10/18 10:49	12/10/18 16:49	100-41-4	
Hexachloro-1,3-butadiene	<18.0	ug/kg	369	18.0	1	12/10/18 10:49	12/10/18 16:49	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	73.9	3.3	1	12/10/18 10:49	12/10/18 16:49	98-82-8	
Methyl-tert-butyl ether	<8.8	ug/kg	73.9	8.8	1	12/10/18 10:49	12/10/18 16:49	1634-04-4	
Methylene Chloride	<139	ug/kg	295	139	1	12/10/18 10:49	12/10/18 16:49	75-09-2	
Naphthalene	<69.1	ug/kg	295	69.1	1	12/10/18 10:49	12/10/18 16:49	91-20-3	
Styrene	<3.4	ug/kg	73.9	3.4	1	12/10/18 10:49	12/10/18 16:49	100-42-5	
Tetrachloroethene	<26.0	ug/kg	73.9	26.0	1	12/10/18 10:49	12/10/18 16:49	127-18-4	L2
Tetrahydrofuran	<107	ug/kg	2950	107	1	12/10/18 10:49	12/10/18 16:49	109-99-9	
Toluene	<18.0	ug/kg	73.9	18.0	1	12/10/18 10:49	12/10/18 16:49	108-88-3	
Trichloroethene	<11.4	ug/kg	73.9	11.4	1	12/10/18 10:49	12/10/18 16:49	79-01-6	L2
Trichlorofluoromethane	<129	ug/kg	295	129	1	12/10/18 10:49	12/10/18 16:49	75-69-4	
Vinyl chloride	<14.5	ug/kg	29.5	14.5	1	12/10/18 10:49	12/10/18 16:49	75-01-4	
Xylene (Total)	<17.1	ug/kg	222	17.1	1	12/10/18 10:49	12/10/18 16:49	1330-20-7	
cis-1,2-Dichloroethene	<12.2	ug/kg	73.9	12.2	1	12/10/18 10:49	12/10/18 16:49	156-59-2	
cis-1,3-Dichloropropene	<10.6	ug/kg	73.9	10.6	1	12/10/18 10:49	12/10/18 16:49	10061-01-5	
n-Butylbenzene	<35.2	ug/kg	73.9	35.2	1	12/10/18 10:49	12/10/18 16:49	104-51-8	
n-Propylbenzene	<3.9	ug/kg	73.9	3.9	1	12/10/18 10:49	12/10/18 16:49	103-65-1	
p-Isopropyltoluene	<22.5	ug/kg	73.9	22.5	1	12/10/18 10:49	12/10/18 16:49	99-87-6	
sec-Butylbenzene	<14.2	ug/kg	73.9	14.2	1	12/10/18 10:49	12/10/18 16:49	135-98-8	
tert-Butylbenzene	<14.2	ug/kg	73.9	14.2	1	12/10/18 10:49	12/10/18 16:49	98-06-6	
trans-1,2-Dichloroethene	<34.6	ug/kg	73.9	34.6	1	12/10/18 10:49	12/10/18 16:49	156-60-5	
trans-1,3-Dichloropropene	<10.3	ug/kg	73.9	10.3	1	12/10/18 10:49	12/10/18 16:49	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/10/18 10:49	12/10/18 16:49	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 10:49	12/10/18 16:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 16:49	460-00-4	

**Sample: DP-12 (3.0-5.0)**      **Lab ID: 10457092024**      Collected: 11/27/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.3	ug/kg	40.6	11.3	1	12/03/18 16:53	12/11/18 12:32	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.3	ug/kg	40.6	14.3	1	12/03/18 16:53	12/11/18 12:32	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.2	ug/kg	40.6	16.2	1	12/03/18 16:53	12/11/18 12:32	11141-16-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-12 (3.0-5.0)**      **Lab ID: 10457092024**      Collected: 11/27/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1242 (Aroclor 1242)	<13.8	ug/kg	40.6	13.8	1	12/03/18 16:53	12/11/18 12:32	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.2	ug/kg	40.6	12.2	1	12/03/18 16:53	12/11/18 12:32	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.9	ug/kg	40.6	11.9	1	12/03/18 16:53	12/11/18 12:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.7	ug/kg	40.6	9.7	1	12/03/18 16:53	12/11/18 12:32	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	48-125		1	12/03/18 16:53	12/11/18 12:32	877-09-8	
Decachlorobiphenyl (S)	77	%	30-134		1	12/03/18 16:53	12/11/18 12:32	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.4	3.0	1	12/03/18 14:05	12/12/18 21:31	68334-30-5	
Motor Oil Range	<5.3	mg/kg	12.3	5.3	1	12/03/18 14:05	12/12/18 21:31		
<b>Surrogates</b>									
n-Triacontane (S)	100	%	50-150		1	12/03/18 14:05	12/12/18 21:31	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 21:31	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.95	mg/kg	7.3	0.95	1	12/07/18 17:37	12/10/18 11:03		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/07/18 17:37	12/10/18 11:03	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.8	2.2	5	12/06/18 14:26	12/11/18 11:33	7440-36-0	D3
Arsenic	1.4J	mg/kg	5.8	1.2	5	12/06/18 14:26	12/11/18 11:33	7440-38-2	D3
Beryllium	<0.078	mg/kg	1.5	0.078	5	12/06/18 14:26	12/11/18 11:33	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.87	0.12	5	12/06/18 14:26	12/11/18 11:33	7440-43-9	D3
Chromium	6.6	mg/kg	2.9	0.50	5	12/06/18 14:26	12/11/18 11:33	7440-47-3	
Copper	15.6	mg/kg	2.9	0.32	5	12/06/18 14:26	12/11/18 11:33	7440-50-8	
Lead	31.0	mg/kg	2.9	0.66	5	12/06/18 14:26	12/11/18 11:33	7439-92-1	
Nickel	6.8	mg/kg	5.8	0.37	5	12/06/18 14:26	12/11/18 11:33	7440-02-0	
Selenium	<1.9	mg/kg	5.8	1.9	5	12/06/18 14:26	12/11/18 11:33	7782-49-2	D3
Silver	<0.21	mg/kg	2.9	0.21	5	12/06/18 14:26	12/11/18 11:33	7440-22-4	D3
Thallium	2.0J	mg/kg	5.8	1.3	5	12/06/18 14:26	12/11/18 11:33	7440-28-0	D3
Zinc	57.7	mg/kg	5.8	2.5	5	12/06/18 14:26	12/11/18 11:33	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0093	mg/kg	0.023	0.0093	1	12/06/18 14:27	12/12/18 16:35	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.9	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.2	0.65	1	12/04/18 16:22	12/05/18 18:32	90-12-0	
2-Methylnaphthalene	<0.62	ug/kg	12.2	0.62	1	12/04/18 16:22	12/05/18 18:32	91-57-6	
Acenaphthene	<0.50	ug/kg	12.2	0.50	1	12/04/18 16:22	12/05/18 18:32	83-32-9	
Acenaphthylene	<0.60	ug/kg	12.2	0.60	1	12/04/18 16:22	12/05/18 18:32	208-96-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-12 (3.0-5.0)**      **Lab ID: 10457092024**      Collected: 11/27/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Anthracene	<0.57	ug/kg	12.2	0.57	1	12/04/18 16:22	12/05/18 18:32	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	12.2	1.3	1	12/04/18 16:22	12/05/18 18:32	56-55-3	
Benzo(a)pyrene	<0.84	ug/kg	12.2	0.84	1	12/04/18 16:22	12/05/18 18:32	50-32-8	
Benzo(b)fluoranthene	<0.46	ug/kg	12.2	0.46	1	12/04/18 16:22	12/05/18 18:32	205-99-2	
Benzo(g,h,i)perylene	<0.77	ug/kg	12.2	0.77	1	12/04/18 16:22	12/05/18 18:32	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.2	1.0	1	12/04/18 16:22	12/05/18 18:32	207-08-9	
Chrysene	<1.7	ug/kg	12.2	1.7	1	12/04/18 16:22	12/05/18 18:32	218-01-9	
Dibenz(a,h)anthracene	<0.56	ug/kg	12.2	0.56	1	12/04/18 16:22	12/05/18 18:32	53-70-3	
Fluoranthene	1.3J	ug/kg	12.2	0.52	1	12/04/18 16:22	12/05/18 18:32	206-44-0	L2
Fluorene	<0.38	ug/kg	12.2	0.38	1	12/04/18 16:22	12/05/18 18:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.82	ug/kg	12.2	0.82	1	12/04/18 16:22	12/05/18 18:32	193-39-5	
Naphthalene	<0.94	ug/kg	12.2	0.94	1	12/04/18 16:22	12/05/18 18:32	91-20-3	
Phenanthrene	<2.3	ug/kg	12.2	2.3	1	12/04/18 16:22	12/05/18 18:32	85-01-8	
Pyrene	<1.9	ug/kg	12.2	1.9	1	12/04/18 16:22	12/05/18 18:32	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	42-125		1	12/04/18 16:22	12/05/18 18:32	321-60-8	
p-Terphenyl-d14 (S)	72	%	57-125		1	12/04/18 16:22	12/05/18 18:32	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	02/27/19 09:34	02/27/19 18:01	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.0	4.4	1	02/27/19 09:34	02/27/19 18:01	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	02/27/19 09:34	02/27/19 18:01	17060-07-0	5M, H3
Toluene-d8 (S)	89	%	75-125		1	02/27/19 09:34	02/27/19 18:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/27/19 09:34	02/27/19 18:01	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<22.5	ug/kg	71.6	22.5	1	12/10/18 10:49	12/10/18 17:06	630-20-6	
1,1,1-Trichloroethane	<33.4	ug/kg	71.6	33.4	1	12/10/18 10:49	12/10/18 17:06	71-55-6	
1,1,1,2-Tetrachloroethane	<12.6	ug/kg	71.6	12.6	1	12/10/18 10:49	12/10/18 17:06	79-34-5	
1,1,2-Trichloroethane	<8.6	ug/kg	71.6	8.6	1	12/10/18 10:49	12/10/18 17:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	<83.1	ug/kg	286	83.1	1	12/10/18 10:49	12/10/18 17:06	76-13-1	
1,1-Dichloroethane	<8.0	ug/kg	71.6	8.0	1	12/10/18 10:49	12/10/18 17:06	75-34-3	
1,1-Dichloroethene	<21.5	ug/kg	71.6	21.5	1	12/10/18 10:49	12/10/18 17:06	75-35-4	L2
1,1-Dichloropropene	<33.1	ug/kg	71.6	33.1	1	12/10/18 10:49	12/10/18 17:06	563-58-6	
1,2,3-Trichlorobenzene	<11.4	ug/kg	71.6	11.4	1	12/10/18 10:49	12/10/18 17:06	87-61-6	
1,2,3-Trichloropropane	<18.8	ug/kg	286	18.8	1	12/10/18 10:49	12/10/18 17:06	96-18-4	
1,2,4-Trichlorobenzene	<15.9	ug/kg	71.6	15.9	1	12/10/18 10:49	12/10/18 17:06	120-82-1	
1,2,4-Trimethylbenzene	<14.3	ug/kg	71.6	14.3	1	12/10/18 10:49	12/10/18 17:06	95-63-6	
1,2-Dibromo-3-chloropropane	<249	ug/kg	716	249	1	12/10/18 10:49	12/10/18 17:06	96-12-8	
1,2-Dibromoethane (EDB)	<7.5	ug/kg	71.6	7.5	1	12/10/18 10:49	12/10/18 17:06	106-93-4	
1,2-Dichlorobenzene	<2.9	ug/kg	71.6	2.9	1	12/10/18 10:49	12/10/18 17:06	95-50-1	
1,2-Dichloroethane	<7.9	ug/kg	71.6	7.9	1	12/10/18 10:49	12/10/18 17:06	107-06-2	
1,2-Dichloropropane	<12.3	ug/kg	71.6	12.3	1	12/10/18 10:49	12/10/18 17:06	78-87-5	
1,3,5-Trimethylbenzene	<11.4	ug/kg	71.6	11.4	1	12/10/18 10:49	12/10/18 17:06	108-67-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-12 (3.0-5.0)**      **Lab ID: 10457092024**      Collected: 11/27/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<2.6	ug/kg	71.6	2.6	1	12/10/18 10:49	12/10/18 17:06	541-73-1	
1,3-Dichloropropane	<9.9	ug/kg	71.6	9.9	1	12/10/18 10:49	12/10/18 17:06	142-28-9	
1,4-Dichlorobenzene	<4.4	ug/kg	71.6	4.4	1	12/10/18 10:49	12/10/18 17:06	106-46-7	
2,2-Dichloropropane	<8.9	ug/kg	286	8.9	1	12/10/18 10:49	12/10/18 17:06	594-20-7	
2-Butanone (MEK)	<38.1	ug/kg	358	38.1	1	12/10/18 10:49	12/10/18 17:06	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	71.6	3.5	1	12/10/18 10:49	12/10/18 17:06	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	71.6	3.7	1	12/10/18 10:49	12/10/18 17:06	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.9	ug/kg	358	14.9	1	12/10/18 10:49	12/10/18 17:06	108-10-1	
Acetone	<445	ug/kg	1430	445	1	12/10/18 10:49	12/10/18 17:06	67-64-1	
Allyl chloride	<60.0	ug/kg	286	60.0	1	12/10/18 10:49	12/10/18 17:06	107-05-1	
Benzene	<4.0	ug/kg	28.6	4.0	1	12/10/18 10:49	12/10/18 17:06	71-43-2	
Bromobenzene	<4.4	ug/kg	71.6	4.4	1	12/10/18 10:49	12/10/18 17:06	108-86-1	
Bromochloromethane	<24.8	ug/kg	71.6	24.8	1	12/10/18 10:49	12/10/18 17:06	74-97-5	
Bromodichloromethane	<24.5	ug/kg	71.6	24.5	1	12/10/18 10:49	12/10/18 17:06	75-27-4	
Bromoform	<108	ug/kg	286	108	1	12/10/18 10:49	12/10/18 17:06	75-25-2	
Bromomethane	<83.8	ug/kg	716	83.8	1	12/10/18 10:49	12/10/18 17:06	74-83-9	
Carbon tetrachloride	<34.2	ug/kg	71.6	34.2	1	12/10/18 10:49	12/10/18 17:06	56-23-5	
Chlorobenzene	<4.0	ug/kg	71.6	4.0	1	12/10/18 10:49	12/10/18 17:06	108-90-7	
Chloroethane	<37.2	ug/kg	716	37.2	1	12/10/18 10:49	12/10/18 17:06	75-00-3	
Chloroform	<35.8	ug/kg	71.6	35.8	1	12/10/18 10:49	12/10/18 17:06	67-66-3	
Chloromethane	<17.2	ug/kg	286	17.2	1	12/10/18 10:49	12/10/18 17:06	74-87-3	
Dibromochloromethane	<8.3	ug/kg	286	8.3	1	12/10/18 10:49	12/10/18 17:06	124-48-1	
Dibromomethane	<13.1	ug/kg	71.6	13.1	1	12/10/18 10:49	12/10/18 17:06	74-95-3	L2
Dichlorodifluoromethane	<23.2	ug/kg	286	23.2	1	12/10/18 10:49	12/10/18 17:06	75-71-8	
Dichlorofluoromethane	<99.0	ug/kg	716	99.0	1	12/10/18 10:49	12/10/18 17:06	75-43-4	N2
Diethyl ether (Ethyl ether)	<43.8	ug/kg	286	43.8	1	12/10/18 10:49	12/10/18 17:06	60-29-7	
Ethylbenzene	<3.9	ug/kg	71.6	3.9	1	12/10/18 10:49	12/10/18 17:06	100-41-4	
Hexachloro-1,3-butadiene	<17.5	ug/kg	358	17.5	1	12/10/18 10:49	12/10/18 17:06	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	71.6	3.2	1	12/10/18 10:49	12/10/18 17:06	98-82-8	
Methyl-tert-butyl ether	<8.5	ug/kg	71.6	8.5	1	12/10/18 10:49	12/10/18 17:06	1634-04-4	
Methylene Chloride	<135	ug/kg	286	135	1	12/10/18 10:49	12/10/18 17:06	75-09-2	
Naphthalene	<67.0	ug/kg	286	67.0	1	12/10/18 10:49	12/10/18 17:06	91-20-3	
Styrene	<3.3	ug/kg	71.6	3.3	1	12/10/18 10:49	12/10/18 17:06	100-42-5	
Tetrachloroethene	<25.2	ug/kg	71.6	25.2	1	12/10/18 10:49	12/10/18 17:06	127-18-4	L2
Tetrahydrofuran	<104	ug/kg	2860	104	1	12/10/18 10:49	12/10/18 17:06	109-99-9	
Toluene	<17.5	ug/kg	71.6	17.5	1	12/10/18 10:49	12/10/18 17:06	108-88-3	
Trichloroethene	<11.0	ug/kg	71.6	11.0	1	12/10/18 10:49	12/10/18 17:06	79-01-6	L2
Trichlorofluoromethane	<125	ug/kg	286	125	1	12/10/18 10:49	12/10/18 17:06	75-69-4	
Vinyl chloride	<14.1	ug/kg	28.6	14.1	1	12/10/18 10:49	12/10/18 17:06	75-01-4	
Xylene (Total)	<16.6	ug/kg	215	16.6	1	12/10/18 10:49	12/10/18 17:06	1330-20-7	
cis-1,2-Dichloroethene	<11.9	ug/kg	71.6	11.9	1	12/10/18 10:49	12/10/18 17:06	156-59-2	
cis-1,3-Dichloropropene	<10.3	ug/kg	71.6	10.3	1	12/10/18 10:49	12/10/18 17:06	10061-01-5	
n-Butylbenzene	<34.1	ug/kg	71.6	34.1	1	12/10/18 10:49	12/10/18 17:06	104-51-8	
n-Propylbenzene	<3.8	ug/kg	71.6	3.8	1	12/10/18 10:49	12/10/18 17:06	103-65-1	
p-Isopropyltoluene	<21.8	ug/kg	71.6	21.8	1	12/10/18 10:49	12/10/18 17:06	99-87-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-12 (3.0-5.0)**      **Lab ID: 10457092024**      Collected: 11/27/18 14:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<13.7	ug/kg	71.6	13.7	1	12/10/18 10:49	12/10/18 17:06	135-98-8	
tert-Butylbenzene	<13.7	ug/kg	71.6	13.7	1	12/10/18 10:49	12/10/18 17:06	98-06-6	
trans-1,2-Dichloroethene	<33.5	ug/kg	71.6	33.5	1	12/10/18 10:49	12/10/18 17:06	156-60-5	
trans-1,3-Dichloropropene	<10	ug/kg	71.6	10	1	12/10/18 10:49	12/10/18 17:06	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/10/18 10:49	12/10/18 17:06	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 17:06	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		1	12/10/18 10:49	12/10/18 17:06	460-00-4	

**Sample: DP-13 (0.0-2.0)**      **Lab ID: 10457092025**      Collected: 11/27/18 13:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.1	ug/kg	40.0	11.1	1	12/03/18 16:53	12/11/18 12:47	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.0	14.1	1	12/03/18 16:53	12/11/18 12:47	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	40.0	16.0	1	12/03/18 16:53	12/11/18 12:47	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.0	13.6	1	12/03/18 16:53	12/11/18 12:47	53469-21-9	
PCB-1248 (Aroclor 1248)	210	ug/kg	40.0	12.0	1	12/03/18 16:53	12/11/18 12:47	12672-29-6	
PCB-1254 (Aroclor 1254)	119	ug/kg	40.0	11.8	1	12/03/18 16:53	12/11/18 12:47	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.0	9.6	1	12/03/18 16:53	12/11/18 12:47	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/03/18 16:53	12/11/18 12:47	877-09-8	
Decachlorobiphenyl (S)	76	%	30-134		1	12/03/18 16:53	12/11/18 12:47	2051-24-3	

<b>NWTPH-Dx GCS</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3550							
Diesel Fuel Range	7.5J	mg/kg	17.7	2.9	1	12/03/18 14:05	12/12/18 21:42	68334-30-5	
Motor Oil Range	22.8	mg/kg	11.8	5.1	1	12/03/18 14:05	12/12/18 21:42		
<b>Surrogates</b>									
n-Triacontane (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 21:42	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 21:42	84-15-1	

<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx							
TPH as Gas	1.3J	mg/kg	7.1	0.93	1	12/10/18 16:17	12/10/18 22:08		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	102	%	50-150		1	12/10/18 16:17	12/10/18 22:08	98-08-8	

<b>6010D MET ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3050							
Antimony	<0.45	mg/kg	1.2	0.45	1	12/06/18 14:26	12/10/18 13:28	7440-36-0	
Arsenic	2.0	mg/kg	1.2	0.25	1	12/06/18 14:26	12/10/18 13:28	7440-38-2	
Beryllium	<0.016	mg/kg	0.30	0.016	1	12/06/18 14:26	12/10/18 13:28	7440-41-7	
Cadmium	0.27	mg/kg	0.18	0.024	1	12/06/18 14:26	12/10/18 13:28	7440-43-9	
Chromium	6.7	mg/kg	0.60	0.10	1	12/06/18 14:26	12/10/18 13:28	7440-47-3	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-13 (0.0-2.0) Lab ID: 10457092025** Collected: 11/27/18 13:10 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Copper	34.8	mg/kg	0.60	0.067	1	12/06/18 14:26	12/10/18 13:28	7440-50-8	
Lead	53.7	mg/kg	0.60	0.14	1	12/06/18 14:26	12/10/18 13:28	7439-92-1	
Nickel	8.6	mg/kg	1.2	0.076	1	12/06/18 14:26	12/10/18 13:28	7440-02-0	
Selenium	<0.39	mg/kg	1.2	0.39	1	12/06/18 14:26	12/10/18 13:28	7782-49-2	
Silver	<0.044	mg/kg	0.60	0.044	1	12/06/18 14:26	12/10/18 13:28	7440-22-4	
Thallium	0.44J	mg/kg	1.2	0.28	1	12/06/18 14:26	12/10/18 13:28	7440-28-0	
Zinc	105	mg/kg	1.2	0.53	1	12/06/18 14:26	12/10/18 13:28	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.21	mg/kg	0.023	0.0092	1	12/06/18 14:27	12/12/18 16:42	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.7	%	0.10	0.10	1		12/11/18 15:26		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.1	0.65	1	12/04/18 16:22	12/05/18 18:53	90-12-0	
2-Methylnaphthalene	<0.61	ug/kg	12.1	0.61	1	12/04/18 16:22	12/05/18 18:53	91-57-6	
Acenaphthene	0.73J	ug/kg	12.1	0.50	1	12/04/18 16:22	12/05/18 18:53	83-32-9	
Acenaphthylene	2.6J	ug/kg	12.1	0.60	1	12/04/18 16:22	12/05/18 18:53	208-96-8	
Anthracene	2.0J	ug/kg	12.1	0.57	1	12/04/18 16:22	12/05/18 18:53	120-12-7	
Benzo(a)anthracene	7.1J	ug/kg	12.1	1.3	1	12/04/18 16:22	12/05/18 18:53	56-55-3	
Benzo(a)pyrene	10.5J	ug/kg	12.1	0.83	1	12/04/18 16:22	12/05/18 18:53	50-32-8	
Benzo(b)fluoranthene	13.8	ug/kg	12.1	0.45	1	12/04/18 16:22	12/05/18 18:53	205-99-2	
Benzo(g,h,i)perylene	9.6J	ug/kg	12.1	0.77	1	12/04/18 16:22	12/05/18 18:53	191-24-2	
Benzo(k)fluoranthene	5.6J	ug/kg	12.1	1.0	1	12/04/18 16:22	12/05/18 18:53	207-08-9	
Chrysene	8.8J	ug/kg	12.1	1.7	1	12/04/18 16:22	12/05/18 18:53	218-01-9	
Dibenz(a,h)anthracene	2.5J	ug/kg	12.1	0.56	1	12/04/18 16:22	12/05/18 18:53	53-70-3	
Fluoranthene	11.4J	ug/kg	12.1	0.52	1	12/04/18 16:22	12/05/18 18:53	206-44-0	L2
Fluorene	0.99J	ug/kg	12.1	0.38	1	12/04/18 16:22	12/05/18 18:53	86-73-7	
Indeno(1,2,3-cd)pyrene	6.3J	ug/kg	12.1	0.81	1	12/04/18 16:22	12/05/18 18:53	193-39-5	
Naphthalene	<0.94	ug/kg	12.1	0.94	1	12/04/18 16:22	12/05/18 18:53	91-20-3	
Phenanthrene	5.1J	ug/kg	12.1	2.3	1	12/04/18 16:22	12/05/18 18:53	85-01-8	
Pyrene	11.7J	ug/kg	12.1	1.9	1	12/04/18 16:22	12/05/18 18:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	42-125		1	12/04/18 16:22	12/05/18 18:53	321-60-8	
p-Terphenyl-d14 (S)	71	%	57-125		1	12/04/18 16:22	12/05/18 18:53	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.5	0.26	1	02/27/19 09:34	02/27/19 18:20	106-93-4	
Methylene Chloride	<4.2	ug/kg	22.6	4.2	1	02/27/19 09:34	02/27/19 18:20	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	02/27/19 09:34	02/27/19 18:20	17060-07-0	5M,H3
Toluene-d8 (S)	88	%	75-125		1	02/27/19 09:34	02/27/19 18:20	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	02/27/19 09:34	02/27/19 18:20	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Sample: DP-13 (0.0-2.0) Lab ID: 10457092025 Collected: 11/27/18 13:10 Received: 11/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<22.8	ug/kg	72.7	22.8	1	12/10/18 10:49	12/10/18 17:23	630-20-6	
1,1,1-Trichloroethane	<33.9	ug/kg	72.7	33.9	1	12/10/18 10:49	12/10/18 17:23	71-55-6	
1,1,2,2-Tetrachloroethane	<12.8	ug/kg	72.7	12.8	1	12/10/18 10:49	12/10/18 17:23	79-34-5	
1,1,2-Trichloroethane	<8.7	ug/kg	72.7	8.7	1	12/10/18 10:49	12/10/18 17:23	79-00-5	
1,1,2-Trichlorotrifluoroethane	<84.3	ug/kg	291	84.3	1	12/10/18 10:49	12/10/18 17:23	76-13-1	
1,1-Dichloroethane	<8.2	ug/kg	72.7	8.2	1	12/10/18 10:49	12/10/18 17:23	75-34-3	
1,1-Dichloroethene	<21.8	ug/kg	72.7	21.8	1	12/10/18 10:49	12/10/18 17:23	75-35-4	L2
1,1-Dichloropropene	<33.6	ug/kg	72.7	33.6	1	12/10/18 10:49	12/10/18 17:23	563-58-6	
1,2,3-Trichlorobenzene	<11.6	ug/kg	72.7	11.6	1	12/10/18 10:49	12/10/18 17:23	87-61-6	
1,2,3-Trichloropropane	<19.0	ug/kg	291	19.0	1	12/10/18 10:49	12/10/18 17:23	96-18-4	
1,2,4-Trichlorobenzene	<16.1	ug/kg	72.7	16.1	1	12/10/18 10:49	12/10/18 17:23	120-82-1	
1,2,4-Trimethylbenzene	<14.5	ug/kg	72.7	14.5	1	12/10/18 10:49	12/10/18 17:23	95-63-6	
1,2-Dibromo-3-chloropropane	<253	ug/kg	727	253	1	12/10/18 10:49	12/10/18 17:23	96-12-8	
1,2-Dibromoethane (EDB)	<7.6	ug/kg	72.7	7.6	1	12/10/18 10:49	12/10/18 17:23	106-93-4	
1,2-Dichlorobenzene	<2.9	ug/kg	72.7	2.9	1	12/10/18 10:49	12/10/18 17:23	95-50-1	
1,2-Dichloroethane	<8.0	ug/kg	72.7	8.0	1	12/10/18 10:49	12/10/18 17:23	107-06-2	
1,2-Dichloropropane	<12.5	ug/kg	72.7	12.5	1	12/10/18 10:49	12/10/18 17:23	78-87-5	
1,3,5-Trimethylbenzene	<11.6	ug/kg	72.7	11.6	1	12/10/18 10:49	12/10/18 17:23	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	72.7	2.6	1	12/10/18 10:49	12/10/18 17:23	541-73-1	
1,3-Dichloropropane	<10.1	ug/kg	72.7	10.1	1	12/10/18 10:49	12/10/18 17:23	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/kg	72.7	4.5	1	12/10/18 10:49	12/10/18 17:23	106-46-7	
2,2-Dichloropropane	<9.1	ug/kg	291	9.1	1	12/10/18 10:49	12/10/18 17:23	594-20-7	
2-Butanone (MEK)	<38.7	ug/kg	363	38.7	1	12/10/18 10:49	12/10/18 17:23	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	72.7	3.6	1	12/10/18 10:49	12/10/18 17:23	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	72.7	3.7	1	12/10/18 10:49	12/10/18 17:23	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.1	ug/kg	363	15.1	1	12/10/18 10:49	12/10/18 17:23	108-10-1	
Acetone	<452	ug/kg	1450	452	1	12/10/18 10:49	12/10/18 17:23	67-64-1	
Allyl chloride	<60.9	ug/kg	291	60.9	1	12/10/18 10:49	12/10/18 17:23	107-05-1	
Benzene	<4.1	ug/kg	29.1	4.1	1	12/10/18 10:49	12/10/18 17:23	71-43-2	
Bromobenzene	<4.5	ug/kg	72.7	4.5	1	12/10/18 10:49	12/10/18 17:23	108-86-1	
Bromochloromethane	<25.1	ug/kg	72.7	25.1	1	12/10/18 10:49	12/10/18 17:23	74-97-5	
Bromodichloromethane	<24.9	ug/kg	72.7	24.9	1	12/10/18 10:49	12/10/18 17:23	75-27-4	
Bromoform	<110	ug/kg	291	110	1	12/10/18 10:49	12/10/18 17:23	75-25-2	
Bromomethane	<85.0	ug/kg	727	85.0	1	12/10/18 10:49	12/10/18 17:23	74-83-9	
Carbon tetrachloride	<34.7	ug/kg	72.7	34.7	1	12/10/18 10:49	12/10/18 17:23	56-23-5	
Chlorobenzene	<4.1	ug/kg	72.7	4.1	1	12/10/18 10:49	12/10/18 17:23	108-90-7	
Chloroethane	<37.8	ug/kg	727	37.8	1	12/10/18 10:49	12/10/18 17:23	75-00-3	
Chloroform	<36.3	ug/kg	72.7	36.3	1	12/10/18 10:49	12/10/18 17:23	67-66-3	
Chloromethane	<17.4	ug/kg	291	17.4	1	12/10/18 10:49	12/10/18 17:23	74-87-3	
Dibromochloromethane	<8.4	ug/kg	291	8.4	1	12/10/18 10:49	12/10/18 17:23	124-48-1	
Dibromomethane	<13.3	ug/kg	72.7	13.3	1	12/10/18 10:49	12/10/18 17:23	74-95-3	L2
Dichlorodifluoromethane	<23.5	ug/kg	291	23.5	1	12/10/18 10:49	12/10/18 17:23	75-71-8	
Dichlorofluoromethane	<100	ug/kg	727	100	1	12/10/18 10:49	12/10/18 17:23	75-43-4	N2
Diethyl ether (Ethyl ether)	<44.5	ug/kg	291	44.5	1	12/10/18 10:49	12/10/18 17:23	60-29-7	
Ethylbenzene	<4.0	ug/kg	72.7	4.0	1	12/10/18 10:49	12/10/18 17:23	100-41-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-13 (0.0-2.0)**      **Lab ID: 10457092025**      Collected: 11/27/18 13:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Hexachloro-1,3-butadiene	<17.7	ug/kg	363	17.7	1	12/10/18 10:49	12/10/18 17:23	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	72.7	3.2	1	12/10/18 10:49	12/10/18 17:23	98-82-8	
Methyl-tert-butyl ether	<8.6	ug/kg	72.7	8.6	1	12/10/18 10:49	12/10/18 17:23	1634-04-4	
Methylene Chloride	<137	ug/kg	291	137	1	12/10/18 10:49	12/10/18 17:23	75-09-2	
Naphthalene	<68.0	ug/kg	291	68.0	1	12/10/18 10:49	12/10/18 17:23	91-20-3	
Styrene	<3.3	ug/kg	72.7	3.3	1	12/10/18 10:49	12/10/18 17:23	100-42-5	
Tetrachloroethene	<25.6	ug/kg	72.7	25.6	1	12/10/18 10:49	12/10/18 17:23	127-18-4	L2
Tetrahydrofuran	<106	ug/kg	2910	106	1	12/10/18 10:49	12/10/18 17:23	109-99-9	
Toluene	<17.7	ug/kg	72.7	17.7	1	12/10/18 10:49	12/10/18 17:23	108-88-3	
Trichloroethene	<11.2	ug/kg	72.7	11.2	1	12/10/18 10:49	12/10/18 17:23	79-01-6	L2
Trichlorofluoromethane	<127	ug/kg	291	127	1	12/10/18 10:49	12/10/18 17:23	75-69-4	
Vinyl chloride	<14.3	ug/kg	29.1	14.3	1	12/10/18 10:49	12/10/18 17:23	75-01-4	
Xylene (Total)	<16.9	ug/kg	218	16.9	1	12/10/18 10:49	12/10/18 17:23	1330-20-7	
cis-1,2-Dichloroethene	<12.0	ug/kg	72.7	12.0	1	12/10/18 10:49	12/10/18 17:23	156-59-2	
cis-1,3-Dichloropropene	<10.4	ug/kg	72.7	10.4	1	12/10/18 10:49	12/10/18 17:23	10061-01-5	
n-Butylbenzene	<34.6	ug/kg	72.7	34.6	1	12/10/18 10:49	12/10/18 17:23	104-51-8	
n-Propylbenzene	<3.9	ug/kg	72.7	3.9	1	12/10/18 10:49	12/10/18 17:23	103-65-1	
p-Isopropyltoluene	<22.1	ug/kg	72.7	22.1	1	12/10/18 10:49	12/10/18 17:23	99-87-6	
sec-Butylbenzene	<13.9	ug/kg	72.7	13.9	1	12/10/18 10:49	12/10/18 17:23	135-98-8	
tert-Butylbenzene	<14.0	ug/kg	72.7	14.0	1	12/10/18 10:49	12/10/18 17:23	98-06-6	
trans-1,2-Dichloroethene	<34.0	ug/kg	72.7	34.0	1	12/10/18 10:49	12/10/18 17:23	156-60-5	
trans-1,3-Dichloropropene	<10.1	ug/kg	72.7	10.1	1	12/10/18 10:49	12/10/18 17:23	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/10/18 10:49	12/10/18 17:23	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/10/18 10:49	12/10/18 17:23	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 17:23	460-00-4	

**Sample: DP-13 (3.0-5.0)**      **Lab ID: 10457092026**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.6	ug/kg	45.2	12.6	1	12/03/18 16:53	12/11/18 13:33	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.9	ug/kg	45.2	15.9	1	12/03/18 16:53	12/11/18 13:33	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.1	ug/kg	45.2	18.1	1	12/03/18 16:53	12/11/18 13:33	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.3	ug/kg	45.2	15.3	1	12/03/18 16:53	12/11/18 13:33	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.5	ug/kg	45.2	13.5	1	12/03/18 16:53	12/11/18 13:33	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.3	ug/kg	45.2	13.3	1	12/03/18 16:53	12/11/18 13:33	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.8	ug/kg	45.2	10.8	1	12/03/18 16:53	12/11/18 13:33	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	48-125		1	12/03/18 16:53	12/11/18 13:33	877-09-8	
Decachlorobiphenyl (S)	65	%	30-134		1	12/03/18 16:53	12/11/18 13:33	2051-24-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-13 (3.0-5.0) Lab ID: 10457092026** Collected: 11/27/18 13:20 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.3	mg/kg	20.3	3.3	1	12/03/18 14:05	12/12/18 21:53	68334-30-5	
Motor Oil Range	<5.9	mg/kg	13.5	5.9	1	12/03/18 14:05	12/12/18 21:53		
<b>Surrogates</b>									
n-Triacontane (S)	93	%	50-150		1	12/03/18 14:05	12/12/18 21:53	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 21:53	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.1	1.1	1	12/10/18 16:17	12/10/18 22:25		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/10/18 16:17	12/10/18 22:25	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.49	mg/kg	1.3	0.49	1	12/06/18 14:26	12/10/18 13:30	7440-36-0	
Arsenic	1.2J	mg/kg	1.3	0.27	1	12/06/18 14:26	12/10/18 13:30	7440-38-2	
Beryllium	0.029J	mg/kg	0.33	0.017	1	12/06/18 14:26	12/10/18 13:30	7440-41-7	
Cadmium	<0.026	mg/kg	0.20	0.026	1	12/06/18 14:26	12/10/18 13:30	7440-43-9	
Chromium	5.4	mg/kg	0.65	0.11	1	12/06/18 14:26	12/10/18 13:30	7440-47-3	
Copper	12.8	mg/kg	0.65	0.072	1	12/06/18 14:26	12/10/18 13:30	7440-50-8	
Lead	3.4	mg/kg	0.65	0.15	1	12/06/18 14:26	12/10/18 13:30	7439-92-1	
Nickel	5.4	mg/kg	1.3	0.082	1	12/06/18 14:26	12/10/18 13:30	7440-02-0	
Selenium	<0.43	mg/kg	1.3	0.43	1	12/06/18 14:26	12/10/18 13:30	7782-49-2	
Silver	<0.047	mg/kg	0.65	0.047	1	12/06/18 14:26	12/10/18 13:30	7440-22-4	
Thallium	0.96J	mg/kg	1.3	0.30	1	12/06/18 14:26	12/10/18 13:30	7440-28-0	
Zinc	35.4	mg/kg	1.3	0.57	1	12/06/18 14:26	12/10/18 13:30	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.010	mg/kg	0.025	0.010	1	12/06/18 14:27	12/12/18 16:44	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.0	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.73	ug/kg	13.6	0.73	1	12/04/18 16:22	12/05/18 19:13	90-12-0	
2-Methylnaphthalene	<0.69	ug/kg	13.6	0.69	1	12/04/18 16:22	12/05/18 19:13	91-57-6	
Acenaphthene	<0.56	ug/kg	13.6	0.56	1	12/04/18 16:22	12/05/18 19:13	83-32-9	
Acenaphthylene	1.4J	ug/kg	13.6	0.67	1	12/04/18 16:22	12/05/18 19:13	208-96-8	
Anthracene	0.88J	ug/kg	13.6	0.64	1	12/04/18 16:22	12/05/18 19:13	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	13.6	1.5	1	12/04/18 16:22	12/05/18 19:13	56-55-3	
Benzo(a)pyrene	<0.94	ug/kg	13.6	0.94	1	12/04/18 16:22	12/05/18 19:13	50-32-8	
Benzo(b)fluoranthene	<0.51	ug/kg	13.6	0.51	1	12/04/18 16:22	12/05/18 19:13	205-99-2	
Benzo(g,h,i)perylene	<0.86	ug/kg	13.6	0.86	1	12/04/18 16:22	12/05/18 19:13	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	13.6	1.2	1	12/04/18 16:22	12/05/18 19:13	207-08-9	
Chrysene	<1.9	ug/kg	13.6	1.9	1	12/04/18 16:22	12/05/18 19:13	218-01-9	
Dibenz(a,h)anthracene	<0.63	ug/kg	13.6	0.63	1	12/04/18 16:22	12/05/18 19:13	53-70-3	
Fluoranthene	1.4J	ug/kg	13.6	0.58	1	12/04/18 16:22	12/05/18 19:13	206-44-0	L2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-13 (3.0-5.0)**      **Lab ID: 10457092026**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Fluorene	<0.43	ug/kg	13.6	0.43	1	12/04/18 16:22	12/05/18 19:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.91	ug/kg	13.6	0.91	1	12/04/18 16:22	12/05/18 19:13	193-39-5	
Naphthalene	<1.1	ug/kg	13.6	1.1	1	12/04/18 16:22	12/05/18 19:13	91-20-3	
Phenanthrene	<2.6	ug/kg	13.6	2.6	1	12/04/18 16:22	12/05/18 19:13	85-01-8	
Pyrene	<2.1	ug/kg	13.6	2.1	1	12/04/18 16:22	12/05/18 19:13	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	42-125		1	12/04/18 16:22	12/05/18 19:13	321-60-8	
p-Terphenyl-d14 (S)	63	%	57-125		1	12/04/18 16:22	12/05/18 19:13	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.31	ug/kg	5.4	0.31	1	02/27/19 09:34	02/27/19 18:39	106-93-4	
Methylene Chloride	<5.0	ug/kg	27.1	5.0	1	02/27/19 09:34	02/27/19 18:39	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	02/27/19 09:34	02/27/19 18:39	17060-07-0	5M,H3
Toluene-d8 (S)	87	%	75-125		1	02/27/19 09:34	02/27/19 18:39	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 18:39	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.1	ug/kg	80.1	25.1	1	12/10/18 10:49	12/10/18 17:41	630-20-6	
1,1,1-Trichloroethane	<37.3	ug/kg	80.1	37.3	1	12/10/18 10:49	12/10/18 17:41	71-55-6	
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	80.1	14.1	1	12/10/18 10:49	12/10/18 17:41	79-34-5	
1,1,2-Trichloroethane	<9.6	ug/kg	80.1	9.6	1	12/10/18 10:49	12/10/18 17:41	79-00-5	
1,1,2-Trichlorotrifluoroethane	<92.9	ug/kg	320	92.9	1	12/10/18 10:49	12/10/18 17:41	76-13-1	
1,1-Dichloroethane	<9.0	ug/kg	80.1	9.0	1	12/10/18 10:49	12/10/18 17:41	75-34-3	
1,1-Dichloroethene	<24.0	ug/kg	80.1	24.0	1	12/10/18 10:49	12/10/18 17:41	75-35-4	L2
1,1-Dichloropropene	<37.0	ug/kg	80.1	37.0	1	12/10/18 10:49	12/10/18 17:41	563-58-6	
1,2,3-Trichlorobenzene	<12.8	ug/kg	80.1	12.8	1	12/10/18 10:49	12/10/18 17:41	87-61-6	
1,2,3-Trichloropropane	<21.0	ug/kg	320	21.0	1	12/10/18 10:49	12/10/18 17:41	96-18-4	
1,2,4-Trichlorobenzene	<17.8	ug/kg	80.1	17.8	1	12/10/18 10:49	12/10/18 17:41	120-82-1	
1,2,4-Trimethylbenzene	<16.0	ug/kg	80.1	16.0	1	12/10/18 10:49	12/10/18 17:41	95-63-6	
1,2-Dibromo-3-chloropropane	<279	ug/kg	801	279	1	12/10/18 10:49	12/10/18 17:41	96-12-8	
1,2-Dibromoethane (EDB)	<8.4	ug/kg	80.1	8.4	1	12/10/18 10:49	12/10/18 17:41	106-93-4	
1,2-Dichlorobenzene	<3.2	ug/kg	80.1	3.2	1	12/10/18 10:49	12/10/18 17:41	95-50-1	
1,2-Dichloroethane	<8.8	ug/kg	80.1	8.8	1	12/10/18 10:49	12/10/18 17:41	107-06-2	
1,2-Dichloropropane	<13.8	ug/kg	80.1	13.8	1	12/10/18 10:49	12/10/18 17:41	78-87-5	
1,3,5-Trimethylbenzene	<12.8	ug/kg	80.1	12.8	1	12/10/18 10:49	12/10/18 17:41	108-67-8	
1,3-Dichlorobenzene	<2.9	ug/kg	80.1	2.9	1	12/10/18 10:49	12/10/18 17:41	541-73-1	
1,3-Dichloropropane	<11.1	ug/kg	80.1	11.1	1	12/10/18 10:49	12/10/18 17:41	142-28-9	
1,4-Dichlorobenzene	<5.0	ug/kg	80.1	5.0	1	12/10/18 10:49	12/10/18 17:41	106-46-7	
2,2-Dichloropropane	<10	ug/kg	320	10	1	12/10/18 10:49	12/10/18 17:41	594-20-7	
2-Butanone (MEK)	<42.6	ug/kg	400	42.6	1	12/10/18 10:49	12/10/18 17:41	78-93-3	
2-Chlorotoluene	<3.9	ug/kg	80.1	3.9	1	12/10/18 10:49	12/10/18 17:41	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	80.1	4.1	1	12/10/18 10:49	12/10/18 17:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.7	ug/kg	400	16.7	1	12/10/18 10:49	12/10/18 17:41	108-10-1	
Acetone	<498	ug/kg	1600	498	1	12/10/18 10:49	12/10/18 17:41	67-64-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-13 (3.0-5.0)**      **Lab ID: 10457092026**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<67.1	ug/kg	320	67.1	1	12/10/18 10:49	12/10/18 17:41	107-05-1	
Benzene	<4.5	ug/kg	32.0	4.5	1	12/10/18 10:49	12/10/18 17:41	71-43-2	
Bromobenzene	<4.9	ug/kg	80.1	4.9	1	12/10/18 10:49	12/10/18 17:41	108-86-1	
Bromochloromethane	<27.7	ug/kg	80.1	27.7	1	12/10/18 10:49	12/10/18 17:41	74-97-5	
Bromodichloromethane	<27.4	ug/kg	80.1	27.4	1	12/10/18 10:49	12/10/18 17:41	75-27-4	
Bromoform	<121	ug/kg	320	121	1	12/10/18 10:49	12/10/18 17:41	75-25-2	
Bromomethane	<93.7	ug/kg	801	93.7	1	12/10/18 10:49	12/10/18 17:41	74-83-9	
Carbon tetrachloride	<38.3	ug/kg	80.1	38.3	1	12/10/18 10:49	12/10/18 17:41	56-23-5	
Chlorobenzene	<4.5	ug/kg	80.1	4.5	1	12/10/18 10:49	12/10/18 17:41	108-90-7	
Chloroethane	<41.6	ug/kg	801	41.6	1	12/10/18 10:49	12/10/18 17:41	75-00-3	
Chloroform	<40.0	ug/kg	80.1	40.0	1	12/10/18 10:49	12/10/18 17:41	67-66-3	
Chloromethane	<19.2	ug/kg	320	19.2	1	12/10/18 10:49	12/10/18 17:41	74-87-3	
Dibromochloromethane	<9.3	ug/kg	320	9.3	1	12/10/18 10:49	12/10/18 17:41	124-48-1	
Dibromomethane	<14.7	ug/kg	80.1	14.7	1	12/10/18 10:49	12/10/18 17:41	74-95-3	L2
Dichlorodifluoromethane	<25.9	ug/kg	320	25.9	1	12/10/18 10:49	12/10/18 17:41	75-71-8	
Dichlorofluoromethane	<111	ug/kg	801	111	1	12/10/18 10:49	12/10/18 17:41	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.0	ug/kg	320	49.0	1	12/10/18 10:49	12/10/18 17:41	60-29-7	
Ethylbenzene	<4.4	ug/kg	80.1	4.4	1	12/10/18 10:49	12/10/18 17:41	100-41-4	
Hexachloro-1,3-butadiene	<19.5	ug/kg	400	19.5	1	12/10/18 10:49	12/10/18 17:41	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	80.1	3.6	1	12/10/18 10:49	12/10/18 17:41	98-82-8	
Methyl-tert-butyl ether	<9.5	ug/kg	80.1	9.5	1	12/10/18 10:49	12/10/18 17:41	1634-04-4	
Methylene Chloride	<151	ug/kg	320	151	1	12/10/18 10:49	12/10/18 17:41	75-09-2	
Naphthalene	<75.0	ug/kg	320	75.0	1	12/10/18 10:49	12/10/18 17:41	91-20-3	
Styrene	<3.7	ug/kg	80.1	3.7	1	12/10/18 10:49	12/10/18 17:41	100-42-5	
Tetrachloroethene	<28.2	ug/kg	80.1	28.2	1	12/10/18 10:49	12/10/18 17:41	127-18-4	L2
Tetrahydrofuran	<116	ug/kg	3200	116	1	12/10/18 10:49	12/10/18 17:41	109-99-9	
Toluene	<19.5	ug/kg	80.1	19.5	1	12/10/18 10:49	12/10/18 17:41	108-88-3	
Trichloroethene	<12.4	ug/kg	80.1	12.4	1	12/10/18 10:49	12/10/18 17:41	79-01-6	L2
Trichlorofluoromethane	<140	ug/kg	320	140	1	12/10/18 10:49	12/10/18 17:41	75-69-4	
Vinyl chloride	<15.8	ug/kg	32.0	15.8	1	12/10/18 10:49	12/10/18 17:41	75-01-4	
Xylene (Total)	<18.6	ug/kg	240	18.6	1	12/10/18 10:49	12/10/18 17:41	1330-20-7	
cis-1,2-Dichloroethene	<13.3	ug/kg	80.1	13.3	1	12/10/18 10:49	12/10/18 17:41	156-59-2	
cis-1,3-Dichloropropene	<11.5	ug/kg	80.1	11.5	1	12/10/18 10:49	12/10/18 17:41	10061-01-5	
n-Butylbenzene	<38.1	ug/kg	80.1	38.1	1	12/10/18 10:49	12/10/18 17:41	104-51-8	
n-Propylbenzene	<4.3	ug/kg	80.1	4.3	1	12/10/18 10:49	12/10/18 17:41	103-65-1	
p-Isopropyltoluene	<24.3	ug/kg	80.1	24.3	1	12/10/18 10:49	12/10/18 17:41	99-87-6	
sec-Butylbenzene	<15.3	ug/kg	80.1	15.3	1	12/10/18 10:49	12/10/18 17:41	135-98-8	
tert-Butylbenzene	<15.4	ug/kg	80.1	15.4	1	12/10/18 10:49	12/10/18 17:41	98-06-6	
trans-1,2-Dichloroethene	<37.5	ug/kg	80.1	37.5	1	12/10/18 10:49	12/10/18 17:41	156-60-5	
trans-1,3-Dichloropropene	<11.1	ug/kg	80.1	11.1	1	12/10/18 10:49	12/10/18 17:41	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/10/18 10:49	12/10/18 17:41	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 17:41	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	12/10/18 10:49	12/10/18 17:41	460-00-4	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-14 (0.0-2.0)**      **Lab ID: 10457092027**      Collected: 11/27/18 16:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.2	11.2	1	12/03/18 16:53	12/11/18 13:48	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.2	14.1	1	12/03/18 16:53	12/11/18 13:48	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.1	ug/kg	40.2	16.1	1	12/03/18 16:53	12/11/18 13:48	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.2	13.6	1	12/03/18 16:53	12/11/18 13:48	53469-21-9	
PCB-1248 (Aroclor 1248)	1620	ug/kg	40.2	12.1	1	12/03/18 16:53	12/11/18 13:48	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.2	11.8	1	12/03/18 16:53	12/11/18 13:48	11097-69-1	
PCB-1260 (Aroclor 1260)	868	ug/kg	40.2	9.6	1	12/03/18 16:53	12/11/18 13:48	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	83	%	48-125		1	12/03/18 16:53	12/11/18 13:48	877-09-8	
Decachlorobiphenyl (S)	82	%	30-134		1	12/03/18 16:53	12/11/18 13:48	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	114	mg/kg	90.7	14.7	5	12/03/18 14:05	12/13/18 10:25	68334-30-5	
Motor Oil Range	431	mg/kg	60.5	26.3	5	12/03/18 14:05	12/13/18 10:25		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		5	12/03/18 14:05	12/13/18 10:25	638-68-6	
o-Terphenyl (S)	129	%	50-150		5	12/03/18 14:05	12/13/18 10:25	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	1.5J	mg/kg	7.9	1.0	1	12/10/18 16:17	12/10/18 23:15		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/10/18 16:17	12/10/18 23:15	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.43	mg/kg	1.1	0.43	1	12/06/18 14:26	12/10/18 13:31	7440-36-0	
Arsenic	4.8	mg/kg	1.1	0.23	1	12/06/18 14:26	12/10/18 13:31	7440-38-2	
Beryllium	0.018J	mg/kg	0.28	0.015	1	12/06/18 14:26	12/10/18 13:31	7440-41-7	
Cadmium	2.5	mg/kg	0.17	0.023	1	12/06/18 14:26	12/10/18 13:31	7440-43-9	
Chromium	18.1	mg/kg	0.57	0.098	1	12/06/18 14:26	12/10/18 13:31	7440-47-3	
Copper	139	mg/kg	0.57	0.063	1	12/06/18 14:26	12/10/18 13:31	7440-50-8	
Lead	128	mg/kg	0.57	0.13	1	12/06/18 14:26	12/10/18 13:31	7439-92-1	
Nickel	17.6	mg/kg	1.1	0.072	1	12/06/18 14:26	12/10/18 13:31	7440-02-0	
Selenium	<0.37	mg/kg	1.1	0.37	1	12/06/18 14:26	12/10/18 13:31	7782-49-2	
Silver	0.19J	mg/kg	0.57	0.041	1	12/06/18 14:26	12/10/18 13:31	7440-22-4	
Thallium	0.74J	mg/kg	1.1	0.26	1	12/06/18 14:26	12/10/18 13:31	7440-28-0	
Zinc	383	mg/kg	1.1	0.50	1	12/06/18 14:26	12/10/18 13:31	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.12	mg/kg	0.020	0.0082	1	12/06/18 14:27	12/12/18 16:46	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.9	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	1.6J	ug/kg	12.1	0.65	1	12/04/18 16:22	12/05/18 19:34	90-12-0	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-14 (0.0-2.0)**      **Lab ID: 10457092027**      Collected: 11/27/18 16:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
2-Methylnaphthalene	<b>2.0J</b>	ug/kg	12.1	0.61	1	12/04/18 16:22	12/05/18 19:34	91-57-6	
Acenaphthene	<b>7.4J</b>	ug/kg	12.1	0.49	1	12/04/18 16:22	12/05/18 19:34	83-32-9	
Acenaphthylene	<b>7.3J</b>	ug/kg	12.1	0.60	1	12/04/18 16:22	12/05/18 19:34	208-96-8	
Anthracene	<b>39.4</b>	ug/kg	12.1	0.57	1	12/04/18 16:22	12/05/18 19:34	120-12-7	
Benzo(a)anthracene	<b>150</b>	ug/kg	12.1	1.3	1	12/04/18 16:22	12/05/18 19:34	56-55-3	
Benzo(a)pyrene	<b>142</b>	ug/kg	12.1	0.83	1	12/04/18 16:22	12/05/18 19:34	50-32-8	
Benzo(b)fluoranthene	<b>194</b>	ug/kg	12.1	0.45	1	12/04/18 16:22	12/05/18 19:34	205-99-2	
Benzo(g,h,i)perylene	<b>88.0</b>	ug/kg	12.1	0.76	1	12/04/18 16:22	12/05/18 19:34	191-24-2	
Benzo(k)fluoranthene	<b>77.1</b>	ug/kg	12.1	1.0	1	12/04/18 16:22	12/05/18 19:34	207-08-9	
Chrysene	<b>157</b>	ug/kg	12.1	1.6	1	12/04/18 16:22	12/05/18 19:34	218-01-9	
Dibenz(a,h)anthracene	<b>23.2</b>	ug/kg	12.1	0.56	1	12/04/18 16:22	12/05/18 19:34	53-70-3	
Fluoranthene	<b>241</b>	ug/kg	12.1	0.52	1	12/04/18 16:22	12/05/18 19:34	206-44-0	L2
Fluorene	<b>7.1J</b>	ug/kg	12.1	0.38	1	12/04/18 16:22	12/05/18 19:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>71.6</b>	ug/kg	12.1	0.81	1	12/04/18 16:22	12/05/18 19:34	193-39-5	
Naphthalene	<b>1.7J</b>	ug/kg	12.1	0.93	1	12/04/18 16:22	12/05/18 19:34	91-20-3	
Phenanthrene	<b>114</b>	ug/kg	12.1	2.3	1	12/04/18 16:22	12/05/18 19:34	85-01-8	
Pyrene	<b>220</b>	ug/kg	12.1	1.8	1	12/04/18 16:22	12/05/18 19:34	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	42-125		1	12/04/18 16:22	12/05/18 19:34	321-60-8	
p-Terphenyl-d14 (S)	75	%	57-125		1	12/04/18 16:22	12/05/18 19:34	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.27</b>	ug/kg	4.7	0.27	1	02/27/19 09:34	02/27/19 18:58	106-93-4	
Methylene Chloride	<b>4.6J</b>	ug/kg	23.7	4.3	1	02/27/19 09:34	02/27/19 18:58	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/27/19 09:34	02/27/19 18:58	17060-07-0	5M,H3
Toluene-d8 (S)	88	%	75-125		1	02/27/19 09:34	02/27/19 18:58	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	02/27/19 09:34	02/27/19 18:58	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;22.6</b>	ug/kg	71.9	22.6	1	12/10/18 10:49	12/10/18 17:58	630-20-6	
1,1,1-Trichloroethane	<b>&lt;33.5</b>	ug/kg	71.9	33.5	1	12/10/18 10:49	12/10/18 17:58	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;12.7</b>	ug/kg	71.9	12.7	1	12/10/18 10:49	12/10/18 17:58	79-34-5	
1,1,2-Trichloroethane	<b>&lt;8.6</b>	ug/kg	71.9	8.6	1	12/10/18 10:49	12/10/18 17:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;83.4</b>	ug/kg	288	83.4	1	12/10/18 10:49	12/10/18 17:58	76-13-1	
1,1-Dichloroethane	<b>&lt;8.1</b>	ug/kg	71.9	8.1	1	12/10/18 10:49	12/10/18 17:58	75-34-3	
1,1-Dichloroethene	<b>&lt;21.6</b>	ug/kg	71.9	21.6	1	12/10/18 10:49	12/10/18 17:58	75-35-4	L2
1,1-Dichloropropene	<b>&lt;33.2</b>	ug/kg	71.9	33.2	1	12/10/18 10:49	12/10/18 17:58	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;11.5</b>	ug/kg	71.9	11.5	1	12/10/18 10:49	12/10/18 17:58	87-61-6	
1,2,3-Trichloropropane	<b>&lt;18.8</b>	ug/kg	288	18.8	1	12/10/18 10:49	12/10/18 17:58	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;16.0</b>	ug/kg	71.9	16.0	1	12/10/18 10:49	12/10/18 17:58	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;14.4</b>	ug/kg	71.9	14.4	1	12/10/18 10:49	12/10/18 17:58	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;250</b>	ug/kg	719	250	1	12/10/18 10:49	12/10/18 17:58	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;7.6</b>	ug/kg	71.9	7.6	1	12/10/18 10:49	12/10/18 17:58	106-93-4	
1,2-Dichlorobenzene	<b>&lt;2.9</b>	ug/kg	71.9	2.9	1	12/10/18 10:49	12/10/18 17:58	95-50-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-14 (0.0-2.0)**      **Lab ID: 10457092027**      Collected: 11/27/18 16:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<7.9	ug/kg	71.9	7.9	1	12/10/18 10:49	12/10/18 17:58	107-06-2	
1,2-Dichloropropane	<12.4	ug/kg	71.9	12.4	1	12/10/18 10:49	12/10/18 17:58	78-87-5	
1,3,5-Trimethylbenzene	<11.5	ug/kg	71.9	11.5	1	12/10/18 10:49	12/10/18 17:58	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	71.9	2.6	1	12/10/18 10:49	12/10/18 17:58	541-73-1	
1,3-Dichloropropane	<10	ug/kg	71.9	10	1	12/10/18 10:49	12/10/18 17:58	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/kg	71.9	4.5	1	12/10/18 10:49	12/10/18 17:58	106-46-7	
2,2-Dichloropropane	<9.0	ug/kg	288	9.0	1	12/10/18 10:49	12/10/18 17:58	594-20-7	
2-Butanone (MEK)	<38.3	ug/kg	360	38.3	1	12/10/18 10:49	12/10/18 17:58	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	71.9	3.5	1	12/10/18 10:49	12/10/18 17:58	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	71.9	3.7	1	12/10/18 10:49	12/10/18 17:58	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.0	ug/kg	360	15.0	1	12/10/18 10:49	12/10/18 17:58	108-10-1	
Acetone	<447	ug/kg	1440	447	1	12/10/18 10:49	12/10/18 17:58	67-64-1	
Allyl chloride	<60.3	ug/kg	288	60.3	1	12/10/18 10:49	12/10/18 17:58	107-05-1	
Benzene	7.5J	ug/kg	28.8	4.1	1	12/10/18 10:49	12/10/18 17:58	71-43-2	
Bromobenzene	<4.4	ug/kg	71.9	4.4	1	12/10/18 10:49	12/10/18 17:58	108-86-1	
Bromochloromethane	<24.9	ug/kg	71.9	24.9	1	12/10/18 10:49	12/10/18 17:58	74-97-5	
Bromodichloromethane	<24.6	ug/kg	71.9	24.6	1	12/10/18 10:49	12/10/18 17:58	75-27-4	
Bromoform	<109	ug/kg	288	109	1	12/10/18 10:49	12/10/18 17:58	75-25-2	
Bromomethane	<84.1	ug/kg	719	84.1	1	12/10/18 10:49	12/10/18 17:58	74-83-9	
Carbon tetrachloride	<34.4	ug/kg	71.9	34.4	1	12/10/18 10:49	12/10/18 17:58	56-23-5	
Chlorobenzene	<4.1	ug/kg	71.9	4.1	1	12/10/18 10:49	12/10/18 17:58	108-90-7	
Chloroethane	<37.4	ug/kg	719	37.4	1	12/10/18 10:49	12/10/18 17:58	75-00-3	
Chloroform	<36.0	ug/kg	71.9	36.0	1	12/10/18 10:49	12/10/18 17:58	67-66-3	
Chloromethane	<17.3	ug/kg	288	17.3	1	12/10/18 10:49	12/10/18 17:58	74-87-3	
Dibromochloromethane	<8.3	ug/kg	288	8.3	1	12/10/18 10:49	12/10/18 17:58	124-48-1	
Dibromomethane	<13.2	ug/kg	71.9	13.2	1	12/10/18 10:49	12/10/18 17:58	74-95-3	L2
Dichlorodifluoromethane	<23.3	ug/kg	288	23.3	1	12/10/18 10:49	12/10/18 17:58	75-71-8	
Dichlorofluoromethane	<99.4	ug/kg	719	99.4	1	12/10/18 10:49	12/10/18 17:58	75-43-4	N2
Diethyl ether (Ethyl ether)	<44.0	ug/kg	288	44.0	1	12/10/18 10:49	12/10/18 17:58	60-29-7	
Ethylbenzene	5.6J	ug/kg	71.9	3.9	1	12/10/18 10:49	12/10/18 17:58	100-41-4	
Hexachloro-1,3-butadiene	<17.5	ug/kg	360	17.5	1	12/10/18 10:49	12/10/18 17:58	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	71.9	3.2	1	12/10/18 10:49	12/10/18 17:58	98-82-8	
Methyl-tert-butyl ether	<8.6	ug/kg	71.9	8.6	1	12/10/18 10:49	12/10/18 17:58	1634-04-4	
Methylene Chloride	<135	ug/kg	288	135	1	12/10/18 10:49	12/10/18 17:58	75-09-2	
Naphthalene	<67.3	ug/kg	288	67.3	1	12/10/18 10:49	12/10/18 17:58	91-20-3	
Styrene	826	ug/kg	71.9	3.3	1	12/10/18 10:49	12/10/18 17:58	100-42-5	
Tetrachloroethene	<25.3	ug/kg	71.9	25.3	1	12/10/18 10:49	12/10/18 17:58	127-18-4	L2
Tetrahydrofuran	<105	ug/kg	2880	105	1	12/10/18 10:49	12/10/18 17:58	109-99-9	
Toluene	<17.5	ug/kg	71.9	17.5	1	12/10/18 10:49	12/10/18 17:58	108-88-3	
Trichloroethene	<11.1	ug/kg	71.9	11.1	1	12/10/18 10:49	12/10/18 17:58	79-01-6	L2
Trichlorofluoromethane	<125	ug/kg	288	125	1	12/10/18 10:49	12/10/18 17:58	75-69-4	
Vinyl chloride	<14.2	ug/kg	28.8	14.2	1	12/10/18 10:49	12/10/18 17:58	75-01-4	
Xylene (Total)	<16.7	ug/kg	216	16.7	1	12/10/18 10:49	12/10/18 17:58	1330-20-7	
cis-1,2-Dichloroethene	<11.9	ug/kg	71.9	11.9	1	12/10/18 10:49	12/10/18 17:58	156-59-2	
cis-1,3-Dichloropropene	<10.3	ug/kg	71.9	10.3	1	12/10/18 10:49	12/10/18 17:58	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-14 (0.0-2.0)**      **Lab ID: 10457092027**      Collected: 11/27/18 16:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<34.2	ug/kg	71.9	34.2	1	12/10/18 10:49	12/10/18 17:58	104-51-8	
n-Propylbenzene	<3.8	ug/kg	71.9	3.8	1	12/10/18 10:49	12/10/18 17:58	103-65-1	
p-Isopropyltoluene	<21.9	ug/kg	71.9	21.9	1	12/10/18 10:49	12/10/18 17:58	99-87-6	
sec-Butylbenzene	<13.8	ug/kg	71.9	13.8	1	12/10/18 10:49	12/10/18 17:58	135-98-8	
tert-Butylbenzene	<13.8	ug/kg	71.9	13.8	1	12/10/18 10:49	12/10/18 17:58	98-06-6	
trans-1,2-Dichloroethene	<33.7	ug/kg	71.9	33.7	1	12/10/18 10:49	12/10/18 17:58	156-60-5	
trans-1,3-Dichloropropene	<10	ug/kg	71.9	10	1	12/10/18 10:49	12/10/18 17:58	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/10/18 10:49	12/10/18 17:58	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 17:58	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/10/18 10:49	12/10/18 17:58	460-00-4	

**Sample: DP-14 (3.0-5.0)**      **Lab ID: 10457092028**      Collected: 11/27/18 16:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.6	11.9	1	12/03/18 16:53	12/11/18 14:04	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.6	15.0	1	12/03/18 16:53	12/11/18 14:04	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.0	ug/kg	42.6	17.0	1	12/03/18 16:53	12/11/18 14:04	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.6	14.5	1	12/03/18 16:53	12/11/18 14:04	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.6	12.8	1	12/03/18 16:53	12/11/18 14:04	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.5	ug/kg	42.6	12.5	1	12/03/18 16:53	12/11/18 14:04	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.6	10.2	1	12/03/18 16:53	12/11/18 14:04	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/03/18 16:53	12/11/18 14:04	877-09-8	
Decachlorobiphenyl (S)	66	%	30-134		1	12/03/18 16:53	12/11/18 14:04	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.2	3.1	1	12/03/18 14:05	12/12/18 22:05	68334-30-5	
Motor Oil Range	6.2J	mg/kg	12.8	5.6	1	12/03/18 14:05	12/12/18 22:05		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/03/18 14:05	12/12/18 22:05	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/03/18 14:05	12/12/18 22:05	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.99	mg/kg	7.6	0.99	1	12/10/18 16:17	12/10/18 23:32		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/10/18 16:17	12/10/18 23:32	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.47	mg/kg	1.2	0.47	1	12/06/18 14:26	12/10/18 13:33	7440-36-0	
Arsenic	1.5	mg/kg	1.2	0.25	1	12/06/18 14:26	12/10/18 13:33	7440-38-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-14 (3.0-5.0)**      **Lab ID: 10457092028**      Collected: 11/27/18 16:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Beryllium	0.059J	mg/kg	0.31	0.017	1	12/06/18 14:26	12/10/18 13:33	7440-41-7	
Cadmium	0.18J	mg/kg	0.19	0.025	1	12/06/18 14:26	12/10/18 13:33	7440-43-9	
Chromium	5.5	mg/kg	0.62	0.11	1	12/06/18 14:26	12/10/18 13:33	7440-47-3	
Copper	19.7	mg/kg	0.62	0.069	1	12/06/18 14:26	12/10/18 13:33	7440-50-8	
Lead	11.2	mg/kg	0.62	0.14	1	12/06/18 14:26	12/10/18 13:33	7439-92-1	
Nickel	5.7	mg/kg	1.2	0.078	1	12/06/18 14:26	12/10/18 13:33	7440-02-0	
Selenium	<0.41	mg/kg	1.2	0.41	1	12/06/18 14:26	12/10/18 13:33	7782-49-2	
Silver	<0.045	mg/kg	0.62	0.045	1	12/06/18 14:26	12/10/18 13:33	7440-22-4	
Thallium	1.1J	mg/kg	1.2	0.29	1	12/06/18 14:26	12/10/18 13:33	7440-28-0	
Zinc	53.6	mg/kg	1.2	0.54	1	12/06/18 14:26	12/10/18 13:33	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0094	mg/kg	0.023	0.0094	1	12/06/18 14:27	12/12/18 16:49	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.6	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	12.9	0.69	1	12/04/18 16:22	12/05/18 19:54	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	12.9	0.65	1	12/04/18 16:22	12/05/18 19:54	91-57-6	
Acenaphthene	<0.53	ug/kg	12.9	0.53	1	12/04/18 16:22	12/05/18 19:54	83-32-9	
Acenaphthylene	1.3J	ug/kg	12.9	0.64	1	12/04/18 16:22	12/05/18 19:54	208-96-8	
Anthracene	0.86J	ug/kg	12.9	0.60	1	12/04/18 16:22	12/05/18 19:54	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	12.9	1.4	1	12/04/18 16:22	12/05/18 19:54	56-55-3	
Benzo(a)pyrene	<0.89	ug/kg	12.9	0.89	1	12/04/18 16:22	12/05/18 19:54	50-32-8	
Benzo(b)fluoranthene	0.75J	ug/kg	12.9	0.48	1	12/04/18 16:22	12/05/18 19:54	205-99-2	
Benzo(g,h,i)perylene	<0.82	ug/kg	12.9	0.82	1	12/04/18 16:22	12/05/18 19:54	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	12.9	1.1	1	12/04/18 16:22	12/05/18 19:54	207-08-9	
Chrysene	<1.8	ug/kg	12.9	1.8	1	12/04/18 16:22	12/05/18 19:54	218-01-9	
Dibenz(a,h)anthracene	<0.59	ug/kg	12.9	0.59	1	12/04/18 16:22	12/05/18 19:54	53-70-3	
Fluoranthene	1.4J	ug/kg	12.9	0.55	1	12/04/18 16:22	12/05/18 19:54	206-44-0	L2
Fluorene	<0.40	ug/kg	12.9	0.40	1	12/04/18 16:22	12/05/18 19:54	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.86	ug/kg	12.9	0.86	1	12/04/18 16:22	12/05/18 19:54	193-39-5	
Naphthalene	<0.99	ug/kg	12.9	0.99	1	12/04/18 16:22	12/05/18 19:54	91-20-3	
Phenanthrene	<2.5	ug/kg	12.9	2.5	1	12/04/18 16:22	12/05/18 19:54	85-01-8	
Pyrene	<2.0	ug/kg	12.9	2.0	1	12/04/18 16:22	12/05/18 19:54	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	42-125		1	12/04/18 16:22	12/05/18 19:54	321-60-8	
p-Terphenyl-d14 (S)	61	%	57-125		1	12/04/18 16:22	12/05/18 19:54	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.1	0.29	1	02/27/19 09:34	02/27/19 19:18	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.6	4.7	1	02/27/19 09:34	02/27/19 19:18	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	02/27/19 09:34	02/27/19 19:18	17060-07-0	5M,H3

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-14 (3.0-5.0)**      **Lab ID: 10457092028**      Collected: 11/27/18 16:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
Toluene-d8 (S)	87	%	75-125		1	02/27/19 09:34	02/27/19 19:18	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/27/19 09:34	02/27/19 19:18	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<26.4	ug/kg	84.2	26.4	1	12/10/18 10:49	12/10/18 18:15	630-20-6	
1,1,1-Trichloroethane	<39.2	ug/kg	84.2	39.2	1	12/10/18 10:49	12/10/18 18:15	71-55-6	
1,1,2,2-Tetrachloroethane	<14.8	ug/kg	84.2	14.8	1	12/10/18 10:49	12/10/18 18:15	79-34-5	
1,1,2-Trichloroethane	<10.1	ug/kg	84.2	10.1	1	12/10/18 10:49	12/10/18 18:15	79-00-5	
1,1,2-Trichlorotrifluoroethane	<97.7	ug/kg	337	97.7	1	12/10/18 10:49	12/10/18 18:15	76-13-1	
1,1-Dichloroethane	<9.4	ug/kg	84.2	9.4	1	12/10/18 10:49	12/10/18 18:15	75-34-3	
1,1-Dichloroethene	<25.3	ug/kg	84.2	25.3	1	12/10/18 10:49	12/10/18 18:15	75-35-4	L2
1,1-Dichloropropene	<38.9	ug/kg	84.2	38.9	1	12/10/18 10:49	12/10/18 18:15	563-58-6	
1,2,3-Trichlorobenzene	<13.5	ug/kg	84.2	13.5	1	12/10/18 10:49	12/10/18 18:15	87-61-6	
1,2,3-Trichloropropane	<22.1	ug/kg	337	22.1	1	12/10/18 10:49	12/10/18 18:15	96-18-4	
1,2,4-Trichlorobenzene	<18.7	ug/kg	84.2	18.7	1	12/10/18 10:49	12/10/18 18:15	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/kg	84.2	16.8	1	12/10/18 10:49	12/10/18 18:15	95-63-6	
1,2-Dibromo-3-chloropropane	<293	ug/kg	842	293	1	12/10/18 10:49	12/10/18 18:15	96-12-8	
1,2-Dibromoethane (EDB)	<8.9	ug/kg	84.2	8.9	1	12/10/18 10:49	12/10/18 18:15	106-93-4	
1,2-Dichlorobenzene	<3.4	ug/kg	84.2	3.4	1	12/10/18 10:49	12/10/18 18:15	95-50-1	
1,2-Dichloroethane	<9.3	ug/kg	84.2	9.3	1	12/10/18 10:49	12/10/18 18:15	107-06-2	
1,2-Dichloropropane	<14.5	ug/kg	84.2	14.5	1	12/10/18 10:49	12/10/18 18:15	78-87-5	
1,3,5-Trimethylbenzene	<13.4	ug/kg	84.2	13.4	1	12/10/18 10:49	12/10/18 18:15	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/kg	84.2	3.1	1	12/10/18 10:49	12/10/18 18:15	541-73-1	
1,3-Dichloropropane	<11.7	ug/kg	84.2	11.7	1	12/10/18 10:49	12/10/18 18:15	142-28-9	
1,4-Dichlorobenzene	<5.2	ug/kg	84.2	5.2	1	12/10/18 10:49	12/10/18 18:15	106-46-7	
2,2-Dichloropropane	<10.5	ug/kg	337	10.5	1	12/10/18 10:49	12/10/18 18:15	594-20-7	
2-Butanone (MEK)	<44.8	ug/kg	421	44.8	1	12/10/18 10:49	12/10/18 18:15	78-93-3	
2-Chlorotoluene	<4.1	ug/kg	84.2	4.1	1	12/10/18 10:49	12/10/18 18:15	95-49-8	
4-Chlorotoluene	<4.3	ug/kg	84.2	4.3	1	12/10/18 10:49	12/10/18 18:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.5	ug/kg	421	17.5	1	12/10/18 10:49	12/10/18 18:15	108-10-1	
Acetone	<524	ug/kg	1680	524	1	12/10/18 10:49	12/10/18 18:15	67-64-1	
Allyl chloride	<70.6	ug/kg	337	70.6	1	12/10/18 10:49	12/10/18 18:15	107-05-1	
Benzene	<4.7	ug/kg	33.7	4.7	1	12/10/18 10:49	12/10/18 18:15	71-43-2	
Bromobenzene	<5.2	ug/kg	84.2	5.2	1	12/10/18 10:49	12/10/18 18:15	108-86-1	
Bromochloromethane	<29.1	ug/kg	84.2	29.1	1	12/10/18 10:49	12/10/18 18:15	74-97-5	
Bromodichloromethane	<28.8	ug/kg	84.2	28.8	1	12/10/18 10:49	12/10/18 18:15	75-27-4	
Bromoform	<128	ug/kg	337	128	1	12/10/18 10:49	12/10/18 18:15	75-25-2	
Bromomethane	<98.5	ug/kg	842	98.5	1	12/10/18 10:49	12/10/18 18:15	74-83-9	
Carbon tetrachloride	<40.3	ug/kg	84.2	40.3	1	12/10/18 10:49	12/10/18 18:15	56-23-5	
Chlorobenzene	<4.7	ug/kg	84.2	4.7	1	12/10/18 10:49	12/10/18 18:15	108-90-7	
Chloroethane	<43.8	ug/kg	842	43.8	1	12/10/18 10:49	12/10/18 18:15	75-00-3	
Chloroform	<42.1	ug/kg	84.2	42.1	1	12/10/18 10:49	12/10/18 18:15	67-66-3	
Chloromethane	<20.2	ug/kg	337	20.2	1	12/10/18 10:49	12/10/18 18:15	74-87-3	
Dibromochloromethane	<9.8	ug/kg	337	9.8	1	12/10/18 10:49	12/10/18 18:15	124-48-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
 Pace Project No.: 10457092

**Sample: DP-14 (3.0-5.0)**      **Lab ID: 10457092028**      Collected: 11/27/18 16:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromomethane	<15.4	ug/kg	84.2	15.4	1	12/10/18 10:49	12/10/18 18:15	74-95-3	L2
Dichlorodifluoromethane	<27.3	ug/kg	337	27.3	1	12/10/18 10:49	12/10/18 18:15	75-71-8	
Dichlorofluoromethane	<116	ug/kg	842	116	1	12/10/18 10:49	12/10/18 18:15	75-43-4	N2
Diethyl ether (Ethyl ether)	<51.5	ug/kg	337	51.5	1	12/10/18 10:49	12/10/18 18:15	60-29-7	
Ethylbenzene	<4.6	ug/kg	84.2	4.6	1	12/10/18 10:49	12/10/18 18:15	100-41-4	
Hexachloro-1,3-butadiene	<20.5	ug/kg	421	20.5	1	12/10/18 10:49	12/10/18 18:15	87-68-3	
Isopropylbenzene (Cumene)	<3.7	ug/kg	84.2	3.7	1	12/10/18 10:49	12/10/18 18:15	98-82-8	
Methyl-tert-butyl ether	<10.0	ug/kg	84.2	10.0	1	12/10/18 10:49	12/10/18 18:15	1634-04-4	
Methylene Chloride	<158	ug/kg	337	158	1	12/10/18 10:49	12/10/18 18:15	75-09-2	
Naphthalene	<78.8	ug/kg	337	78.8	1	12/10/18 10:49	12/10/18 18:15	91-20-3	
Styrene	<3.8	ug/kg	84.2	3.8	1	12/10/18 10:49	12/10/18 18:15	100-42-5	
Tetrachloroethene	<29.6	ug/kg	84.2	29.6	1	12/10/18 10:49	12/10/18 18:15	127-18-4	L2
Tetrahydrofuran	<122	ug/kg	3370	122	1	12/10/18 10:49	12/10/18 18:15	109-99-9	
Toluene	<20.5	ug/kg	84.2	20.5	1	12/10/18 10:49	12/10/18 18:15	108-88-3	
Trichloroethene	<13.0	ug/kg	84.2	13.0	1	12/10/18 10:49	12/10/18 18:15	79-01-6	L2
Trichlorofluoromethane	<147	ug/kg	337	147	1	12/10/18 10:49	12/10/18 18:15	75-69-4	
Vinyl chloride	<16.6	ug/kg	33.7	16.6	1	12/10/18 10:49	12/10/18 18:15	75-01-4	
Xylene (Total)	<19.5	ug/kg	253	19.5	1	12/10/18 10:49	12/10/18 18:15	1330-20-7	
cis-1,2-Dichloroethene	<14.0	ug/kg	84.2	14.0	1	12/10/18 10:49	12/10/18 18:15	156-59-2	
cis-1,3-Dichloropropene	<12.1	ug/kg	84.2	12.1	1	12/10/18 10:49	12/10/18 18:15	10061-01-5	
n-Butylbenzene	<40.1	ug/kg	84.2	40.1	1	12/10/18 10:49	12/10/18 18:15	104-51-8	
n-Propylbenzene	<4.5	ug/kg	84.2	4.5	1	12/10/18 10:49	12/10/18 18:15	103-65-1	
p-Isopropyltoluene	<25.6	ug/kg	84.2	25.6	1	12/10/18 10:49	12/10/18 18:15	99-87-6	
sec-Butylbenzene	<16.1	ug/kg	84.2	16.1	1	12/10/18 10:49	12/10/18 18:15	135-98-8	
tert-Butylbenzene	<16.2	ug/kg	84.2	16.2	1	12/10/18 10:49	12/10/18 18:15	98-06-6	
trans-1,2-Dichloroethene	<39.4	ug/kg	84.2	39.4	1	12/10/18 10:49	12/10/18 18:15	156-60-5	
trans-1,3-Dichloropropene	<11.7	ug/kg	84.2	11.7	1	12/10/18 10:49	12/10/18 18:15	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1	12/10/18 10:49	12/10/18 18:15	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/10/18 10:49	12/10/18 18:15	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 18:15	460-00-4	

**Sample: DP-15 (0.0-2.0)**      **Lab ID: 10457092029**      Collected: 11/28/18 08:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.4	ug/kg	41.1	11.4	1	12/03/18 16:53	12/11/18 14:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.4	ug/kg	41.1	14.4	1	12/03/18 16:53	12/11/18 14:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.4	ug/kg	41.1	16.4	1	12/03/18 16:53	12/11/18 14:19	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.9	ug/kg	41.1	13.9	1	12/03/18 16:53	12/11/18 14:19	53469-21-9	
PCB-1248 (Aroclor 1248)	488	ug/kg	41.1	12.3	1	12/03/18 16:53	12/11/18 14:19	12672-29-6	
PCB-1254 (Aroclor 1254)	352	ug/kg	41.1	12.1	1	12/03/18 16:53	12/11/18 14:19	11097-69-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (0.0-2.0)**      **Lab ID: 10457092029**      Collected: 11/28/18 08:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1260 (Aroclor 1260)	<b>&lt;9.8</b>	ug/kg	41.1	9.8	1	12/03/18 16:53	12/11/18 14:19	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	48-125		1	12/03/18 16:53	12/11/18 14:19	877-09-8	
Decachlorobiphenyl (S)	62	%	30-134		1	12/03/18 16:53	12/11/18 14:19	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>110</b>	mg/kg	91.8	14.9	5	12/03/18 14:05	12/13/18 10:37	68334-30-5	
Motor Oil Range	<b>377</b>	mg/kg	61.2	26.6	5	12/03/18 14:05	12/13/18 10:37		
<b>Surrogates</b>									
n-Triacontane (S)	103	%	50-150		5	12/03/18 14:05	12/13/18 10:37	638-68-6	
o-Terphenyl (S)	121	%	50-150		5	12/03/18 14:05	12/13/18 10:37	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.94</b>	mg/kg	7.2	0.94	1	12/11/18 14:06	12/12/18 17:20		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	97	%	50-150		1	12/11/18 14:06	12/12/18 17:20	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>1.6</b>	mg/kg	1.2	0.44	1	12/06/18 14:26	12/10/18 13:35	7440-36-0	
Arsenic	<b>2.8</b>	mg/kg	1.2	0.24	1	12/06/18 14:26	12/10/18 13:35	7440-38-2	
Beryllium	<b>0.028J</b>	mg/kg	0.29	0.016	1	12/06/18 14:26	12/10/18 13:35	7440-41-7	
Cadmium	<b>1.1</b>	mg/kg	0.18	0.023	1	12/06/18 14:26	12/10/18 13:35	7440-43-9	
Chromium	<b>8.8</b>	mg/kg	0.58	0.10	1	12/06/18 14:26	12/10/18 13:35	7440-47-3	
Copper	<b>74.5</b>	mg/kg	0.58	0.065	1	12/06/18 14:26	12/10/18 13:35	7440-50-8	
Lead	<b>277</b>	mg/kg	0.58	0.13	1	12/06/18 14:26	12/10/18 13:35	7439-92-1	
Nickel	<b>10.5</b>	mg/kg	1.2	0.073	1	12/06/18 14:26	12/10/18 13:35	7440-02-0	
Selenium	<b>&lt;0.38</b>	mg/kg	1.2	0.38	1	12/06/18 14:26	12/10/18 13:35	7782-49-2	
Silver	<b>&lt;0.042</b>	mg/kg	0.58	0.042	1	12/06/18 14:26	12/10/18 13:35	7440-22-4	
Thallium	<b>0.86J</b>	mg/kg	1.2	0.27	1	12/06/18 14:26	12/10/18 13:35	7440-28-0	
Zinc	<b>228</b>	mg/kg	1.2	0.51	1	12/06/18 14:26	12/10/18 13:35	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.21</b>	mg/kg	0.024	0.0097	1	12/06/18 14:27	12/12/18 16:51	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>19.9</b>	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.67</b>	ug/kg	12.5	0.67	1	12/12/18 19:07	12/13/18 20:59	90-12-0	
2-Methylnaphthalene	<b>&lt;0.63</b>	ug/kg	12.5	0.63	1	12/12/18 19:07	12/13/18 20:59	91-57-6	
Acenaphthene	<b>&lt;0.51</b>	ug/kg	12.5	0.51	1	12/12/18 19:07	12/13/18 20:59	83-32-9	
Acenaphthylene	<b>6.6J</b>	ug/kg	12.5	0.62	1	12/12/18 19:07	12/13/18 20:59	208-96-8	
Anthracene	<b>11.5J</b>	ug/kg	12.5	0.58	1	12/12/18 19:07	12/13/18 20:59	120-12-7	
Benzo(a)anthracene	<b>16.5</b>	ug/kg	12.5	1.3	1	12/12/18 19:07	12/13/18 20:59	56-55-3	
Benzo(a)pyrene	<b>16.7</b>	ug/kg	12.5	0.86	1	12/12/18 19:07	12/13/18 20:59	50-32-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (0.0-2.0)**      **Lab ID: 1045709209**      Collected: 11/28/18 08:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(b)fluoranthene	18.3	ug/kg	12.5	0.47	1	12/12/18 19:07	12/13/18 20:59	205-99-2	
Benzo(g,h,i)perylene	11.6J	ug/kg	12.5	0.79	1	12/12/18 19:07	12/13/18 20:59	191-24-2	
Benzo(k)fluoranthene	7.8J	ug/kg	12.5	1.1	1	12/12/18 19:07	12/13/18 20:59	207-08-9	
Chrysene	12.3J	ug/kg	12.5	1.7	1	12/12/18 19:07	12/13/18 20:59	218-01-9	
Dibenz(a,h)anthracene	<0.58	ug/kg	12.5	0.58	1	12/12/18 19:07	12/13/18 20:59	53-70-3	
Fluoranthene	31.8	ug/kg	12.5	0.53	1	12/12/18 19:07	12/13/18 20:59	206-44-0	
Fluorene	3.9J	ug/kg	12.5	0.39	1	12/12/18 19:07	12/13/18 20:59	86-73-7	
Indeno(1,2,3-cd)pyrene	9.0J	ug/kg	12.5	0.84	1	12/12/18 19:07	12/13/18 20:59	193-39-5	
Naphthalene	<0.96	ug/kg	12.5	0.96	1	12/12/18 19:07	12/13/18 20:59	91-20-3	
Phenanthrene	30.6	ug/kg	12.5	2.4	1	12/12/18 19:07	12/13/18 20:59	85-01-8	
Pyrene	31.4	ug/kg	12.5	1.9	1	12/12/18 19:07	12/13/18 20:59	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	42-125		1	12/12/18 19:07	12/13/18 20:59	321-60-8	
p-Terphenyl-d14 (S)	60	%	57-125		1	12/12/18 19:07	12/13/18 20:59	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	02/27/19 09:34	02/27/19 19:37	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.6	4.5	1	02/27/19 09:34	02/27/19 19:37	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	02/27/19 09:34	02/27/19 19:37	17060-07-0	5M, H3
Toluene-d8 (S)	88	%	75-125		1	02/27/19 09:34	02/27/19 19:37	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 19:37	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.6	ug/kg	81.4	25.6	1	12/11/18 11:58	12/12/18 00:18	630-20-6	
1,1,1-Trichloroethane	<37.9	ug/kg	81.4	37.9	1	12/11/18 11:58	12/12/18 00:18	71-55-6	
1,1,2,2-Tetrachloroethane	<14.3	ug/kg	81.4	14.3	1	12/11/18 11:58	12/12/18 00:18	79-34-5	
1,1,2-Trichloroethane	<9.7	ug/kg	81.4	9.7	1	12/11/18 11:58	12/12/18 00:18	79-00-5	
1,1,2-Trichlorotrifluoroethane	<94.4	ug/kg	326	94.4	1	12/11/18 11:58	12/12/18 00:18	76-13-1	
1,1-Dichloroethane	<9.1	ug/kg	81.4	9.1	1	12/11/18 11:58	12/12/18 00:18	75-34-3	
1,1-Dichloroethene	<24.4	ug/kg	81.4	24.4	1	12/11/18 11:58	12/12/18 00:18	75-35-4	
1,1-Dichloropropene	<37.6	ug/kg	81.4	37.6	1	12/11/18 11:58	12/12/18 00:18	563-58-6	
1,2,3-Trichlorobenzene	<13.0	ug/kg	81.4	13.0	1	12/11/18 11:58	12/12/18 00:18	87-61-6	
1,2,3-Trichloropropane	<21.3	ug/kg	326	21.3	1	12/11/18 11:58	12/12/18 00:18	96-18-4	
1,2,4-Trichlorobenzene	<18.1	ug/kg	81.4	18.1	1	12/11/18 11:58	12/12/18 00:18	120-82-1	
1,2,4-Trimethylbenzene	<16.3	ug/kg	81.4	16.3	1	12/11/18 11:58	12/12/18 00:18	95-63-6	
1,2-Dibromo-3-chloropropane	<283	ug/kg	814	283	1	12/11/18 11:58	12/12/18 00:18	96-12-8	
1,2-Dibromoethane (EDB)	<8.6	ug/kg	81.4	8.6	1	12/11/18 11:58	12/12/18 00:18	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	81.4	3.3	1	12/11/18 11:58	12/12/18 00:18	95-50-1	
1,2-Dichloroethane	<9.0	ug/kg	81.4	9.0	1	12/11/18 11:58	12/12/18 00:18	107-06-2	
1,2-Dichloropropane	<14.0	ug/kg	81.4	14.0	1	12/11/18 11:58	12/12/18 00:18	78-87-5	
1,3,5-Trimethylbenzene	<13.0	ug/kg	81.4	13.0	1	12/11/18 11:58	12/12/18 00:18	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	81.4	3.0	1	12/11/18 11:58	12/12/18 00:18	541-73-1	
1,3-Dichloropropane	<11.3	ug/kg	81.4	11.3	1	12/11/18 11:58	12/12/18 00:18	142-28-9	
1,4-Dichlorobenzene	<5.0	ug/kg	81.4	5.0	1	12/11/18 11:58	12/12/18 00:18	106-46-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (0.0-2.0)**      **Lab ID: 10457092029**      Collected: 11/28/18 08:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	<10.2	ug/kg	326	10.2	1	12/11/18 11:58	12/12/18 00:18	594-20-7	
2-Butanone (MEK)	<43.3	ug/kg	407	43.3	1	12/11/18 11:58	12/12/18 00:18	78-93-3	
2-Chlorotoluene	<4.0	ug/kg	81.4	4.0	1	12/11/18 11:58	12/12/18 00:18	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	81.4	4.2	1	12/11/18 11:58	12/12/18 00:18	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.9	ug/kg	407	16.9	1	12/11/18 11:58	12/12/18 00:18	108-10-1	
Acetone	<506	ug/kg	1630	506	1	12/11/18 11:58	12/12/18 00:18	67-64-1	
Allyl chloride	<68.2	ug/kg	326	68.2	1	12/11/18 11:58	12/12/18 00:18	107-05-1	
Benzene	<4.6	ug/kg	32.6	4.6	1	12/11/18 11:58	12/12/18 00:18	71-43-2	
Bromobenzene	<5.0	ug/kg	81.4	5.0	1	12/11/18 11:58	12/12/18 00:18	108-86-1	
Bromochloromethane	<28.2	ug/kg	81.4	28.2	1	12/11/18 11:58	12/12/18 00:18	74-97-5	
Bromodichloromethane	<27.8	ug/kg	81.4	27.8	1	12/11/18 11:58	12/12/18 00:18	75-27-4	
Bromoform	<123	ug/kg	326	123	1	12/11/18 11:58	12/12/18 00:18	75-25-2	
Bromomethane	<95.2	ug/kg	814	95.2	1	12/11/18 11:58	12/12/18 00:18	74-83-9	
Carbon tetrachloride	<38.9	ug/kg	326	38.9	1	12/11/18 11:58	12/12/18 00:18	56-23-5	
Chlorobenzene	<4.6	ug/kg	81.4	4.6	1	12/11/18 11:58	12/12/18 00:18	108-90-7	
Chloroethane	<42.3	ug/kg	814	42.3	1	12/11/18 11:58	12/12/18 00:18	75-00-3	
Chloroform	<40.7	ug/kg	81.4	40.7	1	12/11/18 11:58	12/12/18 00:18	67-66-3	
Chloromethane	<19.5	ug/kg	326	19.5	1	12/11/18 11:58	12/12/18 00:18	74-87-3	
Dibromochloromethane	<9.4	ug/kg	326	9.4	1	12/11/18 11:58	12/12/18 00:18	124-48-1	
Dibromomethane	<14.9	ug/kg	81.4	14.9	1	12/11/18 11:58	12/12/18 00:18	74-95-3	
Dichlorodifluoromethane	<26.4	ug/kg	326	26.4	1	12/11/18 11:58	12/12/18 00:18	75-71-8	
Dichlorofluoromethane	<112	ug/kg	814	112	1	12/11/18 11:58	12/12/18 00:18	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.8	ug/kg	326	49.8	1	12/11/18 11:58	12/12/18 00:18	60-29-7	
Ethylbenzene	<4.4	ug/kg	81.4	4.4	1	12/11/18 11:58	12/12/18 00:18	100-41-4	
Hexachloro-1,3-butadiene	<19.9	ug/kg	407	19.9	1	12/11/18 11:58	12/12/18 00:18	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	81.4	3.6	1	12/11/18 11:58	12/12/18 00:18	98-82-8	
Methyl-tert-butyl ether	<9.7	ug/kg	81.4	9.7	1	12/11/18 11:58	12/12/18 00:18	1634-04-4	
Methylene Chloride	<153	ug/kg	326	153	1	12/11/18 11:58	12/12/18 00:18	75-09-2	
Naphthalene	<76.2	ug/kg	326	76.2	1	12/11/18 11:58	12/12/18 00:18	91-20-3	
Styrene	<3.7	ug/kg	81.4	3.7	1	12/11/18 11:58	12/12/18 00:18	100-42-5	
Tetrachloroethene	<28.7	ug/kg	81.4	28.7	1	12/11/18 11:58	12/12/18 00:18	127-18-4	
Tetrahydrofuran	<118	ug/kg	3260	118	1	12/11/18 11:58	12/12/18 00:18	109-99-9	
Toluene	<19.9	ug/kg	81.4	19.9	1	12/11/18 11:58	12/12/18 00:18	108-88-3	
Trichloroethene	<12.6	ug/kg	81.4	12.6	1	12/11/18 11:58	12/12/18 00:18	79-01-6	
Trichlorofluoromethane	<142	ug/kg	326	142	1	12/11/18 11:58	12/12/18 00:18	75-69-4	
Vinyl chloride	<16.0	ug/kg	32.6	16.0	1	12/11/18 11:58	12/12/18 00:18	75-01-4	
Xylene (Total)	<18.9	ug/kg	244	18.9	1	12/11/18 11:58	12/12/18 00:18	1330-20-7	
cis-1,2-Dichloroethene	<13.5	ug/kg	81.4	13.5	1	12/11/18 11:58	12/12/18 00:18	156-59-2	
cis-1,3-Dichloropropene	<11.7	ug/kg	81.4	11.7	1	12/11/18 11:58	12/12/18 00:18	10061-01-5	
n-Butylbenzene	<38.7	ug/kg	81.4	38.7	1	12/11/18 11:58	12/12/18 00:18	104-51-8	
n-Propylbenzene	<4.3	ug/kg	81.4	4.3	1	12/11/18 11:58	12/12/18 00:18	103-65-1	
p-Isopropyltoluene	<24.7	ug/kg	81.4	24.7	1	12/11/18 11:58	12/12/18 00:18	99-87-6	
sec-Butylbenzene	<15.6	ug/kg	81.4	15.6	1	12/11/18 11:58	12/12/18 00:18	135-98-8	
tert-Butylbenzene	<15.6	ug/kg	81.4	15.6	1	12/11/18 11:58	12/12/18 00:18	98-06-6	
trans-1,2-Dichloroethene	<38.1	ug/kg	81.4	38.1	1	12/11/18 11:58	12/12/18 00:18	156-60-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (0.0-2.0)**      **Lab ID: 10457092029**      Collected: 11/28/18 08:45      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,3-Dichloropropene	<11.3	ug/kg	81.4	11.3	1	12/11/18 11:58	12/12/18 00:18	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	12/11/18 11:58	12/12/18 00:18	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/11/18 11:58	12/12/18 00:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/11/18 11:58	12/12/18 00:18	460-00-4	

**Sample: DP-15 (3.0-5.0)**      **Lab ID: 10457092030**      Collected: 11/28/18 08:55      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.8	ug/kg	42.5	11.8	1	12/03/18 16:53	12/11/18 14:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.5	15.0	1	12/03/18 16:53	12/11/18 14:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.0	ug/kg	42.5	17.0	1	12/03/18 16:53	12/11/18 14:34	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.4	ug/kg	42.5	14.4	1	12/03/18 16:53	12/11/18 14:34	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.5	12.8	1	12/03/18 16:53	12/11/18 14:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.5	ug/kg	42.5	12.5	1	12/03/18 16:53	12/11/18 14:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.5	10.2	1	12/03/18 16:53	12/11/18 14:34	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	89	%	48-125		1	12/03/18 16:53	12/11/18 14:34	877-09-8	
Decachlorobiphenyl (S)	75	%	30-134		1	12/03/18 16:53	12/11/18 14:34	2051-24-3	

<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	7.3J	mg/kg	19.3	3.1	1	12/03/18 14:05	12/12/18 22:16	68334-30-5	
Motor Oil Range	7.0J	mg/kg	12.9	5.6	1	12/03/18 14:05	12/12/18 22:16		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/03/18 14:05	12/12/18 22:16	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/03/18 14:05	12/12/18 22:16	84-15-1	

<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.1	1.1	1	12/11/18 14:06	12/12/18 17:37		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	97	%	50-150		1	12/11/18 14:06	12/12/18 17:37	98-08-8	

<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.48	mg/kg	1.3	0.48	1	12/06/18 14:26	12/10/18 13:36	7440-36-0	
Arsenic	0.54J	mg/kg	1.3	0.26	1	12/06/18 14:26	12/10/18 13:36	7440-38-2	
Beryllium	0.036J	mg/kg	0.32	0.017	1	12/06/18 14:26	12/10/18 13:36	7440-41-7	
Cadmium	0.058J	mg/kg	0.19	0.025	1	12/06/18 14:26	12/10/18 13:36	7440-43-9	
Chromium	3.5	mg/kg	0.64	0.11	1	12/06/18 14:26	12/10/18 13:36	7440-47-3	
Copper	7.7	mg/kg	0.64	0.071	1	12/06/18 14:26	12/10/18 13:36	7440-50-8	
Lead	1.8	mg/kg	0.64	0.14	1	12/06/18 14:26	12/10/18 13:36	7439-92-1	
Nickel	3.5	mg/kg	1.3	0.081	1	12/06/18 14:26	12/10/18 13:36	7440-02-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-15 (3.0-5.0)**      **Lab ID: 10457092030**      Collected: 11/28/18 08:55      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Selenium	<0.42	mg/kg	1.3	0.42	1	12/06/18 14:26	12/10/18 13:36	7782-49-2	
Silver	<0.046	mg/kg	0.64	0.046	1	12/06/18 14:26	12/10/18 13:36	7440-22-4	
Thallium	0.39J	mg/kg	1.3	0.29	1	12/06/18 14:26	12/10/18 13:36	7440-28-0	
Zinc	15.4	mg/kg	1.3	0.56	1	12/06/18 14:26	12/10/18 13:36	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0097	mg/kg	0.024	0.0097	1	12/06/18 14:27	12/12/18 16:53	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.6	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	12.9	0.69	1	12/06/18 10:37	12/12/18 15:35	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	12.9	0.65	1	12/06/18 10:37	12/12/18 15:35	91-57-6	
Acenaphthene	<0.53	ug/kg	12.9	0.53	1	12/06/18 10:37	12/12/18 15:35	83-32-9	
Acenaphthylene	<0.64	ug/kg	12.9	0.64	1	12/06/18 10:37	12/12/18 15:35	208-96-8	
Anthracene	<0.60	ug/kg	12.9	0.60	1	12/06/18 10:37	12/12/18 15:35	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	12.9	1.4	1	12/06/18 10:37	12/12/18 15:35	56-55-3	
Benzo(a)pyrene	<0.89	ug/kg	12.9	0.89	1	12/06/18 10:37	12/12/18 15:35	50-32-8	
Benzo(b)fluoranthene	0.78J	ug/kg	12.9	0.48	1	12/06/18 10:37	12/12/18 15:35	205-99-2	
Benzo(g,h,i)perylene	<0.82	ug/kg	12.9	0.82	1	12/06/18 10:37	12/12/18 15:35	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	12.9	1.1	1	12/06/18 10:37	12/12/18 15:35	207-08-9	
Chrysene	<1.8	ug/kg	12.9	1.8	1	12/06/18 10:37	12/12/18 15:35	218-01-9	
Dibenz(a,h)anthracene	<0.60	ug/kg	12.9	0.60	1	12/06/18 10:37	12/12/18 15:35	53-70-3	
Fluoranthene	1.3J	ug/kg	12.9	0.55	1	12/06/18 10:37	12/12/18 15:35	206-44-0	
Fluorene	<0.40	ug/kg	12.9	0.40	1	12/06/18 10:37	12/12/18 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.87	ug/kg	12.9	0.87	1	12/06/18 10:37	12/12/18 15:35	193-39-5	
Naphthalene	<1.0	ug/kg	12.9	1.0	1	12/06/18 10:37	12/12/18 15:35	91-20-3	
Phenanthrene	<2.5	ug/kg	12.9	2.5	1	12/06/18 10:37	12/12/18 15:35	85-01-8	
Pyrene	<2.0	ug/kg	12.9	2.0	1	12/06/18 10:37	12/12/18 15:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	42-125		1	12/06/18 10:37	12/12/18 15:35	321-60-8	
p-Terphenyl-d14 (S)	61	%	57-125		1	12/06/18 10:37	12/12/18 15:35	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.1	0.29	1	02/27/19 09:34	02/27/19 19:56	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.4	4.7	1	02/27/19 09:34	02/27/19 19:56	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	02/27/19 09:34	02/27/19 19:56	17060-07-0	5M, H3
Toluene-d8 (S)	88	%	75-125		1	02/27/19 09:34	02/27/19 19:56	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 19:56	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.1	ug/kg	79.8	25.1	1	12/11/18 11:58	12/12/18 00:36	630-20-6	
1,1,1-Trichloroethane	<37.2	ug/kg	79.8	37.2	1	12/11/18 11:58	12/12/18 00:36	71-55-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (3.0-5.0)**      **Lab ID: 10457092030**      Collected: 11/28/18 08:55      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2,2-Tetrachloroethane	<14.1	ug/kg	79.8	14.1	1	12/11/18 11:58	12/12/18 00:36	79-34-5	
1,1,2-Trichloroethane	<9.5	ug/kg	79.8	9.5	1	12/11/18 11:58	12/12/18 00:36	79-00-5	
1,1,2-Trichlorotrifluoroethane	<92.6	ug/kg	319	92.6	1	12/11/18 11:58	12/12/18 00:36	76-13-1	
1,1-Dichloroethane	<9.0	ug/kg	79.8	9.0	1	12/11/18 11:58	12/12/18 00:36	75-34-3	
1,1-Dichloroethene	<23.9	ug/kg	79.8	23.9	1	12/11/18 11:58	12/12/18 00:36	75-35-4	
1,1-Dichloropropene	<36.9	ug/kg	79.8	36.9	1	12/11/18 11:58	12/12/18 00:36	563-58-6	
1,2,3-Trichlorobenzene	<12.8	ug/kg	79.8	12.8	1	12/11/18 11:58	12/12/18 00:36	87-61-6	
1,2,3-Trichloropropane	<20.9	ug/kg	319	20.9	1	12/11/18 11:58	12/12/18 00:36	96-18-4	
1,2,4-Trichlorobenzene	<17.7	ug/kg	79.8	17.7	1	12/11/18 11:58	12/12/18 00:36	120-82-1	
1,2,4-Trimethylbenzene	<16.0	ug/kg	79.8	16.0	1	12/11/18 11:58	12/12/18 00:36	95-63-6	
1,2-Dibromo-3-chloropropane	<278	ug/kg	798	278	1	12/11/18 11:58	12/12/18 00:36	96-12-8	
1,2-Dibromoethane (EDB)	<8.4	ug/kg	79.8	8.4	1	12/11/18 11:58	12/12/18 00:36	106-93-4	
1,2-Dichlorobenzene	<3.2	ug/kg	79.8	3.2	1	12/11/18 11:58	12/12/18 00:36	95-50-1	
1,2-Dichloroethane	<8.8	ug/kg	79.8	8.8	1	12/11/18 11:58	12/12/18 00:36	107-06-2	
1,2-Dichloropropane	<13.8	ug/kg	79.8	13.8	1	12/11/18 11:58	12/12/18 00:36	78-87-5	
1,3,5-Trimethylbenzene	<12.7	ug/kg	79.8	12.7	1	12/11/18 11:58	12/12/18 00:36	108-67-8	
1,3-Dichlorobenzene	<2.9	ug/kg	79.8	2.9	1	12/11/18 11:58	12/12/18 00:36	541-73-1	
1,3-Dichloropropane	<11.0	ug/kg	79.8	11.0	1	12/11/18 11:58	12/12/18 00:36	142-28-9	
1,4-Dichlorobenzene	<4.9	ug/kg	79.8	4.9	1	12/11/18 11:58	12/12/18 00:36	106-46-7	
2,2-Dichloropropane	<10	ug/kg	319	10	1	12/11/18 11:58	12/12/18 00:36	594-20-7	
2-Butanone (MEK)	<42.4	ug/kg	399	42.4	1	12/11/18 11:58	12/12/18 00:36	78-93-3	
2-Chlorotoluene	<3.9	ug/kg	79.8	3.9	1	12/11/18 11:58	12/12/18 00:36	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	79.8	4.1	1	12/11/18 11:58	12/12/18 00:36	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.6	ug/kg	399	16.6	1	12/11/18 11:58	12/12/18 00:36	108-10-1	
Acetone	<496	ug/kg	1600	496	1	12/11/18 11:58	12/12/18 00:36	67-64-1	
Allyl chloride	<66.9	ug/kg	319	66.9	1	12/11/18 11:58	12/12/18 00:36	107-05-1	
Benzene	12.3J	ug/kg	31.9	4.5	1	12/11/18 11:58	12/12/18 00:36	71-43-2	B
Bromobenzene	<4.9	ug/kg	79.8	4.9	1	12/11/18 11:58	12/12/18 00:36	108-86-1	
Bromochloromethane	<27.6	ug/kg	79.8	27.6	1	12/11/18 11:58	12/12/18 00:36	74-97-5	
Bromodichloromethane	<27.3	ug/kg	79.8	27.3	1	12/11/18 11:58	12/12/18 00:36	75-27-4	
Bromoform	<121	ug/kg	319	121	1	12/11/18 11:58	12/12/18 00:36	75-25-2	
Bromomethane	<93.4	ug/kg	798	93.4	1	12/11/18 11:58	12/12/18 00:36	74-83-9	
Carbon tetrachloride	<38.1	ug/kg	319	38.1	1	12/11/18 11:58	12/12/18 00:36	56-23-5	
Chlorobenzene	<4.5	ug/kg	79.8	4.5	1	12/11/18 11:58	12/12/18 00:36	108-90-7	
Chloroethane	<41.5	ug/kg	798	41.5	1	12/11/18 11:58	12/12/18 00:36	75-00-3	
Chloroform	<39.9	ug/kg	79.8	39.9	1	12/11/18 11:58	12/12/18 00:36	67-66-3	
Chloromethane	<19.1	ug/kg	319	19.1	1	12/11/18 11:58	12/12/18 00:36	74-87-3	
Dibromochloromethane	<9.3	ug/kg	319	9.3	1	12/11/18 11:58	12/12/18 00:36	124-48-1	
Dibromomethane	<14.6	ug/kg	79.8	14.6	1	12/11/18 11:58	12/12/18 00:36	74-95-3	
Dichlorodifluoromethane	<25.9	ug/kg	319	25.9	1	12/11/18 11:58	12/12/18 00:36	75-71-8	
Dichlorofluoromethane	<110	ug/kg	798	110	1	12/11/18 11:58	12/12/18 00:36	75-43-4	N2
Diethyl ether (Ethyl ether)	<48.8	ug/kg	319	48.8	1	12/11/18 11:58	12/12/18 00:36	60-29-7	
Ethylbenzene	<4.3	ug/kg	79.8	4.3	1	12/11/18 11:58	12/12/18 00:36	100-41-4	
Hexachloro-1,3-butadiene	<19.5	ug/kg	399	19.5	1	12/11/18 11:58	12/12/18 00:36	87-68-3	
Isopropylbenzene (Cumene)	<3.5	ug/kg	79.8	3.5	1	12/11/18 11:58	12/12/18 00:36	98-82-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-15 (3.0-5.0)**      **Lab ID: 10457092030**      Collected: 11/28/18 08:55      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	<9.5	ug/kg	79.8	9.5	1	12/11/18 11:58	12/12/18 00:36	1634-04-4	
Methylene Chloride	<150	ug/kg	319	150	1	12/11/18 11:58	12/12/18 00:36	75-09-2	
Naphthalene	<74.7	ug/kg	319	74.7	1	12/11/18 11:58	12/12/18 00:36	91-20-3	
Styrene	<3.6	ug/kg	79.8	3.6	1	12/11/18 11:58	12/12/18 00:36	100-42-5	
Tetrachloroethene	<28.1	ug/kg	79.8	28.1	1	12/11/18 11:58	12/12/18 00:36	127-18-4	
Tetrahydrofuran	<116	ug/kg	3190	116	1	12/11/18 11:58	12/12/18 00:36	109-99-9	
Toluene	<19.5	ug/kg	79.8	19.5	1	12/11/18 11:58	12/12/18 00:36	108-88-3	
Trichloroethene	<12.3	ug/kg	79.8	12.3	1	12/11/18 11:58	12/12/18 00:36	79-01-6	
Trichlorofluoromethane	<139	ug/kg	319	139	1	12/11/18 11:58	12/12/18 00:36	75-69-4	
Vinyl chloride	<15.7	ug/kg	31.9	15.7	1	12/11/18 11:58	12/12/18 00:36	75-01-4	
Xylene (Total)	<18.5	ug/kg	239	18.5	1	12/11/18 11:58	12/12/18 00:36	1330-20-7	
cis-1,2-Dichloroethene	<13.2	ug/kg	79.8	13.2	1	12/11/18 11:58	12/12/18 00:36	156-59-2	
cis-1,3-Dichloropropene	<11.4	ug/kg	79.8	11.4	1	12/11/18 11:58	12/12/18 00:36	10061-01-5	
n-Butylbenzene	<38.0	ug/kg	79.8	38.0	1	12/11/18 11:58	12/12/18 00:36	104-51-8	
n-Propylbenzene	<4.3	ug/kg	79.8	4.3	1	12/11/18 11:58	12/12/18 00:36	103-65-1	
p-Isopropyltoluene	<24.3	ug/kg	79.8	24.3	1	12/11/18 11:58	12/12/18 00:36	99-87-6	
sec-Butylbenzene	<15.3	ug/kg	79.8	15.3	1	12/11/18 11:58	12/12/18 00:36	135-98-8	
tert-Butylbenzene	<15.3	ug/kg	79.8	15.3	1	12/11/18 11:58	12/12/18 00:36	98-06-6	
trans-1,2-Dichloroethene	<37.3	ug/kg	79.8	37.3	1	12/11/18 11:58	12/12/18 00:36	156-60-5	
trans-1,3-Dichloropropene	<11.1	ug/kg	79.8	11.1	1	12/11/18 11:58	12/12/18 00:36	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/11/18 11:58	12/12/18 00:36	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 11:58	12/12/18 00:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 11:58	12/12/18 00:36	460-00-4	

**Sample: DP-16 (0.0-2.0)**      **Lab ID: 10457092031**      Collected: 11/28/18 09:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.6	ug/kg	41.8	11.6	1	12/03/18 16:53	12/11/18 14:49	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.8	14.7	1	12/03/18 16:53	12/11/18 14:49	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.8	16.7	1	12/03/18 16:53	12/11/18 14:49	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.2	ug/kg	41.8	14.2	1	12/03/18 16:53	12/11/18 14:49	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.5	ug/kg	41.8	12.5	1	12/03/18 16:53	12/11/18 14:49	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.8	12.3	1	12/03/18 16:53	12/11/18 14:49	11097-69-1	
PCB-1260 (Aroclor 1260)	<10	ug/kg	41.8	10	1	12/03/18 16:53	12/11/18 14:49	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	48-125		1	12/03/18 16:53	12/11/18 14:49	877-09-8	
Decachlorobiphenyl (S)	69	%	30-134		1	12/03/18 16:53	12/11/18 14:49	2051-24-3	

**NWTPH-Dx GCS**

Analytical Method: NWTPH-Dx Preparation Method: EPA 3550

Diesel Fuel Range	<3.0	mg/kg	18.8	3.0	1	12/03/18 14:05	12/12/18 22:28	68334-30-5	
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Sample Project No.: 10457092

**Sample: DP-16 (0.0-2.0)**      **Lab ID: 10457092031**      Collected: 11/28/18 09:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Motor Oil Range	<b>6.9J</b>	mg/kg	12.5	5.4	1	12/03/18 14:05	12/12/18 22:28		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 22:28	638-68-6	
o-Terphenyl (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 22:28	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.93</b>	mg/kg	7.1	0.93	1	12/11/18 14:06	12/12/18 17:54		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/11/18 14:06	12/12/18 17:54	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.2</b>	mg/kg	5.8	2.2	5	12/06/18 14:26	12/11/18 11:38	7440-36-0	D3
Arsenic	<b>2.8J</b>	mg/kg	5.8	1.2	5	12/06/18 14:26	12/11/18 11:38	7440-38-2	D3
Beryllium	<b>&lt;0.077</b>	mg/kg	1.4	0.077	5	12/06/18 14:26	12/11/18 11:38	7440-41-7	D3
Cadmium	<b>1.9</b>	mg/kg	0.86	0.11	5	12/06/18 14:26	12/11/18 11:38	7440-43-9	
Chromium	<b>29.7</b>	mg/kg	2.9	0.49	5	12/06/18 14:26	12/11/18 11:38	7440-47-3	
Copper	<b>193</b>	mg/kg	2.9	0.32	5	12/06/18 14:26	12/11/18 11:38	7440-50-8	
Lead	<b>118</b>	mg/kg	2.9	0.65	5	12/06/18 14:26	12/11/18 11:38	7439-92-1	
Nickel	<b>22.5</b>	mg/kg	5.8	0.36	5	12/06/18 14:26	12/11/18 11:38	7440-02-0	
Selenium	<b>&lt;1.9</b>	mg/kg	5.8	1.9	5	12/06/18 14:26	12/11/18 11:38	7782-49-2	D3
Silver	<b>&lt;0.21</b>	mg/kg	2.9	0.21	5	12/06/18 14:26	12/11/18 11:38	7440-22-4	D3
Thallium	<b>3.5J</b>	mg/kg	5.8	1.3	5	12/06/18 14:26	12/11/18 11:38	7440-28-0	D3
Zinc	<b>256</b>	mg/kg	5.8	2.5	5	12/06/18 14:26	12/11/18 11:38	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.070</b>	mg/kg	0.022	0.0090	1	12/06/18 14:27	12/12/18 16:56	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>21.0</b>	%	0.10	0.10	1		12/11/18 15:27		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;3.4</b>	ug/kg	63.1	3.4	5	12/06/18 10:37	12/12/18 15:55	90-12-0	
2-Methylnaphthalene	<b>&lt;3.2</b>	ug/kg	63.1	3.2	5	12/06/18 10:37	12/12/18 15:55	91-57-6	
Acenaphthene	<b>56.1J</b>	ug/kg	63.1	2.6	5	12/06/18 10:37	12/12/18 15:55	83-32-9	
Acenaphthylene	<b>&lt;3.1</b>	ug/kg	63.1	3.1	5	12/06/18 10:37	12/12/18 15:55	208-96-8	
Anthracene	<b>358</b>	ug/kg	63.1	3.0	5	12/06/18 10:37	12/12/18 15:55	120-12-7	
Benzo(a)anthracene	<b>578</b>	ug/kg	63.1	6.8	5	12/06/18 10:37	12/12/18 15:55	56-55-3	
Benzo(a)pyrene	<b>378</b>	ug/kg	63.1	4.3	5	12/06/18 10:37	12/12/18 15:55	50-32-8	
Benzo(b)fluoranthene	<b>522</b>	ug/kg	63.1	2.4	5	12/06/18 10:37	12/12/18 15:55	205-99-2	
Benzo(g,h,i)perylene	<b>221</b>	ug/kg	63.1	4.0	5	12/06/18 10:37	12/12/18 15:55	191-24-2	
Benzo(k)fluoranthene	<b>224</b>	ug/kg	63.1	5.3	5	12/06/18 10:37	12/12/18 15:55	207-08-9	
Chrysene	<b>553</b>	ug/kg	63.1	8.6	5	12/06/18 10:37	12/12/18 15:55	218-01-9	
Dibenz(a,h)anthracene	<b>61.3J</b>	ug/kg	63.1	2.9	5	12/06/18 10:37	12/12/18 15:55	53-70-3	
Fluoranthene	<b>1480</b>	ug/kg	63.1	2.7	5	12/06/18 10:37	12/12/18 15:55	206-44-0	
Fluorene	<b>54.9J</b>	ug/kg	63.1	2.0	5	12/06/18 10:37	12/12/18 15:55	86-73-7	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-16 (0.0-2.0)**      **Lab ID: 10457092031**      Collected: 11/28/18 09:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Indeno(1,2,3-cd)pyrene	208	ug/kg	63.1	4.2	5	12/06/18 10:37	12/12/18 15:55	193-39-5	
Naphthalene	<4.9	ug/kg	63.1	4.9	5	12/06/18 10:37	12/12/18 15:55	91-20-3	
Phenanthrene	1080	ug/kg	63.1	12.1	5	12/06/18 10:37	12/12/18 15:55	85-01-8	
Pyrene	1260	ug/kg	63.1	9.7	5	12/06/18 10:37	12/12/18 15:55	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	42-125		5	12/06/18 10:37	12/12/18 15:55	321-60-8	D3
p-Terphenyl-d14 (S)	60	%	57-125		5	12/06/18 10:37	12/12/18 15:55	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	02/27/19 09:34	02/27/19 20:15	106-93-4	
Methylene Chloride	<4.6	ug/kg	24.9	4.6	1	02/27/19 09:34	02/27/19 20:15	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	75-125		1	02/27/19 09:34	02/27/19 20:15	17060-07-0	5M, H3
Toluene-d8 (S)	87	%	75-125		1	02/27/19 09:34	02/27/19 20:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	02/27/19 09:34	02/27/19 20:15	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.7	ug/kg	82.0	25.7	1	12/11/18 11:58	12/12/18 00:53	630-20-6	
1,1,1-Trichloroethane	<38.2	ug/kg	82.0	38.2	1	12/11/18 11:58	12/12/18 00:53	71-55-6	
1,1,1,2-Tetrachloroethane	<14.4	ug/kg	82.0	14.4	1	12/11/18 11:58	12/12/18 00:53	79-34-5	
1,1,2-Trichloroethane	<9.8	ug/kg	82.0	9.8	1	12/11/18 11:58	12/12/18 00:53	79-00-5	
1,1,2-Trichlorotrifluoroethane	<95.1	ug/kg	328	95.1	1	12/11/18 11:58	12/12/18 00:53	76-13-1	
1,1-Dichloroethane	<9.2	ug/kg	82.0	9.2	1	12/11/18 11:58	12/12/18 00:53	75-34-3	
1,1-Dichloroethene	<24.6	ug/kg	82.0	24.6	1	12/11/18 11:58	12/12/18 00:53	75-35-4	
1,1-Dichloropropene	<37.9	ug/kg	82.0	37.9	1	12/11/18 11:58	12/12/18 00:53	563-58-6	
1,2,3-Trichlorobenzene	<13.1	ug/kg	82.0	13.1	1	12/11/18 11:58	12/12/18 00:53	87-61-6	
1,2,3-Trichloropropane	<21.5	ug/kg	328	21.5	1	12/11/18 11:58	12/12/18 00:53	96-18-4	
1,2,4-Trichlorobenzene	<18.2	ug/kg	82.0	18.2	1	12/11/18 11:58	12/12/18 00:53	120-82-1	
1,2,4-Trimethylbenzene	<16.4	ug/kg	82.0	16.4	1	12/11/18 11:58	12/12/18 00:53	95-63-6	
1,2-Dibromo-3-chloropropane	<285	ug/kg	820	285	1	12/11/18 11:58	12/12/18 00:53	96-12-8	
1,2-Dibromoethane (EDB)	<8.6	ug/kg	82.0	8.6	1	12/11/18 11:58	12/12/18 00:53	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	82.0	3.3	1	12/11/18 11:58	12/12/18 00:53	95-50-1	
1,2-Dichloroethane	<9.0	ug/kg	82.0	9.0	1	12/11/18 11:58	12/12/18 00:53	107-06-2	
1,2-Dichloropropane	<14.1	ug/kg	82.0	14.1	1	12/11/18 11:58	12/12/18 00:53	78-87-5	
1,3,5-Trimethylbenzene	<13.1	ug/kg	82.0	13.1	1	12/11/18 11:58	12/12/18 00:53	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	82.0	3.0	1	12/11/18 11:58	12/12/18 00:53	541-73-1	
1,3-Dichloropropane	<11.3	ug/kg	82.0	11.3	1	12/11/18 11:58	12/12/18 00:53	142-28-9	
1,4-Dichlorobenzene	<5.1	ug/kg	82.0	5.1	1	12/11/18 11:58	12/12/18 00:53	106-46-7	
2,2-Dichloropropane	<10.2	ug/kg	328	10.2	1	12/11/18 11:58	12/12/18 00:53	594-20-7	
2-Butanone (MEK)	<43.6	ug/kg	410	43.6	1	12/11/18 11:58	12/12/18 00:53	78-93-3	
2-Chlorotoluene	<4.0	ug/kg	82.0	4.0	1	12/11/18 11:58	12/12/18 00:53	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	82.0	4.2	1	12/11/18 11:58	12/12/18 00:53	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.1	ug/kg	410	17.1	1	12/11/18 11:58	12/12/18 00:53	108-10-1	
Acetone	<510	ug/kg	1640	510	1	12/11/18 11:58	12/12/18 00:53	67-64-1	
Allyl chloride	<68.7	ug/kg	328	68.7	1	12/11/18 11:58	12/12/18 00:53	107-05-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-16 (0.0-2.0)**      **Lab ID: 10457092031**      Collected: 11/28/18 09:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Benzene	<b>5.1J</b>	ug/kg	32.8	4.6	1	12/11/18 11:58	12/12/18 00:53	71-43-2	B
Bromobenzene	<b>&lt;5.0</b>	ug/kg	82.0	5.0	1	12/11/18 11:58	12/12/18 00:53	108-86-1	
Bromochloromethane	<b>&lt;28.4</b>	ug/kg	82.0	28.4	1	12/11/18 11:58	12/12/18 00:53	74-97-5	
Bromodichloromethane	<b>&lt;28.0</b>	ug/kg	82.0	28.0	1	12/11/18 11:58	12/12/18 00:53	75-27-4	
Bromoform	<b>&lt;124</b>	ug/kg	328	124	1	12/11/18 11:58	12/12/18 00:53	75-25-2	
Bromomethane	<b>&lt;95.9</b>	ug/kg	820	95.9	1	12/11/18 11:58	12/12/18 00:53	74-83-9	
Carbon tetrachloride	<b>&lt;39.2</b>	ug/kg	328	39.2	1	12/11/18 11:58	12/12/18 00:53	56-23-5	
Chlorobenzene	<b>&lt;4.6</b>	ug/kg	82.0	4.6	1	12/11/18 11:58	12/12/18 00:53	108-90-7	
Chloroethane	<b>&lt;42.6</b>	ug/kg	820	42.6	1	12/11/18 11:58	12/12/18 00:53	75-00-3	
Chloroform	<b>&lt;41.0</b>	ug/kg	82.0	41.0	1	12/11/18 11:58	12/12/18 00:53	67-66-3	
Chloromethane	<b>&lt;19.7</b>	ug/kg	328	19.7	1	12/11/18 11:58	12/12/18 00:53	74-87-3	
Dibromochloromethane	<b>&lt;9.5</b>	ug/kg	328	9.5	1	12/11/18 11:58	12/12/18 00:53	124-48-1	
Dibromomethane	<b>&lt;15.0</b>	ug/kg	82.0	15.0	1	12/11/18 11:58	12/12/18 00:53	74-95-3	
Dichlorodifluoromethane	<b>&lt;26.6</b>	ug/kg	328	26.6	1	12/11/18 11:58	12/12/18 00:53	75-71-8	
Dichlorofluoromethane	<b>&lt;113</b>	ug/kg	820	113	1	12/11/18 11:58	12/12/18 00:53	75-43-4	N2
Diethyl ether (Ethyl ether)	<b>&lt;50.2</b>	ug/kg	328	50.2	1	12/11/18 11:58	12/12/18 00:53	60-29-7	
Ethylbenzene	<b>&lt;4.5</b>	ug/kg	82.0	4.5	1	12/11/18 11:58	12/12/18 00:53	100-41-4	
Hexachloro-1,3-butadiene	<b>&lt;20.0</b>	ug/kg	410	20.0	1	12/11/18 11:58	12/12/18 00:53	87-68-3	
Isopropylbenzene (Cumene)	<b>&lt;3.6</b>	ug/kg	82.0	3.6	1	12/11/18 11:58	12/12/18 00:53	98-82-8	
Methyl-tert-butyl ether	<b>&lt;9.8</b>	ug/kg	82.0	9.8	1	12/11/18 11:58	12/12/18 00:53	1634-04-4	
Methylene Chloride	<b>&lt;154</b>	ug/kg	328	154	1	12/11/18 11:58	12/12/18 00:53	75-09-2	
Naphthalene	<b>&lt;76.7</b>	ug/kg	328	76.7	1	12/11/18 11:58	12/12/18 00:53	91-20-3	
Styrene	<b>&lt;3.7</b>	ug/kg	82.0	3.7	1	12/11/18 11:58	12/12/18 00:53	100-42-5	
Tetrachloroethene	<b>&lt;28.9</b>	ug/kg	82.0	28.9	1	12/11/18 11:58	12/12/18 00:53	127-18-4	
Tetrahydrofuran	<b>&lt;119</b>	ug/kg	3280	119	1	12/11/18 11:58	12/12/18 00:53	109-99-9	
Toluene	<b>&lt;20.0</b>	ug/kg	82.0	20.0	1	12/11/18 11:58	12/12/18 00:53	108-88-3	
Trichloroethene	<b>&lt;12.6</b>	ug/kg	82.0	12.6	1	12/11/18 11:58	12/12/18 00:53	79-01-6	
Trichlorofluoromethane	<b>&lt;143</b>	ug/kg	328	143	1	12/11/18 11:58	12/12/18 00:53	75-69-4	
Vinyl chloride	<b>&lt;16.1</b>	ug/kg	32.8	16.1	1	12/11/18 11:58	12/12/18 00:53	75-01-4	
Xylene (Total)	<b>&lt;19.0</b>	ug/kg	246	19.0	1	12/11/18 11:58	12/12/18 00:53	1330-20-7	
cis-1,2-Dichloroethene	<b>&lt;13.6</b>	ug/kg	82.0	13.6	1	12/11/18 11:58	12/12/18 00:53	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;11.7</b>	ug/kg	82.0	11.7	1	12/11/18 11:58	12/12/18 00:53	10061-01-5	
n-Butylbenzene	<b>&lt;39.0</b>	ug/kg	82.0	39.0	1	12/11/18 11:58	12/12/18 00:53	104-51-8	
n-Propylbenzene	<b>&lt;4.4</b>	ug/kg	82.0	4.4	1	12/11/18 11:58	12/12/18 00:53	103-65-1	
p-Isopropyltoluene	<b>&lt;24.9</b>	ug/kg	82.0	24.9	1	12/11/18 11:58	12/12/18 00:53	99-87-6	
sec-Butylbenzene	<b>&lt;15.7</b>	ug/kg	82.0	15.7	1	12/11/18 11:58	12/12/18 00:53	135-98-8	
tert-Butylbenzene	<b>&lt;15.7</b>	ug/kg	82.0	15.7	1	12/11/18 11:58	12/12/18 00:53	98-06-6	
trans-1,2-Dichloroethene	<b>&lt;38.4</b>	ug/kg	82.0	38.4	1	12/11/18 11:58	12/12/18 00:53	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;11.4</b>	ug/kg	82.0	11.4	1	12/11/18 11:58	12/12/18 00:53	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/11/18 11:58	12/12/18 00:53	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 11:58	12/12/18 00:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 11:58	12/12/18 00:53	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-16 (3.0-5.0) Lab ID: 10457092032** Collected: 11/28/18 09:35 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.6	ug/kg	45.2	12.6	1	12/03/18 16:53	12/11/18 15:05	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.9	ug/kg	45.2	15.9	1	12/03/18 16:53	12/11/18 15:05	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.1	ug/kg	45.2	18.1	1	12/03/18 16:53	12/11/18 15:05	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.4	ug/kg	45.2	15.4	1	12/03/18 16:53	12/11/18 15:05	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.6	ug/kg	45.2	13.6	1	12/03/18 16:53	12/11/18 15:05	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.3	ug/kg	45.2	13.3	1	12/03/18 16:53	12/11/18 15:05	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.8	ug/kg	45.2	10.8	1	12/03/18 16:53	12/11/18 15:05	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	48-125		1	12/03/18 16:53	12/11/18 15:05	877-09-8	
Decachlorobiphenyl (S)	67	%	30-134		1	12/03/18 16:53	12/11/18 15:05	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.3	mg/kg	20.4	3.3	1	12/03/18 14:05	12/12/18 22:51	68334-30-5	
Motor Oil Range	<5.9	mg/kg	13.6	5.9	1	12/03/18 14:05	12/12/18 22:51		
<b>Surrogates</b>									
n-Triacontane (S)	99	%	50-150		1	12/03/18 14:05	12/12/18 22:51	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/03/18 14:05	12/12/18 22:51	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	9.0	1.2	1	12/11/18 14:06	12/12/18 18:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/11/18 14:06	12/12/18 18:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.6	mg/kg	6.9	2.6	5	12/06/18 14:26	12/11/18 11:40	7440-36-0	D3
Arsenic	2.2J	mg/kg	6.9	1.4	5	12/06/18 14:26	12/11/18 11:40	7440-38-2	D3
Beryllium	<0.092	mg/kg	1.7	0.092	5	12/06/18 14:26	12/11/18 11:40	7440-41-7	D3
Cadmium	0.22J	mg/kg	1.0	0.14	5	12/06/18 14:26	12/11/18 11:40	7440-43-9	D3
Chromium	7.6	mg/kg	3.4	0.59	5	12/06/18 14:26	12/11/18 11:40	7440-47-3	
Copper	14.9	mg/kg	3.4	0.38	5	12/06/18 14:26	12/11/18 11:40	7440-50-8	
Lead	4.0	mg/kg	3.4	0.77	5	12/06/18 14:26	12/11/18 11:40	7439-92-1	
Nickel	7.2	mg/kg	6.9	0.43	5	12/06/18 14:26	12/11/18 11:40	7440-02-0	
Selenium	<2.2	mg/kg	6.9	2.2	5	12/06/18 14:26	12/11/18 11:40	7782-49-2	D3
Silver	<0.25	mg/kg	3.4	0.25	5	12/06/18 14:26	12/11/18 11:40	7440-22-4	D3
Thallium	4.0J	mg/kg	6.9	1.6	5	12/06/18 14:26	12/11/18 11:40	7440-28-0	D3
Zinc	48.9	mg/kg	6.9	3.0	5	12/06/18 14:26	12/11/18 11:40	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.010	mg/kg	0.026	0.010	1	12/06/18 14:27	12/12/18 16:58	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	27.1	%	0.10	0.10	1		12/11/18 16:04		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.73	ug/kg	13.7	0.73	1	12/06/18 10:37	12/12/18 16:16	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-16 (3.0-5.0) Lab ID: 10457092032** Collected: 11/28/18 09:35 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
2-Methylnaphthalene	<0.69	ug/kg	13.7	0.69	1	12/06/18 10:37	12/12/18 16:16	91-57-6	
Acenaphthene	<0.56	ug/kg	13.7	0.56	1	12/06/18 10:37	12/12/18 16:16	83-32-9	
Acenaphthylene	<0.68	ug/kg	13.7	0.68	1	12/06/18 10:37	12/12/18 16:16	208-96-8	
Anthracene	<0.64	ug/kg	13.7	0.64	1	12/06/18 10:37	12/12/18 16:16	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	13.7	1.5	1	12/06/18 10:37	12/12/18 16:16	56-55-3	
Benzo(a)pyrene	<0.94	ug/kg	13.7	0.94	1	12/06/18 10:37	12/12/18 16:16	50-32-8	
Benzo(b)fluoranthene	<0.51	ug/kg	13.7	0.51	1	12/06/18 10:37	12/12/18 16:16	205-99-2	
Benzo(g,h,i)perylene	<0.87	ug/kg	13.7	0.87	1	12/06/18 10:37	12/12/18 16:16	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	13.7	1.2	1	12/06/18 10:37	12/12/18 16:16	207-08-9	
Chrysene	<1.9	ug/kg	13.7	1.9	1	12/06/18 10:37	12/12/18 16:16	218-01-9	
Dibenz(a,h)anthracene	<0.63	ug/kg	13.7	0.63	1	12/06/18 10:37	12/12/18 16:16	53-70-3	
Fluoranthene	<0.59	ug/kg	13.7	0.59	1	12/06/18 10:37	12/12/18 16:16	206-44-0	
Fluorene	<0.43	ug/kg	13.7	0.43	1	12/06/18 10:37	12/12/18 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.92	ug/kg	13.7	0.92	1	12/06/18 10:37	12/12/18 16:16	193-39-5	
Naphthalene	<1.1	ug/kg	13.7	1.1	1	12/06/18 10:37	12/12/18 16:16	91-20-3	
Phenanthrene	<2.6	ug/kg	13.7	2.6	1	12/06/18 10:37	12/12/18 16:16	85-01-8	
Pyrene	<2.1	ug/kg	13.7	2.1	1	12/06/18 10:37	12/12/18 16:16	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	42-125		1	12/06/18 10:37	12/12/18 16:16	321-60-8	
p-Terphenyl-d14 (S)	68	%	57-125		1	12/06/18 10:37	12/12/18 16:16	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.3	0.30	1	02/27/19 09:34	02/27/19 20:34	106-93-4	
Methylene Chloride	<4.8	ug/kg	26.3	4.8	1	02/27/19 09:34	02/27/19 20:34	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	75-125		1	02/27/19 09:34	02/27/19 20:34	17060-07-0	4M, H3
Toluene-d8 (S)	88	%	75-125		1	02/27/19 09:34	02/27/19 20:34	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	02/27/19 09:34	02/27/19 20:34	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<26.9	ug/kg	85.7	26.9	1	12/11/18 11:58	12/12/18 01:11	630-20-6	
1,1,1-Trichloroethane	<39.9	ug/kg	85.7	39.9	1	12/11/18 11:58	12/12/18 01:11	71-55-6	
1,1,2,2-Tetrachloroethane	<15.1	ug/kg	85.7	15.1	1	12/11/18 11:58	12/12/18 01:11	79-34-5	
1,1,2-Trichloroethane	<10.3	ug/kg	85.7	10.3	1	12/11/18 11:58	12/12/18 01:11	79-00-5	
1,1,2-Trichlorotrifluoroethane	<99.4	ug/kg	343	99.4	1	12/11/18 11:58	12/12/18 01:11	76-13-1	
1,1-Dichloroethane	<9.6	ug/kg	85.7	9.6	1	12/11/18 11:58	12/12/18 01:11	75-34-3	
1,1-Dichloroethene	<25.7	ug/kg	85.7	25.7	1	12/11/18 11:58	12/12/18 01:11	75-35-4	
1,1-Dichloropropene	<39.6	ug/kg	85.7	39.6	1	12/11/18 11:58	12/12/18 01:11	563-58-6	
1,2,3-Trichlorobenzene	<13.7	ug/kg	85.7	13.7	1	12/11/18 11:58	12/12/18 01:11	87-61-6	
1,2,3-Trichloropropane	<22.5	ug/kg	343	22.5	1	12/11/18 11:58	12/12/18 01:11	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/kg	85.7	19.0	1	12/11/18 11:58	12/12/18 01:11	120-82-1	
1,2,4-Trimethylbenzene	<17.1	ug/kg	85.7	17.1	1	12/11/18 11:58	12/12/18 01:11	95-63-6	
1,2-Dibromo-3-chloropropane	<298	ug/kg	857	298	1	12/11/18 11:58	12/12/18 01:11	96-12-8	
1,2-Dibromoethane (EDB)	<9.0	ug/kg	85.7	9.0	1	12/11/18 11:58	12/12/18 01:11	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/kg	85.7	3.5	1	12/11/18 11:58	12/12/18 01:11	95-50-1	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-16 (3.0-5.0)**      **Lab ID: 10457092032**      Collected: 11/28/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<9.4	ug/kg	85.7	9.4	1	12/11/18 11:58	12/12/18 01:11	107-06-2	
1,2-Dichloropropane	<14.8	ug/kg	85.7	14.8	1	12/11/18 11:58	12/12/18 01:11	78-87-5	
1,3,5-Trimethylbenzene	<13.7	ug/kg	85.7	13.7	1	12/11/18 11:58	12/12/18 01:11	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/kg	85.7	3.1	1	12/11/18 11:58	12/12/18 01:11	541-73-1	
1,3-Dichloropropane	<11.9	ug/kg	85.7	11.9	1	12/11/18 11:58	12/12/18 01:11	142-28-9	
1,4-Dichlorobenzene	<5.3	ug/kg	85.7	5.3	1	12/11/18 11:58	12/12/18 01:11	106-46-7	
2,2-Dichloropropane	<10.7	ug/kg	343	10.7	1	12/11/18 11:58	12/12/18 01:11	594-20-7	
2-Butanone (MEK)	<45.6	ug/kg	429	45.6	1	12/11/18 11:58	12/12/18 01:11	78-93-3	
2-Chlorotoluene	<4.2	ug/kg	85.7	4.2	1	12/11/18 11:58	12/12/18 01:11	95-49-8	
4-Chlorotoluene	<4.4	ug/kg	85.7	4.4	1	12/11/18 11:58	12/12/18 01:11	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.8	ug/kg	429	17.8	1	12/11/18 11:58	12/12/18 01:11	108-10-1	
Acetone	<533	ug/kg	1710	533	1	12/11/18 11:58	12/12/18 01:11	67-64-1	
Allyl chloride	<71.8	ug/kg	343	71.8	1	12/11/18 11:58	12/12/18 01:11	107-05-1	
Benzene	12.6J	ug/kg	34.3	4.8	1	12/11/18 11:58	12/12/18 01:11	71-43-2	B
Bromobenzene	<5.3	ug/kg	85.7	5.3	1	12/11/18 11:58	12/12/18 01:11	108-86-1	
Bromochloromethane	<29.7	ug/kg	85.7	29.7	1	12/11/18 11:58	12/12/18 01:11	74-97-5	
Bromodichloromethane	<29.3	ug/kg	85.7	29.3	1	12/11/18 11:58	12/12/18 01:11	75-27-4	
Bromoform	<130	ug/kg	343	130	1	12/11/18 11:58	12/12/18 01:11	75-25-2	
Bromomethane	<100	ug/kg	857	100	1	12/11/18 11:58	12/12/18 01:11	74-83-9	
Carbon tetrachloride	<41.0	ug/kg	343	41.0	1	12/11/18 11:58	12/12/18 01:11	56-23-5	
Chlorobenzene	<4.8	ug/kg	85.7	4.8	1	12/11/18 11:58	12/12/18 01:11	108-90-7	
Chloroethane	<44.6	ug/kg	857	44.6	1	12/11/18 11:58	12/12/18 01:11	75-00-3	
Chloroform	<42.9	ug/kg	85.7	42.9	1	12/11/18 11:58	12/12/18 01:11	67-66-3	
Chloromethane	<20.6	ug/kg	343	20.6	1	12/11/18 11:58	12/12/18 01:11	74-87-3	
Dibromochloromethane	<9.9	ug/kg	343	9.9	1	12/11/18 11:58	12/12/18 01:11	124-48-1	
Dibromomethane	<15.7	ug/kg	85.7	15.7	1	12/11/18 11:58	12/12/18 01:11	74-95-3	
Dichlorodifluoromethane	<27.8	ug/kg	343	27.8	1	12/11/18 11:58	12/12/18 01:11	75-71-8	
Dichlorofluoromethane	<118	ug/kg	857	118	1	12/11/18 11:58	12/12/18 01:11	75-43-4	N2
Diethyl ether (Ethyl ether)	<52.5	ug/kg	343	52.5	1	12/11/18 11:58	12/12/18 01:11	60-29-7	
Ethylbenzene	<4.7	ug/kg	85.7	4.7	1	12/11/18 11:58	12/12/18 01:11	100-41-4	
Hexachloro-1,3-butadiene	<20.9	ug/kg	429	20.9	1	12/11/18 11:58	12/12/18 01:11	87-68-3	
Isopropylbenzene (Cumene)	<3.8	ug/kg	85.7	3.8	1	12/11/18 11:58	12/12/18 01:11	98-82-8	
Methyl-tert-butyl ether	<10.2	ug/kg	85.7	10.2	1	12/11/18 11:58	12/12/18 01:11	1634-04-4	
Methylene Chloride	<161	ug/kg	343	161	1	12/11/18 11:58	12/12/18 01:11	75-09-2	
Naphthalene	<80.2	ug/kg	343	80.2	1	12/11/18 11:58	12/12/18 01:11	91-20-3	
Styrene	<3.9	ug/kg	85.7	3.9	1	12/11/18 11:58	12/12/18 01:11	100-42-5	
Tetrachloroethene	<30.2	ug/kg	85.7	30.2	1	12/11/18 11:58	12/12/18 01:11	127-18-4	
Tetrahydrofuran	<125	ug/kg	3430	125	1	12/11/18 11:58	12/12/18 01:11	109-99-9	
Toluene	<20.9	ug/kg	85.7	20.9	1	12/11/18 11:58	12/12/18 01:11	108-88-3	
Trichloroethene	<13.2	ug/kg	85.7	13.2	1	12/11/18 11:58	12/12/18 01:11	79-01-6	
Trichlorofluoromethane	<149	ug/kg	343	149	1	12/11/18 11:58	12/12/18 01:11	75-69-4	
Vinyl chloride	<16.9	ug/kg	34.3	16.9	1	12/11/18 11:58	12/12/18 01:11	75-01-4	
Xylene (Total)	<19.9	ug/kg	257	19.9	1	12/11/18 11:58	12/12/18 01:11	1330-20-7	
cis-1,2-Dichloroethene	<14.2	ug/kg	85.7	14.2	1	12/11/18 11:58	12/12/18 01:11	156-59-2	
cis-1,3-Dichloropropene	<12.3	ug/kg	85.7	12.3	1	12/11/18 11:58	12/12/18 01:11	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-16 (3.0-5.0)**      **Lab ID: 10457092032**      Collected: 11/28/18 09:35      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<40.8	ug/kg	85.7	40.8	1	12/11/18 11:58	12/12/18 01:11	104-51-8	
n-Propylbenzene	<4.6	ug/kg	85.7	4.6	1	12/11/18 11:58	12/12/18 01:11	103-65-1	
p-Isopropyltoluene	<26.1	ug/kg	85.7	26.1	1	12/11/18 11:58	12/12/18 01:11	99-87-6	
sec-Butylbenzene	<16.4	ug/kg	85.7	16.4	1	12/11/18 11:58	12/12/18 01:11	135-98-8	
tert-Butylbenzene	<16.5	ug/kg	85.7	16.5	1	12/11/18 11:58	12/12/18 01:11	98-06-6	
trans-1,2-Dichloroethene	<40.1	ug/kg	85.7	40.1	1	12/11/18 11:58	12/12/18 01:11	156-60-5	
trans-1,3-Dichloropropene	<11.9	ug/kg	85.7	11.9	1	12/11/18 11:58	12/12/18 01:11	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1	12/11/18 11:58	12/12/18 01:11	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 11:58	12/12/18 01:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 11:58	12/12/18 01:11	460-00-4	

**Sample: DP-17 (0.0-2.0)**      **Lab ID: 10457092033**      Collected: 11/28/18 10:05      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.8	ug/kg	42.2	11.8	1	12/03/18 16:53	12/11/18 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.9	ug/kg	42.2	14.9	1	12/03/18 16:53	12/11/18 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.9	ug/kg	42.2	16.9	1	12/03/18 16:53	12/11/18 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.3	ug/kg	42.2	14.3	1	12/03/18 16:53	12/11/18 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.7	ug/kg	42.2	12.7	1	12/03/18 16:53	12/11/18 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.4	ug/kg	42.2	12.4	1	12/03/18 16:53	12/11/18 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.1	ug/kg	42.2	10.1	1	12/03/18 16:53	12/11/18 15:35	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/03/18 16:53	12/11/18 15:35	877-09-8	
Decachlorobiphenyl (S)	65	%	30-134		1	12/03/18 16:53	12/11/18 15:35	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.3	3.1	1	12/03/18 14:05	12/12/18 23:02	68334-30-5	
Motor Oil Range	<5.6	mg/kg	12.8	5.6	1	12/03/18 14:05	12/12/18 23:02		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 23:02	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	12/03/18 14:05	12/12/18 23:02	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.93	mg/kg	7.1	0.93	1	12/11/18 14:06	12/12/18 18:28		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/11/18 14:06	12/12/18 18:28	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.1	2.3	5	12/06/18 14:26	12/11/18 11:41	7440-36-0	D3
Arsenic	1.8J	mg/kg	6.1	1.3	5	12/06/18 14:26	12/11/18 11:41	7440-38-2	D3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-17 (0.0-2.0)      Lab ID: 10457092033      Collected: 11/28/18 10:05      Received: 11/30/18 09:55      Matrix: Solid**

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Beryllium	<0.082	mg/kg	1.5	0.082	5	12/06/18 14:26	12/11/18 11:41	7440-41-7	D3
Cadmium	0.13J	mg/kg	0.92	0.12	5	12/06/18 14:26	12/11/18 11:41	7440-43-9	D3
Chromium	6.8	mg/kg	3.1	0.52	5	12/06/18 14:26	12/11/18 11:41	7440-47-3	
Copper	15.7	mg/kg	3.1	0.34	5	12/06/18 14:26	12/11/18 11:41	7440-50-8	
Lead	3.4	mg/kg	3.1	0.69	5	12/06/18 14:26	12/11/18 11:41	7439-92-1	
Nickel	7.8	mg/kg	6.1	0.38	5	12/06/18 14:26	12/11/18 11:41	7440-02-0	
Selenium	<2.0	mg/kg	6.1	2.0	5	12/06/18 14:26	12/11/18 11:41	7782-49-2	D3
Silver	<0.22	mg/kg	3.1	0.22	5	12/06/18 14:26	12/11/18 11:41	7440-22-4	D3
Thallium	3.0J	mg/kg	6.1	1.4	5	12/06/18 14:26	12/11/18 11:41	7440-28-0	D3
Zinc	47.0	mg/kg	6.1	2.7	5	12/06/18 14:26	12/11/18 11:41	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3050									
Thallium	0.097J	mg/kg	0.12	0.042	20	12/05/19 07:35	12/05/19 23:43	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0097	mg/kg	0.024	0.0097	1	12/06/18 14:27	12/12/18 17:09	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.1	%	0.10	0.10	1		12/11/18 16:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	12.8	0.69	1	12/06/18 10:37	12/12/18 16:36	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	12.8	0.65	1	12/06/18 10:37	12/12/18 16:36	91-57-6	
Acenaphthene	<0.52	ug/kg	12.8	0.52	1	12/06/18 10:37	12/12/18 16:36	83-32-9	
Acenaphthylene	<0.63	ug/kg	12.8	0.63	1	12/06/18 10:37	12/12/18 16:36	208-96-8	
Anthracene	<0.60	ug/kg	12.8	0.60	1	12/06/18 10:37	12/12/18 16:36	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	12.8	1.4	1	12/06/18 10:37	12/12/18 16:36	56-55-3	
Benzo(a)pyrene	<0.88	ug/kg	12.8	0.88	1	12/06/18 10:37	12/12/18 16:36	50-32-8	
Benzo(b)fluoranthene	<0.48	ug/kg	12.8	0.48	1	12/06/18 10:37	12/12/18 16:36	205-99-2	
Benzo(g,h,i)perylene	<0.81	ug/kg	12.8	0.81	1	12/06/18 10:37	12/12/18 16:36	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	12.8	1.1	1	12/06/18 10:37	12/12/18 16:36	207-08-9	
Chrysene	<1.7	ug/kg	12.8	1.7	1	12/06/18 10:37	12/12/18 16:36	218-01-9	
Dibenz(a,h)anthracene	<0.59	ug/kg	12.8	0.59	1	12/06/18 10:37	12/12/18 16:36	53-70-3	
Fluoranthene	<0.55	ug/kg	12.8	0.55	1	12/06/18 10:37	12/12/18 16:36	206-44-0	
Fluorene	<0.40	ug/kg	12.8	0.40	1	12/06/18 10:37	12/12/18 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.86	ug/kg	12.8	0.86	1	12/06/18 10:37	12/12/18 16:36	193-39-5	
Naphthalene	<0.99	ug/kg	12.8	0.99	1	12/06/18 10:37	12/12/18 16:36	91-20-3	
Phenanthrene	<2.5	ug/kg	12.8	2.5	1	12/06/18 10:37	12/12/18 16:36	85-01-8	
Pyrene	<2.0	ug/kg	12.8	2.0	1	12/06/18 10:37	12/12/18 16:36	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	62	%	42-125		1	12/06/18 10:37	12/12/18 16:36	321-60-8	
p-Terphenyl-d14 (S)	63	%	57-125		1	12/06/18 10:37	12/12/18 16:36	1718-51-0	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-17 (0.0-2.0)**      **Lab ID: 10457092033**      Collected: 11/28/18 10:05      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	02/27/19 09:34	02/27/19 20:53	106-93-4	
Methylene Chloride	<4.6	ug/kg	25.1	4.6	1	02/27/19 09:34	02/27/19 20:53	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	02/27/19 09:34	02/27/19 20:53	17060-07-0	5M,H3
Toluene-d8 (S)	87	%	75-125		1	02/27/19 09:34	02/27/19 20:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	02/27/19 09:34	02/27/19 20:53	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<24.3	ug/kg	77.4	24.3	1	12/11/18 11:58	12/12/18 01:29	630-20-6	
1,1,1-Trichloroethane	<36.1	ug/kg	77.4	36.1	1	12/11/18 11:58	12/12/18 01:29	71-55-6	
1,1,2,2-Tetrachloroethane	<13.6	ug/kg	77.4	13.6	1	12/11/18 11:58	12/12/18 01:29	79-34-5	
1,1,2-Trichloroethane	<9.3	ug/kg	77.4	9.3	1	12/11/18 11:58	12/12/18 01:29	79-00-5	
1,1,2-Trichlorotrifluoroethane	<89.8	ug/kg	310	89.8	1	12/11/18 11:58	12/12/18 01:29	76-13-1	
1,1-Dichloroethane	<8.7	ug/kg	77.4	8.7	1	12/11/18 11:58	12/12/18 01:29	75-34-3	
1,1-Dichloroethene	<23.2	ug/kg	77.4	23.2	1	12/11/18 11:58	12/12/18 01:29	75-35-4	
1,1-Dichloropropene	<35.8	ug/kg	77.4	35.8	1	12/11/18 11:58	12/12/18 01:29	563-58-6	
1,2,3-Trichlorobenzene	<12.4	ug/kg	77.4	12.4	1	12/11/18 11:58	12/12/18 01:29	87-61-6	
1,2,3-Trichloropropane	<20.3	ug/kg	310	20.3	1	12/11/18 11:58	12/12/18 01:29	96-18-4	
1,2,4-Trichlorobenzene	<17.2	ug/kg	77.4	17.2	1	12/11/18 11:58	12/12/18 01:29	120-82-1	
1,2,4-Trimethylbenzene	<15.5	ug/kg	77.4	15.5	1	12/11/18 11:58	12/12/18 01:29	95-63-6	
1,2-Dibromo-3-chloropropane	<269	ug/kg	774	269	1	12/11/18 11:58	12/12/18 01:29	96-12-8	
1,2-Dibromoethane (EDB)	<8.1	ug/kg	77.4	8.1	1	12/11/18 11:58	12/12/18 01:29	106-93-4	
1,2-Dichlorobenzene	<3.1	ug/kg	77.4	3.1	1	12/11/18 11:58	12/12/18 01:29	95-50-1	
1,2-Dichloroethane	<8.5	ug/kg	77.4	8.5	1	12/11/18 11:58	12/12/18 01:29	107-06-2	
1,2-Dichloropropane	<13.3	ug/kg	77.4	13.3	1	12/11/18 11:58	12/12/18 01:29	78-87-5	
1,3,5-Trimethylbenzene	<12.3	ug/kg	77.4	12.3	1	12/11/18 11:58	12/12/18 01:29	108-67-8	
1,3-Dichlorobenzene	<2.8	ug/kg	77.4	2.8	1	12/11/18 11:58	12/12/18 01:29	541-73-1	
1,3-Dichloropropane	<10.7	ug/kg	77.4	10.7	1	12/11/18 11:58	12/12/18 01:29	142-28-9	
1,4-Dichlorobenzene	<4.8	ug/kg	77.4	4.8	1	12/11/18 11:58	12/12/18 01:29	106-46-7	
2,2-Dichloropropane	<9.7	ug/kg	310	9.7	1	12/11/18 11:58	12/12/18 01:29	594-20-7	
2-Butanone (MEK)	<41.2	ug/kg	387	41.2	1	12/11/18 11:58	12/12/18 01:29	78-93-3	
2-Chlorotoluene	<3.8	ug/kg	77.4	3.8	1	12/11/18 11:58	12/12/18 01:29	95-49-8	
4-Chlorotoluene	<4.0	ug/kg	77.4	4.0	1	12/11/18 11:58	12/12/18 01:29	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.1	ug/kg	387	16.1	1	12/11/18 11:58	12/12/18 01:29	108-10-1	
Acetone	<482	ug/kg	1550	482	1	12/11/18 11:58	12/12/18 01:29	67-64-1	
Allyl chloride	<64.9	ug/kg	310	64.9	1	12/11/18 11:58	12/12/18 01:29	107-05-1	
Benzene	11.1J	ug/kg	31.0	4.4	1	12/11/18 11:58	12/12/18 01:29	71-43-2	B
Bromobenzene	<4.8	ug/kg	77.4	4.8	1	12/11/18 11:58	12/12/18 01:29	108-86-1	
Bromochloromethane	<26.8	ug/kg	77.4	26.8	1	12/11/18 11:58	12/12/18 01:29	74-97-5	
Bromodichloromethane	<26.5	ug/kg	77.4	26.5	1	12/11/18 11:58	12/12/18 01:29	75-27-4	
Bromoform	<117	ug/kg	310	117	1	12/11/18 11:58	12/12/18 01:29	75-25-2	
Bromomethane	<90.6	ug/kg	774	90.6	1	12/11/18 11:58	12/12/18 01:29	74-83-9	
Carbon tetrachloride	<37.0	ug/kg	310	37.0	1	12/11/18 11:58	12/12/18 01:29	56-23-5	
Chlorobenzene	<4.4	ug/kg	77.4	4.4	1	12/11/18 11:58	12/12/18 01:29	108-90-7	
Chloroethane	<40.3	ug/kg	774	40.3	1	12/11/18 11:58	12/12/18 01:29	75-00-3	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-17 (0.0-2.0)**      **Lab ID: 10457092033**      Collected: 11/28/18 10:05      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Chloroform	<38.7	ug/kg	77.4	38.7	1	12/11/18 11:58	12/12/18 01:29	67-66-3	
Chloromethane	<18.6	ug/kg	310	18.6	1	12/11/18 11:58	12/12/18 01:29	74-87-3	
Dibromochloromethane	<9.0	ug/kg	310	9.0	1	12/11/18 11:58	12/12/18 01:29	124-48-1	
Dibromomethane	<14.2	ug/kg	77.4	14.2	1	12/11/18 11:58	12/12/18 01:29	74-95-3	
Dichlorodifluoromethane	<25.1	ug/kg	310	25.1	1	12/11/18 11:58	12/12/18 01:29	75-71-8	
Dichlorofluoromethane	<107	ug/kg	774	107	1	12/11/18 11:58	12/12/18 01:29	75-43-4	N2
Diethyl ether (Ethyl ether)	<47.4	ug/kg	310	47.4	1	12/11/18 11:58	12/12/18 01:29	60-29-7	
Ethylbenzene	<4.2	ug/kg	77.4	4.2	1	12/11/18 11:58	12/12/18 01:29	100-41-4	
Hexachloro-1,3-butadiene	<18.9	ug/kg	387	18.9	1	12/11/18 11:58	12/12/18 01:29	87-68-3	
Isopropylbenzene (Cumene)	<3.4	ug/kg	77.4	3.4	1	12/11/18 11:58	12/12/18 01:29	98-82-8	
Methyl-tert-butyl ether	<9.2	ug/kg	77.4	9.2	1	12/11/18 11:58	12/12/18 01:29	1634-04-4	
Methylene Chloride	<146	ug/kg	310	146	1	12/11/18 11:58	12/12/18 01:29	75-09-2	
Naphthalene	<72.5	ug/kg	310	72.5	1	12/11/18 11:58	12/12/18 01:29	91-20-3	
Styrene	<3.5	ug/kg	77.4	3.5	1	12/11/18 11:58	12/12/18 01:29	100-42-5	
Tetrachloroethene	<27.3	ug/kg	77.4	27.3	1	12/11/18 11:58	12/12/18 01:29	127-18-4	
Tetrahydrofuran	<113	ug/kg	3100	113	1	12/11/18 11:58	12/12/18 01:29	109-99-9	
Toluene	<18.9	ug/kg	77.4	18.9	1	12/11/18 11:58	12/12/18 01:29	108-88-3	
Trichloroethene	<11.9	ug/kg	77.4	11.9	1	12/11/18 11:58	12/12/18 01:29	79-01-6	
Trichlorofluoromethane	<135	ug/kg	310	135	1	12/11/18 11:58	12/12/18 01:29	75-69-4	
Vinyl chloride	<15.2	ug/kg	31.0	15.2	1	12/11/18 11:58	12/12/18 01:29	75-01-4	
Xylene (Total)	<18.0	ug/kg	232	18.0	1	12/11/18 11:58	12/12/18 01:29	1330-20-7	
cis-1,2-Dichloroethene	<12.8	ug/kg	77.4	12.8	1	12/11/18 11:58	12/12/18 01:29	156-59-2	
cis-1,3-Dichloropropene	<11.1	ug/kg	77.4	11.1	1	12/11/18 11:58	12/12/18 01:29	10061-01-5	
n-Butylbenzene	<36.9	ug/kg	77.4	36.9	1	12/11/18 11:58	12/12/18 01:29	104-51-8	
n-Propylbenzene	<4.1	ug/kg	77.4	4.1	1	12/11/18 11:58	12/12/18 01:29	103-65-1	
p-Isopropyltoluene	<23.5	ug/kg	77.4	23.5	1	12/11/18 11:58	12/12/18 01:29	99-87-6	
sec-Butylbenzene	<14.8	ug/kg	77.4	14.8	1	12/11/18 11:58	12/12/18 01:29	135-98-8	
tert-Butylbenzene	<14.9	ug/kg	77.4	14.9	1	12/11/18 11:58	12/12/18 01:29	98-06-6	
trans-1,2-Dichloroethene	<36.2	ug/kg	77.4	36.2	1	12/11/18 11:58	12/12/18 01:29	156-60-5	
trans-1,3-Dichloropropene	<10.8	ug/kg	77.4	10.8	1	12/11/18 11:58	12/12/18 01:29	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/11/18 11:58	12/12/18 01:29	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 11:58	12/12/18 01:29	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1	12/11/18 11:58	12/12/18 01:29	460-00-4	

**Sample: DP-17 (3.0-5.0)**      **Lab ID: 10457092034**      Collected: 11/28/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.7	11.9	1	12/03/18 16:53	12/11/18 15:50	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.7	15.0	1	12/03/18 16:53	12/11/18 15:50	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.7	17.1	1	12/03/18 16:53	12/11/18 15:50	11141-16-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-17 (3.0-5.0)**      **Lab ID: 10457092034**      Collected: 11/28/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.7	14.5	1	12/03/18 16:53	12/11/18 15:50	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.7	12.8	1	12/03/18 16:53	12/11/18 15:50	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	42.7	12.6	1	12/03/18 16:53	12/11/18 15:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.7	10.2	1	12/03/18 16:53	12/11/18 15:50	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	48-125		1	12/03/18 16:53	12/11/18 15:50	877-09-8	
Decachlorobiphenyl (S)	77	%	30-134		1	12/03/18 16:53	12/11/18 15:50	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.4	3.1	1	12/03/18 14:05	12/12/18 23:13	68334-30-5	
Motor Oil Range	<5.6	mg/kg	12.9	5.6	1	12/03/18 14:05	12/12/18 23:13		
<b>Surrogates</b>									
n-Triacontane (S)	93	%	50-150		1	12/03/18 14:05	12/12/18 23:13	638-68-6	
o-Terphenyl (S)	91	%	50-150		1	12/03/18 14:05	12/12/18 23:13	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.92	mg/kg	7.0	0.92	1	12/11/18 14:06	12/12/18 19:01		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/11/18 14:06	12/12/18 19:01	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.4	mg/kg	6.5	2.4	5	12/06/18 14:26	12/11/18 11:43	7440-36-0	D3
Arsenic	1.7J	mg/kg	6.5	1.3	5	12/06/18 14:26	12/11/18 11:43	7440-38-2	D3
Beryllium	<0.087	mg/kg	1.6	0.087	5	12/06/18 14:26	12/11/18 11:43	7440-41-7	D3
Cadmium	0.23J	mg/kg	0.97	0.13	5	12/06/18 14:26	12/11/18 11:43	7440-43-9	D3
Chromium	9.2	mg/kg	3.2	0.56	5	12/06/18 14:26	12/11/18 11:43	7440-47-3	
Copper	23.0	mg/kg	3.2	0.36	5	12/06/18 14:26	12/11/18 11:43	7440-50-8	
Lead	5.0	mg/kg	3.2	0.73	5	12/06/18 14:26	12/11/18 11:43	7439-92-1	
Nickel	9.2	mg/kg	6.5	0.41	5	12/06/18 14:26	12/11/18 11:43	7440-02-0	
Selenium	<2.1	mg/kg	6.5	2.1	5	12/06/18 14:26	12/11/18 11:43	7782-49-2	D3
Silver	<0.24	mg/kg	3.2	0.24	5	12/06/18 14:26	12/11/18 11:43	7440-22-4	D3
Thallium	4.1J	mg/kg	6.5	1.5	5	12/06/18 14:26	12/11/18 11:43	7440-28-0	D3
Zinc	64.8	mg/kg	6.5	2.8	5	12/06/18 14:26	12/11/18 11:43	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0092	mg/kg	0.023	0.0092	1	12/06/18 14:27	12/12/18 17:11	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.9	%	0.10	0.10	1		12/11/18 16:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	13.0	0.69	1	12/06/18 10:37	12/12/18 16:57	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	13.0	0.65	1	12/06/18 10:37	12/12/18 16:57	91-57-6	
Acenaphthene	<0.53	ug/kg	13.0	0.53	1	12/06/18 10:37	12/12/18 16:57	83-32-9	
Acenaphthylene	<0.64	ug/kg	13.0	0.64	1	12/06/18 10:37	12/12/18 16:57	208-96-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-17 (3.0-5.0)**      **Lab ID: 10457092034**      Collected: 11/28/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Anthracene	<0.61	ug/kg	13.0	0.61	1	12/06/18 10:37	12/12/18 16:57	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	13.0	1.4	1	12/06/18 10:37	12/12/18 16:57	56-55-3	
Benzo(a)pyrene	<0.89	ug/kg	13.0	0.89	1	12/06/18 10:37	12/12/18 16:57	50-32-8	
Benzo(b)fluoranthene	<0.48	ug/kg	13.0	0.48	1	12/06/18 10:37	12/12/18 16:57	205-99-2	
Benzo(g,h,i)perylene	<0.82	ug/kg	13.0	0.82	1	12/06/18 10:37	12/12/18 16:57	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	13.0	1.1	1	12/06/18 10:37	12/12/18 16:57	207-08-9	
Chrysene	<1.8	ug/kg	13.0	1.8	1	12/06/18 10:37	12/12/18 16:57	218-01-9	
Dibenz(a,h)anthracene	<0.60	ug/kg	13.0	0.60	1	12/06/18 10:37	12/12/18 16:57	53-70-3	
Fluoranthene	<0.55	ug/kg	13.0	0.55	1	12/06/18 10:37	12/12/18 16:57	206-44-0	
Fluorene	<0.41	ug/kg	13.0	0.41	1	12/06/18 10:37	12/12/18 16:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.87	ug/kg	13.0	0.87	1	12/06/18 10:37	12/12/18 16:57	193-39-5	
Naphthalene	<1.0	ug/kg	13.0	1.0	1	12/06/18 10:37	12/12/18 16:57	91-20-3	
Phenanthrene	<2.5	ug/kg	13.0	2.5	1	12/06/18 10:37	12/12/18 16:57	85-01-8	
Pyrene	<2.0	ug/kg	13.0	2.0	1	12/06/18 10:37	12/12/18 16:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	42-125		1	12/06/18 10:37	12/12/18 16:57	321-60-8	
p-Terphenyl-d14 (S)	62	%	57-125		1	12/06/18 10:37	12/12/18 16:57	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/01/19 09:00	03/01/19 13:45	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.8	4.7	1	03/01/19 09:00	03/01/19 13:45	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-125		1	03/01/19 09:00	03/01/19 13:45	17060-07-0	5M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 13:45	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 13:45	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<21.1	ug/kg	67.1	21.1	1	12/11/18 11:58	12/12/18 01:47	630-20-6	
1,1,1-Trichloroethane	<31.3	ug/kg	67.1	31.3	1	12/11/18 11:58	12/12/18 01:47	71-55-6	
1,1,1,2-Tetrachloroethane	<11.8	ug/kg	67.1	11.8	1	12/11/18 11:58	12/12/18 01:47	79-34-5	
1,1,2-Trichloroethane	<8.0	ug/kg	67.1	8.0	1	12/11/18 11:58	12/12/18 01:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	<77.8	ug/kg	268	77.8	1	12/11/18 11:58	12/12/18 01:47	76-13-1	
1,1-Dichloroethane	<7.5	ug/kg	67.1	7.5	1	12/11/18 11:58	12/12/18 01:47	75-34-3	
1,1-Dichloroethene	<20.1	ug/kg	67.1	20.1	1	12/11/18 11:58	12/12/18 01:47	75-35-4	
1,1-Dichloropropene	<31.0	ug/kg	67.1	31.0	1	12/11/18 11:58	12/12/18 01:47	563-58-6	
1,2,3-Trichlorobenzene	<10.7	ug/kg	67.1	10.7	1	12/11/18 11:58	12/12/18 01:47	87-61-6	
1,2,3-Trichloropropane	<17.6	ug/kg	268	17.6	1	12/11/18 11:58	12/12/18 01:47	96-18-4	
1,2,4-Trichlorobenzene	<14.9	ug/kg	67.1	14.9	1	12/11/18 11:58	12/12/18 01:47	120-82-1	
1,2,4-Trimethylbenzene	<13.4	ug/kg	67.1	13.4	1	12/11/18 11:58	12/12/18 01:47	95-63-6	
1,2-Dibromo-3-chloropropane	<234	ug/kg	671	234	1	12/11/18 11:58	12/12/18 01:47	96-12-8	
1,2-Dibromoethane (EDB)	<7.1	ug/kg	67.1	7.1	1	12/11/18 11:58	12/12/18 01:47	106-93-4	
1,2-Dichlorobenzene	<2.7	ug/kg	67.1	2.7	1	12/11/18 11:58	12/12/18 01:47	95-50-1	
1,2-Dichloroethane	<7.4	ug/kg	67.1	7.4	1	12/11/18 11:58	12/12/18 01:47	107-06-2	
1,2-Dichloropropane	<11.6	ug/kg	67.1	11.6	1	12/11/18 11:58	12/12/18 01:47	78-87-5	
1,3,5-Trimethylbenzene	<10.7	ug/kg	67.1	10.7	1	12/11/18 11:58	12/12/18 01:47	108-67-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-17 (3.0-5.0)**      **Lab ID: 10457092034**      Collected: 11/28/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<2.4	ug/kg	67.1	2.4	1	12/11/18 11:58	12/12/18 01:47	541-73-1	
1,3-Dichloropropane	<9.3	ug/kg	67.1	9.3	1	12/11/18 11:58	12/12/18 01:47	142-28-9	
1,4-Dichlorobenzene	<4.2	ug/kg	67.1	4.2	1	12/11/18 11:58	12/12/18 01:47	106-46-7	
2,2-Dichloropropane	<8.4	ug/kg	268	8.4	1	12/11/18 11:58	12/12/18 01:47	594-20-7	
2-Butanone (MEK)	<35.7	ug/kg	336	35.7	1	12/11/18 11:58	12/12/18 01:47	78-93-3	
2-Chlorotoluene	<3.3	ug/kg	67.1	3.3	1	12/11/18 11:58	12/12/18 01:47	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	67.1	3.4	1	12/11/18 11:58	12/12/18 01:47	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.0	ug/kg	336	14.0	1	12/11/18 11:58	12/12/18 01:47	108-10-1	
Acetone	<417	ug/kg	1340	417	1	12/11/18 11:58	12/12/18 01:47	67-64-1	
Allyl chloride	<56.2	ug/kg	268	56.2	1	12/11/18 11:58	12/12/18 01:47	107-05-1	
Benzene	8.8J	ug/kg	26.8	3.8	1	12/11/18 11:58	12/12/18 01:47	71-43-2	B
Bromobenzene	<4.1	ug/kg	67.1	4.1	1	12/11/18 11:58	12/12/18 01:47	108-86-1	
Bromochloromethane	<23.2	ug/kg	67.1	23.2	1	12/11/18 11:58	12/12/18 01:47	74-97-5	
Bromodichloromethane	<23.0	ug/kg	67.1	23.0	1	12/11/18 11:58	12/12/18 01:47	75-27-4	
Bromoform	<102	ug/kg	268	102	1	12/11/18 11:58	12/12/18 01:47	75-25-2	
Bromomethane	<78.5	ug/kg	67.1	78.5	1	12/11/18 11:58	12/12/18 01:47	74-83-9	
Carbon tetrachloride	<32.1	ug/kg	268	32.1	1	12/11/18 11:58	12/12/18 01:47	56-23-5	
Chlorobenzene	<3.8	ug/kg	67.1	3.8	1	12/11/18 11:58	12/12/18 01:47	108-90-7	
Chloroethane	<34.9	ug/kg	67.1	34.9	1	12/11/18 11:58	12/12/18 01:47	75-00-3	
Chloroform	<33.6	ug/kg	67.1	33.6	1	12/11/18 11:58	12/12/18 01:47	67-66-3	
Chloromethane	<16.1	ug/kg	268	16.1	1	12/11/18 11:58	12/12/18 01:47	74-87-3	
Dibromochloromethane	<7.8	ug/kg	268	7.8	1	12/11/18 11:58	12/12/18 01:47	124-48-1	
Dibromomethane	<12.3	ug/kg	67.1	12.3	1	12/11/18 11:58	12/12/18 01:47	74-95-3	
Dichlorodifluoromethane	<21.7	ug/kg	268	21.7	1	12/11/18 11:58	12/12/18 01:47	75-71-8	
Dichlorofluoromethane	<92.7	ug/kg	67.1	92.7	1	12/11/18 11:58	12/12/18 01:47	75-43-4	N2
Diethyl ether (Ethyl ether)	<41.1	ug/kg	268	41.1	1	12/11/18 11:58	12/12/18 01:47	60-29-7	
Ethylbenzene	<3.7	ug/kg	67.1	3.7	1	12/11/18 11:58	12/12/18 01:47	100-41-4	
Hexachloro-1,3-butadiene	<16.4	ug/kg	336	16.4	1	12/11/18 11:58	12/12/18 01:47	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/kg	67.1	3.0	1	12/11/18 11:58	12/12/18 01:47	98-82-8	
Methyl-tert-butyl ether	<8.0	ug/kg	67.1	8.0	1	12/11/18 11:58	12/12/18 01:47	1634-04-4	
Methylene Chloride	<126	ug/kg	268	126	1	12/11/18 11:58	12/12/18 01:47	75-09-2	
Naphthalene	<62.8	ug/kg	268	62.8	1	12/11/18 11:58	12/12/18 01:47	91-20-3	
Styrene	<3.1	ug/kg	67.1	3.1	1	12/11/18 11:58	12/12/18 01:47	100-42-5	
Tetrachloroethene	<23.6	ug/kg	67.1	23.6	1	12/11/18 11:58	12/12/18 01:47	127-18-4	
Tetrahydrofuran	<97.6	ug/kg	2680	97.6	1	12/11/18 11:58	12/12/18 01:47	109-99-9	
Toluene	<16.4	ug/kg	67.1	16.4	1	12/11/18 11:58	12/12/18 01:47	108-88-3	
Trichloroethene	<10.3	ug/kg	67.1	10.3	1	12/11/18 11:58	12/12/18 01:47	79-01-6	
Trichlorofluoromethane	<117	ug/kg	268	117	1	12/11/18 11:58	12/12/18 01:47	75-69-4	
Vinyl chloride	<13.2	ug/kg	26.8	13.2	1	12/11/18 11:58	12/12/18 01:47	75-01-4	
Xylene (Total)	<15.6	ug/kg	201	15.6	1	12/11/18 11:58	12/12/18 01:47	1330-20-7	
cis-1,2-Dichloroethene	<11.1	ug/kg	67.1	11.1	1	12/11/18 11:58	12/12/18 01:47	156-59-2	
cis-1,3-Dichloropropene	<9.6	ug/kg	67.1	9.6	1	12/11/18 11:58	12/12/18 01:47	10061-01-5	
n-Butylbenzene	<31.9	ug/kg	67.1	31.9	1	12/11/18 11:58	12/12/18 01:47	104-51-8	
n-Propylbenzene	<3.6	ug/kg	67.1	3.6	1	12/11/18 11:58	12/12/18 01:47	103-65-1	
p-Isopropyltoluene	<20.4	ug/kg	67.1	20.4	1	12/11/18 11:58	12/12/18 01:47	99-87-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-17 (3.0-5.0)**      **Lab ID: 10457092034**      Collected: 11/28/18 10:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
sec-Butylbenzene	<12.9	ug/kg	67.1	12.9	1	12/11/18 11:58	12/12/18 01:47	135-98-8	
tert-Butylbenzene	<12.9	ug/kg	67.1	12.9	1	12/11/18 11:58	12/12/18 01:47	98-06-6	
trans-1,2-Dichloroethene	<31.4	ug/kg	67.1	31.4	1	12/11/18 11:58	12/12/18 01:47	156-60-5	
trans-1,3-Dichloropropene	<9.3	ug/kg	67.1	9.3	1	12/11/18 11:58	12/12/18 01:47	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/11/18 11:58	12/12/18 01:47	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 11:58	12/12/18 01:47	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/11/18 11:58	12/12/18 01:47	460-00-4	

**Sample: DP-18 (0.0-2.0)**      **Lab ID: 10457092035**      Collected: 11/28/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.3	ug/kg	40.6	11.3	1	12/04/18 14:03	12/06/18 05:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.3	ug/kg	40.6	14.3	1	12/04/18 14:03	12/06/18 05:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.2	ug/kg	40.6	16.2	1	12/04/18 14:03	12/06/18 05:17	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.8	ug/kg	40.6	13.8	1	12/04/18 14:03	12/06/18 05:17	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.2	ug/kg	40.6	12.2	1	12/04/18 14:03	12/06/18 05:17	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.9	ug/kg	40.6	11.9	1	12/04/18 14:03	12/06/18 05:17	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.7	ug/kg	40.6	9.7	1	12/04/18 14:03	12/06/18 05:17	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	70	%	48-125		1	12/04/18 14:03	12/06/18 05:17	877-09-8	
Decachlorobiphenyl (S)	82	%	30-134		1	12/04/18 14:03	12/06/18 05:17	2051-24-3	

**NWTPH-Dx GCS**

Analytical Method: NWTPH-Dx Preparation Method: EPA 3550

Diesel Fuel Range	<3.0	mg/kg	18.5	3.0	1	12/03/18 14:05	12/12/18 23:25	68334-30-5	
Motor Oil Range	<5.4	mg/kg	12.4	5.4	1	12/03/18 14:05	12/12/18 23:25		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 23:25	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/03/18 14:05	12/12/18 23:25	84-15-1	

**NWTPH-Gx GCV**

Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx

TPH as Gas	<0.84	mg/kg	6.4	0.84	1	12/11/18 14:06	12/12/18 19:35		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 14:06	12/12/18 19:35	98-08-8	

**6010D MET ICP**

Analytical Method: EPA 6010D Preparation Method: EPA 3050

Antimony	<2.3	mg/kg	6.2	2.3	5	12/06/18 14:26	12/11/18 11:45	7440-36-0	D3
Arsenic	1.8J	mg/kg	6.2	1.3	5	12/06/18 14:26	12/11/18 11:45	7440-38-2	D3
Beryllium	<0.083	mg/kg	1.5	0.083	5	12/06/18 14:26	12/11/18 11:45	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.93	0.12	5	12/06/18 14:26	12/11/18 11:45	7440-43-9	D3
Chromium	7.1	mg/kg	3.1	0.53	5	12/06/18 14:26	12/11/18 11:45	7440-47-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-18 (0.0-2.0)**      **Lab ID: 10457092035**      Collected: 11/28/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Copper	15.5	mg/kg	3.1	0.34	5	12/06/18 14:26	12/11/18 11:45	7440-50-8	
Lead	4.5	mg/kg	3.1	0.70	5	12/06/18 14:26	12/11/18 11:45	7439-92-1	
Nickel	6.9	mg/kg	6.2	0.39	5	12/06/18 14:26	12/11/18 11:45	7440-02-0	
Selenium	<2.0	mg/kg	6.2	2.0	5	12/06/18 14:26	12/11/18 11:45	7782-49-2	D3
Silver	<0.22	mg/kg	3.1	0.22	5	12/06/18 14:26	12/11/18 11:45	7440-22-4	D3
Thallium	3.1J	mg/kg	6.2	1.4	5	12/06/18 14:26	12/11/18 11:45	7440-28-0	D3
Zinc	52.7	mg/kg	6.2	2.7	5	12/06/18 14:26	12/11/18 11:45	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0090	mg/kg	0.022	0.0090	1	12/06/18 14:27	12/12/18 17:13	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	19.2	%	0.10	0.10	1		12/11/18 16:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.66	ug/kg	12.3	0.66	1	12/06/18 10:37	12/12/18 17:17	90-12-0	
2-Methylnaphthalene	<0.62	ug/kg	12.3	0.62	1	12/06/18 10:37	12/12/18 17:17	91-57-6	
Acenaphthene	<0.50	ug/kg	12.3	0.50	1	12/06/18 10:37	12/12/18 17:17	83-32-9	
Acenaphthylene	<0.61	ug/kg	12.3	0.61	1	12/06/18 10:37	12/12/18 17:17	208-96-8	
Anthracene	<0.58	ug/kg	12.3	0.58	1	12/06/18 10:37	12/12/18 17:17	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	12.3	1.3	1	12/06/18 10:37	12/12/18 17:17	56-55-3	
Benzo(a)pyrene	<0.84	ug/kg	12.3	0.84	1	12/06/18 10:37	12/12/18 17:17	50-32-8	
Benzo(b)fluoranthene	0.87J	ug/kg	12.3	0.46	1	12/06/18 10:37	12/12/18 17:17	205-99-2	
Benzo(g,h,i)perylene	<0.78	ug/kg	12.3	0.78	1	12/06/18 10:37	12/12/18 17:17	191-24-2	
Benzo(k)fluoranthene	<1.0	ug/kg	12.3	1.0	1	12/06/18 10:37	12/12/18 17:17	207-08-9	
Chrysene	<1.7	ug/kg	12.3	1.7	1	12/06/18 10:37	12/12/18 17:17	218-01-9	
Dibenz(a,h)anthracene	<0.57	ug/kg	12.3	0.57	1	12/06/18 10:37	12/12/18 17:17	53-70-3	
Fluoranthene	0.62J	ug/kg	12.3	0.53	1	12/06/18 10:37	12/12/18 17:17	206-44-0	
Fluorene	<0.38	ug/kg	12.3	0.38	1	12/06/18 10:37	12/12/18 17:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.82	ug/kg	12.3	0.82	1	12/06/18 10:37	12/12/18 17:17	193-39-5	
Naphthalene	<0.95	ug/kg	12.3	0.95	1	12/06/18 10:37	12/12/18 17:17	91-20-3	
Phenanthrene	<2.4	ug/kg	12.3	2.4	1	12/06/18 10:37	12/12/18 17:17	85-01-8	
Pyrene	<1.9	ug/kg	12.3	1.9	1	12/06/18 10:37	12/12/18 17:17	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	42-125		1	12/06/18 10:37	12/12/18 17:17	321-60-8	
p-Terphenyl-d14 (S)	59	%	57-125		1	12/06/18 10:37	12/12/18 17:17	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/01/19 09:00	03/01/19 14:04	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.2	4.4	1	03/01/19 09:00	03/01/19 14:04	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/01/19 09:00	03/01/19 14:04	17060-07-0	5M,H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 14:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/01/19 09:00	03/01/19 14:04	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-18 (0.0-2.0)**      **Lab ID: 10457092035**      Collected: 11/28/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<22.6	ug/kg	71.9	22.6	1	12/11/18 11:58	12/12/18 02:04	630-20-6	
1,1,1-Trichloroethane	<33.5	ug/kg	71.9	33.5	1	12/11/18 11:58	12/12/18 02:04	71-55-6	
1,1,2,2-Tetrachloroethane	<12.7	ug/kg	71.9	12.7	1	12/11/18 11:58	12/12/18 02:04	79-34-5	
1,1,2-Trichloroethane	<8.6	ug/kg	71.9	8.6	1	12/11/18 11:58	12/12/18 02:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	<83.4	ug/kg	288	83.4	1	12/11/18 11:58	12/12/18 02:04	76-13-1	
1,1-Dichloroethane	<8.1	ug/kg	71.9	8.1	1	12/11/18 11:58	12/12/18 02:04	75-34-3	
1,1-Dichloroethene	<21.6	ug/kg	71.9	21.6	1	12/11/18 11:58	12/12/18 02:04	75-35-4	
1,1-Dichloropropene	<33.2	ug/kg	71.9	33.2	1	12/11/18 11:58	12/12/18 02:04	563-58-6	
1,2,3-Trichlorobenzene	<11.5	ug/kg	71.9	11.5	1	12/11/18 11:58	12/12/18 02:04	87-61-6	
1,2,3-Trichloropropane	<18.8	ug/kg	288	18.8	1	12/11/18 11:58	12/12/18 02:04	96-18-4	
1,2,4-Trichlorobenzene	<16.0	ug/kg	71.9	16.0	1	12/11/18 11:58	12/12/18 02:04	120-82-1	
1,2,4-Trimethylbenzene	<14.4	ug/kg	71.9	14.4	1	12/11/18 11:58	12/12/18 02:04	95-63-6	
1,2-Dibromo-3-chloropropane	<250	ug/kg	719	250	1	12/11/18 11:58	12/12/18 02:04	96-12-8	
1,2-Dibromoethane (EDB)	<7.6	ug/kg	71.9	7.6	1	12/11/18 11:58	12/12/18 02:04	106-93-4	
1,2-Dichlorobenzene	<2.9	ug/kg	71.9	2.9	1	12/11/18 11:58	12/12/18 02:04	95-50-1	
1,2-Dichloroethane	<7.9	ug/kg	71.9	7.9	1	12/11/18 11:58	12/12/18 02:04	107-06-2	
1,2-Dichloropropane	<12.4	ug/kg	71.9	12.4	1	12/11/18 11:58	12/12/18 02:04	78-87-5	
1,3,5-Trimethylbenzene	<11.5	ug/kg	71.9	11.5	1	12/11/18 11:58	12/12/18 02:04	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	71.9	2.6	1	12/11/18 11:58	12/12/18 02:04	541-73-1	
1,3-Dichloropropane	<10	ug/kg	71.9	10	1	12/11/18 11:58	12/12/18 02:04	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/kg	71.9	4.5	1	12/11/18 11:58	12/12/18 02:04	106-46-7	
2,2-Dichloropropane	<9.0	ug/kg	288	9.0	1	12/11/18 11:58	12/12/18 02:04	594-20-7	
2-Butanone (MEK)	<38.3	ug/kg	360	38.3	1	12/11/18 11:58	12/12/18 02:04	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	71.9	3.5	1	12/11/18 11:58	12/12/18 02:04	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	71.9	3.7	1	12/11/18 11:58	12/12/18 02:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.0	ug/kg	360	15.0	1	12/11/18 11:58	12/12/18 02:04	108-10-1	
Acetone	<447	ug/kg	1440	447	1	12/11/18 11:58	12/12/18 02:04	67-64-1	
Allyl chloride	<60.3	ug/kg	288	60.3	1	12/11/18 11:58	12/12/18 02:04	107-05-1	
Benzene	5.7J	ug/kg	28.8	4.1	1	12/11/18 11:58	12/12/18 02:04	71-43-2	B
Bromobenzene	<4.4	ug/kg	71.9	4.4	1	12/11/18 11:58	12/12/18 02:04	108-86-1	
Bromochloromethane	<24.9	ug/kg	71.9	24.9	1	12/11/18 11:58	12/12/18 02:04	74-97-5	
Bromodichloromethane	<24.6	ug/kg	71.9	24.6	1	12/11/18 11:58	12/12/18 02:04	75-27-4	
Bromoform	<109	ug/kg	288	109	1	12/11/18 11:58	12/12/18 02:04	75-25-2	
Bromomethane	<84.1	ug/kg	719	84.1	1	12/11/18 11:58	12/12/18 02:04	74-83-9	
Carbon tetrachloride	<34.4	ug/kg	288	34.4	1	12/11/18 11:58	12/12/18 02:04	56-23-5	
Chlorobenzene	<4.1	ug/kg	71.9	4.1	1	12/11/18 11:58	12/12/18 02:04	108-90-7	
Chloroethane	<37.4	ug/kg	719	37.4	1	12/11/18 11:58	12/12/18 02:04	75-00-3	
Chloroform	<36.0	ug/kg	71.9	36.0	1	12/11/18 11:58	12/12/18 02:04	67-66-3	
Chloromethane	<17.3	ug/kg	288	17.3	1	12/11/18 11:58	12/12/18 02:04	74-87-3	
Dibromochloromethane	<8.3	ug/kg	288	8.3	1	12/11/18 11:58	12/12/18 02:04	124-48-1	
Dibromomethane	<13.2	ug/kg	71.9	13.2	1	12/11/18 11:58	12/12/18 02:04	74-95-3	
Dichlorodifluoromethane	<23.3	ug/kg	288	23.3	1	12/11/18 11:58	12/12/18 02:04	75-71-8	
Dichlorofluoromethane	<99.4	ug/kg	719	99.4	1	12/11/18 11:58	12/12/18 02:04	75-43-4	N2
Diethyl ether (Ethyl ether)	<44.0	ug/kg	288	44.0	1	12/11/18 11:58	12/12/18 02:04	60-29-7	
Ethylbenzene	<3.9	ug/kg	71.9	3.9	1	12/11/18 11:58	12/12/18 02:04	100-41-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-18 (0.0-2.0)**      **Lab ID: 10457092035**      Collected: 11/28/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Hexachloro-1,3-butadiene	<17.5	ug/kg	360	17.5	1	12/11/18 11:58	12/12/18 02:04	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	71.9	3.2	1	12/11/18 11:58	12/12/18 02:04	98-82-8	
Methyl-tert-butyl ether	<8.6	ug/kg	71.9	8.6	1	12/11/18 11:58	12/12/18 02:04	1634-04-4	
Methylene Chloride	<135	ug/kg	288	135	1	12/11/18 11:58	12/12/18 02:04	75-09-2	
Naphthalene	<67.3	ug/kg	288	67.3	1	12/11/18 11:58	12/12/18 02:04	91-20-3	
Styrene	<3.3	ug/kg	71.9	3.3	1	12/11/18 11:58	12/12/18 02:04	100-42-5	
Tetrachloroethene	<25.3	ug/kg	71.9	25.3	1	12/11/18 11:58	12/12/18 02:04	127-18-4	
Tetrahydrofuran	<105	ug/kg	2880	105	1	12/11/18 11:58	12/12/18 02:04	109-99-9	
Toluene	<17.5	ug/kg	71.9	17.5	1	12/11/18 11:58	12/12/18 02:04	108-88-3	
Trichloroethene	<11.1	ug/kg	71.9	11.1	1	12/11/18 11:58	12/12/18 02:04	79-01-6	
Trichlorofluoromethane	<125	ug/kg	288	125	1	12/11/18 11:58	12/12/18 02:04	75-69-4	
Vinyl chloride	<14.2	ug/kg	28.8	14.2	1	12/11/18 11:58	12/12/18 02:04	75-01-4	
Xylene (Total)	<16.7	ug/kg	216	16.7	1	12/11/18 11:58	12/12/18 02:04	1330-20-7	
cis-1,2-Dichloroethene	<11.9	ug/kg	71.9	11.9	1	12/11/18 11:58	12/12/18 02:04	156-59-2	
cis-1,3-Dichloropropene	<10.3	ug/kg	71.9	10.3	1	12/11/18 11:58	12/12/18 02:04	10061-01-5	
n-Butylbenzene	<34.2	ug/kg	71.9	34.2	1	12/11/18 11:58	12/12/18 02:04	104-51-8	
n-Propylbenzene	<3.8	ug/kg	71.9	3.8	1	12/11/18 11:58	12/12/18 02:04	103-65-1	
p-Isopropyltoluene	<21.9	ug/kg	71.9	21.9	1	12/11/18 11:58	12/12/18 02:04	99-87-6	
sec-Butylbenzene	<13.8	ug/kg	71.9	13.8	1	12/11/18 11:58	12/12/18 02:04	135-98-8	
tert-Butylbenzene	<13.8	ug/kg	71.9	13.8	1	12/11/18 11:58	12/12/18 02:04	98-06-6	
trans-1,2-Dichloroethene	<33.7	ug/kg	71.9	33.7	1	12/11/18 11:58	12/12/18 02:04	156-60-5	
trans-1,3-Dichloropropene	<10	ug/kg	71.9	10	1	12/11/18 11:58	12/12/18 02:04	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1	12/11/18 11:58	12/12/18 02:04	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 11:58	12/12/18 02:04	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/11/18 11:58	12/12/18 02:04	460-00-4	

**Sample: DP-18 (3.0-5.0)**      **Lab ID: 10457092036**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<12.9	ug/kg	46.3	12.9	1	12/04/18 14:03	12/06/18 05:33	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.3	ug/kg	46.3	16.3	1	12/04/18 14:03	12/06/18 05:33	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.5	ug/kg	46.3	18.5	1	12/04/18 14:03	12/06/18 05:33	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.7	ug/kg	46.3	15.7	1	12/04/18 14:03	12/06/18 05:33	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.9	ug/kg	46.3	13.9	1	12/04/18 14:03	12/06/18 05:33	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.6	ug/kg	46.3	13.6	1	12/04/18 14:03	12/06/18 05:33	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.1	ug/kg	46.3	11.1	1	12/04/18 14:03	12/06/18 05:33	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	67	%	48-125		1	12/04/18 14:03	12/06/18 05:33	877-09-8	
Decachlorobiphenyl (S)	79	%	30-134		1	12/04/18 14:03	12/06/18 05:33	2051-24-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-18 (3.0-5.0)**      **Lab ID: 10457092036**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	21.1	3.4	1	12/03/18 14:05	12/12/18 23:36	68334-30-5	
Motor Oil Range	<6.1	mg/kg	14.1	6.1	1	12/03/18 14:05	12/12/18 23:36		
<b>Surrogates</b>									
n-Triacontane (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 23:36	638-68-6	
o-Terphenyl (S)	98	%	50-150		1	12/03/18 14:05	12/12/18 23:36	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.3	1.1	1	12/11/18 14:06	12/12/18 19:52		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	100	%	50-150		1	12/11/18 14:06	12/12/18 19:52	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.5	mg/kg	6.7	2.5	5	12/06/18 14:26	12/11/18 11:57	7440-36-0	D3
Arsenic	2.2J	mg/kg	6.7	1.4	5	12/06/18 14:26	12/11/18 11:57	7440-38-2	D3
Beryllium	0.097J	mg/kg	1.7	0.090	5	12/06/18 14:26	12/11/18 11:57	7440-41-7	D3
Cadmium	0.15J	mg/kg	1.0	0.13	5	12/06/18 14:26	12/11/18 11:57	7440-43-9	D3
Chromium	7.5	mg/kg	3.4	0.58	5	12/06/18 14:26	12/11/18 11:57	7440-47-3	
Copper	20.8	mg/kg	3.4	0.37	5	12/06/18 14:26	12/11/18 11:57	7440-50-8	
Lead	3.9	mg/kg	3.4	0.76	5	12/06/18 14:26	12/11/18 11:57	7439-92-1	
Nickel	8.7	mg/kg	6.7	0.42	5	12/06/18 14:26	12/11/18 11:57	7440-02-0	
Selenium	<2.2	mg/kg	6.7	2.2	5	12/06/18 14:26	12/11/18 11:57	7782-49-2	D3
Silver	<0.24	mg/kg	3.4	0.24	5	12/06/18 14:26	12/11/18 11:57	7440-22-4	D3
Thallium	3.3J	mg/kg	6.7	1.5	5	12/06/18 14:26	12/11/18 11:57	7440-28-0	D3
Zinc	51.8	mg/kg	6.7	2.9	5	12/06/18 14:26	12/11/18 11:57	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0097	mg/kg	0.024	0.0097	1	12/06/18 14:27	12/12/18 17:16	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.1	%	0.10	0.10	1		12/11/18 16:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.75	ug/kg	14.1	0.75	1	12/06/18 10:37	12/12/18 17:38	90-12-0	
2-Methylnaphthalene	<0.71	ug/kg	14.1	0.71	1	12/06/18 10:37	12/12/18 17:38	91-57-6	
Acenaphthene	<0.58	ug/kg	14.1	0.58	1	12/06/18 10:37	12/12/18 17:38	83-32-9	
Acenaphthylene	<0.70	ug/kg	14.1	0.70	1	12/06/18 10:37	12/12/18 17:38	208-96-8	
Anthracene	<0.66	ug/kg	14.1	0.66	1	12/06/18 10:37	12/12/18 17:38	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	14.1	1.5	1	12/06/18 10:37	12/12/18 17:38	56-55-3	
Benzo(a)pyrene	<0.97	ug/kg	14.1	0.97	1	12/06/18 10:37	12/12/18 17:38	50-32-8	
Benzo(b)fluoranthene	<0.52	ug/kg	14.1	0.52	1	12/06/18 10:37	12/12/18 17:38	205-99-2	
Benzo(g,h,i)perylene	<0.89	ug/kg	14.1	0.89	1	12/06/18 10:37	12/12/18 17:38	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	14.1	1.2	1	12/06/18 10:37	12/12/18 17:38	207-08-9	
Chrysene	<1.9	ug/kg	14.1	1.9	1	12/06/18 10:37	12/12/18 17:38	218-01-9	
Dibenz(a,h)anthracene	<0.65	ug/kg	14.1	0.65	1	12/06/18 10:37	12/12/18 17:38	53-70-3	
Fluoranthene	<0.60	ug/kg	14.1	0.60	1	12/06/18 10:37	12/12/18 17:38	206-44-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-18 (3.0-5.0)**      **Lab ID: 10457092036**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Fluorene	<0.44	ug/kg	14.1	0.44	1	12/06/18 10:37	12/12/18 17:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.94	ug/kg	14.1	0.94	1	12/06/18 10:37	12/12/18 17:38	193-39-5	
Naphthalene	<1.1	ug/kg	14.1	1.1	1	12/06/18 10:37	12/12/18 17:38	91-20-3	
Phenanthrene	<2.7	ug/kg	14.1	2.7	1	12/06/18 10:37	12/12/18 17:38	85-01-8	
Pyrene	<2.2	ug/kg	14.1	2.2	1	12/06/18 10:37	12/12/18 17:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	42-125		1	12/06/18 10:37	12/12/18 17:38	321-60-8	
p-Terphenyl-d14 (S)	66	%	57-125		1	12/06/18 10:37	12/12/18 17:38	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.31	ug/kg	5.4	0.31	1	03/01/19 09:00	03/01/19 14:23	106-93-4	
Methylene Chloride	<5.0	ug/kg	27.1	5.0	1	03/01/19 09:00	03/01/19 14:23	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	03/01/19 09:00	03/01/19 14:23	17060-07-0	5M,H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 14:23	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/01/19 09:00	03/01/19 14:23	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.8	ug/kg	91.7	28.8	1	12/11/18 11:58	12/12/18 02:22	630-20-6	
1,1,1-Trichloroethane	<42.8	ug/kg	91.7	42.8	1	12/11/18 11:58	12/12/18 02:22	71-55-6	
1,1,2,2-Tetrachloroethane	<16.2	ug/kg	91.7	16.2	1	12/11/18 11:58	12/12/18 02:22	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/kg	91.7	11.0	1	12/11/18 11:58	12/12/18 02:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	<106	ug/kg	367	106	1	12/11/18 11:58	12/12/18 02:22	76-13-1	
1,1-Dichloroethane	<10.3	ug/kg	91.7	10.3	1	12/11/18 11:58	12/12/18 02:22	75-34-3	
1,1-Dichloroethene	<27.5	ug/kg	91.7	27.5	1	12/11/18 11:58	12/12/18 02:22	75-35-4	
1,1-Dichloropropene	<42.4	ug/kg	91.7	42.4	1	12/11/18 11:58	12/12/18 02:22	563-58-6	
1,2,3-Trichlorobenzene	<14.7	ug/kg	91.7	14.7	1	12/11/18 11:58	12/12/18 02:22	87-61-6	
1,2,3-Trichloropropane	<24.0	ug/kg	367	24.0	1	12/11/18 11:58	12/12/18 02:22	96-18-4	
1,2,4-Trichlorobenzene	<20.4	ug/kg	91.7	20.4	1	12/11/18 11:58	12/12/18 02:22	120-82-1	
1,2,4-Trimethylbenzene	<18.3	ug/kg	91.7	18.3	1	12/11/18 11:58	12/12/18 02:22	95-63-6	
1,2-Dibromo-3-chloropropane	<319	ug/kg	917	319	1	12/11/18 11:58	12/12/18 02:22	96-12-8	
1,2-Dibromoethane (EDB)	<9.7	ug/kg	91.7	9.7	1	12/11/18 11:58	12/12/18 02:22	106-93-4	
1,2-Dichlorobenzene	<3.7	ug/kg	91.7	3.7	1	12/11/18 11:58	12/12/18 02:22	95-50-1	
1,2-Dichloroethane	<10.1	ug/kg	91.7	10.1	1	12/11/18 11:58	12/12/18 02:22	107-06-2	
1,2-Dichloropropane	<15.8	ug/kg	91.7	15.8	1	12/11/18 11:58	12/12/18 02:22	78-87-5	
1,3,5-Trimethylbenzene	<14.6	ug/kg	91.7	14.6	1	12/11/18 11:58	12/12/18 02:22	108-67-8	
1,3-Dichlorobenzene	<3.3	ug/kg	91.7	3.3	1	12/11/18 11:58	12/12/18 02:22	541-73-1	
1,3-Dichloropropane	<12.7	ug/kg	91.7	12.7	1	12/11/18 11:58	12/12/18 02:22	142-28-9	
1,4-Dichlorobenzene	<5.7	ug/kg	91.7	5.7	1	12/11/18 11:58	12/12/18 02:22	106-46-7	
2,2-Dichloropropane	<11.5	ug/kg	367	11.5	1	12/11/18 11:58	12/12/18 02:22	594-20-7	
2-Butanone (MEK)	<48.8	ug/kg	459	48.8	1	12/11/18 11:58	12/12/18 02:22	78-93-3	
2-Chlorotoluene	<4.5	ug/kg	91.7	4.5	1	12/11/18 11:58	12/12/18 02:22	95-49-8	
4-Chlorotoluene	<4.7	ug/kg	91.7	4.7	1	12/11/18 11:58	12/12/18 02:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.1	ug/kg	459	19.1	1	12/11/18 11:58	12/12/18 02:22	108-10-1	
Acetone	<571	ug/kg	1830	571	1	12/11/18 11:58	12/12/18 02:22	67-64-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-18 (3.0-5.0)**      **Lab ID: 10457092036**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Allyl chloride	<76.9	ug/kg	367	76.9	1	12/11/18 11:58	12/12/18 02:22	107-05-1	
Benzene	6.3J	ug/kg	36.7	5.2	1	12/11/18 11:58	12/12/18 02:22	71-43-2	B
Bromobenzene	<5.6	ug/kg	91.7	5.6	1	12/11/18 11:58	12/12/18 02:22	108-86-1	
Bromochloromethane	<31.7	ug/kg	91.7	31.7	1	12/11/18 11:58	12/12/18 02:22	74-97-5	
Bromodichloromethane	<31.4	ug/kg	91.7	31.4	1	12/11/18 11:58	12/12/18 02:22	75-27-4	
Bromoform	<139	ug/kg	367	139	1	12/11/18 11:58	12/12/18 02:22	75-25-2	
Bromomethane	<107	ug/kg	917	107	1	12/11/18 11:58	12/12/18 02:22	74-83-9	
Carbon tetrachloride	<43.9	ug/kg	367	43.9	1	12/11/18 11:58	12/12/18 02:22	56-23-5	
Chlorobenzene	<5.2	ug/kg	91.7	5.2	1	12/11/18 11:58	12/12/18 02:22	108-90-7	
Chloroethane	<47.7	ug/kg	917	47.7	1	12/11/18 11:58	12/12/18 02:22	75-00-3	
Chloroform	<45.9	ug/kg	91.7	45.9	1	12/11/18 11:58	12/12/18 02:22	67-66-3	
Chloromethane	<22.0	ug/kg	367	22.0	1	12/11/18 11:58	12/12/18 02:22	74-87-3	
Dibromochloromethane	<10.6	ug/kg	367	10.6	1	12/11/18 11:58	12/12/18 02:22	124-48-1	
Dibromomethane	<16.8	ug/kg	91.7	16.8	1	12/11/18 11:58	12/12/18 02:22	74-95-3	
Dichlorodifluoromethane	<29.7	ug/kg	367	29.7	1	12/11/18 11:58	12/12/18 02:22	75-71-8	
Dichlorofluoromethane	<127	ug/kg	917	127	1	12/11/18 11:58	12/12/18 02:22	75-43-4	N2
Diethyl ether (Ethyl ether)	<56.2	ug/kg	367	56.2	1	12/11/18 11:58	12/12/18 02:22	60-29-7	
Ethylbenzene	<5.0	ug/kg	91.7	5.0	1	12/11/18 11:58	12/12/18 02:22	100-41-4	
Hexachloro-1,3-butadiene	<22.4	ug/kg	459	22.4	1	12/11/18 11:58	12/12/18 02:22	87-68-3	
Isopropylbenzene (Cumene)	<4.1	ug/kg	91.7	4.1	1	12/11/18 11:58	12/12/18 02:22	98-82-8	
Methyl-tert-butyl ether	<10.9	ug/kg	91.7	10.9	1	12/11/18 11:58	12/12/18 02:22	1634-04-4	
Methylene Chloride	<173	ug/kg	367	173	1	12/11/18 11:58	12/12/18 02:22	75-09-2	
Naphthalene	<85.9	ug/kg	367	85.9	1	12/11/18 11:58	12/12/18 02:22	91-20-3	
Styrene	<4.2	ug/kg	91.7	4.2	1	12/11/18 11:58	12/12/18 02:22	100-42-5	
Tetrachloroethene	<32.3	ug/kg	91.7	32.3	1	12/11/18 11:58	12/12/18 02:22	127-18-4	
Tetrahydrofuran	<133	ug/kg	3670	133	1	12/11/18 11:58	12/12/18 02:22	109-99-9	
Toluene	<22.4	ug/kg	91.7	22.4	1	12/11/18 11:58	12/12/18 02:22	108-88-3	
Trichloroethene	<14.1	ug/kg	91.7	14.1	1	12/11/18 11:58	12/12/18 02:22	79-01-6	
Trichlorofluoromethane	<160	ug/kg	367	160	1	12/11/18 11:58	12/12/18 02:22	75-69-4	
Vinyl chloride	<18.1	ug/kg	36.7	18.1	1	12/11/18 11:58	12/12/18 02:22	75-01-4	
Xylene (Total)	<21.3	ug/kg	275	21.3	1	12/11/18 11:58	12/12/18 02:22	1330-20-7	
cis-1,2-Dichloroethene	<15.2	ug/kg	91.7	15.2	1	12/11/18 11:58	12/12/18 02:22	156-59-2	
cis-1,3-Dichloropropene	<13.1	ug/kg	91.7	13.1	1	12/11/18 11:58	12/12/18 02:22	10061-01-5	
n-Butylbenzene	<43.7	ug/kg	91.7	43.7	1	12/11/18 11:58	12/12/18 02:22	104-51-8	
n-Propylbenzene	<4.9	ug/kg	91.7	4.9	1	12/11/18 11:58	12/12/18 02:22	103-65-1	
p-Isopropyltoluene	<27.9	ug/kg	91.7	27.9	1	12/11/18 11:58	12/12/18 02:22	99-87-6	
sec-Butylbenzene	<17.6	ug/kg	91.7	17.6	1	12/11/18 11:58	12/12/18 02:22	135-98-8	
tert-Butylbenzene	<17.6	ug/kg	91.7	17.6	1	12/11/18 11:58	12/12/18 02:22	98-06-6	
trans-1,2-Dichloroethene	<42.9	ug/kg	91.7	42.9	1	12/11/18 11:58	12/12/18 02:22	156-60-5	
trans-1,3-Dichloropropene	<12.8	ug/kg	91.7	12.8	1	12/11/18 11:58	12/12/18 02:22	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/11/18 11:58	12/12/18 02:22	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 11:58	12/12/18 02:22	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/11/18 11:58	12/12/18 02:22	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-19 (0.0-2.0)**      **Lab ID: 10457092037**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.2	11.2	1	12/04/18 14:03	12/06/18 05:48	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.2	14.1	1	12/04/18 14:03	12/06/18 05:48	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.1	ug/kg	40.2	16.1	1	12/04/18 14:03	12/06/18 05:48	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.2	13.6	1	12/04/18 14:03	12/06/18 05:48	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.1	ug/kg	40.2	12.1	1	12/04/18 14:03	12/06/18 05:48	12672-29-6	
PCB-1254 (Aroclor 1254)	69.5	ug/kg	40.2	11.8	1	12/04/18 14:03	12/06/18 05:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.2	9.6	1	12/04/18 14:03	12/06/18 05:48	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/04/18 14:03	12/06/18 05:48	877-09-8	
Decachlorobiphenyl (S)	81	%	30-134		1	12/04/18 14:03	12/06/18 05:48	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	8.3J	mg/kg	18.2	2.9	1	12/03/18 14:05	12/12/18 20:22	68334-30-5	
Motor Oil Range	40.0	mg/kg	12.1	5.3	1	12/03/18 14:05	12/12/18 20:22		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/03/18 14:05	12/12/18 20:22	638-68-6	
o-Terphenyl (S)	97	%	50-150		1	12/03/18 14:05	12/12/18 20:22	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.79	mg/kg	6.0	0.79	1	12/11/18 14:06	12/12/18 20:09		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91	%	50-150		1	12/11/18 14:06	12/12/18 20:09	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.9	2.2	5	12/06/18 14:26	12/11/18 11:59	7440-36-0	D3
Arsenic	1.8J	mg/kg	5.9	1.2	5	12/06/18 14:26	12/11/18 11:59	7440-38-2	D3
Beryllium	<0.080	mg/kg	1.5	0.080	5	12/06/18 14:26	12/11/18 11:59	7440-41-7	D3
Cadmium	1.5	mg/kg	0.89	0.12	5	12/06/18 14:26	12/11/18 11:59	7440-43-9	
Chromium	31.5	mg/kg	3.0	0.51	5	12/06/18 14:26	12/11/18 11:59	7440-47-3	
Copper	71.7	mg/kg	3.0	0.33	5	12/06/18 14:26	12/11/18 11:59	7440-50-8	
Lead	82.5	mg/kg	3.0	0.67	5	12/06/18 14:26	12/11/18 11:59	7439-92-1	
Nickel	21.3	mg/kg	5.9	0.37	5	12/06/18 14:26	12/11/18 11:59	7440-02-0	
Selenium	<1.9	mg/kg	5.9	1.9	5	12/06/18 14:26	12/11/18 11:59	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 14:26	12/11/18 11:59	7440-22-4	D3
Thallium	3.4J	mg/kg	5.9	1.4	5	12/06/18 14:26	12/11/18 11:59	7440-28-0	D3
Zinc	264	mg/kg	5.9	2.6	5	12/06/18 14:26	12/11/18 11:59	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.027	mg/kg	0.022	0.0090	1	12/06/18 14:27	12/12/18 17:18	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.3	%	0.10	0.10	1		12/11/18 16:05		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.2	0.65	1	12/06/18 10:37	12/12/18 17:58	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-19 (0.0-2.0)**      **Lab ID: 10457092037**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
2-Methylnaphthalene	<b>0.91J</b>	ug/kg	12.2	0.62	1	12/06/18 10:37	12/12/18 17:58	91-57-6	
Acenaphthene	<b>&lt;0.50</b>	ug/kg	12.2	0.50	1	12/06/18 10:37	12/12/18 17:58	83-32-9	
Acenaphthylene	<b>2.0J</b>	ug/kg	12.2	0.60	1	12/06/18 10:37	12/12/18 17:58	208-96-8	
Anthracene	<b>4.4J</b>	ug/kg	12.2	0.57	1	12/06/18 10:37	12/12/18 17:58	120-12-7	
Benzo(a)anthracene	<b>11.9J</b>	ug/kg	12.2	1.3	1	12/06/18 10:37	12/12/18 17:58	56-55-3	
Benzo(a)pyrene	<b>12.2</b>	ug/kg	12.2	0.84	1	12/06/18 10:37	12/12/18 17:58	50-32-8	
Benzo(b)fluoranthene	<b>28.2</b>	ug/kg	12.2	0.45	1	12/06/18 10:37	12/12/18 17:58	205-99-2	
Benzo(g,h,i)perylene	<b>24.3</b>	ug/kg	12.2	0.77	1	12/06/18 10:37	12/12/18 17:58	191-24-2	
Benzo(k)fluoranthene	<b>10.9J</b>	ug/kg	12.2	1.0	1	12/06/18 10:37	12/12/18 17:58	207-08-9	
Chrysene	<b>15.7</b>	ug/kg	12.2	1.7	1	12/06/18 10:37	12/12/18 17:58	218-01-9	
Dibenz(a,h)anthracene	<b>7.2J</b>	ug/kg	12.2	0.56	1	12/06/18 10:37	12/12/18 17:58	53-70-3	
Fluoranthene	<b>24.7</b>	ug/kg	12.2	0.52	1	12/06/18 10:37	12/12/18 17:58	206-44-0	
Fluorene	<b>0.80J</b>	ug/kg	12.2	0.38	1	12/06/18 10:37	12/12/18 17:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>17.7</b>	ug/kg	12.2	0.82	1	12/06/18 10:37	12/12/18 17:58	193-39-5	
Naphthalene	<b>1.2J</b>	ug/kg	12.2	0.94	1	12/06/18 10:37	12/12/18 17:58	91-20-3	
Phenanthrene	<b>11.5J</b>	ug/kg	12.2	2.3	1	12/06/18 10:37	12/12/18 17:58	85-01-8	
Pyrene	<b>22.4</b>	ug/kg	12.2	1.9	1	12/06/18 10:37	12/12/18 17:58	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	42-125		1	12/06/18 10:37	12/12/18 17:58	321-60-8	
p-Terphenyl-d14 (S)	70	%	57-125		1	12/06/18 10:37	12/12/18 17:58	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.27</b>	ug/kg	4.8	0.27	1	03/01/19 09:00	03/01/19 14:43	106-93-4	
Methylene Chloride	<b>&lt;4.4</b>	ug/kg	23.9	4.4	1	03/01/19 09:00	03/01/19 14:43	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	03/01/19 09:00	03/01/19 14:43	17060-07-0	5M, H3
Toluene-d8 (S)	101	%	75-125		1	03/01/19 09:00	03/01/19 14:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/01/19 09:00	03/01/19 14:43	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;22.2</b>	ug/kg	70.6	22.2	1	12/11/18 11:58	12/12/18 02:39	630-20-6	
1,1,1-Trichloroethane	<b>&lt;32.9</b>	ug/kg	70.6	32.9	1	12/11/18 11:58	12/12/18 02:39	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;12.4</b>	ug/kg	70.6	12.4	1	12/11/18 11:58	12/12/18 02:39	79-34-5	
1,1,2-Trichloroethane	<b>&lt;8.4</b>	ug/kg	70.6	8.4	1	12/11/18 11:58	12/12/18 02:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;81.9</b>	ug/kg	282	81.9	1	12/11/18 11:58	12/12/18 02:39	76-13-1	
1,1-Dichloroethane	<b>&lt;7.9</b>	ug/kg	70.6	7.9	1	12/11/18 11:58	12/12/18 02:39	75-34-3	
1,1-Dichloroethene	<b>&lt;21.2</b>	ug/kg	70.6	21.2	1	12/11/18 11:58	12/12/18 02:39	75-35-4	
1,1-Dichloropropene	<b>&lt;32.6</b>	ug/kg	70.6	32.6	1	12/11/18 11:58	12/12/18 02:39	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;11.3</b>	ug/kg	70.6	11.3	1	12/11/18 11:58	12/12/18 02:39	87-61-6	
1,2,3-Trichloropropane	<b>&lt;18.5</b>	ug/kg	282	18.5	1	12/11/18 11:58	12/12/18 02:39	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;15.7</b>	ug/kg	70.6	15.7	1	12/11/18 11:58	12/12/18 02:39	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;14.1</b>	ug/kg	70.6	14.1	1	12/11/18 11:58	12/12/18 02:39	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;246</b>	ug/kg	706	246	1	12/11/18 11:58	12/12/18 02:39	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;7.4</b>	ug/kg	70.6	7.4	1	12/11/18 11:58	12/12/18 02:39	106-93-4	
1,2-Dichlorobenzene	<b>&lt;2.9</b>	ug/kg	70.6	2.9	1	12/11/18 11:58	12/12/18 02:39	95-50-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-19 (0.0-2.0)**      **Lab ID: 10457092037**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<7.8	ug/kg	70.6	7.8	1	12/11/18 11:58	12/12/18 02:39	107-06-2	
1,2-Dichloropropane	<12.2	ug/kg	70.6	12.2	1	12/11/18 11:58	12/12/18 02:39	78-87-5	
1,3,5-Trimethylbenzene	<11.3	ug/kg	70.6	11.3	1	12/11/18 11:58	12/12/18 02:39	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	70.6	2.6	1	12/11/18 11:58	12/12/18 02:39	541-73-1	
1,3-Dichloropropane	<9.8	ug/kg	70.6	9.8	1	12/11/18 11:58	12/12/18 02:39	142-28-9	
1,4-Dichlorobenzene	<4.4	ug/kg	70.6	4.4	1	12/11/18 11:58	12/12/18 02:39	106-46-7	
2,2-Dichloropropane	<8.8	ug/kg	282	8.8	1	12/11/18 11:58	12/12/18 02:39	594-20-7	
2-Butanone (MEK)	<37.6	ug/kg	353	37.6	1	12/11/18 11:58	12/12/18 02:39	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	70.6	3.5	1	12/11/18 11:58	12/12/18 02:39	95-49-8	
4-Chlorotoluene	<3.6	ug/kg	70.6	3.6	1	12/11/18 11:58	12/12/18 02:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.7	ug/kg	353	14.7	1	12/11/18 11:58	12/12/18 02:39	108-10-1	
Acetone	<439	ug/kg	1410	439	1	12/11/18 11:58	12/12/18 02:39	67-64-1	
Allyl chloride	<59.2	ug/kg	282	59.2	1	12/11/18 11:58	12/12/18 02:39	107-05-1	
Benzene	8.1J	ug/kg	28.2	4.0	1	12/11/18 11:58	12/12/18 02:39	71-43-2	B
Bromobenzene	<4.3	ug/kg	70.6	4.3	1	12/11/18 11:58	12/12/18 02:39	108-86-1	
Bromochloromethane	<24.4	ug/kg	70.6	24.4	1	12/11/18 11:58	12/12/18 02:39	74-97-5	
Bromodichloromethane	<24.2	ug/kg	70.6	24.2	1	12/11/18 11:58	12/12/18 02:39	75-27-4	
Bromoform	<107	ug/kg	282	107	1	12/11/18 11:58	12/12/18 02:39	75-25-2	
Bromomethane	<82.6	ug/kg	706	82.6	1	12/11/18 11:58	12/12/18 02:39	74-83-9	
Carbon tetrachloride	<33.8	ug/kg	282	33.8	1	12/11/18 11:58	12/12/18 02:39	56-23-5	
Chlorobenzene	<4.0	ug/kg	70.6	4.0	1	12/11/18 11:58	12/12/18 02:39	108-90-7	
Chloroethane	<36.7	ug/kg	706	36.7	1	12/11/18 11:58	12/12/18 02:39	75-00-3	
Chloroform	<35.3	ug/kg	70.6	35.3	1	12/11/18 11:58	12/12/18 02:39	67-66-3	
Chloromethane	<16.9	ug/kg	282	16.9	1	12/11/18 11:58	12/12/18 02:39	74-87-3	
Dibromochloromethane	<8.2	ug/kg	282	8.2	1	12/11/18 11:58	12/12/18 02:39	124-48-1	
Dibromomethane	<13.0	ug/kg	70.6	13.0	1	12/11/18 11:58	12/12/18 02:39	74-95-3	
Dichlorodifluoromethane	<22.9	ug/kg	282	22.9	1	12/11/18 11:58	12/12/18 02:39	75-71-8	
Dichlorofluoromethane	<97.6	ug/kg	706	97.6	1	12/11/18 11:58	12/12/18 02:39	75-43-4	N2
Diethyl ether (Ethyl ether)	<43.2	ug/kg	282	43.2	1	12/11/18 11:58	12/12/18 02:39	60-29-7	
Ethylbenzene	<3.8	ug/kg	70.6	3.8	1	12/11/18 11:58	12/12/18 02:39	100-41-4	
Hexachloro-1,3-butadiene	<17.2	ug/kg	353	17.2	1	12/11/18 11:58	12/12/18 02:39	87-68-3	
Isopropylbenzene (Cumene)	<3.1	ug/kg	70.6	3.1	1	12/11/18 11:58	12/12/18 02:39	98-82-8	
Methyl-tert-butyl ether	<8.4	ug/kg	70.6	8.4	1	12/11/18 11:58	12/12/18 02:39	1634-04-4	
Methylene Chloride	<133	ug/kg	282	133	1	12/11/18 11:58	12/12/18 02:39	75-09-2	
Naphthalene	<66.1	ug/kg	282	66.1	1	12/11/18 11:58	12/12/18 02:39	91-20-3	
Styrene	<3.2	ug/kg	70.6	3.2	1	12/11/18 11:58	12/12/18 02:39	100-42-5	
Tetrachloroethene	<24.9	ug/kg	70.6	24.9	1	12/11/18 11:58	12/12/18 02:39	127-18-4	
Tetrahydrofuran	<103	ug/kg	2820	103	1	12/11/18 11:58	12/12/18 02:39	109-99-9	
Toluene	<17.2	ug/kg	70.6	17.2	1	12/11/18 11:58	12/12/18 02:39	108-88-3	
Trichloroethene	<10.9	ug/kg	70.6	10.9	1	12/11/18 11:58	12/12/18 02:39	79-01-6	
Trichlorofluoromethane	<123	ug/kg	282	123	1	12/11/18 11:58	12/12/18 02:39	75-69-4	
Vinyl chloride	<13.9	ug/kg	28.2	13.9	1	12/11/18 11:58	12/12/18 02:39	75-01-4	
Xylene (Total)	<16.4	ug/kg	212	16.4	1	12/11/18 11:58	12/12/18 02:39	1330-20-7	
cis-1,2-Dichloroethene	<11.7	ug/kg	70.6	11.7	1	12/11/18 11:58	12/12/18 02:39	156-59-2	
cis-1,3-Dichloropropene	<10.1	ug/kg	70.6	10.1	1	12/11/18 11:58	12/12/18 02:39	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-19 (0.0-2.0)**      **Lab ID: 10457092037**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<33.6	ug/kg	70.6	33.6	1	12/11/18 11:58	12/12/18 02:39	104-51-8	
n-Propylbenzene	<3.8	ug/kg	70.6	3.8	1	12/11/18 11:58	12/12/18 02:39	103-65-1	
p-Isopropyltoluene	<21.5	ug/kg	70.6	21.5	1	12/11/18 11:58	12/12/18 02:39	99-87-6	
sec-Butylbenzene	<13.5	ug/kg	70.6	13.5	1	12/11/18 11:58	12/12/18 02:39	135-98-8	
tert-Butylbenzene	<13.6	ug/kg	70.6	13.6	1	12/11/18 11:58	12/12/18 02:39	98-06-6	
trans-1,2-Dichloroethene	<33.1	ug/kg	70.6	33.1	1	12/11/18 11:58	12/12/18 02:39	156-60-5	
trans-1,3-Dichloropropene	<9.8	ug/kg	70.6	9.8	1	12/11/18 11:58	12/12/18 02:39	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	12/11/18 11:58	12/12/18 02:39	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 11:58	12/12/18 02:39	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/11/18 11:58	12/12/18 02:39	460-00-4	

**Sample: DP-19 (2.0-3.5)**      **Lab ID: 10457092038**      Collected: 11/28/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.3	11.2	1	12/04/18 14:03	12/06/18 06:04	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.3	14.1	1	12/04/18 14:03	12/06/18 06:04	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.1	ug/kg	40.3	16.1	1	12/04/18 14:03	12/06/18 06:04	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.7	ug/kg	40.3	13.7	1	12/04/18 14:03	12/06/18 06:04	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.1	ug/kg	40.3	12.1	1	12/04/18 14:03	12/06/18 06:04	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.3	11.8	1	12/04/18 14:03	12/06/18 06:04	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.3	9.6	1	12/04/18 14:03	12/06/18 06:04	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	48-125		1	12/04/18 14:03	12/06/18 06:04	877-09-8	
Decachlorobiphenyl (S)	79	%	30-134		1	12/04/18 14:03	12/06/18 06:04	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	18.1	2.9	1	12/03/18 14:05	12/12/18 23:47	68334-30-5	
Motor Oil Range	9.2J	mg/kg	12.1	5.2	1	12/03/18 14:05	12/12/18 23:47		
<b>Surrogates</b>									
n-Triacontane (S)	86	%	50-150		1	12/03/18 14:05	12/12/18 23:47	638-68-6	
o-Terphenyl (S)	88	%	50-150		1	12/03/18 14:05	12/12/18 23:47	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.93	mg/kg	7.1	0.93	1	12/11/18 14:06	12/12/18 21:00		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 14:06	12/12/18 21:00	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.9	2.2	5	12/06/18 14:26	12/11/18 12:00	7440-36-0	D3
Arsenic	2.3J	mg/kg	5.9	1.2	5	12/06/18 14:26	12/11/18 12:00	7440-38-2	D3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-19 (2.0-3.5)      Lab ID: 10457092038      Collected: 11/28/18 11:30      Received: 11/30/18 09:55      Matrix: Solid**

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Beryllium	<0.080	mg/kg	1.5	0.080	5	12/06/18 14:26	12/11/18 12:00	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.89	0.12	5	12/06/18 14:26	12/11/18 12:00	7440-43-9	D3
Chromium	7.7	mg/kg	3.0	0.51	5	12/06/18 14:26	12/11/18 12:00	7440-47-3	
Copper	23.6	mg/kg	3.0	0.33	5	12/06/18 14:26	12/11/18 12:00	7440-50-8	
Lead	26.6	mg/kg	3.0	0.67	5	12/06/18 14:26	12/11/18 12:00	7439-92-1	
Nickel	7.5	mg/kg	5.9	0.37	5	12/06/18 14:26	12/11/18 12:00	7440-02-0	
Selenium	<1.9	mg/kg	5.9	1.9	5	12/06/18 14:26	12/11/18 12:00	7782-49-2	D3
Silver	<0.22	mg/kg	3.0	0.22	5	12/06/18 14:26	12/11/18 12:00	7440-22-4	D3
Thallium	2.3J	mg/kg	5.9	1.4	5	12/06/18 14:26	12/11/18 12:00	7440-28-0	D3
Zinc	122	mg/kg	5.9	2.6	5	12/06/18 14:26	12/11/18 12:00	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.013J	mg/kg	0.024	0.0098	1	12/06/18 14:27	12/12/18 17:20	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.3	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.65	ug/kg	12.2	0.65	1	12/06/18 10:37	12/12/18 18:19	90-12-0	
2-Methylnaphthalene	<0.62	ug/kg	12.2	0.62	1	12/06/18 10:37	12/12/18 18:19	91-57-6	
Acenaphthene	0.89J	ug/kg	12.2	0.50	1	12/06/18 10:37	12/12/18 18:19	83-32-9	
Acenaphthylene	<0.60	ug/kg	12.2	0.60	1	12/06/18 10:37	12/12/18 18:19	208-96-8	
Anthracene	1.8J	ug/kg	12.2	0.57	1	12/06/18 10:37	12/12/18 18:19	120-12-7	
Benzo(a)anthracene	4.7J	ug/kg	12.2	1.3	1	12/06/18 10:37	12/12/18 18:19	56-55-3	
Benzo(a)pyrene	6.5J	ug/kg	12.2	0.84	1	12/06/18 10:37	12/12/18 18:19	50-32-8	
Benzo(b)fluoranthene	9.2J	ug/kg	12.2	0.46	1	12/06/18 10:37	12/12/18 18:19	205-99-2	
Benzo(g,h,i)perylene	6.7J	ug/kg	12.2	0.77	1	12/06/18 10:37	12/12/18 18:19	191-24-2	
Benzo(k)fluoranthene	4.4J	ug/kg	12.2	1.0	1	12/06/18 10:37	12/12/18 18:19	207-08-9	
Chrysene	6.0J	ug/kg	12.2	1.7	1	12/06/18 10:37	12/12/18 18:19	218-01-9	
Dibenz(a,h)anthracene	1.2J	ug/kg	12.2	0.56	1	12/06/18 10:37	12/12/18 18:19	53-70-3	
Fluoranthene	9.5J	ug/kg	12.2	0.52	1	12/06/18 10:37	12/12/18 18:19	206-44-0	
Fluorene	<0.38	ug/kg	12.2	0.38	1	12/06/18 10:37	12/12/18 18:19	86-73-7	
Indeno(1,2,3-cd)pyrene	5.2J	ug/kg	12.2	0.82	1	12/06/18 10:37	12/12/18 18:19	193-39-5	
Naphthalene	<0.94	ug/kg	12.2	0.94	1	12/06/18 10:37	12/12/18 18:19	91-20-3	
Phenanthrene	5.9J	ug/kg	12.2	2.3	1	12/06/18 10:37	12/12/18 18:19	85-01-8	
Pyrene	9.6J	ug/kg	12.2	1.9	1	12/06/18 10:37	12/12/18 18:19	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	42-125		1	12/06/18 10:37	12/12/18 18:19	321-60-8	H5
p-Terphenyl-d14 (S)	56	%	57-125		1	12/06/18 10:37	12/12/18 18:19	1718-51-0	S0
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/01/19 09:00	03/01/19 15:02	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.2	4.3	1	03/01/19 09:00	03/01/19 15:02	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	03/01/19 09:00	03/01/19 15:02	17060-07-0	5M,H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-19 (2.0-3.5)**      **Lab ID: 10457092038**      Collected: 11/28/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 15:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 15:02	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<23.1	ug/kg	73.7	23.1	1	12/11/18 16:21	12/12/18 02:38	630-20-6	
1,1,1-Trichloroethane	<34.3	ug/kg	73.7	34.3	1	12/11/18 16:21	12/12/18 02:38	71-55-6	
1,1,2,2-Tetrachloroethane	<13.0	ug/kg	73.7	13.0	1	12/11/18 16:21	12/12/18 02:38	79-34-5	
1,1,2-Trichloroethane	<8.8	ug/kg	73.7	8.8	1	12/11/18 16:21	12/12/18 02:38	79-00-5	
1,1,2-Trichlorotrifluoroethane	<85.5	ug/kg	295	85.5	1	12/11/18 16:21	12/12/18 02:38	76-13-1	
1,1-Dichloroethane	<8.3	ug/kg	73.7	8.3	1	12/11/18 16:21	12/12/18 02:38	75-34-3	
1,1-Dichloroethene	<22.1	ug/kg	73.7	22.1	1	12/11/18 16:21	12/12/18 02:38	75-35-4	
1,1-Dichloropropene	<34.0	ug/kg	295	34.0	1	12/11/18 16:21	12/12/18 02:38	563-58-6	
1,2,3-Trichlorobenzene	<11.8	ug/kg	73.7	11.8	1	12/11/18 16:21	12/12/18 02:38	87-61-6	
1,2,3-Trichloropropane	<19.3	ug/kg	295	19.3	1	12/11/18 16:21	12/12/18 02:38	96-18-4	
1,2,4-Trichlorobenzene	<16.4	ug/kg	73.7	16.4	1	12/11/18 16:21	12/12/18 02:38	120-82-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	73.7	14.7	1	12/11/18 16:21	12/12/18 02:38	95-63-6	
1,2-Dibromo-3-chloropropane	<256	ug/kg	737	256	1	12/11/18 16:21	12/12/18 02:38	96-12-8	
1,2-Dibromoethane (EDB)	<7.8	ug/kg	73.7	7.8	1	12/11/18 16:21	12/12/18 02:38	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	73.7	3.0	1	12/11/18 16:21	12/12/18 02:38	95-50-1	
1,2-Dichloroethane	<8.1	ug/kg	73.7	8.1	1	12/11/18 16:21	12/12/18 02:38	107-06-2	
1,2-Dichloropropane	<12.7	ug/kg	73.7	12.7	1	12/11/18 16:21	12/12/18 02:38	78-87-5	
1,3,5-Trimethylbenzene	<11.7	ug/kg	73.7	11.7	1	12/11/18 16:21	12/12/18 02:38	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	73.7	2.7	1	12/11/18 16:21	12/12/18 02:38	541-73-1	
1,3-Dichloropropane	<10.2	ug/kg	73.7	10.2	1	12/11/18 16:21	12/12/18 02:38	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	73.7	4.6	1	12/11/18 16:21	12/12/18 02:38	106-46-7	
2,2-Dichloropropane	<9.2	ug/kg	295	9.2	1	12/11/18 16:21	12/12/18 02:38	594-20-7	
2-Butanone (MEK)	<39.2	ug/kg	368	39.2	1	12/11/18 16:21	12/12/18 02:38	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	73.7	3.6	1	12/11/18 16:21	12/12/18 02:38	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	73.7	3.8	1	12/11/18 16:21	12/12/18 02:38	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.3	ug/kg	368	15.3	1	12/11/18 16:21	12/12/18 02:38	108-10-1	
Acetone	<458	ug/kg	1470	458	1	12/11/18 16:21	12/12/18 02:38	67-64-1	
Allyl chloride	<61.7	ug/kg	295	61.7	1	12/11/18 16:21	12/12/18 02:38	107-05-1	
Benzene	<4.2	ug/kg	29.5	4.2	1	12/11/18 16:21	12/12/18 02:38	71-43-2	
Bromobenzene	<4.5	ug/kg	73.7	4.5	1	12/11/18 16:21	12/12/18 02:38	108-86-1	
Bromochloromethane	<25.5	ug/kg	73.7	25.5	1	12/11/18 16:21	12/12/18 02:38	74-97-5	
Bromodichloromethane	<25.2	ug/kg	73.7	25.2	1	12/11/18 16:21	12/12/18 02:38	75-27-4	
Bromoform	<112	ug/kg	295	112	1	12/11/18 16:21	12/12/18 02:38	75-25-2	
Bromomethane	<86.2	ug/kg	737	86.2	1	12/11/18 16:21	12/12/18 02:38	74-83-9	
Carbon tetrachloride	<35.2	ug/kg	295	35.2	1	12/11/18 16:21	12/12/18 02:38	56-23-5	
Chlorobenzene	<4.2	ug/kg	73.7	4.2	1	12/11/18 16:21	12/12/18 02:38	108-90-7	
Chloroethane	<38.3	ug/kg	737	38.3	1	12/11/18 16:21	12/12/18 02:38	75-00-3	
Chloroform	<36.8	ug/kg	73.7	36.8	1	12/11/18 16:21	12/12/18 02:38	67-66-3	
Chloromethane	<17.7	ug/kg	295	17.7	1	12/11/18 16:21	12/12/18 02:38	74-87-3	
Dibromochloromethane	<8.5	ug/kg	295	8.5	1	12/11/18 16:21	12/12/18 02:38	124-48-1	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-19 (2.0-3.5)**      **Lab ID: 10457092038**      Collected: 11/28/18 11:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromomethane	<13.5	ug/kg	73.7	13.5	1	12/11/18 16:21	12/12/18 02:38	74-95-3	
Dichlorodifluoromethane	<23.9	ug/kg	295	23.9	1	12/11/18 16:21	12/12/18 02:38	75-71-8	
Dichlorofluoromethane	<102	ug/kg	737	102	1	12/11/18 16:21	12/12/18 02:38	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.1	ug/kg	295	45.1	1	12/11/18 16:21	12/12/18 02:38	60-29-7	
Ethylbenzene	<4.0	ug/kg	73.7	4.0	1	12/11/18 16:21	12/12/18 02:38	100-41-4	
Hexachloro-1,3-butadiene	<18.0	ug/kg	368	18.0	1	12/11/18 16:21	12/12/18 02:38	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	73.7	3.3	1	12/11/18 16:21	12/12/18 02:38	98-82-8	
Methyl-tert-butyl ether	<8.8	ug/kg	73.7	8.8	1	12/11/18 16:21	12/12/18 02:38	1634-04-4	
Methylene Chloride	<139	ug/kg	295	139	1	12/11/18 16:21	12/12/18 02:38	75-09-2	
Naphthalene	<69.0	ug/kg	295	69.0	1	12/11/18 16:21	12/12/18 02:38	91-20-3	
Styrene	<3.4	ug/kg	73.7	3.4	1	12/11/18 16:21	12/12/18 02:38	100-42-5	
Tetrachloroethene	<25.9	ug/kg	73.7	25.9	1	12/11/18 16:21	12/12/18 02:38	127-18-4	
Tetrahydrofuran	<107	ug/kg	2950	107	1	12/11/18 16:21	12/12/18 02:38	109-99-9	
Toluene	<18.0	ug/kg	73.7	18.0	1	12/11/18 16:21	12/12/18 02:38	108-88-3	
Trichloroethene	<11.4	ug/kg	73.7	11.4	1	12/11/18 16:21	12/12/18 02:38	79-01-6	
Trichlorofluoromethane	<129	ug/kg	295	129	1	12/11/18 16:21	12/12/18 02:38	75-69-4	
Vinyl chloride	<14.5	ug/kg	73.7	14.5	1	12/11/18 16:21	12/12/18 02:38	75-01-4	
Xylene (Total)	<17.1	ug/kg	221	17.1	1	12/11/18 16:21	12/12/18 02:38	1330-20-7	
cis-1,2-Dichloroethene	<12.2	ug/kg	73.7	12.2	1	12/11/18 16:21	12/12/18 02:38	156-59-2	
cis-1,3-Dichloropropene	<10.6	ug/kg	73.7	10.6	1	12/11/18 16:21	12/12/18 02:38	10061-01-5	
n-Butylbenzene	<35.1	ug/kg	73.7	35.1	1	12/11/18 16:21	12/12/18 02:38	104-51-8	
n-Propylbenzene	<3.9	ug/kg	73.7	3.9	1	12/11/18 16:21	12/12/18 02:38	103-65-1	
p-Isopropyltoluene	<22.4	ug/kg	73.7	22.4	1	12/11/18 16:21	12/12/18 02:38	99-87-6	
sec-Butylbenzene	<14.1	ug/kg	73.7	14.1	1	12/11/18 16:21	12/12/18 02:38	135-98-8	
tert-Butylbenzene	<14.1	ug/kg	73.7	14.1	1	12/11/18 16:21	12/12/18 02:38	98-06-6	
trans-1,2-Dichloroethene	<34.5	ug/kg	73.7	34.5	1	12/11/18 16:21	12/12/18 02:38	156-60-5	
trans-1,3-Dichloropropene	<10.2	ug/kg	73.7	10.2	1	12/11/18 16:21	12/12/18 02:38	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	12/11/18 16:21	12/12/18 02:38	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 16:21	12/12/18 02:38	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/11/18 16:21	12/12/18 02:38	460-00-4	

**Sample: DP-20 (0.0-2.0)**      **Lab ID: 10457092039**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.8	11.9	1	12/04/18 14:03	12/06/18 06:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.8	15.0	1	12/04/18 14:03	12/06/18 06:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.8	17.1	1	12/04/18 14:03	12/06/18 06:20	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.8	14.5	1	12/04/18 14:03	12/06/18 06:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.8	12.8	1	12/04/18 14:03	12/06/18 06:20	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	42.8	12.6	1	12/04/18 14:03	12/06/18 06:20	11097-69-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-20 (0.0-2.0)**      **Lab ID: 10457092039**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.8	10.2	1	12/04/18 14:03	12/06/18 06:20	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	72	%	48-125		1	12/04/18 14:03	12/06/18 06:20	877-09-8	
Decachlorobiphenyl (S)	80	%	30-134		1	12/04/18 14:03	12/06/18 06:20	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.4	3.1	1	12/03/18 14:05	12/12/18 23:59	68334-30-5	
Motor Oil Range	8.7J	mg/kg	13.0	5.6	1	12/03/18 14:05	12/12/18 23:59		
<b>Surrogates</b>									
n-Triacontane (S)	83	%	50-150		1	12/03/18 14:05	12/12/18 23:59	638-68-6	
o-Terphenyl (S)	87	%	50-150		1	12/03/18 14:05	12/12/18 23:59	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.0	mg/kg	7.7	1.0	1	12/11/18 14:06	12/12/18 21:17		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	97	%	50-150		1	12/11/18 14:06	12/12/18 21:17	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.4	mg/kg	6.4	2.4	5	12/06/18 14:26	12/11/18 12:02	7440-36-0	D3
Arsenic	2.6J	mg/kg	6.4	1.3	5	12/06/18 14:26	12/11/18 12:02	7440-38-2	D3
Beryllium	0.090J	mg/kg	1.6	0.086	5	12/06/18 14:26	12/11/18 12:02	7440-41-7	D3
Cadmium	3.0	mg/kg	0.96	0.13	5	12/06/18 14:26	12/11/18 12:02	7440-43-9	
Chromium	30.1	mg/kg	3.2	0.55	5	12/06/18 14:26	12/11/18 12:02	7440-47-3	
Copper	555	mg/kg	3.2	0.36	5	12/06/18 14:26	12/11/18 12:02	7440-50-8	
Lead	295	mg/kg	3.2	0.72	5	12/06/18 14:26	12/11/18 12:02	7439-92-1	
Nickel	20.9	mg/kg	6.4	0.40	5	12/06/18 14:26	12/11/18 12:02	7440-02-0	
Selenium	<2.1	mg/kg	6.4	2.1	5	12/06/18 14:26	12/11/18 12:02	7782-49-2	D3
Silver	<0.23	mg/kg	3.2	0.23	5	12/06/18 14:26	12/11/18 12:02	7440-22-4	D3
Thallium	2.3J	mg/kg	6.4	1.5	5	12/06/18 14:26	12/11/18 12:02	7440-28-0	D3
Zinc	592	mg/kg	6.4	2.8	5	12/06/18 14:26	12/11/18 12:02	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.12	mg/kg	0.024	0.0098	1	12/06/18 14:27	12/12/18 17:22	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.4	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<14.0	ug/kg	261	14.0	20	12/06/18 10:37	12/12/18 18:39	90-12-0	
2-Methylnaphthalene	<13.2	ug/kg	261	13.2	20	12/06/18 10:37	12/12/18 18:39	91-57-6	
Acenaphthene	83.8J	ug/kg	261	10.7	20	12/06/18 10:37	12/12/18 18:39	83-32-9	
Acenaphthylene	92.2J	ug/kg	261	12.9	20	12/06/18 10:37	12/12/18 18:39	208-96-8	
Anthracene	666	ug/kg	261	12.2	20	12/06/18 10:37	12/12/18 18:39	120-12-7	
Benzo(a)anthracene	1510	ug/kg	261	28.2	20	12/06/18 10:37	12/12/18 18:39	56-55-3	
Benzo(a)pyrene	498	ug/kg	261	17.9	20	12/06/18 10:37	12/12/18 18:39	50-32-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-20 (0.0-2.0)**      **Lab ID: 10457092039**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(b)fluoranthene	<b>1190</b>	ug/kg	261	9.7	20	12/06/18 10:37	12/12/18 18:39	205-99-2	
Benzo(g,h,i)perylene	<b>197J</b>	ug/kg	261	16.5	20	12/06/18 10:37	12/12/18 18:39	191-24-2	
Benzo(k)fluoranthene	<b>503</b>	ug/kg	261	22.1	20	12/06/18 10:37	12/12/18 18:39	207-08-9	
Chrysene	<b>1880</b>	ug/kg	261	35.5	20	12/06/18 10:37	12/12/18 18:39	218-01-9	
Dibenz(a,h)anthracene	<b>83.0J</b>	ug/kg	261	12.0	20	12/06/18 10:37	12/12/18 18:39	53-70-3	
Fluoranthene	<b>7020</b>	ug/kg	261	11.2	20	12/06/18 10:37	12/12/18 18:39	206-44-0	
Fluorene	<b>151J</b>	ug/kg	261	8.2	20	12/06/18 10:37	12/12/18 18:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>194J</b>	ug/kg	261	17.5	20	12/06/18 10:37	12/12/18 18:39	193-39-5	
Naphthalene	<b>&lt;20.1</b>	ug/kg	261	20.1	20	12/06/18 10:37	12/12/18 18:39	91-20-3	
Phenanthrene	<b>2630</b>	ug/kg	261	50.1	20	12/06/18 10:37	12/12/18 18:39	85-01-8	
Pyrene	<b>5590</b>	ug/kg	261	39.9	20	12/06/18 10:37	12/12/18 18:39	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	42-125		20	12/06/18 10:37	12/12/18 18:39	321-60-8	D3,S4
p-Terphenyl-d14 (S)	0	%	57-125		20	12/06/18 10:37	12/12/18 18:39	1718-51-0	S4
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.28</b>	ug/kg	4.9	0.28	1	03/01/19 09:00	03/01/19 15:21	106-93-4	
Methylene Chloride	<b>&lt;4.5</b>	ug/kg	24.4	4.5	1	03/01/19 09:00	03/01/19 15:21	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	03/01/19 09:00	03/01/19 15:21	17060-07-0	5M,H3
Toluene-d8 (S)	101	%	75-125		1	03/01/19 09:00	03/01/19 15:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/01/19 09:00	03/01/19 15:21	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<b>&lt;25.4</b>	ug/kg	81.0	25.4	1	12/11/18 16:21	12/12/18 02:59	630-20-6	
1,1,1-Trichloroethane	<b>&lt;37.7</b>	ug/kg	81.0	37.7	1	12/11/18 16:21	12/12/18 02:59	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;14.3</b>	ug/kg	81.0	14.3	1	12/11/18 16:21	12/12/18 02:59	79-34-5	
1,1,2-Trichloroethane	<b>&lt;9.7</b>	ug/kg	81.0	9.7	1	12/11/18 16:21	12/12/18 02:59	79-00-5	
1,1,2-Trichlorotrifluoroethane	<b>&lt;93.9</b>	ug/kg	324	93.9	1	12/11/18 16:21	12/12/18 02:59	76-13-1	
1,1-Dichloroethane	<b>&lt;9.1</b>	ug/kg	81.0	9.1	1	12/11/18 16:21	12/12/18 02:59	75-34-3	
1,1-Dichloroethene	<b>&lt;24.3</b>	ug/kg	81.0	24.3	1	12/11/18 16:21	12/12/18 02:59	75-35-4	
1,1-Dichloropropene	<b>&lt;37.4</b>	ug/kg	324	37.4	1	12/11/18 16:21	12/12/18 02:59	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;12.9</b>	ug/kg	81.0	12.9	1	12/11/18 16:21	12/12/18 02:59	87-61-6	
1,2,3-Trichloropropane	<b>&lt;21.2</b>	ug/kg	324	21.2	1	12/11/18 16:21	12/12/18 02:59	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;18.0</b>	ug/kg	81.0	18.0	1	12/11/18 16:21	12/12/18 02:59	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;16.2</b>	ug/kg	81.0	16.2	1	12/11/18 16:21	12/12/18 02:59	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;282</b>	ug/kg	810	282	1	12/11/18 16:21	12/12/18 02:59	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;8.5</b>	ug/kg	81.0	8.5	1	12/11/18 16:21	12/12/18 02:59	106-93-4	
1,2-Dichlorobenzene	<b>&lt;3.3</b>	ug/kg	81.0	3.3	1	12/11/18 16:21	12/12/18 02:59	95-50-1	
1,2-Dichloroethane	<b>&lt;8.9</b>	ug/kg	81.0	8.9	1	12/11/18 16:21	12/12/18 02:59	107-06-2	
1,2-Dichloropropane	<b>&lt;14.0</b>	ug/kg	81.0	14.0	1	12/11/18 16:21	12/12/18 02:59	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;12.9</b>	ug/kg	81.0	12.9	1	12/11/18 16:21	12/12/18 02:59	108-67-8	
1,3-Dichlorobenzene	<b>&lt;2.9</b>	ug/kg	81.0	2.9	1	12/11/18 16:21	12/12/18 02:59	541-73-1	
1,3-Dichloropropane	<b>&lt;11.2</b>	ug/kg	81.0	11.2	1	12/11/18 16:21	12/12/18 02:59	142-28-9	
1,4-Dichlorobenzene	<b>&lt;5.0</b>	ug/kg	81.0	5.0	1	12/11/18 16:21	12/12/18 02:59	106-46-7	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-20 (0.0-2.0)**      **Lab ID: 10457092039**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	<10.1	ug/kg	324	10.1	1	12/11/18 16:21	12/12/18 02:59	594-20-7	
2-Butanone (MEK)	<43.1	ug/kg	405	43.1	1	12/11/18 16:21	12/12/18 02:59	78-93-3	
2-Chlorotoluene	<4.0	ug/kg	81.0	4.0	1	12/11/18 16:21	12/12/18 02:59	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	81.0	4.1	1	12/11/18 16:21	12/12/18 02:59	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.8	ug/kg	405	16.8	1	12/11/18 16:21	12/12/18 02:59	108-10-1	
Acetone	<504	ug/kg	1620	504	1	12/11/18 16:21	12/12/18 02:59	67-64-1	
Allyl chloride	<67.9	ug/kg	324	67.9	1	12/11/18 16:21	12/12/18 02:59	107-05-1	
Benzene	<4.6	ug/kg	32.4	4.6	1	12/11/18 16:21	12/12/18 02:59	71-43-2	
Bromobenzene	<5.0	ug/kg	81.0	5.0	1	12/11/18 16:21	12/12/18 02:59	108-86-1	
Bromochloromethane	<28.0	ug/kg	81.0	28.0	1	12/11/18 16:21	12/12/18 02:59	74-97-5	
Bromodichloromethane	<27.7	ug/kg	81.0	27.7	1	12/11/18 16:21	12/12/18 02:59	75-27-4	
Bromoform	<123	ug/kg	324	123	1	12/11/18 16:21	12/12/18 02:59	75-25-2	
Bromomethane	<94.7	ug/kg	810	94.7	1	12/11/18 16:21	12/12/18 02:59	74-83-9	
Carbon tetrachloride	<38.7	ug/kg	324	38.7	1	12/11/18 16:21	12/12/18 02:59	56-23-5	
Chlorobenzene	<4.6	ug/kg	81.0	4.6	1	12/11/18 16:21	12/12/18 02:59	108-90-7	
Chloroethane	<42.1	ug/kg	810	42.1	1	12/11/18 16:21	12/12/18 02:59	75-00-3	
Chloroform	<40.5	ug/kg	81.0	40.5	1	12/11/18 16:21	12/12/18 02:59	67-66-3	
Chloromethane	<19.4	ug/kg	324	19.4	1	12/11/18 16:21	12/12/18 02:59	74-87-3	
Dibromochloromethane	<9.4	ug/kg	324	9.4	1	12/11/18 16:21	12/12/18 02:59	124-48-1	
Dibromomethane	<14.9	ug/kg	81.0	14.9	1	12/11/18 16:21	12/12/18 02:59	74-95-3	
Dichlorodifluoromethane	<26.2	ug/kg	324	26.2	1	12/11/18 16:21	12/12/18 02:59	75-71-8	
Dichlorofluoromethane	<112	ug/kg	810	112	1	12/11/18 16:21	12/12/18 02:59	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.6	ug/kg	324	49.6	1	12/11/18 16:21	12/12/18 02:59	60-29-7	
Ethylbenzene	<4.4	ug/kg	81.0	4.4	1	12/11/18 16:21	12/12/18 02:59	100-41-4	
Hexachloro-1,3-butadiene	<19.8	ug/kg	405	19.8	1	12/11/18 16:21	12/12/18 02:59	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	81.0	3.6	1	12/11/18 16:21	12/12/18 02:59	98-82-8	
Methyl-tert-butyl ether	<9.6	ug/kg	81.0	9.6	1	12/11/18 16:21	12/12/18 02:59	1634-04-4	
Methylene Chloride	<152	ug/kg	324	152	1	12/11/18 16:21	12/12/18 02:59	75-09-2	
Naphthalene	<75.8	ug/kg	324	75.8	1	12/11/18 16:21	12/12/18 02:59	91-20-3	
Styrene	<3.7	ug/kg	81.0	3.7	1	12/11/18 16:21	12/12/18 02:59	100-42-5	
Tetrachloroethene	<28.5	ug/kg	81.0	28.5	1	12/11/18 16:21	12/12/18 02:59	127-18-4	
Tetrahydrofuran	<118	ug/kg	3240	118	1	12/11/18 16:21	12/12/18 02:59	109-99-9	
Toluene	<19.8	ug/kg	81.0	19.8	1	12/11/18 16:21	12/12/18 02:59	108-88-3	
Trichloroethene	<12.5	ug/kg	81.0	12.5	1	12/11/18 16:21	12/12/18 02:59	79-01-6	
Trichlorofluoromethane	<141	ug/kg	324	141	1	12/11/18 16:21	12/12/18 02:59	75-69-4	
Vinyl chloride	<15.9	ug/kg	81.0	15.9	1	12/11/18 16:21	12/12/18 02:59	75-01-4	
Xylene (Total)	<18.8	ug/kg	243	18.8	1	12/11/18 16:21	12/12/18 02:59	1330-20-7	
cis-1,2-Dichloroethene	<13.4	ug/kg	81.0	13.4	1	12/11/18 16:21	12/12/18 02:59	156-59-2	
cis-1,3-Dichloropropene	<11.6	ug/kg	81.0	11.6	1	12/11/18 16:21	12/12/18 02:59	10061-01-5	
n-Butylbenzene	<38.5	ug/kg	81.0	38.5	1	12/11/18 16:21	12/12/18 02:59	104-51-8	
n-Propylbenzene	<4.3	ug/kg	81.0	4.3	1	12/11/18 16:21	12/12/18 02:59	103-65-1	
p-Isopropyltoluene	<24.6	ug/kg	81.0	24.6	1	12/11/18 16:21	12/12/18 02:59	99-87-6	
sec-Butylbenzene	<15.5	ug/kg	81.0	15.5	1	12/11/18 16:21	12/12/18 02:59	135-98-8	
tert-Butylbenzene	<15.5	ug/kg	81.0	15.5	1	12/11/18 16:21	12/12/18 02:59	98-06-6	
trans-1,2-Dichloroethene	<37.9	ug/kg	81.0	37.9	1	12/11/18 16:21	12/12/18 02:59	156-60-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-20 (0.0-2.0)**      **Lab ID: 10457092039**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,3-Dichloropropene	<11.3	ug/kg	81.0	11.3	1	12/11/18 16:21	12/12/18 02:59	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-125		1	12/11/18 16:21	12/12/18 02:59	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 16:21	12/12/18 02:59	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/11/18 16:21	12/12/18 02:59	460-00-4	

**Sample: DP-20 (3.0-5.0)**      **Lab ID: 10457092040**      Collected: 11/28/18 12:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.0	ug/kg	46.6	13.0	1	12/04/18 14:03	12/06/18 06:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.4	ug/kg	46.6	16.4	1	12/04/18 14:03	12/06/18 06:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.6	ug/kg	46.6	18.6	1	12/04/18 14:03	12/06/18 06:36	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.8	ug/kg	46.6	15.8	1	12/04/18 14:03	12/06/18 06:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.0	ug/kg	46.6	14.0	1	12/04/18 14:03	12/06/18 06:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.7	ug/kg	46.6	13.7	1	12/04/18 14:03	12/06/18 06:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.1	ug/kg	46.6	11.1	1	12/04/18 14:03	12/06/18 06:36	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	68	%	48-125		1	12/04/18 14:03	12/06/18 06:36	877-09-8	
Decachlorobiphenyl (S)	78	%	30-134		1	12/04/18 14:03	12/06/18 06:36	2051-24-3	

<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	21.2	3.4	1	12/03/18 14:05	12/13/18 00:10	68334-30-5	
Motor Oil Range	<6.1	mg/kg	14.1	6.1	1	12/03/18 14:05	12/13/18 00:10		
<b>Surrogates</b>									
n-Triacontane (S)	74	%	50-150		1	12/03/18 14:05	12/13/18 00:10	638-68-6	
o-Terphenyl (S)	96	%	50-150		1	12/03/18 14:05	12/13/18 00:10	84-15-1	

<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.3	1.1	1	12/11/18 14:06	12/12/18 21:34		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	102	%	50-150		1	12/11/18 14:06	12/12/18 21:34	98-08-8	

<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.53	mg/kg	1.4	0.53	1	12/06/18 14:26	12/10/18 13:56	7440-36-0	
Arsenic	0.75J	mg/kg	1.4	0.29	1	12/06/18 14:26	12/10/18 13:56	7440-38-2	
Beryllium	0.084J	mg/kg	0.35	0.019	1	12/06/18 14:26	12/10/18 13:56	7440-41-7	
Cadmium	<0.028	mg/kg	0.21	0.028	1	12/06/18 14:26	12/10/18 13:56	7440-43-9	
Chromium	6.2	mg/kg	0.70	0.12	1	12/06/18 14:26	12/10/18 13:56	7440-47-3	
Copper	12.1	mg/kg	0.70	0.078	1	12/06/18 14:26	12/10/18 13:56	7440-50-8	
Lead	3.4	mg/kg	0.70	0.16	1	12/06/18 14:26	12/10/18 13:56	7439-92-1	
Nickel	4.6	mg/kg	1.4	0.089	1	12/06/18 14:26	12/10/18 13:56	7440-02-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-20 (3.0-5.0) Lab ID: 10457092040** Collected: 11/28/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Selenium	<0.46	mg/kg	1.4	0.46	1	12/06/18 14:26	12/10/18 13:56	7782-49-2	
Silver	<0.051	mg/kg	0.70	0.051	1	12/06/18 14:26	12/10/18 13:56	7440-22-4	
Thallium	0.93J	mg/kg	1.4	0.32	1	12/06/18 14:26	12/10/18 13:56	7440-28-0	
Zinc	26.9	mg/kg	1.4	0.62	1	12/06/18 14:26	12/10/18 13:56	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.011	mg/kg	0.027	0.011	1	12/06/18 14:27	12/12/18 17:25	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	29.7	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.76	ug/kg	14.2	0.76	1	12/06/18 10:37	12/12/18 19:00	90-12-0	
2-Methylnaphthalene	<0.72	ug/kg	14.2	0.72	1	12/06/18 10:37	12/12/18 19:00	91-57-6	
Acenaphthene	<0.58	ug/kg	14.2	0.58	1	12/06/18 10:37	12/12/18 19:00	83-32-9	
Acenaphthylene	<0.70	ug/kg	14.2	0.70	1	12/06/18 10:37	12/12/18 19:00	208-96-8	
Anthracene	<0.67	ug/kg	14.2	0.67	1	12/06/18 10:37	12/12/18 19:00	120-12-7	
Benzo(a)anthracene	<1.5	ug/kg	14.2	1.5	1	12/06/18 10:37	12/12/18 19:00	56-55-3	
Benzo(a)pyrene	<0.98	ug/kg	14.2	0.98	1	12/06/18 10:37	12/12/18 19:00	50-32-8	
Benzo(b)fluoranthene	<0.53	ug/kg	14.2	0.53	1	12/06/18 10:37	12/12/18 19:00	205-99-2	
Benzo(g,h,i)perylene	<0.90	ug/kg	14.2	0.90	1	12/06/18 10:37	12/12/18 19:00	191-24-2	
Benzo(k)fluoranthene	<1.2	ug/kg	14.2	1.2	1	12/06/18 10:37	12/12/18 19:00	207-08-9	
Chrysene	<1.9	ug/kg	14.2	1.9	1	12/06/18 10:37	12/12/18 19:00	218-01-9	
Dibenz(a,h)anthracene	<0.66	ug/kg	14.2	0.66	1	12/06/18 10:37	12/12/18 19:00	53-70-3	
Fluoranthene	<0.61	ug/kg	14.2	0.61	1	12/06/18 10:37	12/12/18 19:00	206-44-0	
Fluorene	<0.44	ug/kg	14.2	0.44	1	12/06/18 10:37	12/12/18 19:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.95	ug/kg	14.2	0.95	1	12/06/18 10:37	12/12/18 19:00	193-39-5	
Naphthalene	<1.1	ug/kg	14.2	1.1	1	12/06/18 10:37	12/12/18 19:00	91-20-3	
Phenanthrene	<2.7	ug/kg	14.2	2.7	1	12/06/18 10:37	12/12/18 19:00	85-01-8	
Pyrene	<2.2	ug/kg	14.2	2.2	1	12/06/18 10:37	12/12/18 19:00	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	42-125		1	12/06/18 10:37	12/12/18 19:00	321-60-8	
p-Terphenyl-d14 (S)	66	%	57-125		1	12/06/18 10:37	12/12/18 19:00	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.32	ug/kg	5.7	0.32	1	03/01/19 09:00	03/01/19 15:40	106-93-4	
Methylene Chloride	<5.2	ug/kg	28.3	5.2	1	03/01/19 09:00	03/01/19 15:40	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/01/19 09:00	03/01/19 15:40	17060-07-0	5M, H3
Toluene-d8 (S)	99	%	75-125		1	03/01/19 09:00	03/01/19 15:40	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 15:40	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<30.1	ug/kg	95.8	30.1	1	12/11/18 16:21	12/12/18 03:21	630-20-6	
1,1,1-Trichloroethane	<44.7	ug/kg	95.8	44.7	1	12/11/18 16:21	12/12/18 03:21	71-55-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-20 (3.0-5.0) Lab ID: 10457092040** Collected: 11/28/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2,2-Tetrachloroethane	<16.9	ug/kg	95.8	16.9	1	12/11/18 16:21	12/12/18 03:21	79-34-5	
1,1,2-Trichloroethane	<11.5	ug/kg	95.8	11.5	1	12/11/18 16:21	12/12/18 03:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	<111	ug/kg	383	111	1	12/11/18 16:21	12/12/18 03:21	76-13-1	
1,1-Dichloroethane	<10.8	ug/kg	95.8	10.8	1	12/11/18 16:21	12/12/18 03:21	75-34-3	
1,1-Dichloroethene	<28.8	ug/kg	95.8	28.8	1	12/11/18 16:21	12/12/18 03:21	75-35-4	
1,1-Dichloropropene	<44.3	ug/kg	383	44.3	1	12/11/18 16:21	12/12/18 03:21	563-58-6	
1,2,3-Trichlorobenzene	<15.3	ug/kg	95.8	15.3	1	12/11/18 16:21	12/12/18 03:21	87-61-6	
1,2,3-Trichloropropane	<25.1	ug/kg	383	25.1	1	12/11/18 16:21	12/12/18 03:21	96-18-4	
1,2,4-Trichlorobenzene	<21.3	ug/kg	95.8	21.3	1	12/11/18 16:21	12/12/18 03:21	120-82-1	
1,2,4-Trimethylbenzene	<19.2	ug/kg	95.8	19.2	1	12/11/18 16:21	12/12/18 03:21	95-63-6	
1,2-Dibromo-3-chloropropane	<334	ug/kg	958	334	1	12/11/18 16:21	12/12/18 03:21	96-12-8	
1,2-Dibromoethane (EDB)	<10.1	ug/kg	95.8	10.1	1	12/11/18 16:21	12/12/18 03:21	106-93-4	
1,2-Dichlorobenzene	<3.9	ug/kg	95.8	3.9	1	12/11/18 16:21	12/12/18 03:21	95-50-1	
1,2-Dichloroethane	<10.5	ug/kg	95.8	10.5	1	12/11/18 16:21	12/12/18 03:21	107-06-2	
1,2-Dichloropropane	<16.5	ug/kg	95.8	16.5	1	12/11/18 16:21	12/12/18 03:21	78-87-5	
1,3,5-Trimethylbenzene	<15.3	ug/kg	95.8	15.3	1	12/11/18 16:21	12/12/18 03:21	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/kg	95.8	3.5	1	12/11/18 16:21	12/12/18 03:21	541-73-1	
1,3-Dichloropropane	<13.3	ug/kg	95.8	13.3	1	12/11/18 16:21	12/12/18 03:21	142-28-9	
1,4-Dichlorobenzene	<5.9	ug/kg	95.8	5.9	1	12/11/18 16:21	12/12/18 03:21	106-46-7	
2,2-Dichloropropane	<12.0	ug/kg	383	12.0	1	12/11/18 16:21	12/12/18 03:21	594-20-7	
2-Butanone (MEK)	<51.0	ug/kg	479	51.0	1	12/11/18 16:21	12/12/18 03:21	78-93-3	
2-Chlorotoluene	<4.7	ug/kg	95.8	4.7	1	12/11/18 16:21	12/12/18 03:21	95-49-8	
4-Chlorotoluene	<4.9	ug/kg	95.8	4.9	1	12/11/18 16:21	12/12/18 03:21	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.9	ug/kg	479	19.9	1	12/11/18 16:21	12/12/18 03:21	108-10-1	
Acetone	<596	ug/kg	1920	596	1	12/11/18 16:21	12/12/18 03:21	67-64-1	
Allyl chloride	<80.3	ug/kg	383	80.3	1	12/11/18 16:21	12/12/18 03:21	107-05-1	
Benzene	<5.4	ug/kg	38.3	5.4	1	12/11/18 16:21	12/12/18 03:21	71-43-2	
Bromobenzene	<5.9	ug/kg	95.8	5.9	1	12/11/18 16:21	12/12/18 03:21	108-86-1	
Bromochloromethane	<33.2	ug/kg	95.8	33.2	1	12/11/18 16:21	12/12/18 03:21	74-97-5	
Bromodichloromethane	<32.8	ug/kg	95.8	32.8	1	12/11/18 16:21	12/12/18 03:21	75-27-4	
Bromoform	<145	ug/kg	383	145	1	12/11/18 16:21	12/12/18 03:21	75-25-2	
Bromomethane	<112	ug/kg	958	112	1	12/11/18 16:21	12/12/18 03:21	74-83-9	
Carbon tetrachloride	<45.8	ug/kg	383	45.8	1	12/11/18 16:21	12/12/18 03:21	56-23-5	
Chlorobenzene	<5.4	ug/kg	95.8	5.4	1	12/11/18 16:21	12/12/18 03:21	108-90-7	
Chloroethane	<49.8	ug/kg	958	49.8	1	12/11/18 16:21	12/12/18 03:21	75-00-3	
Chloroform	<47.9	ug/kg	95.8	47.9	1	12/11/18 16:21	12/12/18 03:21	67-66-3	
Chloromethane	<23.0	ug/kg	383	23.0	1	12/11/18 16:21	12/12/18 03:21	74-87-3	
Dibromochloromethane	<11.1	ug/kg	383	11.1	1	12/11/18 16:21	12/12/18 03:21	124-48-1	
Dibromomethane	<17.6	ug/kg	95.8	17.6	1	12/11/18 16:21	12/12/18 03:21	74-95-3	
Dichlorodifluoromethane	<31.1	ug/kg	383	31.1	1	12/11/18 16:21	12/12/18 03:21	75-71-8	
Dichlorofluoromethane	<132	ug/kg	958	132	1	12/11/18 16:21	12/12/18 03:21	75-43-4	N2
Diethyl ether (Ethyl ether)	<58.7	ug/kg	383	58.7	1	12/11/18 16:21	12/12/18 03:21	60-29-7	
Ethylbenzene	<5.2	ug/kg	95.8	5.2	1	12/11/18 16:21	12/12/18 03:21	100-41-4	
Hexachloro-1,3-butadiene	<23.4	ug/kg	479	23.4	1	12/11/18 16:21	12/12/18 03:21	87-68-3	
Isopropylbenzene (Cumene)	<4.3	ug/kg	95.8	4.3	1	12/11/18 16:21	12/12/18 03:21	98-82-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-20 (3.0-5.0) Lab ID: 10457092040** Collected: 11/28/18 12:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	<11.4	ug/kg	95.8	11.4	1	12/11/18 16:21	12/12/18 03:21	1634-04-4	
Methylene Chloride	<180	ug/kg	383	180	1	12/11/18 16:21	12/12/18 03:21	75-09-2	
Naphthalene	<89.7	ug/kg	383	89.7	1	12/11/18 16:21	12/12/18 03:21	91-20-3	
Styrene	<4.4	ug/kg	95.8	4.4	1	12/11/18 16:21	12/12/18 03:21	100-42-5	
Tetrachloroethene	<33.7	ug/kg	95.8	33.7	1	12/11/18 16:21	12/12/18 03:21	127-18-4	
Tetrahydrofuran	<139	ug/kg	3830	139	1	12/11/18 16:21	12/12/18 03:21	109-99-9	
Toluene	<23.4	ug/kg	95.8	23.4	1	12/11/18 16:21	12/12/18 03:21	108-88-3	
Trichloroethene	<14.8	ug/kg	95.8	14.8	1	12/11/18 16:21	12/12/18 03:21	79-01-6	
Trichlorofluoromethane	<167	ug/kg	383	167	1	12/11/18 16:21	12/12/18 03:21	75-69-4	
Vinyl chloride	<18.9	ug/kg	95.8	18.9	1	12/11/18 16:21	12/12/18 03:21	75-01-4	
Xylene (Total)	<22.2	ug/kg	288	22.2	1	12/11/18 16:21	12/12/18 03:21	1330-20-7	
cis-1,2-Dichloroethene	<15.9	ug/kg	95.8	15.9	1	12/11/18 16:21	12/12/18 03:21	156-59-2	
cis-1,3-Dichloropropene	<13.7	ug/kg	95.8	13.7	1	12/11/18 16:21	12/12/18 03:21	10061-01-5	
n-Butylbenzene	<45.6	ug/kg	95.8	45.6	1	12/11/18 16:21	12/12/18 03:21	104-51-8	
n-Propylbenzene	<5.1	ug/kg	95.8	5.1	1	12/11/18 16:21	12/12/18 03:21	103-65-1	
p-Isopropyltoluene	<29.1	ug/kg	95.8	29.1	1	12/11/18 16:21	12/12/18 03:21	99-87-6	
sec-Butylbenzene	<18.4	ug/kg	95.8	18.4	1	12/11/18 16:21	12/12/18 03:21	135-98-8	
tert-Butylbenzene	<18.4	ug/kg	95.8	18.4	1	12/11/18 16:21	12/12/18 03:21	98-06-6	
trans-1,2-Dichloroethene	<44.9	ug/kg	95.8	44.9	1	12/11/18 16:21	12/12/18 03:21	156-60-5	
trans-1,3-Dichloropropene	<13.3	ug/kg	95.8	13.3	1	12/11/18 16:21	12/12/18 03:21	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-125		1	12/11/18 16:21	12/12/18 03:21	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 16:21	12/12/18 03:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/11/18 16:21	12/12/18 03:21	460-00-4	

**Sample: DP-21 (0.0-1.5) Lab ID: 10457092041** Collected: 11/28/18 13:10 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<11.0	ug/kg	39.4	11.0	1	12/04/18 14:03	12/06/18 06:51	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.8	ug/kg	39.4	13.8	1	12/04/18 14:03	12/06/18 06:51	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.8	ug/kg	39.4	15.8	1	12/04/18 14:03	12/06/18 06:51	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.4	ug/kg	39.4	13.4	1	12/04/18 14:03	12/06/18 06:51	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.8	ug/kg	39.4	11.8	1	12/04/18 14:03	12/06/18 06:51	12672-29-6	
PCB-1254 (Aroclor 1254)	22.9J	ug/kg	39.4	11.6	1	12/04/18 14:03	12/06/18 06:51	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.4	ug/kg	39.4	9.4	1	12/04/18 14:03	12/06/18 06:51	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	48-125		1	12/04/18 14:03	12/06/18 06:51	877-09-8	
Decachlorobiphenyl (S)	91	%	30-134		1	12/04/18 14:03	12/06/18 06:51	2051-24-3	

**NWTPH-Dx GCS** Analytical Method: NWTPH-Dx Preparation Method: EPA 3550

Diesel Fuel Range	25.9	mg/kg	18.0	2.9	1	12/03/18 14:49	12/10/18 16:45	68334-30-5	M1
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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-21 (0.0-1.5)**      **Lab ID: 10457092041**      Collected: 11/28/18 13:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Motor Oil Range	<b>34.7</b>	mg/kg	12.0	5.2	1	12/03/18 14:49	12/10/18 16:45		M1
<b>Surrogates</b>									
n-Triacontane (S)	89	%	50-150		1	12/03/18 14:49	12/10/18 16:45	638-68-6	
o-Terphenyl (S)	87	%	50-150		1	12/03/18 14:49	12/10/18 16:45	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.92</b>	mg/kg	7.0	0.92	1	12/11/18 14:06	12/12/18 21:50		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	105	%	50-150		1	12/11/18 14:06	12/12/18 21:50	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.44</b>	mg/kg	1.2	0.44	1	12/06/18 12:12	12/10/18 14:55	7440-36-0	M1
Arsenic	<b>2.2</b>	mg/kg	1.2	0.24	1	12/06/18 12:12	12/10/18 14:55	7440-38-2	M1
Beryllium	<b>0.030J</b>	mg/kg	0.29	0.016	1	12/06/18 12:12	12/10/18 14:55	7440-41-7	M1
Cadmium	<b>0.13J</b>	mg/kg	0.17	0.023	1	12/06/18 12:12	12/10/18 14:55	7440-43-9	M1
Chromium	<b>7.0</b>	mg/kg	0.58	0.10	1	12/06/18 12:12	12/10/18 14:55	7440-47-3	M1
Copper	<b>21.7</b>	mg/kg	0.58	0.065	1	12/06/18 12:12	12/10/18 14:55	7440-50-8	M1
Lead	<b>184</b>	mg/kg	0.58	0.13	1	12/06/18 12:12	12/10/18 14:55	7439-92-1	M1
Nickel	<b>6.7</b>	mg/kg	1.2	0.073	1	12/06/18 12:12	12/10/18 14:55	7440-02-0	M1
Selenium	<b>&lt;0.38</b>	mg/kg	1.2	0.38	1	12/06/18 12:12	12/10/18 14:55	7782-49-2	M1
Silver	<b>&lt;0.042</b>	mg/kg	0.58	0.042	1	12/06/18 12:12	12/10/18 14:55	7440-22-4	M1
Thallium	<b>&lt;0.27</b>	mg/kg	1.2	0.27	1	12/06/18 12:12	12/10/18 14:55	7440-28-0	M1
Zinc	<b>66.1</b>	mg/kg	1.2	0.51	1	12/06/18 12:12	12/10/18 14:55	7440-66-6	M1
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.028</b>	mg/kg	0.022	0.0088	1	12/06/18 12:13	12/12/18 12:06	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>16.6</b>	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;3.2</b>	ug/kg	59.9	3.2	5	12/06/18 10:37	12/12/18 19:20	90-12-0	
2-Methylnaphthalene	<b>&lt;3.0</b>	ug/kg	59.9	3.0	5	12/06/18 10:37	12/12/18 19:20	91-57-6	
Acenaphthene	<b>2.7J</b>	ug/kg	59.9	2.4	5	12/06/18 10:37	12/12/18 19:20	83-32-9	
Acenaphthylene	<b>17.3J</b>	ug/kg	59.9	3.0	5	12/06/18 10:37	12/12/18 19:20	208-96-8	
Anthracene	<b>46.2J</b>	ug/kg	59.9	2.8	5	12/06/18 10:37	12/12/18 19:20	120-12-7	
Benzo(a)anthracene	<b>204</b>	ug/kg	59.9	6.5	5	12/06/18 10:37	12/12/18 19:20	56-55-3	
Benzo(a)pyrene	<b>245</b>	ug/kg	59.9	4.1	5	12/06/18 10:37	12/12/18 19:20	50-32-8	
Benzo(b)fluoranthene	<b>510</b>	ug/kg	59.9	2.2	5	12/06/18 10:37	12/12/18 19:20	205-99-2	
Benzo(g,h,i)perylene	<b>230</b>	ug/kg	59.9	3.8	5	12/06/18 10:37	12/12/18 19:20	191-24-2	
Benzo(k)fluoranthene	<b>204</b>	ug/kg	59.9	5.1	5	12/06/18 10:37	12/12/18 19:20	207-08-9	
Chrysene	<b>394</b>	ug/kg	59.9	8.1	5	12/06/18 10:37	12/12/18 19:20	218-01-9	
Dibenz(a,h)anthracene	<b>58.9J</b>	ug/kg	59.9	2.8	5	12/06/18 10:37	12/12/18 19:20	53-70-3	
Fluoranthene	<b>494</b>	ug/kg	59.9	2.6	5	12/06/18 10:37	12/12/18 19:20	206-44-0	
Fluorene	<b>4.4J</b>	ug/kg	59.9	1.9	5	12/06/18 10:37	12/12/18 19:20	86-73-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-21 (0.0-1.5)**      **Lab ID: 10457092041**      Collected: 11/28/18 13:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Indeno(1,2,3-cd)pyrene	173	ug/kg	59.9	4.0	5	12/06/18 10:37	12/12/18 19:20	193-39-5	
Naphthalene	<4.6	ug/kg	59.9	4.6	5	12/06/18 10:37	12/12/18 19:20	91-20-3	
Phenanthrene	79.9	ug/kg	59.9	11.5	5	12/06/18 10:37	12/12/18 19:20	85-01-8	
Pyrene	611	ug/kg	59.9	9.2	5	12/06/18 10:37	12/12/18 19:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	42-125		5	12/06/18 10:37	12/12/18 19:20	321-60-8	D3
p-Terphenyl-d14 (S)	57	%	57-125		5	12/06/18 10:37	12/12/18 19:20	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.4	0.25	1	03/01/19 09:00	03/01/19 15:59	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.2	4.1	1	03/01/19 09:00	03/01/19 15:59	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	03/01/19 09:00	03/01/19 15:59	17060-07-0	4M, H3
Toluene-d8 (S)	101	%	75-125		1	03/01/19 09:00	03/01/19 15:59	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/01/19 09:00	03/01/19 15:59	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.9	ug/kg	92.0	28.9	1	12/11/18 16:21	12/12/18 03:43	630-20-6	
1,1,1-Trichloroethane	<42.8	ug/kg	92.0	42.8	1	12/11/18 16:21	12/12/18 03:43	71-55-6	
1,1,1,2-Tetrachloroethane	<16.2	ug/kg	92.0	16.2	1	12/11/18 16:21	12/12/18 03:43	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/kg	92.0	11.0	1	12/11/18 16:21	12/12/18 03:43	79-00-5	
1,1,2-Trichlorotrifluoroethane	<107	ug/kg	368	107	1	12/11/18 16:21	12/12/18 03:43	76-13-1	
1,1-Dichloroethane	<10.3	ug/kg	92.0	10.3	1	12/11/18 16:21	12/12/18 03:43	75-34-3	
1,1-Dichloroethene	<27.6	ug/kg	92.0	27.6	1	12/11/18 16:21	12/12/18 03:43	75-35-4	
1,1-Dichloropropene	<42.5	ug/kg	368	42.5	1	12/11/18 16:21	12/12/18 03:43	563-58-6	
1,2,3-Trichlorobenzene	<14.7	ug/kg	92.0	14.7	1	12/11/18 16:21	12/12/18 03:43	87-61-6	
1,2,3-Trichloropropane	<24.1	ug/kg	368	24.1	1	12/11/18 16:21	12/12/18 03:43	96-18-4	
1,2,4-Trichlorobenzene	<20.4	ug/kg	92.0	20.4	1	12/11/18 16:21	12/12/18 03:43	120-82-1	
1,2,4-Trimethylbenzene	<18.4	ug/kg	92.0	18.4	1	12/11/18 16:21	12/12/18 03:43	95-63-6	
1,2-Dibromo-3-chloropropane	<320	ug/kg	920	320	1	12/11/18 16:21	12/12/18 03:43	96-12-8	
1,2-Dibromoethane (EDB)	<9.7	ug/kg	92.0	9.7	1	12/11/18 16:21	12/12/18 03:43	106-93-4	
1,2-Dichlorobenzene	<3.7	ug/kg	92.0	3.7	1	12/11/18 16:21	12/12/18 03:43	95-50-1	
1,2-Dichloroethane	<10.1	ug/kg	92.0	10.1	1	12/11/18 16:21	12/12/18 03:43	107-06-2	
1,2-Dichloropropane	<15.9	ug/kg	92.0	15.9	1	12/11/18 16:21	12/12/18 03:43	78-87-5	
1,3,5-Trimethylbenzene	<14.7	ug/kg	92.0	14.7	1	12/11/18 16:21	12/12/18 03:43	108-67-8	
1,3-Dichlorobenzene	<3.3	ug/kg	92.0	3.3	1	12/11/18 16:21	12/12/18 03:43	541-73-1	
1,3-Dichloropropane	<12.7	ug/kg	92.0	12.7	1	12/11/18 16:21	12/12/18 03:43	142-28-9	
1,4-Dichlorobenzene	<5.7	ug/kg	92.0	5.7	1	12/11/18 16:21	12/12/18 03:43	106-46-7	
2,2-Dichloropropane	<11.5	ug/kg	368	11.5	1	12/11/18 16:21	12/12/18 03:43	594-20-7	
2-Butanone (MEK)	<48.9	ug/kg	460	48.9	1	12/11/18 16:21	12/12/18 03:43	78-93-3	
2-Chlorotoluene	<4.5	ug/kg	92.0	4.5	1	12/11/18 16:21	12/12/18 03:43	95-49-8	
4-Chlorotoluene	<4.7	ug/kg	92.0	4.7	1	12/11/18 16:21	12/12/18 03:43	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.1	ug/kg	460	19.1	1	12/11/18 16:21	12/12/18 03:43	108-10-1	
Acetone	<572	ug/kg	1840	572	1	12/11/18 16:21	12/12/18 03:43	67-64-1	
Allyl chloride	<77.1	ug/kg	368	77.1	1	12/11/18 16:21	12/12/18 03:43	107-05-1	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-21 (0.0-1.5)**      **Lab ID: 10457092041**      Collected: 11/28/18 13:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Benzene	<5.2	ug/kg	36.8	5.2	1	12/11/18 16:21	12/12/18 03:43	71-43-2	
Bromobenzene	<5.6	ug/kg	92.0	5.6	1	12/11/18 16:21	12/12/18 03:43	108-86-1	
Bromochloromethane	<31.8	ug/kg	92.0	31.8	1	12/11/18 16:21	12/12/18 03:43	74-97-5	
Bromodichloromethane	<31.4	ug/kg	92.0	31.4	1	12/11/18 16:21	12/12/18 03:43	75-27-4	
Bromoform	<139	ug/kg	368	139	1	12/11/18 16:21	12/12/18 03:43	75-25-2	
Bromomethane	<108	ug/kg	920	108	1	12/11/18 16:21	12/12/18 03:43	74-83-9	
Carbon tetrachloride	<44.0	ug/kg	368	44.0	1	12/11/18 16:21	12/12/18 03:43	56-23-5	
Chlorobenzene	<5.2	ug/kg	92.0	5.2	1	12/11/18 16:21	12/12/18 03:43	108-90-7	
Chloroethane	<47.8	ug/kg	920	47.8	1	12/11/18 16:21	12/12/18 03:43	75-00-3	
Chloroform	<46.0	ug/kg	92.0	46.0	1	12/11/18 16:21	12/12/18 03:43	67-66-3	
Chloromethane	<22.1	ug/kg	368	22.1	1	12/11/18 16:21	12/12/18 03:43	74-87-3	
Dibromochloromethane	<10.7	ug/kg	368	10.7	1	12/11/18 16:21	12/12/18 03:43	124-48-1	
Dibromomethane	<16.9	ug/kg	92.0	16.9	1	12/11/18 16:21	12/12/18 03:43	74-95-3	
Dichlorodifluoromethane	<29.8	ug/kg	368	29.8	1	12/11/18 16:21	12/12/18 03:43	75-71-8	
Dichlorofluoromethane	<127	ug/kg	920	127	1	12/11/18 16:21	12/12/18 03:43	75-43-4	N2
Diethyl ether (Ethyl ether)	<56.3	ug/kg	368	56.3	1	12/11/18 16:21	12/12/18 03:43	60-29-7	
Ethylbenzene	<5.0	ug/kg	92.0	5.0	1	12/11/18 16:21	12/12/18 03:43	100-41-4	
Hexachloro-1,3-butadiene	<22.4	ug/kg	460	22.4	1	12/11/18 16:21	12/12/18 03:43	87-68-3	
Isopropylbenzene (Cumene)	<4.1	ug/kg	92.0	4.1	1	12/11/18 16:21	12/12/18 03:43	98-82-8	
Methyl-tert-butyl ether	<10.9	ug/kg	92.0	10.9	1	12/11/18 16:21	12/12/18 03:43	1634-04-4	
Methylene Chloride	<173	ug/kg	368	173	1	12/11/18 16:21	12/12/18 03:43	75-09-2	
Naphthalene	<86.1	ug/kg	368	86.1	1	12/11/18 16:21	12/12/18 03:43	91-20-3	
Styrene	<4.2	ug/kg	92.0	4.2	1	12/11/18 16:21	12/12/18 03:43	100-42-5	
Tetrachloroethene	<32.4	ug/kg	92.0	32.4	1	12/11/18 16:21	12/12/18 03:43	127-18-4	
Tetrahydrofuran	<134	ug/kg	3680	134	1	12/11/18 16:21	12/12/18 03:43	109-99-9	
Toluene	<22.4	ug/kg	92.0	22.4	1	12/11/18 16:21	12/12/18 03:43	108-88-3	
Trichloroethene	<14.2	ug/kg	92.0	14.2	1	12/11/18 16:21	12/12/18 03:43	79-01-6	
Trichlorofluoromethane	<160	ug/kg	368	160	1	12/11/18 16:21	12/12/18 03:43	75-69-4	
Vinyl chloride	<18.1	ug/kg	92.0	18.1	1	12/11/18 16:21	12/12/18 03:43	75-01-4	
Xylene (Total)	<21.3	ug/kg	276	21.3	1	12/11/18 16:21	12/12/18 03:43	1330-20-7	
cis-1,2-Dichloroethene	<15.2	ug/kg	92.0	15.2	1	12/11/18 16:21	12/12/18 03:43	156-59-2	
cis-1,3-Dichloropropene	<13.2	ug/kg	92.0	13.2	1	12/11/18 16:21	12/12/18 03:43	10061-01-5	
n-Butylbenzene	<43.8	ug/kg	92.0	43.8	1	12/11/18 16:21	12/12/18 03:43	104-51-8	
n-Propylbenzene	<4.9	ug/kg	92.0	4.9	1	12/11/18 16:21	12/12/18 03:43	103-65-1	
p-Isopropyltoluene	<28.0	ug/kg	92.0	28.0	1	12/11/18 16:21	12/12/18 03:43	99-87-6	
sec-Butylbenzene	<17.6	ug/kg	92.0	17.6	1	12/11/18 16:21	12/12/18 03:43	135-98-8	
tert-Butylbenzene	<17.7	ug/kg	92.0	17.7	1	12/11/18 16:21	12/12/18 03:43	98-06-6	
trans-1,2-Dichloroethene	<43.0	ug/kg	92.0	43.0	1	12/11/18 16:21	12/12/18 03:43	156-60-5	
trans-1,3-Dichloropropene	<12.8	ug/kg	92.0	12.8	1	12/11/18 16:21	12/12/18 03:43	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/11/18 16:21	12/12/18 03:43	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 16:21	12/12/18 03:43	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/11/18 16:21	12/12/18 03:43	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-21 (1.5-3.0)**      **Lab ID: 10457092042**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.7	11.9	1	12/04/18 14:03	12/06/18 07:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.7	15.0	1	12/04/18 14:03	12/06/18 07:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.7	17.1	1	12/04/18 14:03	12/06/18 07:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.7	14.5	1	12/04/18 14:03	12/06/18 07:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.7	12.8	1	12/04/18 14:03	12/06/18 07:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	42.7	12.6	1	12/04/18 14:03	12/06/18 07:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.7	10.2	1	12/04/18 14:03	12/06/18 07:07	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	71	%	48-125		1	12/04/18 14:03	12/06/18 07:07	877-09-8	
Decachlorobiphenyl (S)	67	%	30-134		1	12/04/18 14:03	12/06/18 07:07	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	35.7	mg/kg	19.2	3.1	1	12/03/18 14:49	12/10/18 17:18	68334-30-5	
Motor Oil Range	30.5	mg/kg	12.8	5.6	1	12/03/18 14:49	12/10/18 17:18		
<b>Surrogates</b>									
n-Triacontane (S)	84	%	50-150		1	12/03/18 14:49	12/10/18 17:18	638-68-6	
o-Terphenyl (S)	88	%	50-150		1	12/03/18 14:49	12/10/18 17:18	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	1.8J	mg/kg	8.5	1.1	1	12/11/18 14:06	12/12/18 22:07		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	100	%	50-150		1	12/11/18 14:06	12/12/18 22:07	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.49	mg/kg	1.3	0.49	1	12/06/18 12:12	12/10/18 15:03	7440-36-0	
Arsenic	1.2J	mg/kg	1.3	0.27	1	12/06/18 12:12	12/10/18 15:03	7440-38-2	
Beryllium	0.049J	mg/kg	0.33	0.018	1	12/06/18 12:12	12/10/18 15:03	7440-41-7	
Cadmium	0.056J	mg/kg	0.20	0.026	1	12/06/18 12:12	12/10/18 15:03	7440-43-9	
Chromium	5.1	mg/kg	0.65	0.11	1	12/06/18 12:12	12/10/18 15:03	7440-47-3	
Copper	12.5	mg/kg	0.65	0.073	1	12/06/18 12:12	12/10/18 15:03	7440-50-8	
Lead	5.6	mg/kg	0.65	0.15	1	12/06/18 12:12	12/10/18 15:03	7439-92-1	
Nickel	4.7	mg/kg	1.3	0.082	1	12/06/18 12:12	12/10/18 15:03	7440-02-0	
Selenium	<0.43	mg/kg	1.3	0.43	1	12/06/18 12:12	12/10/18 15:03	7782-49-2	
Silver	<0.047	mg/kg	0.65	0.047	1	12/06/18 12:12	12/10/18 15:03	7440-22-4	
Thallium	0.40J	mg/kg	1.3	0.30	1	12/06/18 12:12	12/10/18 15:03	7440-28-0	
Zinc	37.9	mg/kg	1.3	0.57	1	12/06/18 12:12	12/10/18 15:03	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.0094J	mg/kg	0.022	0.0088	1	12/06/18 12:13	12/12/18 12:13	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.5	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.1	0.70	1	12/06/18 10:37	12/12/18 19:41	90-12-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Sample: DP-21 (1.5-3.0) Lab ID: 10457092042 Collected: 11/28/18 13:20 Received: 11/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
2-Methylnaphthalene	<0.66	ug/kg	13.1	0.66	1	12/06/18 10:37	12/12/18 19:41	91-57-6	
Acenaphthene	<0.53	ug/kg	13.1	0.53	1	12/06/18 10:37	12/12/18 19:41	83-32-9	
Acenaphthylene	1.0J	ug/kg	13.1	0.65	1	12/06/18 10:37	12/12/18 19:41	208-96-8	
Anthracene	2.3J	ug/kg	13.1	0.61	1	12/06/18 10:37	12/12/18 19:41	120-12-7	
Benzo(a)anthracene	8.3J	ug/kg	13.1	1.4	1	12/06/18 10:37	12/12/18 19:41	56-55-3	
Benzo(a)pyrene	12.3J	ug/kg	13.1	0.90	1	12/06/18 10:37	12/12/18 19:41	50-32-8	
Benzo(b)fluoranthene	28.7	ug/kg	13.1	0.49	1	12/06/18 10:37	12/12/18 19:41	205-99-2	
Benzo(g,h,i)perylene	14.8	ug/kg	13.1	0.83	1	12/06/18 10:37	12/12/18 19:41	191-24-2	
Benzo(k)fluoranthene	9.3J	ug/kg	13.1	1.1	1	12/06/18 10:37	12/12/18 19:41	207-08-9	
Chrysene	18.0	ug/kg	13.1	1.8	1	12/06/18 10:37	12/12/18 19:41	218-01-9	
Dibenz(a,h)anthracene	3.6J	ug/kg	13.1	0.60	1	12/06/18 10:37	12/12/18 19:41	53-70-3	
Fluoranthene	16.5	ug/kg	13.1	0.56	1	12/06/18 10:37	12/12/18 19:41	206-44-0	
Fluorene	<0.41	ug/kg	13.1	0.41	1	12/06/18 10:37	12/12/18 19:41	86-73-7	
Indeno(1,2,3-cd)pyrene	10.6J	ug/kg	13.1	0.88	1	12/06/18 10:37	12/12/18 19:41	193-39-5	
Naphthalene	<1.0	ug/kg	13.1	1.0	1	12/06/18 10:37	12/12/18 19:41	91-20-3	
Phenanthrene	<2.5	ug/kg	13.1	2.5	1	12/06/18 10:37	12/12/18 19:41	85-01-8	
Pyrene	21.4	ug/kg	13.1	2.0	1	12/06/18 10:37	12/12/18 19:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	42-125		1	12/06/18 10:37	12/12/18 19:41	321-60-8	
p-Terphenyl-d14 (S)	59	%	57-125		1	12/06/18 10:37	12/12/18 19:41	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	03/01/19 09:00	03/01/19 16:18	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.4	4.5	1	03/01/19 09:00	03/01/19 16:18	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/01/19 09:00	03/01/19 16:18	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 16:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 16:18	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<28.6	ug/kg	91.2	28.6	1	12/11/18 16:21	12/12/18 04:04	630-20-6	
1,1,1-Trichloroethane	<42.5	ug/kg	91.2	42.5	1	12/11/18 16:21	12/12/18 04:04	71-55-6	
1,1,2,2-Tetrachloroethane	<16.1	ug/kg	91.2	16.1	1	12/11/18 16:21	12/12/18 04:04	79-34-5	
1,1,2-Trichloroethane	<10.9	ug/kg	91.2	10.9	1	12/11/18 16:21	12/12/18 04:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	<106	ug/kg	365	106	1	12/11/18 16:21	12/12/18 04:04	76-13-1	
1,1-Dichloroethane	<10.2	ug/kg	91.2	10.2	1	12/11/18 16:21	12/12/18 04:04	75-34-3	
1,1-Dichloroethene	<27.4	ug/kg	91.2	27.4	1	12/11/18 16:21	12/12/18 04:04	75-35-4	
1,1-Dichloropropene	<42.1	ug/kg	365	42.1	1	12/11/18 16:21	12/12/18 04:04	563-58-6	
1,2,3-Trichlorobenzene	<14.6	ug/kg	91.2	14.6	1	12/11/18 16:21	12/12/18 04:04	87-61-6	
1,2,3-Trichloropropane	<23.9	ug/kg	365	23.9	1	12/11/18 16:21	12/12/18 04:04	96-18-4	
1,2,4-Trichlorobenzene	<20.2	ug/kg	91.2	20.2	1	12/11/18 16:21	12/12/18 04:04	120-82-1	
1,2,4-Trimethylbenzene	<18.2	ug/kg	91.2	18.2	1	12/11/18 16:21	12/12/18 04:04	95-63-6	
1,2-Dibromo-3-chloropropane	<317	ug/kg	912	317	1	12/11/18 16:21	12/12/18 04:04	96-12-8	
1,2-Dibromoethane (EDB)	<9.6	ug/kg	91.2	9.6	1	12/11/18 16:21	12/12/18 04:04	106-93-4	
1,2-Dichlorobenzene	<3.7	ug/kg	91.2	3.7	1	12/11/18 16:21	12/12/18 04:04	95-50-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-21 (1.5-3.0)**      **Lab ID: 10457092042**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<10.0	ug/kg	91.2	10.0	1	12/11/18 16:21	12/12/18 04:04	107-06-2	
1,2-Dichloropropane	<15.7	ug/kg	91.2	15.7	1	12/11/18 16:21	12/12/18 04:04	78-87-5	
1,3,5-Trimethylbenzene	<14.5	ug/kg	91.2	14.5	1	12/11/18 16:21	12/12/18 04:04	108-67-8	
1,3-Dichlorobenzene	<3.3	ug/kg	91.2	3.3	1	12/11/18 16:21	12/12/18 04:04	541-73-1	
1,3-Dichloropropane	<12.6	ug/kg	91.2	12.6	1	12/11/18 16:21	12/12/18 04:04	142-28-9	
1,4-Dichlorobenzene	<5.7	ug/kg	91.2	5.7	1	12/11/18 16:21	12/12/18 04:04	106-46-7	
2,2-Dichloropropane	<11.4	ug/kg	365	11.4	1	12/11/18 16:21	12/12/18 04:04	594-20-7	
2-Butanone (MEK)	<48.5	ug/kg	456	48.5	1	12/11/18 16:21	12/12/18 04:04	78-93-3	
2-Chlorotoluene	<4.5	ug/kg	91.2	4.5	1	12/11/18 16:21	12/12/18 04:04	95-49-8	
4-Chlorotoluene	<4.7	ug/kg	91.2	4.7	1	12/11/18 16:21	12/12/18 04:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.0	ug/kg	456	19.0	1	12/11/18 16:21	12/12/18 04:04	108-10-1	
Acetone	<567	ug/kg	1820	567	1	12/11/18 16:21	12/12/18 04:04	67-64-1	
Allyl chloride	<76.4	ug/kg	365	76.4	1	12/11/18 16:21	12/12/18 04:04	107-05-1	
Benzene	<5.1	ug/kg	36.5	5.1	1	12/11/18 16:21	12/12/18 04:04	71-43-2	
Bromobenzene	<5.6	ug/kg	91.2	5.6	1	12/11/18 16:21	12/12/18 04:04	108-86-1	
Bromochloromethane	<31.5	ug/kg	91.2	31.5	1	12/11/18 16:21	12/12/18 04:04	74-97-5	
Bromodichloromethane	<31.2	ug/kg	91.2	31.2	1	12/11/18 16:21	12/12/18 04:04	75-27-4	
Bromoform	<138	ug/kg	365	138	1	12/11/18 16:21	12/12/18 04:04	75-25-2	
Bromomethane	<107	ug/kg	912	107	1	12/11/18 16:21	12/12/18 04:04	74-83-9	
Carbon tetrachloride	<43.6	ug/kg	365	43.6	1	12/11/18 16:21	12/12/18 04:04	56-23-5	
Chlorobenzene	<5.1	ug/kg	91.2	5.1	1	12/11/18 16:21	12/12/18 04:04	108-90-7	
Chloroethane	<47.4	ug/kg	912	47.4	1	12/11/18 16:21	12/12/18 04:04	75-00-3	
Chloroform	<45.6	ug/kg	91.2	45.6	1	12/11/18 16:21	12/12/18 04:04	67-66-3	
Chloromethane	<21.9	ug/kg	365	21.9	1	12/11/18 16:21	12/12/18 04:04	74-87-3	
Dibromochloromethane	<10.6	ug/kg	365	10.6	1	12/11/18 16:21	12/12/18 04:04	124-48-1	
Dibromomethane	<16.7	ug/kg	91.2	16.7	1	12/11/18 16:21	12/12/18 04:04	74-95-3	
Dichlorodifluoromethane	<29.5	ug/kg	365	29.5	1	12/11/18 16:21	12/12/18 04:04	75-71-8	
Dichlorofluoromethane	<126	ug/kg	912	126	1	12/11/18 16:21	12/12/18 04:04	75-43-4	N2
Diethyl ether (Ethyl ether)	<55.8	ug/kg	365	55.8	1	12/11/18 16:21	12/12/18 04:04	60-29-7	
Ethylbenzene	<5.0	ug/kg	91.2	5.0	1	12/11/18 16:21	12/12/18 04:04	100-41-4	
Hexachloro-1,3-butadiene	<22.2	ug/kg	456	22.2	1	12/11/18 16:21	12/12/18 04:04	87-68-3	
Isopropylbenzene (Cumene)	<4.0	ug/kg	91.2	4.0	1	12/11/18 16:21	12/12/18 04:04	98-82-8	
Methyl-tert-butyl ether	<10.8	ug/kg	91.2	10.8	1	12/11/18 16:21	12/12/18 04:04	1634-04-4	
Methylene Chloride	<172	ug/kg	365	172	1	12/11/18 16:21	12/12/18 04:04	75-09-2	
Naphthalene	<85.3	ug/kg	365	85.3	1	12/11/18 16:21	12/12/18 04:04	91-20-3	
Styrene	<4.2	ug/kg	91.2	4.2	1	12/11/18 16:21	12/12/18 04:04	100-42-5	
Tetrachloroethene	<32.1	ug/kg	91.2	32.1	1	12/11/18 16:21	12/12/18 04:04	127-18-4	
Tetrahydrofuran	<133	ug/kg	3650	133	1	12/11/18 16:21	12/12/18 04:04	109-99-9	
Toluene	<22.2	ug/kg	91.2	22.2	1	12/11/18 16:21	12/12/18 04:04	108-88-3	
Trichloroethene	<14.1	ug/kg	91.2	14.1	1	12/11/18 16:21	12/12/18 04:04	79-01-6	
Trichlorofluoromethane	<159	ug/kg	365	159	1	12/11/18 16:21	12/12/18 04:04	75-69-4	
Vinyl chloride	<17.9	ug/kg	91.2	17.9	1	12/11/18 16:21	12/12/18 04:04	75-01-4	
Xylene (Total)	<21.2	ug/kg	274	21.2	1	12/11/18 16:21	12/12/18 04:04	1330-20-7	
cis-1,2-Dichloroethene	<15.1	ug/kg	91.2	15.1	1	12/11/18 16:21	12/12/18 04:04	156-59-2	
cis-1,3-Dichloropropene	<13.1	ug/kg	91.2	13.1	1	12/11/18 16:21	12/12/18 04:04	10061-01-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-21 (1.5-3.0)**      **Lab ID: 10457092042**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<43.4	ug/kg	91.2	43.4	1	12/11/18 16:21	12/12/18 04:04	104-51-8	
n-Propylbenzene	<4.9	ug/kg	91.2	4.9	1	12/11/18 16:21	12/12/18 04:04	103-65-1	
p-Isopropyltoluene	<27.7	ug/kg	91.2	27.7	1	12/11/18 16:21	12/12/18 04:04	99-87-6	
sec-Butylbenzene	<17.5	ug/kg	91.2	17.5	1	12/11/18 16:21	12/12/18 04:04	135-98-8	
tert-Butylbenzene	<17.5	ug/kg	91.2	17.5	1	12/11/18 16:21	12/12/18 04:04	98-06-6	
trans-1,2-Dichloroethene	<42.7	ug/kg	91.2	42.7	1	12/11/18 16:21	12/12/18 04:04	156-60-5	
trans-1,3-Dichloropropene	<12.7	ug/kg	91.2	12.7	1	12/11/18 16:21	12/12/18 04:04	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-125		1	12/11/18 16:21	12/12/18 04:04	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 16:21	12/12/18 04:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/11/18 16:21	12/12/18 04:04	460-00-4	

**Sample: DP-22 (0.0-2.0)**      **Lab ID: 10457092043**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.5	ug/kg	37.6	10.5	1	12/04/18 14:03	12/06/18 07:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.2	ug/kg	37.6	13.2	1	12/04/18 14:03	12/06/18 07:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.0	ug/kg	37.6	15.0	1	12/04/18 14:03	12/06/18 07:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.8	ug/kg	37.6	12.8	1	12/04/18 14:03	12/06/18 07:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.3	ug/kg	37.6	11.3	1	12/04/18 14:03	12/06/18 07:23	12672-29-6	
PCB-1254 (Aroclor 1254)	13.8J	ug/kg	37.6	11.1	1	12/04/18 14:03	12/06/18 07:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.0	ug/kg	37.6	9.0	1	12/04/18 14:03	12/06/18 07:23	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	48-125		1	12/04/18 14:03	12/06/18 07:23	877-09-8	
Decachlorobiphenyl (S)	85	%	30-134		1	12/04/18 14:03	12/06/18 07:23	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.8	mg/kg	17.1	2.8	1	12/03/18 14:49	12/10/18 17:28	68334-30-5	
Motor Oil Range	<4.9	mg/kg	11.4	4.9	1	12/03/18 14:49	12/10/18 17:28		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/03/18 14:49	12/10/18 17:28	638-68-6	
o-Terphenyl (S)	97	%	50-150		1	12/03/18 14:49	12/10/18 17:28	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	2.2J	mg/kg	7.6	1.0	1	12/11/18 14:06	12/12/18 22:24		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	94	%	50-150		1	12/11/18 14:06	12/12/18 22:24	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.40	mg/kg	1.1	0.40	1	12/06/18 12:12	12/10/18 15:05	7440-36-0	
Arsenic	1.3	mg/kg	1.1	0.22	1	12/06/18 12:12	12/10/18 15:05	7440-38-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-22 (0.0-2.0) Lab ID: 10457092043** Collected: 11/28/18 14:00 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Beryllium	<0.014	mg/kg	0.26	0.014	1	12/06/18 12:12	12/10/18 15:05	7440-41-7	
Cadmium	0.040J	mg/kg	0.16	0.021	1	12/06/18 12:12	12/10/18 15:05	7440-43-9	
Chromium	6.1	mg/kg	0.53	0.091	1	12/06/18 12:12	12/10/18 15:05	7440-47-3	
Copper	18.0	mg/kg	0.53	0.059	1	12/06/18 12:12	12/10/18 15:05	7440-50-8	
Lead	4.9	mg/kg	0.53	0.12	1	12/06/18 12:12	12/10/18 15:05	7439-92-1	
Nickel	7.6	mg/kg	1.1	0.067	1	12/06/18 12:12	12/10/18 15:05	7440-02-0	
Selenium	<0.35	mg/kg	1.1	0.35	1	12/06/18 12:12	12/10/18 15:05	7782-49-2	
Silver	<0.038	mg/kg	0.53	0.038	1	12/06/18 12:12	12/10/18 15:05	7440-22-4	
Thallium	0.39J	mg/kg	1.1	0.24	1	12/06/18 12:12	12/10/18 15:05	7440-28-0	
Zinc	36.0	mg/kg	1.1	0.46	1	12/06/18 12:12	12/10/18 15:05	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.014J	mg/kg	0.023	0.0092	1	12/06/18 12:13	12/12/18 12:15	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	12.6	%	0.10	0.10	1		12/11/18 16:06		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.61	ug/kg	11.4	0.61	1	12/06/18 10:37	12/12/18 20:01	90-12-0	
2-Methylnaphthalene	<0.58	ug/kg	11.4	0.58	1	12/06/18 10:37	12/12/18 20:01	91-57-6	
Acenaphthene	<0.47	ug/kg	11.4	0.47	1	12/06/18 10:37	12/12/18 20:01	83-32-9	
Acenaphthylene	<0.56	ug/kg	11.4	0.56	1	12/06/18 10:37	12/12/18 20:01	208-96-8	
Anthracene	0.66J	ug/kg	11.4	0.53	1	12/06/18 10:37	12/12/18 20:01	120-12-7	
Benzo(a)anthracene	1.9J	ug/kg	11.4	1.2	1	12/06/18 10:37	12/12/18 20:01	56-55-3	
Benzo(a)pyrene	1.3J	ug/kg	11.4	0.78	1	12/06/18 10:37	12/12/18 20:01	50-32-8	
Benzo(b)fluoranthene	2.3J	ug/kg	11.4	0.42	1	12/06/18 10:37	12/12/18 20:01	205-99-2	
Benzo(g,h,i)perylene	1.6J	ug/kg	11.4	0.72	1	12/06/18 10:37	12/12/18 20:01	191-24-2	
Benzo(k)fluoranthene	1.1J	ug/kg	11.4	0.96	1	12/06/18 10:37	12/12/18 20:01	207-08-9	
Chrysene	2.3J	ug/kg	11.4	1.5	1	12/06/18 10:37	12/12/18 20:01	218-01-9	
Dibenz(a,h)anthracene	<0.53	ug/kg	11.4	0.53	1	12/06/18 10:37	12/12/18 20:01	53-70-3	
Fluoranthene	4.3J	ug/kg	11.4	0.49	1	12/06/18 10:37	12/12/18 20:01	206-44-0	
Fluorene	<0.36	ug/kg	11.4	0.36	1	12/06/18 10:37	12/12/18 20:01	86-73-7	
Indeno(1,2,3-cd)pyrene	1.1J	ug/kg	11.4	0.76	1	12/06/18 10:37	12/12/18 20:01	193-39-5	
Naphthalene	<0.88	ug/kg	11.4	0.88	1	12/06/18 10:37	12/12/18 20:01	91-20-3	
Phenanthrene	<2.2	ug/kg	11.4	2.2	1	12/06/18 10:37	12/12/18 20:01	85-01-8	
Pyrene	3.9J	ug/kg	11.4	1.7	1	12/06/18 10:37	12/12/18 20:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	82	%	42-125		1	12/06/18 10:37	12/12/18 20:01	321-60-8	
p-Terphenyl-d14 (S)	79	%	57-125		1	12/06/18 10:37	12/12/18 20:01	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.5	0.26	1	03/01/19 09:00	03/01/19 16:38	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.6	4.1	1	03/01/19 09:00	03/01/19 16:38	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/01/19 09:00	03/01/19 16:38	17060-07-0	5M,H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-22 (0.0-2.0)**      **Lab ID: 10457092043**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 16:38	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 16:38	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<29.4	ug/kg	93.5	29.4	1	12/11/18 16:21	12/12/18 04:25	630-20-6	
1,1,1-Trichloroethane	<43.6	ug/kg	93.5	43.6	1	12/11/18 16:21	12/12/18 04:25	71-55-6	
1,1,2,2-Tetrachloroethane	<16.5	ug/kg	93.5	16.5	1	12/11/18 16:21	12/12/18 04:25	79-34-5	
1,1,2-Trichloroethane	<11.2	ug/kg	93.5	11.2	1	12/11/18 16:21	12/12/18 04:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	<108	ug/kg	374	108	1	12/11/18 16:21	12/12/18 04:25	76-13-1	
1,1-Dichloroethane	<10.5	ug/kg	93.5	10.5	1	12/11/18 16:21	12/12/18 04:25	75-34-3	
1,1-Dichloroethene	<28.0	ug/kg	93.5	28.0	1	12/11/18 16:21	12/12/18 04:25	75-35-4	
1,1-Dichloropropene	<43.2	ug/kg	374	43.2	1	12/11/18 16:21	12/12/18 04:25	563-58-6	
1,2,3-Trichlorobenzene	<14.9	ug/kg	93.5	14.9	1	12/11/18 16:21	12/12/18 04:25	87-61-6	
1,2,3-Trichloropropane	<24.5	ug/kg	374	24.5	1	12/11/18 16:21	12/12/18 04:25	96-18-4	
1,2,4-Trichlorobenzene	<20.8	ug/kg	93.5	20.8	1	12/11/18 16:21	12/12/18 04:25	120-82-1	
1,2,4-Trimethylbenzene	<18.7	ug/kg	93.5	18.7	1	12/11/18 16:21	12/12/18 04:25	95-63-6	
1,2-Dibromo-3-chloropropane	<325	ug/kg	935	325	1	12/11/18 16:21	12/12/18 04:25	96-12-8	
1,2-Dibromoethane (EDB)	<9.8	ug/kg	93.5	9.8	1	12/11/18 16:21	12/12/18 04:25	106-93-4	
1,2-Dichlorobenzene	<3.8	ug/kg	93.5	3.8	1	12/11/18 16:21	12/12/18 04:25	95-50-1	
1,2-Dichloroethane	<10.3	ug/kg	93.5	10.3	1	12/11/18 16:21	12/12/18 04:25	107-06-2	
1,2-Dichloropropane	<16.1	ug/kg	93.5	16.1	1	12/11/18 16:21	12/12/18 04:25	78-87-5	
1,3,5-Trimethylbenzene	<14.9	ug/kg	93.5	14.9	1	12/11/18 16:21	12/12/18 04:25	108-67-8	
1,3-Dichlorobenzene	<3.4	ug/kg	93.5	3.4	1	12/11/18 16:21	12/12/18 04:25	541-73-1	
1,3-Dichloropropane	<12.9	ug/kg	93.5	12.9	1	12/11/18 16:21	12/12/18 04:25	142-28-9	
1,4-Dichlorobenzene	<5.8	ug/kg	93.5	5.8	1	12/11/18 16:21	12/12/18 04:25	106-46-7	
2,2-Dichloropropane	<11.7	ug/kg	374	11.7	1	12/11/18 16:21	12/12/18 04:25	594-20-7	
2-Butanone (MEK)	<49.7	ug/kg	467	49.7	1	12/11/18 16:21	12/12/18 04:25	78-93-3	
2-Chlorotoluene	<4.6	ug/kg	93.5	4.6	1	12/11/18 16:21	12/12/18 04:25	95-49-8	
4-Chlorotoluene	<4.8	ug/kg	93.5	4.8	1	12/11/18 16:21	12/12/18 04:25	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.4	ug/kg	467	19.4	1	12/11/18 16:21	12/12/18 04:25	108-10-1	
Acetone	<581	ug/kg	1870	581	1	12/11/18 16:21	12/12/18 04:25	67-64-1	
Allyl chloride	<78.3	ug/kg	374	78.3	1	12/11/18 16:21	12/12/18 04:25	107-05-1	
Benzene	<5.3	ug/kg	37.4	5.3	1	12/11/18 16:21	12/12/18 04:25	71-43-2	
Bromobenzene	<5.7	ug/kg	93.5	5.7	1	12/11/18 16:21	12/12/18 04:25	108-86-1	
Bromochloromethane	<32.3	ug/kg	93.5	32.3	1	12/11/18 16:21	12/12/18 04:25	74-97-5	
Bromodichloromethane	<32.0	ug/kg	93.5	32.0	1	12/11/18 16:21	12/12/18 04:25	75-27-4	
Bromoform	<142	ug/kg	374	142	1	12/11/18 16:21	12/12/18 04:25	75-25-2	
Bromomethane	<109	ug/kg	935	109	1	12/11/18 16:21	12/12/18 04:25	74-83-9	
Carbon tetrachloride	<44.7	ug/kg	374	44.7	1	12/11/18 16:21	12/12/18 04:25	56-23-5	
Chlorobenzene	<5.3	ug/kg	93.5	5.3	1	12/11/18 16:21	12/12/18 04:25	108-90-7	
Chloroethane	<48.6	ug/kg	935	48.6	1	12/11/18 16:21	12/12/18 04:25	75-00-3	
Chloroform	<46.7	ug/kg	93.5	46.7	1	12/11/18 16:21	12/12/18 04:25	67-66-3	
Chloromethane	<22.4	ug/kg	374	22.4	1	12/11/18 16:21	12/12/18 04:25	74-87-3	
Dibromochloromethane	<10.8	ug/kg	374	10.8	1	12/11/18 16:21	12/12/18 04:25	124-48-1	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-22 (0.0-2.0)**      **Lab ID: 10457092043**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromomethane	<17.1	ug/kg	93.5	17.1	1	12/11/18 16:21	12/12/18 04:25	74-95-3	
Dichlorodifluoromethane	<30.3	ug/kg	374	30.3	1	12/11/18 16:21	12/12/18 04:25	75-71-8	
Dichlorofluoromethane	<129	ug/kg	935	129	1	12/11/18 16:21	12/12/18 04:25	75-43-4	N2
Diethyl ether (Ethyl ether)	<57.2	ug/kg	374	57.2	1	12/11/18 16:21	12/12/18 04:25	60-29-7	
Ethylbenzene	<5.1	ug/kg	93.5	5.1	1	12/11/18 16:21	12/12/18 04:25	100-41-4	
Hexachloro-1,3-butadiene	<22.8	ug/kg	467	22.8	1	12/11/18 16:21	12/12/18 04:25	87-68-3	
Isopropylbenzene (Cumene)	<4.2	ug/kg	93.5	4.2	1	12/11/18 16:21	12/12/18 04:25	98-82-8	
Methyl-tert-butyl ether	<11.1	ug/kg	93.5	11.1	1	12/11/18 16:21	12/12/18 04:25	1634-04-4	
Methylene Chloride	<176	ug/kg	374	176	1	12/11/18 16:21	12/12/18 04:25	75-09-2	
Naphthalene	<87.5	ug/kg	374	87.5	1	12/11/18 16:21	12/12/18 04:25	91-20-3	
Styrene	<4.3	ug/kg	93.5	4.3	1	12/11/18 16:21	12/12/18 04:25	100-42-5	
Tetrachloroethene	<32.9	ug/kg	93.5	32.9	1	12/11/18 16:21	12/12/18 04:25	127-18-4	
Tetrahydrofuran	<136	ug/kg	3740	136	1	12/11/18 16:21	12/12/18 04:25	109-99-9	
Toluene	<22.8	ug/kg	93.5	22.8	1	12/11/18 16:21	12/12/18 04:25	108-88-3	
Trichloroethene	<14.4	ug/kg	93.5	14.4	1	12/11/18 16:21	12/12/18 04:25	79-01-6	
Trichlorofluoromethane	<163	ug/kg	374	163	1	12/11/18 16:21	12/12/18 04:25	75-69-4	
Vinyl chloride	<18.4	ug/kg	93.5	18.4	1	12/11/18 16:21	12/12/18 04:25	75-01-4	
Xylene (Total)	<21.7	ug/kg	280	21.7	1	12/11/18 16:21	12/12/18 04:25	1330-20-7	
cis-1,2-Dichloroethene	<15.5	ug/kg	93.5	15.5	1	12/11/18 16:21	12/12/18 04:25	156-59-2	
cis-1,3-Dichloropropene	<13.4	ug/kg	93.5	13.4	1	12/11/18 16:21	12/12/18 04:25	10061-01-5	
n-Butylbenzene	<44.5	ug/kg	93.5	44.5	1	12/11/18 16:21	12/12/18 04:25	104-51-8	
n-Propylbenzene	<5.0	ug/kg	93.5	5.0	1	12/11/18 16:21	12/12/18 04:25	103-65-1	
p-Isopropyltoluene	<28.4	ug/kg	93.5	28.4	1	12/11/18 16:21	12/12/18 04:25	99-87-6	
sec-Butylbenzene	<17.9	ug/kg	93.5	17.9	1	12/11/18 16:21	12/12/18 04:25	135-98-8	
tert-Butylbenzene	<17.9	ug/kg	93.5	17.9	1	12/11/18 16:21	12/12/18 04:25	98-06-6	
trans-1,2-Dichloroethene	<43.8	ug/kg	93.5	43.8	1	12/11/18 16:21	12/12/18 04:25	156-60-5	
trans-1,3-Dichloropropene	<13.0	ug/kg	93.5	13.0	1	12/11/18 16:21	12/12/18 04:25	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	108	%	75-125		1	12/11/18 16:21	12/12/18 04:25	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 16:21	12/12/18 04:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/11/18 16:21	12/12/18 04:25	460-00-4	

**Sample: DP-22 (2.0-4.0)**      **Lab ID: 10457092044**      Collected: 11/28/18 14:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.9	11.9	1	12/04/18 14:03	12/06/18 08:10	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.1	ug/kg	42.9	15.1	1	12/04/18 14:03	12/06/18 08:10	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.2	ug/kg	42.9	17.2	1	12/04/18 14:03	12/06/18 08:10	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.6	ug/kg	42.9	14.6	1	12/04/18 14:03	12/06/18 08:10	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.9	ug/kg	42.9	12.9	1	12/04/18 14:03	12/06/18 08:10	12672-29-6	
PCB-1254 (Aroclor 1254)	25.7J	ug/kg	42.9	12.6	1	12/04/18 14:03	12/06/18 08:10	11097-69-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-22 (2.0-4.0)**      **Lab ID: 10457092044**      Collected: 11/28/18 14:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1260 (Aroclor 1260)	<10.3	ug/kg	42.9	10.3	1	12/04/18 14:03	12/06/18 08:10	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	81	%	48-125		1	12/04/18 14:03	12/06/18 08:10	877-09-8	
Decachlorobiphenyl (S)	87	%	30-134		1	12/04/18 14:03	12/06/18 08:10	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.2	mg/kg	19.7	3.2	1	12/03/18 14:49	12/10/18 17:39	68334-30-5	
Motor Oil Range	<5.7	mg/kg	13.1	5.7	1	12/03/18 14:49	12/10/18 17:39		
<b>Surrogates</b>									
n-Triacontane (S)	88	%	50-150		1	12/03/18 14:49	12/10/18 17:39	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:49	12/10/18 17:39	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	2.4J	mg/kg	8.0	1.1	1	12/11/18 14:06	12/12/18 22:41		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	90	%	50-150		1	12/11/18 14:06	12/12/18 22:41	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.49	mg/kg	1.3	0.49	1	12/06/18 12:12	12/10/18 15:07	7440-36-0	
Arsenic	1.1J	mg/kg	1.3	0.26	1	12/06/18 12:12	12/10/18 15:07	7440-38-2	
Beryllium	0.046J	mg/kg	0.32	0.017	1	12/06/18 12:12	12/10/18 15:07	7440-41-7	
Cadmium	<0.026	mg/kg	0.19	0.026	1	12/06/18 12:12	12/10/18 15:07	7440-43-9	
Chromium	9.5	mg/kg	0.65	0.11	1	12/06/18 12:12	12/10/18 15:07	7440-47-3	
Copper	16.8	mg/kg	0.65	0.072	1	12/06/18 12:12	12/10/18 15:07	7440-50-8	
Lead	10.7	mg/kg	0.65	0.15	1	12/06/18 12:12	12/10/18 15:07	7439-92-1	
Nickel	6.0	mg/kg	1.3	0.081	1	12/06/18 12:12	12/10/18 15:07	7440-02-0	
Selenium	<0.42	mg/kg	1.3	0.42	1	12/06/18 12:12	12/10/18 15:07	7782-49-2	
Silver	<0.047	mg/kg	0.65	0.047	1	12/06/18 12:12	12/10/18 15:07	7440-22-4	
Thallium	0.90J	mg/kg	1.3	0.30	1	12/06/18 12:12	12/10/18 15:07	7440-28-0	
Zinc	40.6	mg/kg	1.3	0.57	1	12/06/18 12:12	12/10/18 15:07	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.010	mg/kg	0.025	0.010	1	12/06/18 12:13	12/12/18 12:17	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.1	%	0.10	0.10	1		12/11/18 16:07		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.1	0.70	1	12/06/18 10:37	12/12/18 20:22	90-12-0	
2-Methylnaphthalene	<0.66	ug/kg	13.1	0.66	1	12/06/18 10:37	12/12/18 20:22	91-57-6	
Acenaphthene	<0.53	ug/kg	13.1	0.53	1	12/06/18 10:37	12/12/18 20:22	83-32-9	
Acenaphthylene	1.2J	ug/kg	13.1	0.65	1	12/06/18 10:37	12/12/18 20:22	208-96-8	
Anthracene	2.6J	ug/kg	13.1	0.61	1	12/06/18 10:37	12/12/18 20:22	120-12-7	
Benzo(a)anthracene	5.6J	ug/kg	13.1	1.4	1	12/06/18 10:37	12/12/18 20:22	56-55-3	
Benzo(a)pyrene	6.7J	ug/kg	13.1	0.90	1	12/06/18 10:37	12/12/18 20:22	50-32-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-22 (2.0-4.0)**      **Lab ID: 10457092044**      Collected: 11/28/18 14:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(b)fluoranthene	13.4	ug/kg	13.1	0.49	1	12/06/18 10:37	12/12/18 20:22	205-99-2	
Benzo(g,h,i)perylene	7.4J	ug/kg	13.1	0.83	1	12/06/18 10:37	12/12/18 20:22	191-24-2	
Benzo(k)fluoranthene	5.4J	ug/kg	13.1	1.1	1	12/06/18 10:37	12/12/18 20:22	207-08-9	
Chrysene	10.1J	ug/kg	13.1	1.8	1	12/06/18 10:37	12/12/18 20:22	218-01-9	
Dibenz(a,h)anthracene	1.6J	ug/kg	13.1	0.60	1	12/06/18 10:37	12/12/18 20:22	53-70-3	
Fluoranthene	14.7	ug/kg	13.1	0.56	1	12/06/18 10:37	12/12/18 20:22	206-44-0	
Fluorene	<0.41	ug/kg	13.1	0.41	1	12/06/18 10:37	12/12/18 20:22	86-73-7	
Indeno(1,2,3-cd)pyrene	5.6J	ug/kg	13.1	0.87	1	12/06/18 10:37	12/12/18 20:22	193-39-5	
Naphthalene	<1.0	ug/kg	13.1	1.0	1	12/06/18 10:37	12/12/18 20:22	91-20-3	
Phenanthrene	4.5J	ug/kg	13.1	2.5	1	12/06/18 10:37	12/12/18 20:22	85-01-8	
Pyrene	13.6	ug/kg	13.1	2.0	1	12/06/18 10:37	12/12/18 20:22	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	56	%	42-125		1	12/06/18 10:37	12/12/18 20:22	321-60-8	2M
p-Terphenyl-d14 (S)	54	%	57-125		1	12/06/18 10:37	12/12/18 20:22	1718-51-0	S0
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/01/19 09:00	03/01/19 16:57	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.8	4.7	1	03/01/19 09:00	03/01/19 16:57	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/01/19 09:00	03/01/19 16:57	17060-07-0	5M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 16:57	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/01/19 09:00	03/01/19 16:57	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<30.2	ug/kg	96.3	30.2	1	12/11/18 16:21	12/12/18 04:46	630-20-6	
1,1,1-Trichloroethane	<44.9	ug/kg	96.3	44.9	1	12/11/18 16:21	12/12/18 04:46	71-55-6	
1,1,2,2-Tetrachloroethane	<17.0	ug/kg	96.3	17.0	1	12/11/18 16:21	12/12/18 04:46	79-34-5	
1,1,2-Trichloroethane	<11.5	ug/kg	96.3	11.5	1	12/11/18 16:21	12/12/18 04:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	<112	ug/kg	385	112	1	12/11/18 16:21	12/12/18 04:46	76-13-1	
1,1-Dichloroethane	<10.8	ug/kg	96.3	10.8	1	12/11/18 16:21	12/12/18 04:46	75-34-3	
1,1-Dichloroethene	<28.9	ug/kg	96.3	28.9	1	12/11/18 16:21	12/12/18 04:46	75-35-4	
1,1-Dichloropropene	<44.5	ug/kg	385	44.5	1	12/11/18 16:21	12/12/18 04:46	563-58-6	
1,2,3-Trichlorobenzene	<15.4	ug/kg	96.3	15.4	1	12/11/18 16:21	12/12/18 04:46	87-61-6	
1,2,3-Trichloropropane	<25.2	ug/kg	385	25.2	1	12/11/18 16:21	12/12/18 04:46	96-18-4	
1,2,4-Trichlorobenzene	<21.4	ug/kg	96.3	21.4	1	12/11/18 16:21	12/12/18 04:46	120-82-1	
1,2,4-Trimethylbenzene	<19.3	ug/kg	96.3	19.3	1	12/11/18 16:21	12/12/18 04:46	95-63-6	
1,2-Dibromo-3-chloropropane	<335	ug/kg	963	335	1	12/11/18 16:21	12/12/18 04:46	96-12-8	
1,2-Dibromoethane (EDB)	<10.1	ug/kg	96.3	10.1	1	12/11/18 16:21	12/12/18 04:46	106-93-4	
1,2-Dichlorobenzene	<3.9	ug/kg	96.3	3.9	1	12/11/18 16:21	12/12/18 04:46	95-50-1	
1,2-Dichloroethane	<10.6	ug/kg	96.3	10.6	1	12/11/18 16:21	12/12/18 04:46	107-06-2	
1,2-Dichloropropane	<16.6	ug/kg	96.3	16.6	1	12/11/18 16:21	12/12/18 04:46	78-87-5	
1,3,5-Trimethylbenzene	<15.3	ug/kg	96.3	15.3	1	12/11/18 16:21	12/12/18 04:46	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/kg	96.3	3.5	1	12/11/18 16:21	12/12/18 04:46	541-73-1	
1,3-Dichloropropane	<13.3	ug/kg	96.3	13.3	1	12/11/18 16:21	12/12/18 04:46	142-28-9	
1,4-Dichlorobenzene	<6.0	ug/kg	96.3	6.0	1	12/11/18 16:21	12/12/18 04:46	106-46-7	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-22 (2.0-4.0)**      **Lab ID: 10457092044**      Collected: 11/28/18 14:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2,2-Dichloropropane	<12.0	ug/kg	385	12.0	1	12/11/18 16:21	12/12/18 04:46	594-20-7	
2-Butanone (MEK)	<51.2	ug/kg	481	51.2	1	12/11/18 16:21	12/12/18 04:46	78-93-3	
2-Chlorotoluene	<4.7	ug/kg	96.3	4.7	1	12/11/18 16:21	12/12/18 04:46	95-49-8	
4-Chlorotoluene	<4.9	ug/kg	96.3	4.9	1	12/11/18 16:21	12/12/18 04:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<20.0	ug/kg	481	20.0	1	12/11/18 16:21	12/12/18 04:46	108-10-1	
Acetone	<599	ug/kg	1930	599	1	12/11/18 16:21	12/12/18 04:46	67-64-1	
Allyl chloride	<80.7	ug/kg	385	80.7	1	12/11/18 16:21	12/12/18 04:46	107-05-1	
Benzene	<5.4	ug/kg	38.5	5.4	1	12/11/18 16:21	12/12/18 04:46	71-43-2	
Bromobenzene	<5.9	ug/kg	96.3	5.9	1	12/11/18 16:21	12/12/18 04:46	108-86-1	
Bromochloromethane	<33.3	ug/kg	96.3	33.3	1	12/11/18 16:21	12/12/18 04:46	74-97-5	
Bromodichloromethane	<32.9	ug/kg	96.3	32.9	1	12/11/18 16:21	12/12/18 04:46	75-27-4	
Bromoform	<146	ug/kg	385	146	1	12/11/18 16:21	12/12/18 04:46	75-25-2	
Bromomethane	<113	ug/kg	963	113	1	12/11/18 16:21	12/12/18 04:46	74-83-9	
Carbon tetrachloride	<46.0	ug/kg	385	46.0	1	12/11/18 16:21	12/12/18 04:46	56-23-5	
Chlorobenzene	<5.4	ug/kg	96.3	5.4	1	12/11/18 16:21	12/12/18 04:46	108-90-7	
Chloroethane	<50.1	ug/kg	963	50.1	1	12/11/18 16:21	12/12/18 04:46	75-00-3	
Chloroform	<48.1	ug/kg	96.3	48.1	1	12/11/18 16:21	12/12/18 04:46	67-66-3	
Chloromethane	<23.1	ug/kg	385	23.1	1	12/11/18 16:21	12/12/18 04:46	74-87-3	
Dibromochloromethane	<11.2	ug/kg	385	11.2	1	12/11/18 16:21	12/12/18 04:46	124-48-1	
Dibromomethane	<17.7	ug/kg	96.3	17.7	1	12/11/18 16:21	12/12/18 04:46	74-95-3	
Dichlorodifluoromethane	<31.2	ug/kg	385	31.2	1	12/11/18 16:21	12/12/18 04:46	75-71-8	
Dichlorofluoromethane	<133	ug/kg	963	133	1	12/11/18 16:21	12/12/18 04:46	75-43-4	N2
Diethyl ether (Ethyl ether)	<58.9	ug/kg	385	58.9	1	12/11/18 16:21	12/12/18 04:46	60-29-7	
Ethylbenzene	<5.2	ug/kg	96.3	5.2	1	12/11/18 16:21	12/12/18 04:46	100-41-4	
Hexachloro-1,3-butadiene	<23.5	ug/kg	481	23.5	1	12/11/18 16:21	12/12/18 04:46	87-68-3	
Isopropylbenzene (Cumene)	<4.3	ug/kg	96.3	4.3	1	12/11/18 16:21	12/12/18 04:46	98-82-8	
Methyl-tert-butyl ether	<11.5	ug/kg	96.3	11.5	1	12/11/18 16:21	12/12/18 04:46	1634-04-4	
Methylene Chloride	<181	ug/kg	385	181	1	12/11/18 16:21	12/12/18 04:46	75-09-2	
Naphthalene	163J	ug/kg	385	90.1	1	12/11/18 16:21	12/12/18 04:46	91-20-3	
Styrene	<4.4	ug/kg	96.3	4.4	1	12/11/18 16:21	12/12/18 04:46	100-42-5	
Tetrachloroethene	<33.9	ug/kg	96.3	33.9	1	12/11/18 16:21	12/12/18 04:46	127-18-4	
Tetrahydrofuran	<140	ug/kg	3850	140	1	12/11/18 16:21	12/12/18 04:46	109-99-9	
Toluene	<23.5	ug/kg	96.3	23.5	1	12/11/18 16:21	12/12/18 04:46	108-88-3	
Trichloroethene	<14.8	ug/kg	96.3	14.8	1	12/11/18 16:21	12/12/18 04:46	79-01-6	
Trichlorofluoromethane	<168	ug/kg	385	168	1	12/11/18 16:21	12/12/18 04:46	75-69-4	
Vinyl chloride	<18.9	ug/kg	96.3	18.9	1	12/11/18 16:21	12/12/18 04:46	75-01-4	
Xylene (Total)	<22.3	ug/kg	289	22.3	1	12/11/18 16:21	12/12/18 04:46	1330-20-7	
cis-1,2-Dichloroethene	<16.0	ug/kg	96.3	16.0	1	12/11/18 16:21	12/12/18 04:46	156-59-2	
cis-1,3-Dichloropropene	<13.8	ug/kg	96.3	13.8	1	12/11/18 16:21	12/12/18 04:46	10061-01-5	
n-Butylbenzene	<45.8	ug/kg	96.3	45.8	1	12/11/18 16:21	12/12/18 04:46	104-51-8	
n-Propylbenzene	<5.1	ug/kg	96.3	5.1	1	12/11/18 16:21	12/12/18 04:46	103-65-1	
p-Isopropyltoluene	<29.3	ug/kg	96.3	29.3	1	12/11/18 16:21	12/12/18 04:46	99-87-6	
sec-Butylbenzene	<18.4	ug/kg	96.3	18.4	1	12/11/18 16:21	12/12/18 04:46	135-98-8	
tert-Butylbenzene	<18.5	ug/kg	96.3	18.5	1	12/11/18 16:21	12/12/18 04:46	98-06-6	
trans-1,2-Dichloroethene	<45.1	ug/kg	96.3	45.1	1	12/11/18 16:21	12/12/18 04:46	156-60-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-22 (2.0-4.0)**      **Lab ID: 10457092044**      Collected: 11/28/18 14:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,3-Dichloropropene	<13.4	ug/kg	96.3	13.4	1	12/11/18 16:21	12/12/18 04:46	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/11/18 16:21	12/12/18 04:46	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 16:21	12/12/18 04:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/11/18 16:21	12/12/18 04:46	460-00-4	

**Sample: DP-23 (0.0-1.5)**      **Lab ID: 10457092045**      Collected: 11/28/18 15:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.5	ug/kg	41.5	11.5	1	12/04/18 14:03	12/06/18 08:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.6	ug/kg	41.5	14.6	1	12/04/18 14:03	12/06/18 08:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.6	ug/kg	41.5	16.6	1	12/04/18 14:03	12/06/18 08:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.1	ug/kg	41.5	14.1	1	12/04/18 14:03	12/06/18 08:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.4	ug/kg	41.5	12.4	1	12/04/18 14:03	12/06/18 08:26	12672-29-6	
PCB-1254 (Aroclor 1254)	425	ug/kg	41.5	12.2	1	12/04/18 14:03	12/06/18 08:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.9	ug/kg	41.5	9.9	1	12/04/18 14:03	12/06/18 08:26	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	67	%	48-125		1	12/04/18 14:03	12/06/18 08:26	877-09-8	
Decachlorobiphenyl (S)	76	%	30-134		1	12/04/18 14:03	12/06/18 08:26	2051-24-3	

**NWTPH-Dx GCS**

Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550

Diesel Fuel Range	2510	mg/kg	190	30.8	10	12/03/18 14:49	12/10/18 16:34	68334-30-5	
Motor Oil Range	1670	mg/kg	127	54.9	10	12/03/18 14:49	12/10/18 16:34		
<b>Surrogates</b>									
n-Triacontane (S)	0	%	50-150		10	12/03/18 14:49	12/10/18 16:34	638-68-6	S4
o-Terphenyl (S)	0	%	50-150		10	12/03/18 14:49	12/10/18 16:34	84-15-1	S4

**NWTPH-Gx GCV**

Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx

TPH as Gas	<1.1	mg/kg	8.4	1.1	1	12/11/18 14:06	12/12/18 22:59		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/11/18 14:06	12/12/18 22:59	98-08-8	

**6010D MET ICP**

Analytical Method: EPA 6010D    Preparation Method: EPA 3050

Antimony	<0.47	mg/kg	1.3	0.47	1	12/06/18 12:12	12/10/18 15:12	7440-36-0	
Arsenic	2.3	mg/kg	1.3	0.26	1	12/06/18 12:12	12/10/18 15:12	7440-38-2	
Beryllium	<0.017	mg/kg	0.31	0.017	1	12/06/18 12:12	12/10/18 15:12	7440-41-7	
Cadmium	0.51	mg/kg	0.19	0.025	1	12/06/18 12:12	12/10/18 15:12	7440-43-9	
Chromium	8.0	mg/kg	0.63	0.11	1	12/06/18 12:12	12/10/18 15:12	7440-47-3	
Copper	58.6	mg/kg	0.63	0.070	1	12/06/18 12:12	12/10/18 15:12	7440-50-8	
Lead	71.1	mg/kg	0.63	0.14	1	12/06/18 12:12	12/10/18 15:12	7439-92-1	
Nickel	6.9	mg/kg	1.3	0.079	1	12/06/18 12:12	12/10/18 15:12	7440-02-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (0.0-1.5)**      **Lab ID: 10457092045**      Collected: 11/28/18 15:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Selenium	<0.41	mg/kg	1.3	0.41	1	12/06/18 12:12	12/10/18 15:12	7782-49-2	
Silver	<0.045	mg/kg	0.63	0.045	1	12/06/18 12:12	12/10/18 15:12	7440-22-4	
Thallium	0.37J	mg/kg	1.3	0.29	1	12/06/18 12:12	12/10/18 15:12	7440-28-0	
Zinc	148	mg/kg	1.3	0.55	1	12/06/18 12:12	12/10/18 15:12	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.057	mg/kg	0.021	0.0085	1	12/06/18 12:13	12/12/18 12:19	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.0	%	0.10	0.10	1		12/11/18 16:07		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<3.4	ug/kg	63.1	3.4	5	12/06/18 10:37	12/12/18 20:42	90-12-0	
2-Methylnaphthalene	<3.2	ug/kg	63.1	3.2	5	12/06/18 10:37	12/12/18 20:42	91-57-6	
Acenaphthene	41.9J	ug/kg	63.1	2.6	5	12/06/18 10:37	12/12/18 20:42	83-32-9	
Acenaphthylene	<3.1	ug/kg	63.1	3.1	5	12/06/18 10:37	12/12/18 20:42	208-96-8	
Anthracene	175	ug/kg	63.1	3.0	5	12/06/18 10:37	12/12/18 20:42	120-12-7	
Benzo(a)anthracene	200	ug/kg	63.1	6.8	5	12/06/18 10:37	12/12/18 20:42	56-55-3	
Benzo(a)pyrene	122	ug/kg	63.1	4.3	5	12/06/18 10:37	12/12/18 20:42	50-32-8	
Benzo(b)fluoranthene	190	ug/kg	63.1	2.4	5	12/06/18 10:37	12/12/18 20:42	205-99-2	
Benzo(g,h,i)perylene	95.3	ug/kg	63.1	4.0	5	12/06/18 10:37	12/12/18 20:42	191-24-2	
Benzo(k)fluoranthene	76.7	ug/kg	63.1	5.3	5	12/06/18 10:37	12/12/18 20:42	207-08-9	
Chrysene	227	ug/kg	63.1	8.6	5	12/06/18 10:37	12/12/18 20:42	218-01-9	
Dibenz(a,h)anthracene	17.5J	ug/kg	63.1	2.9	5	12/06/18 10:37	12/12/18 20:42	53-70-3	
Fluoranthene	601	ug/kg	63.1	2.7	5	12/06/18 10:37	12/12/18 20:42	206-44-0	
Fluorene	44.0J	ug/kg	63.1	2.0	5	12/06/18 10:37	12/12/18 20:42	86-73-7	
Indeno(1,2,3-cd)pyrene	72.2	ug/kg	63.1	4.2	5	12/06/18 10:37	12/12/18 20:42	193-39-5	
Naphthalene	6.1J	ug/kg	63.1	4.9	5	12/06/18 10:37	12/12/18 20:42	91-20-3	
Phenanthrene	456	ug/kg	63.1	12.1	5	12/06/18 10:37	12/12/18 20:42	85-01-8	
Pyrene	549	ug/kg	63.1	9.7	5	12/06/18 10:37	12/12/18 20:42	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	42-125		5	12/06/18 10:37	12/12/18 20:42	321-60-8	D3
p-Terphenyl-d14 (S)	75	%	57-125		5	12/06/18 10:37	12/12/18 20:42	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.7	0.26	1	03/01/19 09:00	03/01/19 17:16	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.3	4.3	1	03/01/19 09:00	03/01/19 17:16	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/01/19 09:00	03/01/19 17:16	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 17:16	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/01/19 09:00	03/01/19 17:16	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<29.7	ug/kg	94.5	29.7	1	12/11/18 16:21	12/12/18 00:29	630-20-6	R1
1,1,1-Trichloroethane	<44.0	ug/kg	94.5	44.0	1	12/11/18 16:21	12/12/18 00:29	71-55-6	R1

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (0.0-1.5)**      **Lab ID: 10457092045**      Collected: 11/28/18 15:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	94.5	16.6	1	12/11/18 16:21	12/12/18 00:29	79-34-5	R1
1,1,2-Trichloroethane	<11.3	ug/kg	94.5	11.3	1	12/11/18 16:21	12/12/18 00:29	79-00-5	R1
1,1,2-Trichlorotrifluoroethane	<110	ug/kg	378	110	1	12/11/18 16:21	12/12/18 00:29	76-13-1	
1,1-Dichloroethane	<10.6	ug/kg	94.5	10.6	1	12/11/18 16:21	12/12/18 00:29	75-34-3	R1
1,1-Dichloroethene	<28.3	ug/kg	94.5	28.3	1	12/11/18 16:21	12/12/18 00:29	75-35-4	
1,1-Dichloropropene	<43.6	ug/kg	378	43.6	1	12/11/18 16:21	12/12/18 00:29	563-58-6	
1,2,3-Trichlorobenzene	<15.1	ug/kg	94.5	15.1	1	12/11/18 16:21	12/12/18 00:29	87-61-6	R1
1,2,3-Trichloropropane	<24.7	ug/kg	378	24.7	1	12/11/18 16:21	12/12/18 00:29	96-18-4	
1,2,4-Trichlorobenzene	<21.0	ug/kg	94.5	21.0	1	12/11/18 16:21	12/12/18 00:29	120-82-1	R1
1,2,4-Trimethylbenzene	<18.9	ug/kg	94.5	18.9	1	12/11/18 16:21	12/12/18 00:29	95-63-6	R1
1,2-Dibromo-3-chloropropane	<329	ug/kg	945	329	1	12/11/18 16:21	12/12/18 00:29	96-12-8	R1
1,2-Dibromoethane (EDB)	<9.9	ug/kg	94.5	9.9	1	12/11/18 16:21	12/12/18 00:29	106-93-4	R1
1,2-Dichlorobenzene	<3.8	ug/kg	94.5	3.8	1	12/11/18 16:21	12/12/18 00:29	95-50-1	R1
1,2-Dichloroethane	<10.4	ug/kg	94.5	10.4	1	12/11/18 16:21	12/12/18 00:29	107-06-2	R1
1,2-Dichloropropane	<16.3	ug/kg	94.5	16.3	1	12/11/18 16:21	12/12/18 00:29	78-87-5	R1
1,3,5-Trimethylbenzene	<15.1	ug/kg	94.5	15.1	1	12/11/18 16:21	12/12/18 00:29	108-67-8	R1
1,3-Dichlorobenzene	<3.4	ug/kg	94.5	3.4	1	12/11/18 16:21	12/12/18 00:29	541-73-1	R1
1,3-Dichloropropane	<13.1	ug/kg	94.5	13.1	1	12/11/18 16:21	12/12/18 00:29	142-28-9	R1
1,4-Dichlorobenzene	<5.9	ug/kg	94.5	5.9	1	12/11/18 16:21	12/12/18 00:29	106-46-7	R1
2,2-Dichloropropane	<11.8	ug/kg	378	11.8	1	12/11/18 16:21	12/12/18 00:29	594-20-7	
2-Butanone (MEK)	<50.3	ug/kg	472	50.3	1	12/11/18 16:21	12/12/18 00:29	78-93-3	R1
2-Chlorotoluene	<4.6	ug/kg	94.5	4.6	1	12/11/18 16:21	12/12/18 00:29	95-49-8	
4-Chlorotoluene	<4.8	ug/kg	94.5	4.8	1	12/11/18 16:21	12/12/18 00:29	106-43-4	R1
4-Methyl-2-pentanone (MIBK)	<19.6	ug/kg	472	19.6	1	12/11/18 16:21	12/12/18 00:29	108-10-1	R1
Acetone	<588	ug/kg	1890	588	1	12/11/18 16:21	12/12/18 00:29	67-64-1	R1
Allyl chloride	<79.2	ug/kg	378	79.2	1	12/11/18 16:21	12/12/18 00:29	107-05-1	R1
Benzene	<5.3	ug/kg	37.8	5.3	1	12/11/18 16:21	12/12/18 00:29	71-43-2	R1
Bromobenzene	<5.8	ug/kg	94.5	5.8	1	12/11/18 16:21	12/12/18 00:29	108-86-1	R1
Bromochloromethane	<32.7	ug/kg	94.5	32.7	1	12/11/18 16:21	12/12/18 00:29	74-97-5	R1
Bromodichloromethane	<32.3	ug/kg	94.5	32.3	1	12/11/18 16:21	12/12/18 00:29	75-27-4	R1
Bromoform	<143	ug/kg	378	143	1	12/11/18 16:21	12/12/18 00:29	75-25-2	R1
Bromomethane	<111	ug/kg	945	111	1	12/11/18 16:21	12/12/18 00:29	74-83-9	
Carbon tetrachloride	<45.2	ug/kg	378	45.2	1	12/11/18 16:21	12/12/18 00:29	56-23-5	
Chlorobenzene	<5.3	ug/kg	94.5	5.3	1	12/11/18 16:21	12/12/18 00:29	108-90-7	R1
Chloroethane	<49.1	ug/kg	945	49.1	1	12/11/18 16:21	12/12/18 00:29	75-00-3	CH,R1, SS
Chloroform	<47.2	ug/kg	94.5	47.2	1	12/11/18 16:21	12/12/18 00:29	67-66-3	R1
Chloromethane	<22.7	ug/kg	378	22.7	1	12/11/18 16:21	12/12/18 00:29	74-87-3	
Dibromochloromethane	<11.0	ug/kg	378	11.0	1	12/11/18 16:21	12/12/18 00:29	124-48-1	
Dibromomethane	<17.3	ug/kg	94.5	17.3	1	12/11/18 16:21	12/12/18 00:29	74-95-3	R1
Dichlorodifluoromethane	<30.6	ug/kg	378	30.6	1	12/11/18 16:21	12/12/18 00:29	75-71-8	
Dichlorofluoromethane	<131	ug/kg	945	131	1	12/11/18 16:21	12/12/18 00:29	75-43-4	N2
Diethyl ether (Ethyl ether)	<57.8	ug/kg	378	57.8	1	12/11/18 16:21	12/12/18 00:29	60-29-7	R1
Ethylbenzene	<5.1	ug/kg	94.5	5.1	1	12/11/18 16:21	12/12/18 00:29	100-41-4	R1
Hexachloro-1,3-butadiene	<23.0	ug/kg	472	23.0	1	12/11/18 16:21	12/12/18 00:29	87-68-3	R1

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (0.0-1.5)**      **Lab ID: 10457092045**      Collected: 11/28/18 15:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Isopropylbenzene (Cumene)	<4.2	ug/kg	94.5	4.2	1	12/11/18 16:21	12/12/18 00:29	98-82-8	R1
Methyl-tert-butyl ether	<11.2	ug/kg	94.5	11.2	1	12/11/18 16:21	12/12/18 00:29	1634-04-4	R1
Methylene Chloride	<178	ug/kg	378	178	1	12/11/18 16:21	12/12/18 00:29	75-09-2	R1
Naphthalene	<88.4	ug/kg	378	88.4	1	12/11/18 16:21	12/12/18 00:29	91-20-3	R1
Styrene	<4.3	ug/kg	94.5	4.3	1	12/11/18 16:21	12/12/18 00:29	100-42-5	R1
Tetrachloroethene	<33.3	ug/kg	94.5	33.3	1	12/11/18 16:21	12/12/18 00:29	127-18-4	R1
Tetrahydrofuran	<137	ug/kg	3780	137	1	12/11/18 16:21	12/12/18 00:29	109-99-9	R1
Toluene	<23.0	ug/kg	94.5	23.0	1	12/11/18 16:21	12/12/18 00:29	108-88-3	R1
Trichloroethene	<14.6	ug/kg	94.5	14.6	1	12/11/18 16:21	12/12/18 00:29	79-01-6	
Trichlorofluoromethane	<165	ug/kg	378	165	1	12/11/18 16:21	12/12/18 00:29	75-69-4	
Vinyl chloride	<18.6	ug/kg	94.5	18.6	1	12/11/18 16:21	12/12/18 00:29	75-01-4	
Xylene (Total)	<21.9	ug/kg	283	21.9	1	12/11/18 16:21	12/12/18 00:29	1330-20-7	RS
cis-1,2-Dichloroethene	<15.7	ug/kg	94.5	15.7	1	12/11/18 16:21	12/12/18 00:29	156-59-2	R1
cis-1,3-Dichloropropene	<13.5	ug/kg	94.5	13.5	1	12/11/18 16:21	12/12/18 00:29	10061-01-5	R1
n-Butylbenzene	<45.0	ug/kg	94.5	45.0	1	12/11/18 16:21	12/12/18 00:29	104-51-8	R1
n-Propylbenzene	<5.0	ug/kg	94.5	5.0	1	12/11/18 16:21	12/12/18 00:29	103-65-1	R1
p-Isopropyltoluene	<28.7	ug/kg	94.5	28.7	1	12/11/18 16:21	12/12/18 00:29	99-87-6	R1
sec-Butylbenzene	<18.1	ug/kg	94.5	18.1	1	12/11/18 16:21	12/12/18 00:29	135-98-8	R1
tert-Butylbenzene	<18.1	ug/kg	94.5	18.1	1	12/11/18 16:21	12/12/18 00:29	98-06-6	R1
trans-1,2-Dichloroethene	<44.2	ug/kg	94.5	44.2	1	12/11/18 16:21	12/12/18 00:29	156-60-5	R1
trans-1,3-Dichloropropene	<13.1	ug/kg	94.5	13.1	1	12/11/18 16:21	12/12/18 00:29	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	12/11/18 16:21	12/12/18 00:29	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/11/18 16:21	12/12/18 00:29	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/11/18 16:21	12/12/18 00:29	460-00-4	

**Sample: DP-23 (1.5-3.0)**      **Lab ID: 10457092046**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.7	11.9	1	12/04/18 14:03	12/06/18 08:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.7	15.0	1	12/04/18 14:03	12/06/18 08:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.7	17.1	1	12/04/18 14:03	12/06/18 08:42	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.7	14.5	1	12/04/18 14:03	12/06/18 08:42	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.7	12.8	1	12/04/18 14:03	12/06/18 08:42	12672-29-6	
PCB-1254 (Aroclor 1254)	625	ug/kg	42.7	12.6	1	12/04/18 14:03	12/06/18 08:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.7	10.2	1	12/04/18 14:03	12/06/18 08:42	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	70	%	48-125		1	12/04/18 14:03	12/06/18 08:42	877-09-8	
Decachlorobiphenyl (S)	77	%	30-134		1	12/04/18 14:03	12/06/18 08:42	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-23 (1.5-3.0)**      **Lab ID: 10457092046**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>115</b>	mg/kg	19.3	3.1	1	12/03/18 14:49	12/10/18 17:50	68334-30-5	
Motor Oil Range	<b>126</b>	mg/kg	12.9	5.6	1	12/03/18 14:49	12/10/18 17:50		
<b>Surrogates</b>									
n-Triacontane (S)	102	%	50-150		1	12/03/18 14:49	12/10/18 17:50	638-68-6	
o-Terphenyl (S)	119	%	50-150		1	12/03/18 14:49	12/10/18 17:50	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.97</b>	mg/kg	7.4	0.97	1	12/11/18 12:55	12/11/18 23:40		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	97	%	50-150		1	12/11/18 12:55	12/11/18 23:40	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.4</b>	mg/kg	6.3	2.4	5	12/06/18 12:12	12/11/18 12:04	7440-36-0	D3
Arsenic	<b>2.0J</b>	mg/kg	6.3	1.3	5	12/06/18 12:12	12/11/18 12:04	7440-38-2	D3
Beryllium	<b>&lt;0.085</b>	mg/kg	1.6	0.085	5	12/06/18 12:12	12/11/18 12:04	7440-41-7	D3
Cadmium	<b>1.4</b>	mg/kg	0.95	0.13	5	12/06/18 12:12	12/11/18 12:04	7440-43-9	
Chromium	<b>23.1</b>	mg/kg	3.2	0.54	5	12/06/18 12:12	12/11/18 12:04	7440-47-3	
Copper	<b>473</b>	mg/kg	3.2	0.35	5	12/06/18 12:12	12/11/18 12:04	7440-50-8	
Lead	<b>91.8</b>	mg/kg	3.2	0.71	5	12/06/18 12:12	12/11/18 12:04	7439-92-1	
Nickel	<b>15.7</b>	mg/kg	6.3	0.40	5	12/06/18 12:12	12/11/18 12:04	7440-02-0	
Selenium	<b>&lt;2.1</b>	mg/kg	6.3	2.1	5	12/06/18 12:12	12/11/18 12:04	7782-49-2	D3
Silver	<b>&lt;0.23</b>	mg/kg	3.2	0.23	5	12/06/18 12:12	12/11/18 12:04	7440-22-4	D3
Thallium	<b>1.8J</b>	mg/kg	6.3	1.5	5	12/06/18 12:12	12/11/18 12:04	7440-28-0	D3
Zinc	<b>568</b>	mg/kg	6.3	2.8	5	12/06/18 12:12	12/11/18 12:04	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3050									
Thallium	<b>0.11J</b>	mg/kg	0.12	0.042	20	12/05/19 07:35	12/05/19 23:46	7440-28-0	H1,H2
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.026</b>	mg/kg	0.026	0.010	1	12/06/18 12:13	12/12/18 12:22	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>23.0</b>	%	0.10	0.10	1		12/11/18 16:07		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;13.8</b>	ug/kg	259	13.8	20	12/06/18 10:37	12/12/18 21:02	90-12-0	
2-Methylnaphthalene	<b>&lt;13.1</b>	ug/kg	259	13.1	20	12/06/18 10:37	12/12/18 21:02	91-57-6	
Acenaphthene	<b>452</b>	ug/kg	259	10.6	20	12/06/18 10:37	12/12/18 21:02	83-32-9	
Acenaphthylene	<b>&lt;12.8</b>	ug/kg	259	12.8	20	12/06/18 10:37	12/12/18 21:02	208-96-8	
Anthracene	<b>1910</b>	ug/kg	259	12.1	20	12/06/18 10:37	12/12/18 21:02	120-12-7	
Benzo(a)anthracene	<b>1910</b>	ug/kg	259	27.9	20	12/06/18 10:37	12/12/18 21:02	56-55-3	
Benzo(a)pyrene	<b>1070</b>	ug/kg	259	17.8	20	12/06/18 10:37	12/12/18 21:02	50-32-8	
Benzo(b)fluoranthene	<b>1640</b>	ug/kg	259	9.6	20	12/06/18 10:37	12/12/18 21:02	205-99-2	
Benzo(g,h,i)perylene	<b>636</b>	ug/kg	259	16.4	20	12/06/18 10:37	12/12/18 21:02	191-24-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (1.5-3.0)**      **Lab ID: 10457092046**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(k)fluoranthene	856	ug/kg	259	21.9	20	12/06/18 10:37	12/12/18 21:02	207-08-9	
Chrysene	1860	ug/kg	259	35.2	20	12/06/18 10:37	12/12/18 21:02	218-01-9	
Dibenz(a,h)anthracene	145J	ug/kg	259	11.9	20	12/06/18 10:37	12/12/18 21:02	53-70-3	
Fluoranthene	5430	ug/kg	259	11.1	20	12/06/18 10:37	12/12/18 21:02	206-44-0	
Fluorene	472	ug/kg	259	8.1	20	12/06/18 10:37	12/12/18 21:02	86-73-7	
Indeno(1,2,3-cd)pyrene	595	ug/kg	259	17.3	20	12/06/18 10:37	12/12/18 21:02	193-39-5	
Naphthalene	27.9J	ug/kg	259	19.9	20	12/06/18 10:37	12/12/18 21:02	91-20-3	
Phenanthrene	4800	ug/kg	259	49.7	20	12/06/18 10:37	12/12/18 21:02	85-01-8	
Pyrene	4790	ug/kg	259	39.6	20	12/06/18 10:37	12/12/18 21:02	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	0	%	42-125		20	12/06/18 10:37	12/12/18 21:02	321-60-8	D3,S4
p-Terphenyl-d14 (S)	0	%	57-125		20	12/06/18 10:37	12/12/18 21:02	1718-51-0	S4
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/01/19 09:00	03/01/19 17:35	106-93-4	
Methylene Chloride	<4.8	ug/kg	25.9	4.8	1	03/01/19 09:00	03/01/19 17:35	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/01/19 09:00	03/01/19 17:35	17060-07-0	4M,H3
Toluene-d8 (S)	101	%	75-125		1	03/01/19 09:00	03/01/19 17:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 17:35	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.4	ug/kg	81.0	25.4	1	12/11/18 16:21	12/12/18 05:08	630-20-6	
1,1,1-Trichloroethane	<37.8	ug/kg	81.0	37.8	1	12/11/18 16:21	12/12/18 05:08	71-55-6	
1,1,1,2,2-Tetrachloroethane	<14.3	ug/kg	81.0	14.3	1	12/11/18 16:21	12/12/18 05:08	79-34-5	
1,1,2-Trichloroethane	<9.7	ug/kg	81.0	9.7	1	12/11/18 16:21	12/12/18 05:08	79-00-5	
1,1,2-Trichlorotrifluoroethane	<94.0	ug/kg	324	94.0	1	12/11/18 16:21	12/12/18 05:08	76-13-1	
1,1-Dichloroethane	<9.1	ug/kg	81.0	9.1	1	12/11/18 16:21	12/12/18 05:08	75-34-3	
1,1-Dichloroethene	<24.3	ug/kg	81.0	24.3	1	12/11/18 16:21	12/12/18 05:08	75-35-4	
1,1-Dichloropropene	<37.4	ug/kg	324	37.4	1	12/11/18 16:21	12/12/18 05:08	563-58-6	
1,2,3-Trichlorobenzene	<12.9	ug/kg	81.0	12.9	1	12/11/18 16:21	12/12/18 05:08	87-61-6	
1,2,3-Trichloropropane	<21.2	ug/kg	324	21.2	1	12/11/18 16:21	12/12/18 05:08	96-18-4	
1,2,4-Trichlorobenzene	<18.0	ug/kg	81.0	18.0	1	12/11/18 16:21	12/12/18 05:08	120-82-1	
1,2,4-Trimethylbenzene	<16.2	ug/kg	81.0	16.2	1	12/11/18 16:21	12/12/18 05:08	95-63-6	
1,2-Dibromo-3-chloropropane	<282	ug/kg	810	282	1	12/11/18 16:21	12/12/18 05:08	96-12-8	
1,2-Dibromoethane (EDB)	<8.5	ug/kg	81.0	8.5	1	12/11/18 16:21	12/12/18 05:08	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	81.0	3.3	1	12/11/18 16:21	12/12/18 05:08	95-50-1	
1,2-Dichloroethane	<8.9	ug/kg	81.0	8.9	1	12/11/18 16:21	12/12/18 05:08	107-06-2	
1,2-Dichloropropane	<14.0	ug/kg	81.0	14.0	1	12/11/18 16:21	12/12/18 05:08	78-87-5	
1,3,5-Trimethylbenzene	<12.9	ug/kg	81.0	12.9	1	12/11/18 16:21	12/12/18 05:08	108-67-8	
1,3-Dichlorobenzene	<2.9	ug/kg	81.0	2.9	1	12/11/18 16:21	12/12/18 05:08	541-73-1	
1,3-Dichloropropane	<11.2	ug/kg	81.0	11.2	1	12/11/18 16:21	12/12/18 05:08	142-28-9	
1,4-Dichlorobenzene	<5.0	ug/kg	81.0	5.0	1	12/11/18 16:21	12/12/18 05:08	106-46-7	
2,2-Dichloropropane	<10.1	ug/kg	324	10.1	1	12/11/18 16:21	12/12/18 05:08	594-20-7	
2-Butanone (MEK)	<43.1	ug/kg	405	43.1	1	12/11/18 16:21	12/12/18 05:08	78-93-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (1.5-3.0)**      **Lab ID: 10457092046**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Chlorotoluene	<4.0	ug/kg	81.0	4.0	1	12/11/18 16:21	12/12/18 05:08	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	81.0	4.1	1	12/11/18 16:21	12/12/18 05:08	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.9	ug/kg	405	16.9	1	12/11/18 16:21	12/12/18 05:08	108-10-1	
Acetone	<504	ug/kg	1620	504	1	12/11/18 16:21	12/12/18 05:08	67-64-1	
Allyl chloride	<67.9	ug/kg	324	67.9	1	12/11/18 16:21	12/12/18 05:08	107-05-1	
Benzene	<4.6	ug/kg	32.4	4.6	1	12/11/18 16:21	12/12/18 05:08	71-43-2	
Bromobenzene	<5.0	ug/kg	81.0	5.0	1	12/11/18 16:21	12/12/18 05:08	108-86-1	
Bromochloromethane	<28.0	ug/kg	81.0	28.0	1	12/11/18 16:21	12/12/18 05:08	74-97-5	
Bromodichloromethane	<27.7	ug/kg	81.0	27.7	1	12/11/18 16:21	12/12/18 05:08	75-27-4	
Bromoform	<123	ug/kg	324	123	1	12/11/18 16:21	12/12/18 05:08	75-25-2	
Bromomethane	<94.8	ug/kg	810	94.8	1	12/11/18 16:21	12/12/18 05:08	74-83-9	
Carbon tetrachloride	<38.7	ug/kg	324	38.7	1	12/11/18 16:21	12/12/18 05:08	56-23-5	
Chlorobenzene	<4.6	ug/kg	81.0	4.6	1	12/11/18 16:21	12/12/18 05:08	108-90-7	
Chloroethane	<42.1	ug/kg	810	42.1	1	12/11/18 16:21	12/12/18 05:08	75-00-3	
Chloroform	<40.5	ug/kg	81.0	40.5	1	12/11/18 16:21	12/12/18 05:08	67-66-3	
Chloromethane	<19.4	ug/kg	324	19.4	1	12/11/18 16:21	12/12/18 05:08	74-87-3	
Dibromochloromethane	<9.4	ug/kg	324	9.4	1	12/11/18 16:21	12/12/18 05:08	124-48-1	
Dibromomethane	<14.9	ug/kg	81.0	14.9	1	12/11/18 16:21	12/12/18 05:08	74-95-3	
Dichlorodifluoromethane	<26.2	ug/kg	324	26.2	1	12/11/18 16:21	12/12/18 05:08	75-71-8	
Dichlorofluoromethane	<112	ug/kg	810	112	1	12/11/18 16:21	12/12/18 05:08	75-43-4	N2
Diethyl ether (Ethyl ether)	<49.6	ug/kg	324	49.6	1	12/11/18 16:21	12/12/18 05:08	60-29-7	
Ethylbenzene	<4.4	ug/kg	81.0	4.4	1	12/11/18 16:21	12/12/18 05:08	100-41-4	
Hexachloro-1,3-butadiene	<19.8	ug/kg	405	19.8	1	12/11/18 16:21	12/12/18 05:08	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	81.0	3.6	1	12/11/18 16:21	12/12/18 05:08	98-82-8	
Methyl-tert-butyl ether	<9.6	ug/kg	81.0	9.6	1	12/11/18 16:21	12/12/18 05:08	1634-04-4	
Methylene Chloride	<152	ug/kg	324	152	1	12/11/18 16:21	12/12/18 05:08	75-09-2	
Naphthalene	<75.8	ug/kg	324	75.8	1	12/11/18 16:21	12/12/18 05:08	91-20-3	
Styrene	<3.7	ug/kg	81.0	3.7	1	12/11/18 16:21	12/12/18 05:08	100-42-5	
Tetrachloroethene	<28.5	ug/kg	81.0	28.5	1	12/11/18 16:21	12/12/18 05:08	127-18-4	
Tetrahydrofuran	<118	ug/kg	3240	118	1	12/11/18 16:21	12/12/18 05:08	109-99-9	
Toluene	<19.8	ug/kg	81.0	19.8	1	12/11/18 16:21	12/12/18 05:08	108-88-3	
Trichloroethene	<12.5	ug/kg	81.0	12.5	1	12/11/18 16:21	12/12/18 05:08	79-01-6	
Trichlorofluoromethane	<141	ug/kg	324	141	1	12/11/18 16:21	12/12/18 05:08	75-69-4	
Vinyl chloride	<15.9	ug/kg	81.0	15.9	1	12/11/18 16:21	12/12/18 05:08	75-01-4	
Xylene (Total)	<18.8	ug/kg	243	18.8	1	12/11/18 16:21	12/12/18 05:08	1330-20-7	
cis-1,2-Dichloroethene	<13.4	ug/kg	81.0	13.4	1	12/11/18 16:21	12/12/18 05:08	156-59-2	
cis-1,3-Dichloropropene	<11.6	ug/kg	81.0	11.6	1	12/11/18 16:21	12/12/18 05:08	10061-01-5	
n-Butylbenzene	<38.6	ug/kg	81.0	38.6	1	12/11/18 16:21	12/12/18 05:08	104-51-8	
n-Propylbenzene	<4.3	ug/kg	81.0	4.3	1	12/11/18 16:21	12/12/18 05:08	103-65-1	
p-Isopropyltoluene	<24.6	ug/kg	81.0	24.6	1	12/11/18 16:21	12/12/18 05:08	99-87-6	
sec-Butylbenzene	<15.5	ug/kg	81.0	15.5	1	12/11/18 16:21	12/12/18 05:08	135-98-8	
tert-Butylbenzene	<15.6	ug/kg	81.0	15.6	1	12/11/18 16:21	12/12/18 05:08	98-06-6	
trans-1,2-Dichloroethene	<37.9	ug/kg	81.0	37.9	1	12/11/18 16:21	12/12/18 05:08	156-60-5	
trans-1,3-Dichloropropene	<11.3	ug/kg	81.0	11.3	1	12/11/18 16:21	12/12/18 05:08	10061-02-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-23 (1.5-3.0) Lab ID: 10457092046** Collected: 11/28/18 15:20 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	12/11/18 16:21	12/12/18 05:08	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 16:21	12/12/18 05:08	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/11/18 16:21	12/12/18 05:08	460-00-4	

**Sample: DP-24 (0.0-1.5) Lab ID: 10457092047** Collected: 11/29/18 08:30 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<10.9	ug/kg	39.2	10.9	1	12/04/18 14:03	12/06/18 08:58	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.8	ug/kg	39.2	13.8	1	12/04/18 14:03	12/06/18 08:58	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.7	ug/kg	39.2	15.7	1	12/04/18 14:03	12/06/18 08:58	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.3	ug/kg	39.2	13.3	1	12/04/18 14:03	12/06/18 08:58	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.8	ug/kg	39.2	11.8	1	12/04/18 14:03	12/06/18 08:58	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.5	ug/kg	39.2	11.5	1	12/04/18 14:03	12/06/18 08:58	11097-69-1	
PCB-1260 (Aroclor 1260)	58.0	ug/kg	39.2	9.4	1	12/04/18 14:03	12/06/18 08:58	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	48-125		1	12/04/18 14:03	12/06/18 08:58	877-09-8	
Decachlorobiphenyl (S)	107	%	30-134		1	12/04/18 14:03	12/06/18 08:58	2051-24-3	

**NWTPH-Dx GCS** Analytical Method: NWTPH-Dx Preparation Method: EPA 3550

Diesel Fuel Range	14.5J	mg/kg	17.9	2.9	1	12/03/18 14:49	12/10/18 18:01	68334-30-5	
Motor Oil Range	48.5	mg/kg	11.9	5.2	1	12/03/18 14:49	12/10/18 18:01		
<b>Surrogates</b>									
n-Triacontane (S)	84	%	50-150		1	12/03/18 14:49	12/10/18 18:01	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/03/18 14:49	12/10/18 18:01	84-15-1	

**NWTPH-Gx GCV** Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx

TPH as Gas	<1.1	mg/kg	8.7	1.1	1	12/11/18 11:53	12/13/18 00:57		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	100	%	50-150		1	12/11/18 11:53	12/13/18 00:57	98-08-8	

**6010D MET ICP** Analytical Method: EPA 6010D Preparation Method: EPA 3050

Antimony	<0.45	mg/kg	1.2	0.45	1	12/06/18 12:12	12/10/18 15:15	7440-36-0	
Arsenic	1.6	mg/kg	1.2	0.24	1	12/06/18 12:12	12/10/18 15:15	7440-38-2	
Beryllium	<0.016	mg/kg	0.30	0.016	1	12/06/18 12:12	12/10/18 15:15	7440-41-7	
Cadmium	0.46	mg/kg	0.18	0.024	1	12/06/18 12:12	12/10/18 15:15	7440-43-9	
Chromium	7.2	mg/kg	0.59	0.10	1	12/06/18 12:12	12/10/18 15:15	7440-47-3	
Copper	65.0	mg/kg	0.59	0.066	1	12/06/18 12:12	12/10/18 15:15	7440-50-8	
Lead	37.0	mg/kg	0.59	0.13	1	12/06/18 12:12	12/10/18 15:15	7439-92-1	
Nickel	6.4	mg/kg	1.2	0.075	1	12/06/18 12:12	12/10/18 15:15	7440-02-0	
Selenium	<0.39	mg/kg	1.2	0.39	1	12/06/18 12:12	12/10/18 15:15	7782-49-2	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-24 (0.0-1.5)**      **Lab ID: 10457092047**      Collected: 11/29/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Silver	<0.043	mg/kg	0.59	0.043	1	12/06/18 12:12	12/10/18 15:15	7440-22-4	
Thallium	0.52J	mg/kg	1.2	0.27	1	12/06/18 12:12	12/10/18 15:15	7440-28-0	
Zinc	94.6	mg/kg	1.2	0.52	1	12/06/18 12:12	12/10/18 15:15	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.051	mg/kg	0.021	0.0082	1	12/06/18 12:13	12/12/18 12:29	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	16.4	%	0.10	0.10	1		12/11/18 16:07		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	1.1J	ug/kg	11.9	0.64	1	12/06/18 10:37	12/13/18 12:45	90-12-0	
2-Methylnaphthalene	1.6J	ug/kg	11.9	0.60	1	12/06/18 10:37	12/13/18 12:45	91-57-6	
Acenaphthene	11.5J	ug/kg	11.9	0.49	1	12/06/18 10:37	12/13/18 12:45	83-32-9	
Acenaphthylene	17.2	ug/kg	11.9	0.59	1	12/06/18 10:37	12/13/18 12:45	208-96-8	
Anthracene	59.1	ug/kg	11.9	0.56	1	12/06/18 10:37	12/13/18 12:45	120-12-7	
Benzo(a)anthracene	118	ug/kg	11.9	1.3	1	12/06/18 10:37	12/13/18 12:45	56-55-3	
Benzo(a)pyrene	83.9	ug/kg	11.9	0.82	1	12/06/18 10:37	12/13/18 12:45	50-32-8	
Benzo(b)fluoranthene	265	ug/kg	11.9	0.44	1	12/06/18 10:37	12/13/18 12:45	205-99-2	
Benzo(g,h,i)perylene	90.0	ug/kg	11.9	0.75	1	12/06/18 10:37	12/13/18 12:45	191-24-2	
Benzo(k)fluoranthene	93.9	ug/kg	11.9	1.0	1	12/06/18 10:37	12/13/18 12:45	207-08-9	
Chrysene	234	ug/kg	11.9	1.6	1	12/06/18 10:37	12/13/18 12:45	218-01-9	
Dibenz(a,h)anthracene	34.8	ug/kg	11.9	0.55	1	12/06/18 10:37	12/13/18 12:45	53-70-3	
Fluoranthene	372	ug/kg	11.9	0.51	1	12/06/18 10:37	12/13/18 12:45	206-44-0	
Fluorene	9.6J	ug/kg	11.9	0.37	1	12/06/18 10:37	12/13/18 12:45	86-73-7	
Indeno(1,2,3-cd)pyrene	80.7	ug/kg	11.9	0.80	1	12/06/18 10:37	12/13/18 12:45	193-39-5	
Naphthalene	1.6J	ug/kg	11.9	0.92	1	12/06/18 10:37	12/13/18 12:45	91-20-3	
Phenanthrene	183	ug/kg	11.9	2.3	1	12/06/18 10:37	12/13/18 12:45	85-01-8	
Pyrene	299	ug/kg	11.9	1.8	1	12/06/18 10:37	12/13/18 12:45	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	42-125		1	12/06/18 10:37	12/13/18 12:45	321-60-8	
p-Terphenyl-d14 (S)	65	%	57-125		1	12/06/18 10:37	12/13/18 12:45	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/01/19 09:00	03/01/19 17:54	106-93-4	
Methylene Chloride	<4.2	ug/kg	23.1	4.2	1	03/01/19 09:00	03/01/19 17:54	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/01/19 09:00	03/01/19 17:54	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 17:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 17:54	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<27.9	ug/kg	88.9	27.9	1	12/12/18 14:29	12/12/18 20:37	630-20-6	
1,1,1-Trichloroethane	<41.4	ug/kg	88.9	41.4	1	12/12/18 14:29	12/12/18 20:37	71-55-6	
1,1,2,2-Tetrachloroethane	<15.7	ug/kg	88.9	15.7	1	12/12/18 14:29	12/12/18 20:37	79-34-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-24 (0.0-1.5)**      **Lab ID: 10457092047**      Collected: 11/29/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2-Trichloroethane	<10.6	ug/kg	88.9	10.6	1	12/12/18 14:29	12/12/18 20:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	<103	ug/kg	356	103	1	12/12/18 14:29	12/12/18 20:37	76-13-1	
1,1-Dichloroethane	<10	ug/kg	88.9	10	1	12/12/18 14:29	12/12/18 20:37	75-34-3	
1,1-Dichloroethene	<26.7	ug/kg	88.9	26.7	1	12/12/18 14:29	12/12/18 20:37	75-35-4	
1,1-Dichloropropene	<41.1	ug/kg	88.9	41.1	1	12/12/18 14:29	12/12/18 20:37	563-58-6	
1,2,3-Trichlorobenzene	<14.2	ug/kg	88.9	14.2	1	12/12/18 14:29	12/12/18 20:37	87-61-6	
1,2,3-Trichloropropane	<23.3	ug/kg	356	23.3	1	12/12/18 14:29	12/12/18 20:37	96-18-4	
1,2,4-Trichlorobenzene	<19.7	ug/kg	88.9	19.7	1	12/12/18 14:29	12/12/18 20:37	120-82-1	
1,2,4-Trimethylbenzene	<17.8	ug/kg	88.9	17.8	1	12/12/18 14:29	12/12/18 20:37	95-63-6	
1,2-Dibromo-3-chloropropane	<309	ug/kg	889	309	1	12/12/18 14:29	12/12/18 20:37	96-12-8	
1,2-Dibromoethane (EDB)	<9.4	ug/kg	88.9	9.4	1	12/12/18 14:29	12/12/18 20:37	106-93-4	
1,2-Dichlorobenzene	<3.6	ug/kg	88.9	3.6	1	12/12/18 14:29	12/12/18 20:37	95-50-1	
1,2-Dichloroethane	<9.8	ug/kg	88.9	9.8	1	12/12/18 14:29	12/12/18 20:37	107-06-2	
1,2-Dichloropropane	<15.3	ug/kg	88.9	15.3	1	12/12/18 14:29	12/12/18 20:37	78-87-5	
1,3,5-Trimethylbenzene	<14.2	ug/kg	88.9	14.2	1	12/12/18 14:29	12/12/18 20:37	108-67-8	
1,3-Dichlorobenzene	<3.2	ug/kg	88.9	3.2	1	12/12/18 14:29	12/12/18 20:37	541-73-1	
1,3-Dichloropropane	<12.3	ug/kg	88.9	12.3	1	12/12/18 14:29	12/12/18 20:37	142-28-9	
1,4-Dichlorobenzene	<5.5	ug/kg	88.9	5.5	1	12/12/18 14:29	12/12/18 20:37	106-46-7	
2,2-Dichloropropane	<11.1	ug/kg	356	11.1	1	12/12/18 14:29	12/12/18 20:37	594-20-7	
2-Butanone (MEK)	<47.3	ug/kg	445	47.3	1	12/12/18 14:29	12/12/18 20:37	78-93-3	
2-Chlorotoluene	<4.4	ug/kg	88.9	4.4	1	12/12/18 14:29	12/12/18 20:37	95-49-8	
4-Chlorotoluene	<4.6	ug/kg	88.9	4.6	1	12/12/18 14:29	12/12/18 20:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	<18.5	ug/kg	445	18.5	1	12/12/18 14:29	12/12/18 20:37	108-10-1	
Acetone	<553	ug/kg	1780	553	1	12/12/18 14:29	12/12/18 20:37	67-64-1	
Allyl chloride	<74.5	ug/kg	356	74.5	1	12/12/18 14:29	12/12/18 20:37	107-05-1	
Benzene	<5.0	ug/kg	35.6	5.0	1	12/12/18 14:29	12/12/18 20:37	71-43-2	
Bromobenzene	<5.5	ug/kg	88.9	5.5	1	12/12/18 14:29	12/12/18 20:37	108-86-1	
Bromochloromethane	<30.8	ug/kg	88.9	30.8	1	12/12/18 14:29	12/12/18 20:37	74-97-5	
Bromodichloromethane	<30.4	ug/kg	88.9	30.4	1	12/12/18 14:29	12/12/18 20:37	75-27-4	
Bromoform	<135	ug/kg	356	135	1	12/12/18 14:29	12/12/18 20:37	75-25-2	
Bromomethane	<104	ug/kg	889	104	1	12/12/18 14:29	12/12/18 20:37	74-83-9	
Carbon tetrachloride	<42.5	ug/kg	356	42.5	1	12/12/18 14:29	12/12/18 20:37	56-23-5	
Chlorobenzene	<5.0	ug/kg	88.9	5.0	1	12/12/18 14:29	12/12/18 20:37	108-90-7	
Chloroethane	<46.2	ug/kg	889	46.2	1	12/12/18 14:29	12/12/18 20:37	75-00-3	
Chloroform	<44.5	ug/kg	88.9	44.5	1	12/12/18 14:29	12/12/18 20:37	67-66-3	
Chloromethane	<21.3	ug/kg	356	21.3	1	12/12/18 14:29	12/12/18 20:37	74-87-3	
Dibromochloromethane	<10.3	ug/kg	356	10.3	1	12/12/18 14:29	12/12/18 20:37	124-48-1	
Dibromomethane	<16.3	ug/kg	88.9	16.3	1	12/12/18 14:29	12/12/18 20:37	74-95-3	
Dichlorodifluoromethane	<28.8	ug/kg	356	28.8	1	12/12/18 14:29	12/12/18 20:37	75-71-8	
Dichlorofluoromethane	<123	ug/kg	889	123	1	12/12/18 14:29	12/12/18 20:37	75-43-4	N2
Diethyl ether (Ethyl ether)	<54.4	ug/kg	356	54.4	1	12/12/18 14:29	12/12/18 20:37	60-29-7	
Ethylbenzene	<4.8	ug/kg	88.9	4.8	1	12/12/18 14:29	12/12/18 20:37	100-41-4	
Hexachloro-1,3-butadiene	<21.7	ug/kg	445	21.7	1	12/12/18 14:29	12/12/18 20:37	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/kg	88.9	3.9	1	12/12/18 14:29	12/12/18 20:37	98-82-8	
Methyl-tert-butyl ether	<10.6	ug/kg	88.9	10.6	1	12/12/18 14:29	12/12/18 20:37	1634-04-4	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-24 (0.0-1.5)**      **Lab ID: 10457092047**      Collected: 11/29/18 08:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Methylene Chloride	<167	ug/kg	356	167	1	12/12/18 14:29	12/12/18 20:37	75-09-2	
Naphthalene	<83.2	ug/kg	356	83.2	1	12/12/18 14:29	12/12/18 20:37	91-20-3	
Styrene	<4.1	ug/kg	88.9	4.1	1	12/12/18 14:29	12/12/18 20:37	100-42-5	
Tetrachloroethene	<31.3	ug/kg	88.9	31.3	1	12/12/18 14:29	12/12/18 20:37	127-18-4	
Tetrahydrofuran	<129	ug/kg	3560	129	1	12/12/18 14:29	12/12/18 20:37	109-99-9	
Toluene	<21.7	ug/kg	88.9	21.7	1	12/12/18 14:29	12/12/18 20:37	108-88-3	
Trichloroethene	<13.7	ug/kg	88.9	13.7	1	12/12/18 14:29	12/12/18 20:37	79-01-6	
Trichlorofluoromethane	<155	ug/kg	356	155	1	12/12/18 14:29	12/12/18 20:37	75-69-4	
Vinyl chloride	<17.5	ug/kg	35.6	17.5	1	12/12/18 14:29	12/12/18 20:37	75-01-4	
Xylene (Total)	<20.6	ug/kg	267	20.6	1	12/12/18 14:29	12/12/18 20:37	1330-20-7	
cis-1,2-Dichloroethene	<14.7	ug/kg	88.9	14.7	1	12/12/18 14:29	12/12/18 20:37	156-59-2	
cis-1,3-Dichloropropene	<12.7	ug/kg	88.9	12.7	1	12/12/18 14:29	12/12/18 20:37	10061-01-5	
n-Butylbenzene	<42.3	ug/kg	88.9	42.3	1	12/12/18 14:29	12/12/18 20:37	104-51-8	
n-Propylbenzene	<4.7	ug/kg	88.9	4.7	1	12/12/18 14:29	12/12/18 20:37	103-65-1	
p-Isopropyltoluene	<27.0	ug/kg	88.9	27.0	1	12/12/18 14:29	12/12/18 20:37	99-87-6	
sec-Butylbenzene	<17.0	ug/kg	88.9	17.0	1	12/12/18 14:29	12/12/18 20:37	135-98-8	
tert-Butylbenzene	<17.1	ug/kg	88.9	17.1	1	12/12/18 14:29	12/12/18 20:37	98-06-6	
trans-1,2-Dichloroethene	<41.6	ug/kg	88.9	41.6	1	12/12/18 14:29	12/12/18 20:37	156-60-5	
trans-1,3-Dichloropropene	<12.4	ug/kg	88.9	12.4	1	12/12/18 14:29	12/12/18 20:37	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/12/18 14:29	12/12/18 20:37	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 20:37	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/12/18 14:29	12/12/18 20:37	460-00-4	

**Sample: DP-24 (1.5-3.0)**      **Lab ID: 10457092048**      Collected: 11/29/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.0	ug/kg	39.6	11.0	1	12/04/18 14:03	12/06/18 09:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.9	ug/kg	39.6	13.9	1	12/04/18 14:03	12/06/18 09:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.8	ug/kg	39.6	15.8	1	12/04/18 14:03	12/06/18 09:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.4	ug/kg	39.6	13.4	1	12/04/18 14:03	12/06/18 09:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.9	ug/kg	39.6	11.9	1	12/04/18 14:03	12/06/18 09:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.6	ug/kg	39.6	11.6	1	12/04/18 14:03	12/06/18 09:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.5	ug/kg	39.6	9.5	1	12/04/18 14:03	12/06/18 09:14	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/04/18 14:03	12/06/18 09:14	877-09-8	
Decachlorobiphenyl (S)	87	%	30-134		1	12/04/18 14:03	12/06/18 09:14	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	18.1	2.9	1	12/03/18 14:49	12/10/18 18:12	68334-30-5	
Motor Oil Range	6.7J	mg/kg	12.1	5.2	1	12/03/18 14:49	12/10/18 18:12		

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-24 (1.5-3.0)**      **Lab ID: 10457092048**      Collected: 11/29/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
<b>Surrogates</b>									
n-Triacontane (S)	75	%	50-150		1	12/03/18 14:49	12/10/18 18:12	638-68-6	
o-Terphenyl (S)	76	%	50-150		1	12/03/18 14:49	12/10/18 18:12	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;0.79</b>	mg/kg	6.0	0.79	1	12/11/18 11:53	12/13/18 01:13		3M
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 11:53	12/13/18 01:13	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.42</b>	mg/kg	1.1	0.42	1	12/06/18 12:12	12/10/18 15:17	7440-36-0	
Arsenic	<b>1.2</b>	mg/kg	1.1	0.23	1	12/06/18 12:12	12/10/18 15:17	7440-38-2	
Beryllium	<b>0.049J</b>	mg/kg	0.28	0.015	1	12/06/18 12:12	12/10/18 15:17	7440-41-7	
Cadmium	<b>0.060J</b>	mg/kg	0.17	0.022	1	12/06/18 12:12	12/10/18 15:17	7440-43-9	
Chromium	<b>6.0</b>	mg/kg	0.55	0.095	1	12/06/18 12:12	12/10/18 15:17	7440-47-3	
Copper	<b>21.1</b>	mg/kg	0.55	0.062	1	12/06/18 12:12	12/10/18 15:17	7440-50-8	
Lead	<b>79.4</b>	mg/kg	0.55	0.13	1	12/06/18 12:12	12/10/18 15:17	7439-92-1	
Nickel	<b>5.2</b>	mg/kg	1.1	0.070	1	12/06/18 12:12	12/10/18 15:17	7440-02-0	
Selenium	<b>&lt;0.36</b>	mg/kg	1.1	0.36	1	12/06/18 12:12	12/10/18 15:17	7782-49-2	
Silver	<b>&lt;0.040</b>	mg/kg	0.55	0.040	1	12/06/18 12:12	12/10/18 15:17	7440-22-4	
Thallium	<b>0.46J</b>	mg/kg	1.1	0.26	1	12/06/18 12:12	12/10/18 15:17	7440-28-0	
Zinc	<b>50.2</b>	mg/kg	1.1	0.49	1	12/06/18 12:12	12/10/18 15:17	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.0088J</b>	mg/kg	0.020	0.0081	1	12/06/18 12:13	12/12/18 12:31	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>17.3</b>	%	0.10	0.10	1		12/11/18 16:07		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.64</b>	ug/kg	12.0	0.64	1	12/06/18 10:37	12/13/18 13:06	90-12-0	
2-Methylnaphthalene	<b>&lt;0.61</b>	ug/kg	12.0	0.61	1	12/06/18 10:37	12/13/18 13:06	91-57-6	
Acenaphthene	<b>&lt;0.49</b>	ug/kg	12.0	0.49	1	12/06/18 10:37	12/13/18 13:06	83-32-9	
Acenaphthylene	<b>2.2J</b>	ug/kg	12.0	0.60	1	12/06/18 10:37	12/13/18 13:06	208-96-8	
Anthracene	<b>5.4J</b>	ug/kg	12.0	0.56	1	12/06/18 10:37	12/13/18 13:06	120-12-7	
Benzo(a)anthracene	<b>11.7J</b>	ug/kg	12.0	1.3	1	12/06/18 10:37	12/13/18 13:06	56-55-3	
Benzo(a)pyrene	<b>13.4</b>	ug/kg	12.0	0.83	1	12/06/18 10:37	12/13/18 13:06	50-32-8	
Benzo(b)fluoranthene	<b>37.5</b>	ug/kg	12.0	0.45	1	12/06/18 10:37	12/13/18 13:06	205-99-2	
Benzo(g,h,i)perylene	<b>10.6J</b>	ug/kg	12.0	0.76	1	12/06/18 10:37	12/13/18 13:06	191-24-2	
Benzo(k)fluoranthene	<b>13.1</b>	ug/kg	12.0	1.0	1	12/06/18 10:37	12/13/18 13:06	207-08-9	
Chrysene	<b>29.5</b>	ug/kg	12.0	1.6	1	12/06/18 10:37	12/13/18 13:06	218-01-9	
Dibenz(a,h)anthracene	<b>5.0J</b>	ug/kg	12.0	0.56	1	12/06/18 10:37	12/13/18 13:06	53-70-3	
Fluoranthene	<b>41.5</b>	ug/kg	12.0	0.52	1	12/06/18 10:37	12/13/18 13:06	206-44-0	
Fluorene	<b>0.70J</b>	ug/kg	12.0	0.38	1	12/06/18 10:37	12/13/18 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>11.8J</b>	ug/kg	12.0	0.81	1	12/06/18 10:37	12/13/18 13:06	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-24 (1.5-3.0) Lab ID: 10457092048** Collected: 11/29/18 08:40 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
Naphthalene	<0.93	ug/kg	12.0	0.93	1	12/06/18 10:37	12/13/18 13:06	91-20-3	
Phenanthrene	15.5	ug/kg	12.0	2.3	1	12/06/18 10:37	12/13/18 13:06	85-01-8	
Pyrene	34.3	ug/kg	12.0	1.8	1	12/06/18 10:37	12/13/18 13:06	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	69	%	42-125		1	12/06/18 10:37	12/13/18 13:06	321-60-8	
p-Terphenyl-d14 (S)	67	%	57-125		1	12/06/18 10:37	12/13/18 13:06	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/01/19 09:00	03/01/19 18:13	106-93-4	
Methylene Chloride	<4.2	ug/kg	22.9	4.2	1	03/01/19 09:00	03/01/19 18:13	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	118	%	75-125		1	03/01/19 09:00	03/01/19 18:13	17060-07-0	4M, H3
Toluene-d8 (S)	99	%	75-125		1	03/01/19 09:00	03/01/19 18:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 18:13	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<18.9	ug/kg	60.3	18.9	1	12/12/18 14:29	12/12/18 20:55	630-20-6	
1,1,1-Trichloroethane	<28.1	ug/kg	60.3	28.1	1	12/12/18 14:29	12/12/18 20:55	71-55-6	
1,1,2,2-Tetrachloroethane	<10.6	ug/kg	60.3	10.6	1	12/12/18 14:29	12/12/18 20:55	79-34-5	
1,1,2-Trichloroethane	<7.2	ug/kg	60.3	7.2	1	12/12/18 14:29	12/12/18 20:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	<69.9	ug/kg	241	69.9	1	12/12/18 14:29	12/12/18 20:55	76-13-1	
1,1-Dichloroethane	<6.8	ug/kg	60.3	6.8	1	12/12/18 14:29	12/12/18 20:55	75-34-3	
1,1-Dichloroethene	<18.1	ug/kg	60.3	18.1	1	12/12/18 14:29	12/12/18 20:55	75-35-4	
1,1-Dichloropropene	<27.9	ug/kg	60.3	27.9	1	12/12/18 14:29	12/12/18 20:55	563-58-6	
1,2,3-Trichlorobenzene	<9.6	ug/kg	60.3	9.6	1	12/12/18 14:29	12/12/18 20:55	87-61-6	
1,2,3-Trichloropropane	<15.8	ug/kg	241	15.8	1	12/12/18 14:29	12/12/18 20:55	96-18-4	
1,2,4-Trichlorobenzene	<13.4	ug/kg	60.3	13.4	1	12/12/18 14:29	12/12/18 20:55	120-82-1	
1,2,4-Trimethylbenzene	<12.1	ug/kg	60.3	12.1	1	12/12/18 14:29	12/12/18 20:55	95-63-6	
1,2-Dibromo-3-chloropropane	<210	ug/kg	603	210	1	12/12/18 14:29	12/12/18 20:55	96-12-8	
1,2-Dibromoethane (EDB)	<6.3	ug/kg	60.3	6.3	1	12/12/18 14:29	12/12/18 20:55	106-93-4	
1,2-Dichlorobenzene	<2.4	ug/kg	60.3	2.4	1	12/12/18 14:29	12/12/18 20:55	95-50-1	
1,2-Dichloroethane	<6.6	ug/kg	60.3	6.6	1	12/12/18 14:29	12/12/18 20:55	107-06-2	
1,2-Dichloropropane	<10.4	ug/kg	60.3	10.4	1	12/12/18 14:29	12/12/18 20:55	78-87-5	
1,3,5-Trimethylbenzene	<9.6	ug/kg	60.3	9.6	1	12/12/18 14:29	12/12/18 20:55	108-67-8	
1,3-Dichlorobenzene	<2.2	ug/kg	60.3	2.2	1	12/12/18 14:29	12/12/18 20:55	541-73-1	
1,3-Dichloropropane	<8.3	ug/kg	60.3	8.3	1	12/12/18 14:29	12/12/18 20:55	142-28-9	
1,4-Dichlorobenzene	<3.7	ug/kg	60.3	3.7	1	12/12/18 14:29	12/12/18 20:55	106-46-7	
2,2-Dichloropropane	<7.5	ug/kg	241	7.5	1	12/12/18 14:29	12/12/18 20:55	594-20-7	
2-Butanone (MEK)	<32.1	ug/kg	301	32.1	1	12/12/18 14:29	12/12/18 20:55	78-93-3	
2-Chlorotoluene	<3.0	ug/kg	60.3	3.0	1	12/12/18 14:29	12/12/18 20:55	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	60.3	3.1	1	12/12/18 14:29	12/12/18 20:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.5	ug/kg	301	12.5	1	12/12/18 14:29	12/12/18 20:55	108-10-1	
Acetone	<375	ug/kg	1210	375	1	12/12/18 14:29	12/12/18 20:55	67-64-1	
Allyl chloride	<50.5	ug/kg	241	50.5	1	12/12/18 14:29	12/12/18 20:55	107-05-1	
Benzene	<3.4	ug/kg	24.1	3.4	1	12/12/18 14:29	12/12/18 20:55	71-43-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-24 (1.5-3.0)**      **Lab ID: 10457092048**      Collected: 11/29/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Bromobenzene	<3.7	ug/kg	60.3	3.7	1	12/12/18 14:29	12/12/18 20:55	108-86-1	
Bromochloromethane	<20.9	ug/kg	60.3	20.9	1	12/12/18 14:29	12/12/18 20:55	74-97-5	
Bromodichloromethane	<20.6	ug/kg	60.3	20.6	1	12/12/18 14:29	12/12/18 20:55	75-27-4	
Bromoform	<91.3	ug/kg	241	91.3	1	12/12/18 14:29	12/12/18 20:55	75-25-2	
Bromomethane	<70.5	ug/kg	603	70.5	1	12/12/18 14:29	12/12/18 20:55	74-83-9	
Carbon tetrachloride	<28.8	ug/kg	241	28.8	1	12/12/18 14:29	12/12/18 20:55	56-23-5	
Chlorobenzene	<3.4	ug/kg	60.3	3.4	1	12/12/18 14:29	12/12/18 20:55	108-90-7	
Chloroethane	<31.4	ug/kg	603	31.4	1	12/12/18 14:29	12/12/18 20:55	75-00-3	
Chloroform	<30.1	ug/kg	60.3	30.1	1	12/12/18 14:29	12/12/18 20:55	67-66-3	
Chloromethane	<14.5	ug/kg	241	14.5	1	12/12/18 14:29	12/12/18 20:55	74-87-3	
Dibromochloromethane	<7.0	ug/kg	241	7.0	1	12/12/18 14:29	12/12/18 20:55	124-48-1	
Dibromomethane	<11.1	ug/kg	60.3	11.1	1	12/12/18 14:29	12/12/18 20:55	74-95-3	
Dichlorodifluoromethane	<19.5	ug/kg	241	19.5	1	12/12/18 14:29	12/12/18 20:55	75-71-8	
Dichlorofluoromethane	<83.3	ug/kg	603	83.3	1	12/12/18 14:29	12/12/18 20:55	75-43-4	N2
Diethyl ether (Ethyl ether)	<36.9	ug/kg	241	36.9	1	12/12/18 14:29	12/12/18 20:55	60-29-7	
Ethylbenzene	3.8J	ug/kg	60.3	3.3	1	12/12/18 14:29	12/12/18 20:55	100-41-4	
Hexachloro-1,3-butadiene	<14.7	ug/kg	301	14.7	1	12/12/18 14:29	12/12/18 20:55	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	60.3	2.7	1	12/12/18 14:29	12/12/18 20:55	98-82-8	
Methyl-tert-butyl ether	<7.2	ug/kg	60.3	7.2	1	12/12/18 14:29	12/12/18 20:55	1634-04-4	
Methylene Chloride	<113	ug/kg	241	113	1	12/12/18 14:29	12/12/18 20:55	75-09-2	
Naphthalene	<56.4	ug/kg	241	56.4	1	12/12/18 14:29	12/12/18 20:55	91-20-3	
Styrene	<2.7	ug/kg	60.3	2.7	1	12/12/18 14:29	12/12/18 20:55	100-42-5	
Tetrachloroethene	<21.2	ug/kg	60.3	21.2	1	12/12/18 14:29	12/12/18 20:55	127-18-4	
Tetrahydrofuran	<87.7	ug/kg	2410	87.7	1	12/12/18 14:29	12/12/18 20:55	109-99-9	
Toluene	31.7J	ug/kg	60.3	14.7	1	12/12/18 14:29	12/12/18 20:55	108-88-3	
Trichloroethene	<9.3	ug/kg	60.3	9.3	1	12/12/18 14:29	12/12/18 20:55	79-01-6	
Trichlorofluoromethane	<105	ug/kg	241	105	1	12/12/18 14:29	12/12/18 20:55	75-69-4	
Vinyl chloride	<11.9	ug/kg	24.1	11.9	1	12/12/18 14:29	12/12/18 20:55	75-01-4	
Xylene (Total)	<14.0	ug/kg	181	14.0	1	12/12/18 14:29	12/12/18 20:55	1330-20-7	
cis-1,2-Dichloroethene	<10	ug/kg	60.3	10	1	12/12/18 14:29	12/12/18 20:55	156-59-2	
cis-1,3-Dichloropropene	<8.6	ug/kg	60.3	8.6	1	12/12/18 14:29	12/12/18 20:55	10061-01-5	
n-Butylbenzene	<28.7	ug/kg	60.3	28.7	1	12/12/18 14:29	12/12/18 20:55	104-51-8	
n-Propylbenzene	<3.2	ug/kg	60.3	3.2	1	12/12/18 14:29	12/12/18 20:55	103-65-1	
p-Isopropyltoluene	<18.3	ug/kg	60.3	18.3	1	12/12/18 14:29	12/12/18 20:55	99-87-6	
sec-Butylbenzene	<11.6	ug/kg	60.3	11.6	1	12/12/18 14:29	12/12/18 20:55	135-98-8	
tert-Butylbenzene	<11.6	ug/kg	60.3	11.6	1	12/12/18 14:29	12/12/18 20:55	98-06-6	
trans-1,2-Dichloroethene	<28.2	ug/kg	60.3	28.2	1	12/12/18 14:29	12/12/18 20:55	156-60-5	
trans-1,3-Dichloropropene	<8.4	ug/kg	60.3	8.4	1	12/12/18 14:29	12/12/18 20:55	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/12/18 14:29	12/12/18 20:55	17060-07-0	1M
Toluene-d8 (S)	100	%	75-125		1	12/12/18 14:29	12/12/18 20:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 20:55	460-00-4	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-25 (0.0-2.0)**      **Lab ID: 10457092049**      Collected: 11/29/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	42.2	11.7	1	01/23/19 17:33	01/24/19 16:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.8	ug/kg	42.2	14.8	1	01/23/19 17:33	01/24/19 16:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.9	ug/kg	42.2	16.9	1	01/23/19 17:33	01/24/19 16:36	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.3	ug/kg	42.2	14.3	1	01/23/19 17:33	01/24/19 16:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.7	ug/kg	42.2	12.7	1	01/23/19 17:33	01/24/19 16:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.4	ug/kg	42.2	12.4	1	01/23/19 17:33	01/24/19 16:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.1	ug/kg	42.2	10.1	1	01/23/19 17:33	01/24/19 16:36	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	57-125		1	01/23/19 17:33	01/24/19 16:36	877-09-8	
Decachlorobiphenyl (S)	84	%	49-125		1	01/23/19 17:33	01/24/19 16:36	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.2	3.1	1	12/03/18 14:49	12/10/18 18:22	68334-30-5	
Motor Oil Range	5.8J	mg/kg	12.8	5.6	1	12/03/18 14:49	12/10/18 18:22		
<b>Surrogates</b>									
n-Triacontane (S)	87	%	50-150		1	12/03/18 14:49	12/10/18 18:22	638-68-6	
o-Terphenyl (S)	83	%	50-150		1	12/03/18 14:49	12/10/18 18:22	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.5	mg/kg	11.2	1.5	1	12/11/18 11:53	12/13/18 01:30		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	82	%	50-150		1	12/11/18 11:53	12/13/18 01:30	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.44	mg/kg	1.2	0.44	1	12/06/18 12:12	12/10/18 15:18	7440-36-0	
Arsenic	1.3	mg/kg	1.2	0.24	1	12/06/18 12:12	12/10/18 15:18	7440-38-2	
Beryllium	<0.016	mg/kg	0.29	0.016	1	12/06/18 12:12	12/10/18 15:18	7440-41-7	
Cadmium	0.045J	mg/kg	0.18	0.023	1	12/06/18 12:12	12/10/18 15:18	7440-43-9	
Chromium	5.5	mg/kg	0.59	0.10	1	12/06/18 12:12	12/10/18 15:18	7440-47-3	
Copper	16.7	mg/kg	0.59	0.065	1	12/06/18 12:12	12/10/18 15:18	7440-50-8	
Lead	8.1	mg/kg	0.59	0.13	1	12/06/18 12:12	12/10/18 15:18	7439-92-1	
Nickel	4.8	mg/kg	1.2	0.074	1	12/06/18 12:12	12/10/18 15:18	7440-02-0	
Selenium	<0.39	mg/kg	1.2	0.39	1	12/06/18 12:12	12/10/18 15:18	7782-49-2	
Silver	<0.043	mg/kg	0.59	0.043	1	12/06/18 12:12	12/10/18 15:18	7440-22-4	
Thallium	0.77J	mg/kg	1.2	0.27	1	12/06/18 12:12	12/10/18 15:18	7440-28-0	
Zinc	43.2	mg/kg	1.2	0.51	1	12/06/18 12:12	12/10/18 15:18	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.020J	mg/kg	0.021	0.0086	1	12/06/18 12:13	12/12/18 12:33	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.9	%	0.10	0.10	1		12/11/18 16:08		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	3.4J	ug/kg	12.8	0.69	1	12/06/18 08:43	12/07/18 12:30	90-12-0	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-25 (0.0-2.0)**      **Lab ID: 10457092049**      Collected: 11/29/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
2-Methylnaphthalene	<b>1.6J</b>	ug/kg	12.8	0.65	1	12/06/18 08:43	12/07/18 12:30	91-57-6	
Acenaphthene	<b>13.8</b>	ug/kg	12.8	0.52	1	12/06/18 08:43	12/07/18 12:30	83-32-9	M1
Acenaphthylene	<b>56.6</b>	ug/kg	12.8	0.63	1	12/06/18 08:43	12/07/18 12:30	208-96-8	M1
Anthracene	<b>137</b>	ug/kg	12.8	0.60	1	12/06/18 08:43	12/07/18 12:30	120-12-7	M1,R1
Benzo(a)anthracene	<b>273</b>	ug/kg	12.8	1.4	1	12/06/18 08:43	12/07/18 12:30	56-55-3	M1,R1
Benzo(a)pyrene	<b>278</b>	ug/kg	12.8	0.88	1	12/06/18 08:43	12/07/18 12:30	50-32-8	M1,R1
Benzo(b)fluoranthene	<b>325</b>	ug/kg	12.8	0.48	1	12/06/18 08:43	12/07/18 12:30	205-99-2	M1,R1
Benzo(g,h,i)perylene	<b>194</b>	ug/kg	12.8	0.81	1	12/06/18 08:43	12/07/18 12:30	191-24-2	M1,R1
Benzo(k)fluoranthene	<b>92.1</b>	ug/kg	12.8	1.1	1	12/06/18 08:43	12/07/18 12:30	207-08-9	M1,R1
Chrysene	<b>241</b>	ug/kg	12.8	1.7	1	12/06/18 08:43	12/07/18 12:30	218-01-9	M1,R1
Dibenz(a,h)anthracene	<b>40.5</b>	ug/kg	12.8	0.59	1	12/06/18 08:43	12/07/18 12:30	53-70-3	M1,R1
Fluoranthene	<b>584</b>	ug/kg	64.1	2.7	5	12/06/18 08:43	12/11/18 20:42	206-44-0	M1,R1
Fluorene	<b>31.9</b>	ug/kg	12.8	0.40	1	12/06/18 08:43	12/07/18 12:30	86-73-7	M1
Indeno(1,2,3-cd)pyrene	<b>160</b>	ug/kg	12.8	0.86	1	12/06/18 08:43	12/07/18 12:30	193-39-5	M1,R1
Naphthalene	<b>4.1J</b>	ug/kg	12.8	0.99	1	12/06/18 08:43	12/07/18 12:30	91-20-3	
Phenanthrene	<b>428</b>	ug/kg	64.1	12.3	5	12/06/18 08:43	12/11/18 20:42	85-01-8	M1,R1
Pyrene	<b>583</b>	ug/kg	64.1	9.8	5	12/06/18 08:43	12/11/18 20:42	129-00-0	M1,R1
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	63	%	42-125		1	12/06/18 08:43	12/07/18 12:30	321-60-8	
p-Terphenyl-d14 (S)	74	%	57-125		1	12/06/18 08:43	12/07/18 12:30	1718-51-0	

<b>8260B MSV 5035 Low Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.28</b>	ug/kg	5.0	0.28	1	03/01/19 09:00	03/01/19 18:32	106-93-4	
Methylene Chloride	<b>&lt;4.6</b>	ug/kg	25.0	4.6	1	03/01/19 09:00	03/01/19 18:32	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	03/01/19 09:00	03/01/19 18:32	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 18:32	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/01/19 09:00	03/01/19 18:32	460-00-4	

**Sample: DP-25 (3.0-5.0)**      **Lab ID: 10457092050**      Collected: 11/29/18 10:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b> Analytical Method: EPA 8082A      Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<b>&lt;12.1</b>	ug/kg	43.3	12.1	1	01/23/19 17:33	01/24/19 16:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<b>&lt;15.2</b>	ug/kg	43.3	15.2	1	01/23/19 17:33	01/24/19 16:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<b>&lt;17.3</b>	ug/kg	43.3	17.3	1	01/23/19 17:33	01/24/19 16:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<b>&lt;14.7</b>	ug/kg	43.3	14.7	1	01/23/19 17:33	01/24/19 16:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>&lt;13.0</b>	ug/kg	43.3	13.0	1	01/23/19 17:33	01/24/19 16:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>&lt;12.7</b>	ug/kg	43.3	12.7	1	01/23/19 17:33	01/24/19 16:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>&lt;10.4</b>	ug/kg	43.3	10.4	1	01/23/19 17:33	01/24/19 16:52	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	81	%	57-125		1	01/23/19 17:33	01/24/19 16:52	877-09-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-25 (3.0-5.0)**      **Lab ID: 10457092050**      Collected: 11/29/18 10:10      Received: 11/30/18 09:55      Matrix: Solid  
*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
<b>Surrogates</b>									
Decachlorobiphenyl (S)	79	%	49-125		1	01/23/19 17:33	01/24/19 16:52	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<b>8.4J</b>	mg/kg	19.5	3.2	1	12/03/18 14:49	12/10/18 18:33	68334-30-5	
Motor Oil Range	<b>26.7</b>	mg/kg	13.0	5.6	1	12/03/18 14:49	12/10/18 18:33		
<b>Surrogates</b>									
n-Triacontane (S)	83	%	50-150		1	12/03/18 14:49	12/10/18 18:33	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/03/18 14:49	12/10/18 18:33	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<b>&lt;1.2</b>	mg/kg	8.8	1.2	1	12/11/18 11:53	12/13/18 01:47		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	86	%	50-150		1	12/11/18 11:53	12/13/18 01:47	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<b>&lt;0.49</b>	mg/kg	1.3	0.49	1	12/06/18 12:12	12/10/18 15:20	7440-36-0	
Arsenic	<b>0.78J</b>	mg/kg	1.3	0.26	1	12/06/18 12:12	12/10/18 15:20	7440-38-2	
Beryllium	<b>&lt;0.017</b>	mg/kg	0.32	0.017	1	12/06/18 12:12	12/10/18 15:20	7440-41-7	
Cadmium	<b>&lt;0.026</b>	mg/kg	0.19	0.026	1	12/06/18 12:12	12/10/18 15:20	7440-43-9	
Chromium	<b>3.9</b>	mg/kg	0.64	0.11	1	12/06/18 12:12	12/10/18 15:20	7440-47-3	
Copper	<b>10.3</b>	mg/kg	0.64	0.072	1	12/06/18 12:12	12/10/18 15:20	7440-50-8	
Lead	<b>2.4</b>	mg/kg	0.64	0.15	1	12/06/18 12:12	12/10/18 15:20	7439-92-1	
Nickel	<b>3.8</b>	mg/kg	1.3	0.081	1	12/06/18 12:12	12/10/18 15:20	7440-02-0	
Selenium	<b>&lt;0.42</b>	mg/kg	1.3	0.42	1	12/06/18 12:12	12/10/18 15:20	7782-49-2	
Silver	<b>&lt;0.047</b>	mg/kg	0.64	0.047	1	12/06/18 12:12	12/10/18 15:20	7440-22-4	
Thallium	<b>0.53J</b>	mg/kg	1.3	0.30	1	12/06/18 12:12	12/10/18 15:20	7440-28-0	
Zinc	<b>24.2</b>	mg/kg	1.3	0.56	1	12/06/18 12:12	12/10/18 15:20	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.010</b>	mg/kg	0.025	0.010	1	12/06/18 12:13	12/12/18 12:35	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>23.9</b>	%	0.10	0.10	1		12/11/18 16:08		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<b>&lt;0.70</b>	ug/kg	13.1	0.70	1	12/10/18 16:57	12/11/18 15:15	90-12-0	
2-Methylnaphthalene	<b>&lt;0.66</b>	ug/kg	13.1	0.66	1	12/10/18 16:57	12/11/18 15:15	91-57-6	
Acenaphthene	<b>&lt;0.54</b>	ug/kg	13.1	0.54	1	12/10/18 16:57	12/11/18 15:15	83-32-9	
Acenaphthylene	<b>&lt;0.65</b>	ug/kg	13.1	0.65	1	12/10/18 16:57	12/11/18 15:15	208-96-8	
Anthracene	<b>&lt;0.61</b>	ug/kg	13.1	0.61	1	12/10/18 16:57	12/11/18 15:15	120-12-7	
Benzo(a)anthracene	<b>&lt;1.4</b>	ug/kg	13.1	1.4	1	12/10/18 16:57	12/11/18 15:15	56-55-3	
Benzo(a)pyrene	<b>&lt;0.90</b>	ug/kg	13.1	0.90	1	12/10/18 16:57	12/11/18 15:15	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.49</b>	ug/kg	13.1	0.49	1	12/10/18 16:57	12/11/18 15:15	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.83</b>	ug/kg	13.1	0.83	1	12/10/18 16:57	12/11/18 15:15	191-24-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-25 (3.0-5.0)**      **Lab ID: 10457092050**      Collected: 11/29/18 10:10      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(k)fluoranthene	<1.1	ug/kg	13.1	1.1	1	12/10/18 16:57	12/11/18 15:15	207-08-9	
Chrysene	<1.8	ug/kg	13.1	1.8	1	12/10/18 16:57	12/11/18 15:15	218-01-9	
Dibenz(a,h)anthracene	<0.61	ug/kg	13.1	0.61	1	12/10/18 16:57	12/11/18 15:15	53-70-3	
Fluoranthene	<0.56	ug/kg	13.1	0.56	1	12/10/18 16:57	12/11/18 15:15	206-44-0	
Fluorene	<0.41	ug/kg	13.1	0.41	1	12/10/18 16:57	12/11/18 15:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.88	ug/kg	13.1	0.88	1	12/10/18 16:57	12/11/18 15:15	193-39-5	
Naphthalene	<1.0	ug/kg	13.1	1.0	1	12/10/18 16:57	12/11/18 15:15	91-20-3	
Phenanthrene	<2.5	ug/kg	13.1	2.5	1	12/10/18 16:57	12/11/18 15:15	85-01-8	
Pyrene	<2.0	ug/kg	13.1	2.0	1	12/10/18 16:57	12/11/18 15:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	42-125		1	12/10/18 16:57	12/11/18 15:15	321-60-8	
p-Terphenyl-d14 (S)	59	%	57-125		1	12/10/18 16:57	12/11/18 15:15	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.1	0.29	1	03/01/19 09:00	03/01/19 18:51	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.7	4.7	1	03/01/19 09:00	03/01/19 18:51	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	03/01/19 09:00	03/01/19 18:51	17060-07-0	5M,H3
Toluene-d8 (S)	101	%	75-125		1	03/01/19 09:00	03/01/19 18:51	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 18:51	460-00-4	

**Sample: DP-26 (0.0-1.5)**      **Lab ID: 10457092051**      Collected: 11/29/18 10:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A      Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.1	ug/kg	39.8	11.1	1	01/23/19 17:33	01/24/19 17:08	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.0	ug/kg	39.8	14.0	1	01/23/19 17:33	01/24/19 17:08	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.9	ug/kg	39.8	15.9	1	01/23/19 17:33	01/24/19 17:08	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.5	ug/kg	39.8	13.5	1	01/23/19 17:33	01/24/19 17:08	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.9	ug/kg	39.8	11.9	1	01/23/19 17:33	01/24/19 17:08	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.7	ug/kg	39.8	11.7	1	01/23/19 17:33	01/24/19 17:08	11097-69-1	
PCB-1260 (Aroclor 1260)	19.3J	ug/kg	39.8	9.5	1	01/23/19 17:33	01/24/19 17:08	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	57-125		1	01/23/19 17:33	01/24/19 17:08	877-09-8	
Decachlorobiphenyl (S)	84	%	49-125		1	01/23/19 17:33	01/24/19 17:08	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx      Preparation Method: EPA 3550									
Diesel Fuel Range	11.6J	mg/kg	17.9	2.9	1	12/03/18 14:49	12/10/18 18:44	68334-30-5	
Motor Oil Range	20.4	mg/kg	11.9	5.2	1	12/03/18 14:49	12/10/18 18:44		
<b>Surrogates</b>									
n-Triacontane (S)	83	%	50-150		1	12/03/18 14:49	12/10/18 18:44	638-68-6	
o-Terphenyl (S)	81	%	50-150		1	12/03/18 14:49	12/10/18 18:44	84-15-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-26 (0.0-1.5)**      **Lab ID: 10457092051**      Collected: 11/29/18 10:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	8.9	1.2	1	12/11/18 11:53	12/13/18 02:05		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/11/18 11:53	12/13/18 02:05	98-08-8	
<b>6010D MET ICP, TCLP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 12/31/18 08:59 Initial pH: 9.28; Final pH: 2.12									
Lead	<0.0098	mg/L	0.50	0.0098	1	12/31/18 09:55	01/02/19 09:29	7439-92-1	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	7.6	mg/kg	1.2	0.44	1	12/06/18 12:12	12/10/18 15:21	7440-36-0	
Arsenic	1.4	mg/kg	1.2	0.24	1	12/06/18 12:12	12/10/18 15:21	7440-38-2	
Beryllium	<0.016	mg/kg	0.29	0.016	1	12/06/18 12:12	12/10/18 15:21	7440-41-7	
Cadmium	0.18	mg/kg	0.18	0.023	1	12/06/18 12:12	12/10/18 15:21	7440-43-9	
Chromium	10.8	mg/kg	0.59	0.10	1	12/06/18 12:12	12/10/18 15:21	7440-47-3	
Copper	98.8	mg/kg	0.59	0.065	1	12/06/18 12:12	12/10/18 15:21	7440-50-8	
Lead	1600	mg/kg	0.59	0.13	1	12/06/18 12:12	12/10/18 15:21	7439-92-1	
Nickel	6.9	mg/kg	1.2	0.074	1	12/06/18 12:12	12/10/18 15:21	7440-02-0	
Selenium	<0.38	mg/kg	1.2	0.38	1	12/06/18 12:12	12/10/18 15:21	7782-49-2	
Silver	0.71	mg/kg	0.59	0.043	1	12/06/18 12:12	12/10/18 15:21	7440-22-4	
Thallium	0.76J	mg/kg	1.2	0.27	1	12/06/18 12:12	12/10/18 15:21	7440-28-0	
Zinc	70.2	mg/kg	1.2	0.51	1	12/06/18 12:12	12/10/18 15:21	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.047	mg/kg	0.022	0.0088	1	12/06/18 12:13	12/12/18 12:38	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.1	%	0.10	0.10	1		12/11/18 16:08		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	0.78J	ug/kg	12.0	0.64	1	12/06/18 08:43	12/07/18 14:11	90-12-0	
2-Methylnaphthalene	0.84J	ug/kg	12.0	0.61	1	12/06/18 08:43	12/07/18 14:11	91-57-6	
Acenaphthene	21.1	ug/kg	12.0	0.49	1	12/06/18 08:43	12/07/18 14:11	83-32-9	
Acenaphthylene	1.5J	ug/kg	12.0	0.59	1	12/06/18 08:43	12/07/18 14:11	208-96-8	
Anthracene	100	ug/kg	12.0	0.56	1	12/06/18 08:43	12/07/18 14:11	120-12-7	
Benzo(a)anthracene	175	ug/kg	12.0	1.3	1	12/06/18 08:43	12/07/18 14:11	56-55-3	
Benzo(a)pyrene	164	ug/kg	12.0	0.83	1	12/06/18 08:43	12/07/18 14:11	50-32-8	
Benzo(b)fluoranthene	216	ug/kg	12.0	0.45	1	12/06/18 08:43	12/07/18 14:11	205-99-2	
Benzo(g,h,i)perylene	113	ug/kg	12.0	0.76	1	12/06/18 08:43	12/07/18 14:11	191-24-2	
Benzo(k)fluoranthene	64.4	ug/kg	12.0	1.0	1	12/06/18 08:43	12/07/18 14:11	207-08-9	
Chrysene	171	ug/kg	12.0	1.6	1	12/06/18 08:43	12/07/18 14:11	218-01-9	
Dibenz(a,h)anthracene	37.5	ug/kg	12.0	0.55	1	12/06/18 08:43	12/07/18 14:11	53-70-3	
Fluoranthene	332	ug/kg	12.0	0.51	1	12/06/18 08:43	12/07/18 14:11	206-44-0	
Fluorene	16.8	ug/kg	12.0	0.38	1	12/06/18 08:43	12/07/18 14:11	86-73-7	
Indeno(1,2,3-cd)pyrene	101	ug/kg	12.0	0.80	1	12/06/18 08:43	12/07/18 14:11	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-26 (0.0-1.5)**      **Lab ID: 10457092051**      Collected: 11/29/18 10:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Naphthalene	<b>0.97J</b>	ug/kg	12.0	0.93	1	12/06/18 08:43	12/07/18 14:11	91-20-3	
Phenanthrene	<b>256</b>	ug/kg	12.0	2.3	1	12/06/18 08:43	12/07/18 14:11	85-01-8	
Pyrene	<b>288</b>	ug/kg	12.0	1.8	1	12/06/18 08:43	12/07/18 14:11	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	42-125		1	12/06/18 08:43	12/07/18 14:11	321-60-8	
p-Terphenyl-d14 (S)	73	%	57-125		1	12/06/18 08:43	12/07/18 14:11	1718-51-0	

<b>8260B MSV 5035 Low Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<b>&lt;0.26</b>	ug/kg	4.6	0.26	1	03/01/19 09:00	03/01/19 19:10	106-93-4	
Methylene Chloride	<b>&lt;4.2</b>	ug/kg	22.9	4.2	1	03/01/19 09:00	03/01/19 19:10	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/01/19 09:00	03/01/19 19:10	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/01/19 09:00	03/01/19 19:10	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 19:10	460-00-4	

**Sample: DP-26 (1.5-3.0)**      **Lab ID: 10457092052**      Collected: 11/29/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b> Analytical Method: EPA 8082A      Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<b>&lt;11.6</b>	ug/kg	41.7	11.6	1	01/23/19 17:33	01/24/19 17:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<b>&lt;14.7</b>	ug/kg	41.7	14.7	1	01/23/19 17:33	01/24/19 17:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<b>&lt;16.7</b>	ug/kg	41.7	16.7	1	01/23/19 17:33	01/24/19 17:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<b>&lt;14.2</b>	ug/kg	41.7	14.2	1	01/23/19 17:33	01/24/19 17:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>&lt;12.5</b>	ug/kg	41.7	12.5	1	01/23/19 17:33	01/24/19 17:23	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>&lt;12.3</b>	ug/kg	41.7	12.3	1	01/23/19 17:33	01/24/19 17:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>&lt;10</b>	ug/kg	41.7	10	1	01/23/19 17:33	01/24/19 17:23	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	57-125		1	01/23/19 17:33	01/24/19 17:23	877-09-8	
Decachlorobiphenyl (S)	83	%	49-125		1	01/23/19 17:33	01/24/19 17:23	2051-24-3	

<b>NWTPH-Dx GCS</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3550									
Diesel Fuel Range	<b>5.9J</b>	mg/kg	18.5	3.0	1	12/03/18 14:49	12/10/18 19:06	68334-30-5	
Motor Oil Range	<b>34.0</b>	mg/kg	12.4	5.4	1	12/03/18 14:49	12/10/18 19:06		
<b>Surrogates</b>									
n-Triacontane (S)	90	%	50-150		1	12/03/18 14:49	12/10/18 19:06	638-68-6	
o-Terphenyl (S)	87	%	50-150		1	12/03/18 14:49	12/10/18 19:06	84-15-1	

<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<b>3.2J</b>	mg/kg	9.1	1.2	1	12/11/18 11:53	12/12/18 12:07		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	100	%	50-150		1	12/11/18 11:53	12/12/18 12:07	98-08-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-26 (1.5-3.0)**      **Lab ID: 10457092052**      Collected: 11/29/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.43	mg/kg	1.1	0.43	1	12/06/18 12:12	12/10/18 15:23	7440-36-0	
Arsenic	1.0J	mg/kg	1.1	0.24	1	12/06/18 12:12	12/10/18 15:23	7440-38-2	
Beryllium	<0.015	mg/kg	0.29	0.015	1	12/06/18 12:12	12/10/18 15:23	7440-41-7	
Cadmium	0.029J	mg/kg	0.17	0.023	1	12/06/18 12:12	12/10/18 15:23	7440-43-9	
Chromium	5.0	mg/kg	0.57	0.099	1	12/06/18 12:12	12/10/18 15:23	7440-47-3	
Copper	14.8	mg/kg	0.57	0.064	1	12/06/18 12:12	12/10/18 15:23	7440-50-8	
Lead	3.9	mg/kg	0.57	0.13	1	12/06/18 12:12	12/10/18 15:23	7439-92-1	
Nickel	4.6	mg/kg	1.1	0.072	1	12/06/18 12:12	12/10/18 15:23	7440-02-0	
Selenium	<0.38	mg/kg	1.1	0.38	1	12/06/18 12:12	12/10/18 15:23	7782-49-2	
Silver	<0.042	mg/kg	0.57	0.042	1	12/06/18 12:12	12/10/18 15:23	7440-22-4	
Thallium	0.74J	mg/kg	1.1	0.26	1	12/06/18 12:12	12/10/18 15:23	7440-28-0	
Zinc	29.5	mg/kg	1.1	0.50	1	12/06/18 12:12	12/10/18 15:23	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0085	mg/kg	0.021	0.0085	1	12/06/18 12:13	12/12/18 12:40	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.9	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.67	ug/kg	12.6	0.67	1	12/06/18 08:43	12/07/18 14:31	90-12-0	
2-Methylnaphthalene	<0.64	ug/kg	12.6	0.64	1	12/06/18 08:43	12/07/18 14:31	91-57-6	
Acenaphthene	<0.52	ug/kg	12.6	0.52	1	12/06/18 08:43	12/07/18 14:31	83-32-9	
Acenaphthylene	<0.62	ug/kg	12.6	0.62	1	12/06/18 08:43	12/07/18 14:31	208-96-8	
Anthracene	1.7J	ug/kg	12.6	0.59	1	12/06/18 08:43	12/07/18 14:31	120-12-7	
Benzo(a)anthracene	6.1J	ug/kg	12.6	1.4	1	12/06/18 08:43	12/07/18 14:31	56-55-3	
Benzo(a)pyrene	5.0J	ug/kg	12.6	0.87	1	12/06/18 08:43	12/07/18 14:31	50-32-8	
Benzo(b)fluoranthene	9.9J	ug/kg	12.6	0.47	1	12/06/18 08:43	12/07/18 14:31	205-99-2	
Benzo(g,h,i)perylene	3.2J	ug/kg	12.6	0.80	1	12/06/18 08:43	12/07/18 14:31	191-24-2	
Benzo(k)fluoranthene	3.1J	ug/kg	12.6	1.1	1	12/06/18 08:43	12/07/18 14:31	207-08-9	
Chrysene	8.9J	ug/kg	12.6	1.7	1	12/06/18 08:43	12/07/18 14:31	218-01-9	
Dibenz(a,h)anthracene	1.1J	ug/kg	12.6	0.58	1	12/06/18 08:43	12/07/18 14:31	53-70-3	
Fluoranthene	17.6	ug/kg	12.6	0.54	1	12/06/18 08:43	12/07/18 14:31	206-44-0	
Fluorene	<0.39	ug/kg	12.6	0.39	1	12/06/18 08:43	12/07/18 14:31	86-73-7	
Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	12.6	0.85	1	12/06/18 08:43	12/07/18 14:31	193-39-5	
Naphthalene	<0.97	ug/kg	12.6	0.97	1	12/06/18 08:43	12/07/18 14:31	91-20-3	
Phenanthrene	11.0J	ug/kg	12.6	2.4	1	12/06/18 08:43	12/07/18 14:31	85-01-8	
Pyrene	18.2	ug/kg	12.6	1.9	1	12/06/18 08:43	12/07/18 14:31	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	52	%	42-125		1	12/06/18 08:43	12/07/18 14:31	321-60-8	
p-Terphenyl-d14 (S)	71	%	57-125		1	12/06/18 08:43	12/07/18 14:31	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	03/01/19 09:00	03/01/19 19:30	106-93-4	
Methylene Chloride	<4.6	ug/kg	25.1	4.6	1	03/01/19 09:00	03/01/19 19:30	75-09-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-26 (1.5-3.0)**      **Lab ID: 10457092052**      Collected: 11/29/18 10:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	03/01/19 09:00	03/01/19 19:30	17060-07-0	5M, H3
Toluene-d8 (S)	99	%	75-125		1	03/01/19 09:00	03/01/19 19:30	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/01/19 09:00	03/01/19 19:30	460-00-4	

**Sample: DP-27 (0.0-2.0)**      **Lab ID: 10457092053**      Collected: 11/29/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b> Analytical Method: EPA 8082A      Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.8	11.9	1	12/04/18 14:03	12/06/18 09:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.8	15.0	1	12/04/18 14:03	12/06/18 09:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	42.8	17.1	1	12/04/18 14:03	12/06/18 09:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.8	14.5	1	12/04/18 14:03	12/06/18 09:29	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.8	12.8	1	12/04/18 14:03	12/06/18 09:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.6	ug/kg	42.8	12.6	1	12/04/18 14:03	12/06/18 09:29	11097-69-1	
PCB-1260 (Aroclor 1260)	28.8J	ug/kg	42.8	10.2	1	12/04/18 14:03	12/06/18 09:29	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	48-125		1	12/04/18 14:03	12/06/18 09:29	877-09-8	
Decachlorobiphenyl (S)	74	%	30-134		1	12/04/18 14:03	12/06/18 09:29	2051-24-3	

**NWTPH-Dx GCS**      Analytical Method: NWTPH-Dx      Preparation Method: EPA 3550

Diesel Fuel Range	<3.1	mg/kg	19.4	3.1	1	12/03/18 14:49	12/10/18 19:17	68334-30-5	
Motor Oil Range	10.6J	mg/kg	12.9	5.6	1	12/03/18 14:49	12/10/18 19:17		
<b>Surrogates</b>									
n-Triacontane (S)	88	%	50-150		1	12/03/18 14:49	12/10/18 19:17	638-68-6	
o-Terphenyl (S)	86	%	50-150		1	12/03/18 14:49	12/10/18 19:17	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx

TPH as Gas	2.9J	mg/kg	10.8	1.4	1	12/11/18 11:53	12/12/18 12:24		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/11/18 11:53	12/12/18 12:24	98-08-8	

**6010D MET ICP**      Analytical Method: EPA 6010D      Preparation Method: EPA 3050

Antimony	<0.49	mg/kg	1.3	0.49	1	12/06/18 12:12	12/10/18 15:25	7440-36-0	
Arsenic	1.6	mg/kg	1.3	0.27	1	12/06/18 12:12	12/10/18 15:25	7440-38-2	
Beryllium	<0.017	mg/kg	0.32	0.017	1	12/06/18 12:12	12/10/18 15:25	7440-41-7	
Cadmium	0.40	mg/kg	0.19	0.026	1	12/06/18 12:12	12/10/18 15:25	7440-43-9	
Chromium	6.4	mg/kg	0.65	0.11	1	12/06/18 12:12	12/10/18 15:25	7440-47-3	
Copper	52.5	mg/kg	0.65	0.072	1	12/06/18 12:12	12/10/18 15:25	7440-50-8	
Lead	38.4	mg/kg	0.65	0.15	1	12/06/18 12:12	12/10/18 15:25	7439-92-1	
Nickel	6.3	mg/kg	1.3	0.082	1	12/06/18 12:12	12/10/18 15:25	7440-02-0	
Selenium	<0.43	mg/kg	1.3	0.43	1	12/06/18 12:12	12/10/18 15:25	7782-49-2	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-27 (0.0-2.0)**      **Lab ID: 10457092053**      Collected: 11/29/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Silver	<0.047	mg/kg	0.65	0.047	1	12/06/18 12:12	12/10/18 15:25	7440-22-4	
Thallium	0.71J	mg/kg	1.3	0.30	1	12/06/18 12:12	12/10/18 15:25	7440-28-0	
Zinc	102	mg/kg	1.3	0.57	1	12/06/18 12:12	12/10/18 15:25	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.047	mg/kg	0.025	0.010	1	12/06/18 12:13	12/12/18 12:42	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	23.0	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.69	ug/kg	13.0	0.69	1	12/06/18 08:43	12/07/18 15:33	90-12-0	
2-Methylnaphthalene	<0.65	ug/kg	13.0	0.65	1	12/06/18 08:43	12/07/18 15:33	91-57-6	
Acenaphthene	10.6J	ug/kg	13.0	0.53	1	12/06/18 08:43	12/07/18 15:33	83-32-9	
Acenaphthylene	2.3J	ug/kg	13.0	0.64	1	12/06/18 08:43	12/07/18 15:33	208-96-8	
Anthracene	69.3	ug/kg	13.0	0.61	1	12/06/18 08:43	12/07/18 15:33	120-12-7	
Benzo(a)anthracene	130	ug/kg	13.0	1.4	1	12/06/18 08:43	12/07/18 15:33	56-55-3	
Benzo(a)pyrene	119	ug/kg	13.0	0.89	1	12/06/18 08:43	12/07/18 15:33	50-32-8	
Benzo(b)fluoranthene	130	ug/kg	13.0	0.48	1	12/06/18 08:43	12/07/18 15:33	205-99-2	
Benzo(g,h,i)perylene	63.1	ug/kg	13.0	0.82	1	12/06/18 08:43	12/07/18 15:33	191-24-2	
Benzo(k)fluoranthene	60.0	ug/kg	13.0	1.1	1	12/06/18 08:43	12/07/18 15:33	207-08-9	
Chrysene	106	ug/kg	13.0	1.8	1	12/06/18 08:43	12/07/18 15:33	218-01-9	
Dibenz(a,h)anthracene	18.7	ug/kg	13.0	0.60	1	12/06/18 08:43	12/07/18 15:33	53-70-3	
Fluoranthene	234	ug/kg	13.0	0.56	1	12/06/18 08:43	12/07/18 15:33	206-44-0	
Fluorene	11.4J	ug/kg	13.0	0.41	1	12/06/18 08:43	12/07/18 15:33	86-73-7	
Indeno(1,2,3-cd)pyrene	63.2	ug/kg	13.0	0.87	1	12/06/18 08:43	12/07/18 15:33	193-39-5	
Naphthalene	<1.0	ug/kg	13.0	1.0	1	12/06/18 08:43	12/07/18 15:33	91-20-3	
Phenanthrene	182	ug/kg	13.0	2.5	1	12/06/18 08:43	12/07/18 15:33	85-01-8	
Pyrene	237	ug/kg	13.0	2.0	1	12/06/18 08:43	12/07/18 15:33	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	42-125		1	12/06/18 08:43	12/07/18 15:33	321-60-8	
p-Terphenyl-d14 (S)	66	%	57-125		1	12/06/18 08:43	12/07/18 15:33	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.1	0.29	1	03/04/19 09:00	03/04/19 13:46	106-93-4	
Methylene Chloride	<4.7	ug/kg	25.5	4.7	1	03/04/19 09:00	03/04/19 13:46	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/04/19 09:00	03/04/19 13:46	17060-07-0	5M, H3
Toluene-d8 (S)	101	%	75-125		1	03/04/19 09:00	03/04/19 13:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/04/19 09:00	03/04/19 13:46	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<31.6	ug/kg	100	31.6	1	12/12/18 14:29	12/12/18 21:12	630-20-6	
1,1,1-Trichloroethane	<46.8	ug/kg	100	46.8	1	12/12/18 14:29	12/12/18 21:12	71-55-6	
1,1,1,2-Tetrachloroethane	<17.7	ug/kg	100	17.7	1	12/12/18 14:29	12/12/18 21:12	79-34-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-27 (0.0-2.0)**      **Lab ID: 10457092053**      Collected: 11/29/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,2-Trichloroethane	<12.0	ug/kg	100	12.0	1	12/12/18 14:29	12/12/18 21:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	<117	ug/kg	402	117	1	12/12/18 14:29	12/12/18 21:12	76-13-1	
1,1-Dichloroethane	<11.3	ug/kg	100	11.3	1	12/12/18 14:29	12/12/18 21:12	75-34-3	
1,1-Dichloroethene	<30.1	ug/kg	100	30.1	1	12/12/18 14:29	12/12/18 21:12	75-35-4	
1,1-Dichloropropene	<46.4	ug/kg	100	46.4	1	12/12/18 14:29	12/12/18 21:12	563-58-6	
1,2,3-Trichlorobenzene	<16.1	ug/kg	100	16.1	1	12/12/18 14:29	12/12/18 21:12	87-61-6	
1,2,3-Trichloropropane	<26.3	ug/kg	402	26.3	1	12/12/18 14:29	12/12/18 21:12	96-18-4	
1,2,4-Trichlorobenzene	<22.3	ug/kg	100	22.3	1	12/12/18 14:29	12/12/18 21:12	120-82-1	
1,2,4-Trimethylbenzene	<20.1	ug/kg	100	20.1	1	12/12/18 14:29	12/12/18 21:12	95-63-6	
1,2-Dibromo-3-chloropropane	<350	ug/kg	1000	350	1	12/12/18 14:29	12/12/18 21:12	96-12-8	
1,2-Dibromoethane (EDB)	<10.6	ug/kg	100	10.6	1	12/12/18 14:29	12/12/18 21:12	106-93-4	
1,2-Dichlorobenzene	<4.1	ug/kg	100	4.1	1	12/12/18 14:29	12/12/18 21:12	95-50-1	
1,2-Dichloroethane	<11.1	ug/kg	100	11.1	1	12/12/18 14:29	12/12/18 21:12	107-06-2	
1,2-Dichloropropane	<17.3	ug/kg	100	17.3	1	12/12/18 14:29	12/12/18 21:12	78-87-5	
1,3,5-Trimethylbenzene	<16.0	ug/kg	100	16.0	1	12/12/18 14:29	12/12/18 21:12	108-67-8	
1,3-Dichlorobenzene	<3.7	ug/kg	100	3.7	1	12/12/18 14:29	12/12/18 21:12	541-73-1	
1,3-Dichloropropane	<13.9	ug/kg	100	13.9	1	12/12/18 14:29	12/12/18 21:12	142-28-9	
1,4-Dichlorobenzene	<6.2	ug/kg	100	6.2	1	12/12/18 14:29	12/12/18 21:12	106-46-7	
2,2-Dichloropropane	<12.5	ug/kg	402	12.5	1	12/12/18 14:29	12/12/18 21:12	594-20-7	
2-Butanone (MEK)	<53.5	ug/kg	502	53.5	1	12/12/18 14:29	12/12/18 21:12	78-93-3	
2-Chlorotoluene	<4.9	ug/kg	100	4.9	1	12/12/18 14:29	12/12/18 21:12	95-49-8	
4-Chlorotoluene	<5.1	ug/kg	100	5.1	1	12/12/18 14:29	12/12/18 21:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<20.9	ug/kg	502	20.9	1	12/12/18 14:29	12/12/18 21:12	108-10-1	
Acetone	<625	ug/kg	2010	625	1	12/12/18 14:29	12/12/18 21:12	67-64-1	
Allyl chloride	<84.2	ug/kg	402	84.2	1	12/12/18 14:29	12/12/18 21:12	107-05-1	
Benzene	<5.7	ug/kg	40.2	5.7	1	12/12/18 14:29	12/12/18 21:12	71-43-2	
Bromobenzene	<6.2	ug/kg	100	6.2	1	12/12/18 14:29	12/12/18 21:12	108-86-1	
Bromochloromethane	<34.8	ug/kg	100	34.8	1	12/12/18 14:29	12/12/18 21:12	74-97-5	
Bromodichloromethane	<34.4	ug/kg	100	34.4	1	12/12/18 14:29	12/12/18 21:12	75-27-4	
Bromoform	<152	ug/kg	402	152	1	12/12/18 14:29	12/12/18 21:12	75-25-2	
Bromomethane	<118	ug/kg	1000	118	1	12/12/18 14:29	12/12/18 21:12	74-83-9	
Carbon tetrachloride	<48.0	ug/kg	402	48.0	1	12/12/18 14:29	12/12/18 21:12	56-23-5	
Chlorobenzene	<5.7	ug/kg	100	5.7	1	12/12/18 14:29	12/12/18 21:12	108-90-7	
Chloroethane	<52.3	ug/kg	1000	52.3	1	12/12/18 14:29	12/12/18 21:12	75-00-3	
Chloroform	<50.2	ug/kg	100	50.2	1	12/12/18 14:29	12/12/18 21:12	67-66-3	
Chloromethane	<24.1	ug/kg	402	24.1	1	12/12/18 14:29	12/12/18 21:12	74-87-3	
Dibromochloromethane	<11.7	ug/kg	402	11.7	1	12/12/18 14:29	12/12/18 21:12	124-48-1	
Dibromomethane	<18.4	ug/kg	100	18.4	1	12/12/18 14:29	12/12/18 21:12	74-95-3	
Dichlorodifluoromethane	<32.6	ug/kg	402	32.6	1	12/12/18 14:29	12/12/18 21:12	75-71-8	
Dichlorofluoromethane	<139	ug/kg	1000	139	1	12/12/18 14:29	12/12/18 21:12	75-43-4	N2
Diethyl ether (Ethyl ether)	<61.5	ug/kg	402	61.5	1	12/12/18 14:29	12/12/18 21:12	60-29-7	
Ethylbenzene	<5.5	ug/kg	100	5.5	1	12/12/18 14:29	12/12/18 21:12	100-41-4	
Hexachloro-1,3-butadiene	<24.5	ug/kg	502	24.5	1	12/12/18 14:29	12/12/18 21:12	87-68-3	
Isopropylbenzene (Cumene)	<4.5	ug/kg	100	4.5	1	12/12/18 14:29	12/12/18 21:12	98-82-8	
Methyl-tert-butyl ether	<12.0	ug/kg	100	12.0	1	12/12/18 14:29	12/12/18 21:12	1634-04-4	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: DP-27 (0.0-2.0)**      **Lab ID: 10457092053**      Collected: 11/29/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Methylene Chloride	<189	ug/kg	402	189	1	12/12/18 14:29	12/12/18 21:12	75-09-2	
Naphthalene	<94.1	ug/kg	402	94.1	1	12/12/18 14:29	12/12/18 21:12	91-20-3	
Styrene	<4.6	ug/kg	100	4.6	1	12/12/18 14:29	12/12/18 21:12	100-42-5	
Tetrachloroethene	<35.4	ug/kg	100	35.4	1	12/12/18 14:29	12/12/18 21:12	127-18-4	
Tetrahydrofuran	<146	ug/kg	4020	146	1	12/12/18 14:29	12/12/18 21:12	109-99-9	
Toluene	<24.5	ug/kg	100	24.5	1	12/12/18 14:29	12/12/18 21:12	108-88-3	
Trichloroethene	<15.5	ug/kg	100	15.5	1	12/12/18 14:29	12/12/18 21:12	79-01-6	
Trichlorofluoromethane	<175	ug/kg	402	175	1	12/12/18 14:29	12/12/18 21:12	75-69-4	
Vinyl chloride	<19.8	ug/kg	40.2	19.8	1	12/12/18 14:29	12/12/18 21:12	75-01-4	
Xylene (Total)	<23.3	ug/kg	301	23.3	1	12/12/18 14:29	12/12/18 21:12	1330-20-7	
cis-1,2-Dichloroethene	<16.7	ug/kg	100	16.7	1	12/12/18 14:29	12/12/18 21:12	156-59-2	
cis-1,3-Dichloropropene	<14.4	ug/kg	100	14.4	1	12/12/18 14:29	12/12/18 21:12	10061-01-5	
n-Butylbenzene	<47.8	ug/kg	100	47.8	1	12/12/18 14:29	12/12/18 21:12	104-51-8	
n-Propylbenzene	<5.4	ug/kg	100	5.4	1	12/12/18 14:29	12/12/18 21:12	103-65-1	
p-Isopropyltoluene	<30.5	ug/kg	100	30.5	1	12/12/18 14:29	12/12/18 21:12	99-87-6	
sec-Butylbenzene	<19.3	ug/kg	100	19.3	1	12/12/18 14:29	12/12/18 21:12	135-98-8	
tert-Butylbenzene	<19.3	ug/kg	100	19.3	1	12/12/18 14:29	12/12/18 21:12	98-06-6	
trans-1,2-Dichloroethene	<47.0	ug/kg	100	47.0	1	12/12/18 14:29	12/12/18 21:12	156-60-5	
trans-1,3-Dichloropropene	<14.0	ug/kg	100	14.0	1	12/12/18 14:29	12/12/18 21:12	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	109	%	75-125		1	12/12/18 14:29	12/12/18 21:12	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 21:12	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/12/18 14:29	12/12/18 21:12	460-00-4	

**Sample: DP-27 (3.0-4.0)**      **Lab ID: 10457092054**      Collected: 11/29/18 11:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>		Analytical Method: EPA 8082A Preparation Method: EPA 3550							
PCB-1016 (Aroclor 1016)	<12.2	ug/kg	43.9	12.2	1	12/04/18 14:03	12/06/18 09:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.4	ug/kg	43.9	15.4	1	12/04/18 14:03	12/06/18 09:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.6	ug/kg	43.9	17.6	1	12/04/18 14:03	12/06/18 09:45	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.9	ug/kg	43.9	14.9	1	12/04/18 14:03	12/06/18 09:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.2	ug/kg	43.9	13.2	1	12/04/18 14:03	12/06/18 09:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.9	ug/kg	43.9	12.9	1	12/04/18 14:03	12/06/18 09:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.5	ug/kg	43.9	10.5	1	12/04/18 14:03	12/06/18 09:45	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	80	%	48-125		1	12/04/18 14:03	12/06/18 09:45	877-09-8	
Decachlorobiphenyl (S)	84	%	30-134		1	12/04/18 14:03	12/06/18 09:45	2051-24-3	
<b>NWTPH-Dx GCS</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3550							
Diesel Fuel Range	14.0J	mg/kg	20.1	3.3	1	12/03/18 14:49	12/10/18 19:27	68334-30-5	
Motor Oil Range	28.5	mg/kg	13.4	5.8	1	12/03/18 14:49	12/10/18 19:27		

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-27 (3.0-4.0) Lab ID: 10457092054** Collected: 11/29/18 11:50 Received: 11/30/18 09:55 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
<b>Surrogates</b>									
n-Triacontane (S)	92	%	50-150		1	12/03/18 14:49	12/10/18 19:27	638-68-6	
o-Terphenyl (S)	88	%	50-150		1	12/03/18 14:49	12/10/18 19:27	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	9.2	1.2	1	12/11/18 11:53	12/12/18 13:15		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	94	%	50-150		1	12/11/18 11:53	12/12/18 13:15	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.49	mg/kg	1.3	0.49	1	12/06/18 12:12	12/10/18 15:26	7440-36-0	
Arsenic	0.99J	mg/kg	1.3	0.27	1	12/06/18 12:12	12/10/18 15:26	7440-38-2	
Beryllium	0.047J	mg/kg	0.32	0.017	1	12/06/18 12:12	12/10/18 15:26	7440-41-7	
Cadmium	0.11J	mg/kg	0.19	0.026	1	12/06/18 12:12	12/10/18 15:26	7440-43-9	
Chromium	8.1	mg/kg	0.65	0.11	1	12/06/18 12:12	12/10/18 15:26	7440-47-3	
Copper	23.0	mg/kg	0.65	0.072	1	12/06/18 12:12	12/10/18 15:26	7440-50-8	
Lead	19.3	mg/kg	0.65	0.15	1	12/06/18 12:12	12/10/18 15:26	7439-92-1	
Nickel	5.7	mg/kg	1.3	0.082	1	12/06/18 12:12	12/10/18 15:26	7440-02-0	
Selenium	<0.43	mg/kg	1.3	0.43	1	12/06/18 12:12	12/10/18 15:26	7782-49-2	
Silver	<0.047	mg/kg	0.65	0.047	1	12/06/18 12:12	12/10/18 15:26	7440-22-4	
Thallium	<0.30	mg/kg	1.3	0.30	1	12/06/18 12:12	12/10/18 15:26	7440-28-0	
Zinc	57.5	mg/kg	1.3	0.57	1	12/06/18 12:12	12/10/18 15:26	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.023	mg/kg	0.023	0.0092	1	12/06/18 12:13	12/12/18 12:44	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	25.3	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.71	ug/kg	13.3	0.71	1	12/06/18 08:43	12/07/18 15:56	90-12-0	
2-Methylnaphthalene	<0.67	ug/kg	13.3	0.67	1	12/06/18 08:43	12/07/18 15:56	91-57-6	
Acenaphthene	<0.54	ug/kg	13.3	0.54	1	12/06/18 08:43	12/07/18 15:56	83-32-9	
Acenaphthylene	<0.66	ug/kg	13.3	0.66	1	12/06/18 08:43	12/07/18 15:56	208-96-8	
Anthracene	<0.62	ug/kg	13.3	0.62	1	12/06/18 08:43	12/07/18 15:56	120-12-7	
Benzo(a)anthracene	3.9J	ug/kg	13.3	1.4	1	12/06/18 08:43	12/07/18 15:56	56-55-3	
Benzo(a)pyrene	4.5J	ug/kg	13.3	0.92	1	12/06/18 08:43	12/07/18 15:56	50-32-8	
Benzo(b)fluoranthene	6.2J	ug/kg	13.3	0.50	1	12/06/18 08:43	12/07/18 15:56	205-99-2	
Benzo(g,h,i)perylene	3.8J	ug/kg	13.3	0.84	1	12/06/18 08:43	12/07/18 15:56	191-24-2	
Benzo(k)fluoranthene	2.3J	ug/kg	13.3	1.1	1	12/06/18 08:43	12/07/18 15:56	207-08-9	
Chrysene	4.0J	ug/kg	13.3	1.8	1	12/06/18 08:43	12/07/18 15:56	218-01-9	
Dibenz(a,h)anthracene	<0.61	ug/kg	13.3	0.61	1	12/06/18 08:43	12/07/18 15:56	53-70-3	
Fluoranthene	5.7J	ug/kg	13.3	0.57	1	12/06/18 08:43	12/07/18 15:56	206-44-0	
Fluorene	<0.42	ug/kg	13.3	0.42	1	12/06/18 08:43	12/07/18 15:56	86-73-7	
Indeno(1,2,3-cd)pyrene	3.0J	ug/kg	13.3	0.89	1	12/06/18 08:43	12/07/18 15:56	193-39-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-27 (3.0-4.0)**      **Lab ID: 10457092054**      Collected: 11/29/18 11:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Naphthalene	<1.0	ug/kg	13.3	1.0	1	12/06/18 08:43	12/07/18 15:56	91-20-3	
Phenanthrene	<2.6	ug/kg	13.3	2.6	1	12/06/18 08:43	12/07/18 15:56	85-01-8	
Pyrene	5.5J	ug/kg	13.3	2.0	1	12/06/18 08:43	12/07/18 15:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	42-125		1	12/06/18 08:43	12/07/18 15:56	321-60-8	
p-Terphenyl-d14 (S)	68	%	57-125		1	12/06/18 08:43	12/07/18 15:56	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.3	0.30	1	03/04/19 09:00	03/04/19 14:05	106-93-4	
Methylene Chloride	<4.9	ug/kg	26.6	4.9	1	03/04/19 09:00	03/04/19 14:05	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	119	%	75-125		1	03/04/19 09:00	03/04/19 14:05	17060-07-0	5M, H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 14:05	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 14:05	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<29.6	ug/kg	94.3	29.6	1	12/12/18 14:29	12/12/18 21:29	630-20-6	
1,1,1-Trichloroethane	<44.0	ug/kg	94.3	44.0	1	12/12/18 14:29	12/12/18 21:29	71-55-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	94.3	16.6	1	12/12/18 14:29	12/12/18 21:29	79-34-5	
1,1,2-Trichloroethane	<11.3	ug/kg	94.3	11.3	1	12/12/18 14:29	12/12/18 21:29	79-00-5	
1,1,2-Trichlorotrifluoroethane	<109	ug/kg	377	109	1	12/12/18 14:29	12/12/18 21:29	76-13-1	
1,1-Dichloroethane	<10.6	ug/kg	94.3	10.6	1	12/12/18 14:29	12/12/18 21:29	75-34-3	
1,1-Dichloroethene	<28.3	ug/kg	94.3	28.3	1	12/12/18 14:29	12/12/18 21:29	75-35-4	
1,1-Dichloropropene	<43.6	ug/kg	94.3	43.6	1	12/12/18 14:29	12/12/18 21:29	563-58-6	
1,2,3-Trichlorobenzene	<15.1	ug/kg	94.3	15.1	1	12/12/18 14:29	12/12/18 21:29	87-61-6	
1,2,3-Trichloropropane	<24.7	ug/kg	377	24.7	1	12/12/18 14:29	12/12/18 21:29	96-18-4	
1,2,4-Trichlorobenzene	<20.9	ug/kg	94.3	20.9	1	12/12/18 14:29	12/12/18 21:29	120-82-1	
1,2,4-Trimethylbenzene	<18.9	ug/kg	94.3	18.9	1	12/12/18 14:29	12/12/18 21:29	95-63-6	
1,2-Dibromo-3-chloropropane	<328	ug/kg	943	328	1	12/12/18 14:29	12/12/18 21:29	96-12-8	
1,2-Dibromoethane (EDB)	<9.9	ug/kg	94.3	9.9	1	12/12/18 14:29	12/12/18 21:29	106-93-4	
1,2-Dichlorobenzene	<3.8	ug/kg	94.3	3.8	1	12/12/18 14:29	12/12/18 21:29	95-50-1	
1,2-Dichloroethane	<10.4	ug/kg	94.3	10.4	1	12/12/18 14:29	12/12/18 21:29	107-06-2	
1,2-Dichloropropane	<16.3	ug/kg	94.3	16.3	1	12/12/18 14:29	12/12/18 21:29	78-87-5	
1,3,5-Trimethylbenzene	<15.0	ug/kg	94.3	15.0	1	12/12/18 14:29	12/12/18 21:29	108-67-8	
1,3-Dichlorobenzene	<3.4	ug/kg	94.3	3.4	1	12/12/18 14:29	12/12/18 21:29	541-73-1	
1,3-Dichloropropane	<13.1	ug/kg	94.3	13.1	1	12/12/18 14:29	12/12/18 21:29	142-28-9	
1,4-Dichlorobenzene	<5.8	ug/kg	94.3	5.8	1	12/12/18 14:29	12/12/18 21:29	106-46-7	
2,2-Dichloropropane	<11.8	ug/kg	377	11.8	1	12/12/18 14:29	12/12/18 21:29	594-20-7	
2-Butanone (MEK)	<50.2	ug/kg	472	50.2	1	12/12/18 14:29	12/12/18 21:29	78-93-3	
2-Chlorotoluene	<4.6	ug/kg	94.3	4.6	1	12/12/18 14:29	12/12/18 21:29	95-49-8	
4-Chlorotoluene	<4.8	ug/kg	94.3	4.8	1	12/12/18 14:29	12/12/18 21:29	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.6	ug/kg	472	19.6	1	12/12/18 14:29	12/12/18 21:29	108-10-1	
Acetone	<587	ug/kg	1890	587	1	12/12/18 14:29	12/12/18 21:29	67-64-1	
Allyl chloride	<79.1	ug/kg	377	79.1	1	12/12/18 14:29	12/12/18 21:29	107-05-1	
Benzene	<5.3	ug/kg	37.7	5.3	1	12/12/18 14:29	12/12/18 21:29	71-43-2	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-27 (3.0-4.0)**      **Lab ID: 10457092054**      Collected: 11/29/18 11:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Bromobenzene	<5.8	ug/kg	94.3	5.8	1	12/12/18 14:29	12/12/18 21:29	108-86-1	
Bromochloromethane	<32.6	ug/kg	94.3	32.6	1	12/12/18 14:29	12/12/18 21:29	74-97-5	
Bromodichloromethane	<32.3	ug/kg	94.3	32.3	1	12/12/18 14:29	12/12/18 21:29	75-27-4	
Bromoform	<143	ug/kg	377	143	1	12/12/18 14:29	12/12/18 21:29	75-25-2	
Bromomethane	<110	ug/kg	943	110	1	12/12/18 14:29	12/12/18 21:29	74-83-9	
Carbon tetrachloride	<45.1	ug/kg	377	45.1	1	12/12/18 14:29	12/12/18 21:29	56-23-5	
Chlorobenzene	<5.3	ug/kg	94.3	5.3	1	12/12/18 14:29	12/12/18 21:29	108-90-7	
Chloroethane	<49.1	ug/kg	943	49.1	1	12/12/18 14:29	12/12/18 21:29	75-00-3	
Chloroform	<47.2	ug/kg	94.3	47.2	1	12/12/18 14:29	12/12/18 21:29	67-66-3	
Chloromethane	<22.6	ug/kg	377	22.6	1	12/12/18 14:29	12/12/18 21:29	74-87-3	
Dibromochloromethane	<10.9	ug/kg	377	10.9	1	12/12/18 14:29	12/12/18 21:29	124-48-1	
Dibromomethane	<17.3	ug/kg	94.3	17.3	1	12/12/18 14:29	12/12/18 21:29	74-95-3	
Dichlorodifluoromethane	<30.6	ug/kg	377	30.6	1	12/12/18 14:29	12/12/18 21:29	75-71-8	
Dichlorofluoromethane	<130	ug/kg	943	130	1	12/12/18 14:29	12/12/18 21:29	75-43-4	N2
Diethyl ether (Ethyl ether)	<57.7	ug/kg	377	57.7	1	12/12/18 14:29	12/12/18 21:29	60-29-7	
Ethylbenzene	<5.1	ug/kg	94.3	5.1	1	12/12/18 14:29	12/12/18 21:29	100-41-4	
Hexachloro-1,3-butadiene	<23.0	ug/kg	472	23.0	1	12/12/18 14:29	12/12/18 21:29	87-68-3	
Isopropylbenzene (Cumene)	<4.2	ug/kg	94.3	4.2	1	12/12/18 14:29	12/12/18 21:29	98-82-8	
Methyl-tert-butyl ether	<11.2	ug/kg	94.3	11.2	1	12/12/18 14:29	12/12/18 21:29	1634-04-4	
Methylene Chloride	<178	ug/kg	377	178	1	12/12/18 14:29	12/12/18 21:29	75-09-2	
Naphthalene	<88.3	ug/kg	377	88.3	1	12/12/18 14:29	12/12/18 21:29	91-20-3	
Styrene	<4.3	ug/kg	94.3	4.3	1	12/12/18 14:29	12/12/18 21:29	100-42-5	
Tetrachloroethene	<33.2	ug/kg	94.3	33.2	1	12/12/18 14:29	12/12/18 21:29	127-18-4	
Tetrahydrofuran	<137	ug/kg	3770	137	1	12/12/18 14:29	12/12/18 21:29	109-99-9	
Toluene	<23.0	ug/kg	94.3	23.0	1	12/12/18 14:29	12/12/18 21:29	108-88-3	
Trichloroethene	<14.5	ug/kg	94.3	14.5	1	12/12/18 14:29	12/12/18 21:29	79-01-6	
Trichlorofluoromethane	<165	ug/kg	377	165	1	12/12/18 14:29	12/12/18 21:29	75-69-4	
Vinyl chloride	<18.6	ug/kg	37.7	18.6	1	12/12/18 14:29	12/12/18 21:29	75-01-4	
Xylene (Total)	<21.9	ug/kg	283	21.9	1	12/12/18 14:29	12/12/18 21:29	1330-20-7	
cis-1,2-Dichloroethene	<15.6	ug/kg	94.3	15.6	1	12/12/18 14:29	12/12/18 21:29	156-59-2	
cis-1,3-Dichloropropene	<13.5	ug/kg	94.3	13.5	1	12/12/18 14:29	12/12/18 21:29	10061-01-5	
n-Butylbenzene	<44.9	ug/kg	94.3	44.9	1	12/12/18 14:29	12/12/18 21:29	104-51-8	
n-Propylbenzene	<5.0	ug/kg	94.3	5.0	1	12/12/18 14:29	12/12/18 21:29	103-65-1	
p-Isopropyltoluene	<28.7	ug/kg	94.3	28.7	1	12/12/18 14:29	12/12/18 21:29	99-87-6	
sec-Butylbenzene	<18.1	ug/kg	94.3	18.1	1	12/12/18 14:29	12/12/18 21:29	135-98-8	
tert-Butylbenzene	<18.1	ug/kg	94.3	18.1	1	12/12/18 14:29	12/12/18 21:29	98-06-6	
trans-1,2-Dichloroethene	<44.2	ug/kg	94.3	44.2	1	12/12/18 14:29	12/12/18 21:29	156-60-5	
trans-1,3-Dichloropropene	<13.1	ug/kg	94.3	13.1	1	12/12/18 14:29	12/12/18 21:29	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	12/12/18 14:29	12/12/18 21:29	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/12/18 14:29	12/12/18 21:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 21:29	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (0.0-2.0)**      **Lab ID: 10457092055**      Collected: 11/29/18 12:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	41.9	11.7	1	12/04/18 14:03	12/06/18 10:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.9	14.7	1	12/04/18 14:03	12/06/18 10:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.8	ug/kg	41.9	16.8	1	12/04/18 14:03	12/06/18 10:01	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.2	ug/kg	41.9	14.2	1	12/04/18 14:03	12/06/18 10:01	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	41.9	12.6	1	12/04/18 14:03	12/06/18 10:01	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.9	12.3	1	12/04/18 14:03	12/06/18 10:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.0	ug/kg	41.9	10.0	1	12/04/18 14:03	12/06/18 10:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/04/18 14:03	12/06/18 10:01	877-09-8	
Decachlorobiphenyl (S)	84	%	30-134		1	12/04/18 14:03	12/06/18 10:01	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.0	3.1	1	12/03/18 14:49	12/10/18 19:38	68334-30-5	
Motor Oil Range	<5.5	mg/kg	12.6	5.5	1	12/03/18 14:49	12/10/18 19:38		
<b>Surrogates</b>									
n-Triacontane (S)	92	%	50-150		1	12/03/18 14:49	12/10/18 19:38	638-68-6	
o-Terphenyl (S)	91	%	50-150		1	12/03/18 14:49	12/10/18 19:38	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	1.7J	mg/kg	8.0	1.0	1	12/11/18 11:53	12/12/18 13:50		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	99	%	50-150		1	12/11/18 11:53	12/12/18 13:50	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.47	mg/kg	1.3	0.47	1	12/06/18 12:12	12/10/18 15:31	7440-36-0	
Arsenic	1.4	mg/kg	1.3	0.26	1	12/06/18 12:12	12/10/18 15:31	7440-38-2	
Beryllium	<0.017	mg/kg	0.31	0.017	1	12/06/18 12:12	12/10/18 15:31	7440-41-7	
Cadmium	0.24	mg/kg	0.19	0.025	1	12/06/18 12:12	12/10/18 15:31	7440-43-9	
Chromium	6.0	mg/kg	0.63	0.11	1	12/06/18 12:12	12/10/18 15:31	7440-47-3	
Copper	46.3	mg/kg	0.63	0.069	1	12/06/18 12:12	12/10/18 15:31	7440-50-8	
Lead	22.0	mg/kg	0.63	0.14	1	12/06/18 12:12	12/10/18 15:31	7439-92-1	
Nickel	5.7	mg/kg	1.3	0.079	1	12/06/18 12:12	12/10/18 15:31	7440-02-0	
Selenium	<0.41	mg/kg	1.3	0.41	1	12/06/18 12:12	12/10/18 15:31	7782-49-2	
Silver	<0.045	mg/kg	0.63	0.045	1	12/06/18 12:12	12/10/18 15:31	7440-22-4	
Thallium	0.61J	mg/kg	1.3	0.29	1	12/06/18 12:12	12/10/18 15:31	7440-28-0	
Zinc	68.7	mg/kg	1.3	0.55	1	12/06/18 12:12	12/10/18 15:31	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.032	mg/kg	0.026	0.010	1	12/06/18 12:13	12/12/18 12:47	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.6	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.68	ug/kg	12.7	0.68	1	12/06/18 08:43	12/07/18 16:38	90-12-0	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (0.0-2.0)**      **Lab ID: 10457092055**      Collected: 11/29/18 12:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
2-Methylnaphthalene	<0.64	ug/kg	12.7	0.64	1	12/06/18 08:43	12/07/18 16:38	91-57-6	
Acenaphthene	<0.52	ug/kg	12.7	0.52	1	12/06/18 08:43	12/07/18 16:38	83-32-9	
Acenaphthylene	<0.63	ug/kg	12.7	0.63	1	12/06/18 08:43	12/07/18 16:38	208-96-8	
Anthracene	4.3J	ug/kg	12.7	0.60	1	12/06/18 08:43	12/07/18 16:38	120-12-7	
Benzo(a)anthracene	7.9J	ug/kg	12.7	1.4	1	12/06/18 08:43	12/07/18 16:38	56-55-3	
Benzo(a)pyrene	9.4J	ug/kg	12.7	0.87	1	12/06/18 08:43	12/07/18 16:38	50-32-8	
Benzo(b)fluoranthene	15.0	ug/kg	12.7	0.48	1	12/06/18 08:43	12/07/18 16:38	205-99-2	
Benzo(g,h,i)perylene	10.6J	ug/kg	12.7	0.81	1	12/06/18 08:43	12/07/18 16:38	191-24-2	
Benzo(k)fluoranthene	6.0J	ug/kg	12.7	1.1	1	12/06/18 08:43	12/07/18 16:38	207-08-9	
Chrysene	10.3J	ug/kg	12.7	1.7	1	12/06/18 08:43	12/07/18 16:38	218-01-9	
Dibenz(a,h)anthracene	<0.59	ug/kg	12.7	0.59	1	12/06/18 08:43	12/07/18 16:38	53-70-3	
Fluoranthene	10.3J	ug/kg	12.7	0.55	1	12/06/18 08:43	12/07/18 16:38	206-44-0	
Fluorene	<0.40	ug/kg	12.7	0.40	1	12/06/18 08:43	12/07/18 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	8.1J	ug/kg	12.7	0.85	1	12/06/18 08:43	12/07/18 16:38	193-39-5	
Naphthalene	<0.98	ug/kg	12.7	0.98	1	12/06/18 08:43	12/07/18 16:38	91-20-3	
Phenanthrene	5.1J	ug/kg	12.7	2.4	1	12/06/18 08:43	12/07/18 16:38	85-01-8	
Pyrene	11.9J	ug/kg	12.7	1.9	1	12/06/18 08:43	12/07/18 16:38	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	42-125		1	12/06/18 08:43	12/07/18 16:38	321-60-8	
p-Terphenyl-d14 (S)	71	%	57-125		1	12/06/18 08:43	12/07/18 16:38	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	03/04/19 09:00	03/04/19 14:24	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.5	4.5	1	03/04/19 09:00	03/04/19 14:24	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	120	%	75-125		1	03/04/19 09:00	03/04/19 14:24	17060-07-0	5M, H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 14:24	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/04/19 09:00	03/04/19 14:24	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<30.3	ug/kg	96.3	30.3	1	12/12/18 14:29	12/12/18 21:46	630-20-6	
1,1,1-Trichloroethane	<44.9	ug/kg	96.3	44.9	1	12/12/18 14:29	12/12/18 21:46	71-55-6	
1,1,2,2-Tetrachloroethane	<17.0	ug/kg	96.3	17.0	1	12/12/18 14:29	12/12/18 21:46	79-34-5	
1,1,2-Trichloroethane	<11.5	ug/kg	96.3	11.5	1	12/12/18 14:29	12/12/18 21:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	<112	ug/kg	385	112	1	12/12/18 14:29	12/12/18 21:46	76-13-1	
1,1-Dichloroethane	<10.8	ug/kg	96.3	10.8	1	12/12/18 14:29	12/12/18 21:46	75-34-3	
1,1-Dichloroethene	<28.9	ug/kg	96.3	28.9	1	12/12/18 14:29	12/12/18 21:46	75-35-4	
1,1-Dichloropropene	<44.5	ug/kg	96.3	44.5	1	12/12/18 14:29	12/12/18 21:46	563-58-6	
1,2,3-Trichlorobenzene	<15.4	ug/kg	96.3	15.4	1	12/12/18 14:29	12/12/18 21:46	87-61-6	
1,2,3-Trichloropropane	<25.2	ug/kg	385	25.2	1	12/12/18 14:29	12/12/18 21:46	96-18-4	
1,2,4-Trichlorobenzene	<21.4	ug/kg	96.3	21.4	1	12/12/18 14:29	12/12/18 21:46	120-82-1	
1,2,4-Trimethylbenzene	<19.3	ug/kg	96.3	19.3	1	12/12/18 14:29	12/12/18 21:46	95-63-6	
1,2-Dibromo-3-chloropropane	<335	ug/kg	963	335	1	12/12/18 14:29	12/12/18 21:46	96-12-8	
1,2-Dibromoethane (EDB)	<10.1	ug/kg	96.3	10.1	1	12/12/18 14:29	12/12/18 21:46	106-93-4	
1,2-Dichlorobenzene	<3.9	ug/kg	96.3	3.9	1	12/12/18 14:29	12/12/18 21:46	95-50-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (0.0-2.0)**      **Lab ID: 10457092055**      Collected: 11/29/18 12:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichloroethane	<10.6	ug/kg	96.3	10.6	1	12/12/18 14:29	12/12/18 21:46	107-06-2	
1,2-Dichloropropane	<16.6	ug/kg	96.3	16.6	1	12/12/18 14:29	12/12/18 21:46	78-87-5	
1,3,5-Trimethylbenzene	<15.4	ug/kg	96.3	15.4	1	12/12/18 14:29	12/12/18 21:46	108-67-8	
1,3-Dichlorobenzene	<3.5	ug/kg	96.3	3.5	1	12/12/18 14:29	12/12/18 21:46	541-73-1	
1,3-Dichloropropane	<13.3	ug/kg	96.3	13.3	1	12/12/18 14:29	12/12/18 21:46	142-28-9	
1,4-Dichlorobenzene	<6.0	ug/kg	96.3	6.0	1	12/12/18 14:29	12/12/18 21:46	106-46-7	
2,2-Dichloropropane	<12.0	ug/kg	385	12.0	1	12/12/18 14:29	12/12/18 21:46	594-20-7	
2-Butanone (MEK)	<51.3	ug/kg	482	51.3	1	12/12/18 14:29	12/12/18 21:46	78-93-3	
2-Chlorotoluene	<4.7	ug/kg	96.3	4.7	1	12/12/18 14:29	12/12/18 21:46	95-49-8	
4-Chlorotoluene	<4.9	ug/kg	96.3	4.9	1	12/12/18 14:29	12/12/18 21:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<20.0	ug/kg	482	20.0	1	12/12/18 14:29	12/12/18 21:46	108-10-1	
Acetone	<599	ug/kg	1930	599	1	12/12/18 14:29	12/12/18 21:46	67-64-1	
Allyl chloride	<80.7	ug/kg	385	80.7	1	12/12/18 14:29	12/12/18 21:46	107-05-1	
Benzene	<5.4	ug/kg	38.5	5.4	1	12/12/18 14:29	12/12/18 21:46	71-43-2	
Bromobenzene	<5.9	ug/kg	96.3	5.9	1	12/12/18 14:29	12/12/18 21:46	108-86-1	
Bromochloromethane	<33.3	ug/kg	96.3	33.3	1	12/12/18 14:29	12/12/18 21:46	74-97-5	
Bromodichloromethane	<33.0	ug/kg	96.3	33.0	1	12/12/18 14:29	12/12/18 21:46	75-27-4	
Bromoform	<146	ug/kg	385	146	1	12/12/18 14:29	12/12/18 21:46	75-25-2	
Bromomethane	<113	ug/kg	963	113	1	12/12/18 14:29	12/12/18 21:46	74-83-9	
Carbon tetrachloride	<46.1	ug/kg	385	46.1	1	12/12/18 14:29	12/12/18 21:46	56-23-5	
Chlorobenzene	<5.4	ug/kg	96.3	5.4	1	12/12/18 14:29	12/12/18 21:46	108-90-7	
Chloroethane	<50.1	ug/kg	963	50.1	1	12/12/18 14:29	12/12/18 21:46	75-00-3	
Chloroform	<48.2	ug/kg	96.3	48.2	1	12/12/18 14:29	12/12/18 21:46	67-66-3	
Chloromethane	<23.1	ug/kg	385	23.1	1	12/12/18 14:29	12/12/18 21:46	74-87-3	
Dibromochloromethane	<11.2	ug/kg	385	11.2	1	12/12/18 14:29	12/12/18 21:46	124-48-1	
Dibromomethane	<17.7	ug/kg	96.3	17.7	1	12/12/18 14:29	12/12/18 21:46	74-95-3	
Dichlorodifluoromethane	<31.2	ug/kg	385	31.2	1	12/12/18 14:29	12/12/18 21:46	75-71-8	
Dichlorofluoromethane	<133	ug/kg	963	133	1	12/12/18 14:29	12/12/18 21:46	75-43-4	N2
Diethyl ether (Ethyl ether)	<59.0	ug/kg	385	59.0	1	12/12/18 14:29	12/12/18 21:46	60-29-7	
Ethylbenzene	<5.2	ug/kg	96.3	5.2	1	12/12/18 14:29	12/12/18 21:46	100-41-4	
Hexachloro-1,3-butadiene	<23.5	ug/kg	482	23.5	1	12/12/18 14:29	12/12/18 21:46	87-68-3	
Isopropylbenzene (Cumene)	<4.3	ug/kg	96.3	4.3	1	12/12/18 14:29	12/12/18 21:46	98-82-8	
Methyl-tert-butyl ether	<11.5	ug/kg	96.3	11.5	1	12/12/18 14:29	12/12/18 21:46	1634-04-4	
Methylene Chloride	<181	ug/kg	385	181	1	12/12/18 14:29	12/12/18 21:46	75-09-2	
Naphthalene	<90.2	ug/kg	385	90.2	1	12/12/18 14:29	12/12/18 21:46	91-20-3	
Styrene	<4.4	ug/kg	96.3	4.4	1	12/12/18 14:29	12/12/18 21:46	100-42-5	
Tetrachloroethene	<33.9	ug/kg	96.3	33.9	1	12/12/18 14:29	12/12/18 21:46	127-18-4	
Tetrahydrofuran	<140	ug/kg	3850	140	1	12/12/18 14:29	12/12/18 21:46	109-99-9	
Toluene	<23.5	ug/kg	96.3	23.5	1	12/12/18 14:29	12/12/18 21:46	108-88-3	
Trichloroethene	<14.9	ug/kg	96.3	14.9	1	12/12/18 14:29	12/12/18 21:46	79-01-6	
Trichlorofluoromethane	<168	ug/kg	385	168	1	12/12/18 14:29	12/12/18 21:46	75-69-4	
Vinyl chloride	<19.0	ug/kg	38.5	19.0	1	12/12/18 14:29	12/12/18 21:46	75-01-4	
Xylene (Total)	<22.4	ug/kg	289	22.4	1	12/12/18 14:29	12/12/18 21:46	1330-20-7	
cis-1,2-Dichloroethene	<16.0	ug/kg	96.3	16.0	1	12/12/18 14:29	12/12/18 21:46	156-59-2	
cis-1,3-Dichloropropene	<13.8	ug/kg	96.3	13.8	1	12/12/18 14:29	12/12/18 21:46	10061-01-5	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (0.0-2.0)**      **Lab ID: 10457092055**      Collected: 11/29/18 12:15      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
n-Butylbenzene	<45.9	ug/kg	96.3	45.9	1	12/12/18 14:29	12/12/18 21:46	104-51-8	
n-Propylbenzene	<5.1	ug/kg	96.3	5.1	1	12/12/18 14:29	12/12/18 21:46	103-65-1	
p-Isopropyltoluene	<29.3	ug/kg	96.3	29.3	1	12/12/18 14:29	12/12/18 21:46	99-87-6	
sec-Butylbenzene	<18.5	ug/kg	96.3	18.5	1	12/12/18 14:29	12/12/18 21:46	135-98-8	
tert-Butylbenzene	<18.5	ug/kg	96.3	18.5	1	12/12/18 14:29	12/12/18 21:46	98-06-6	
trans-1,2-Dichloroethene	<45.1	ug/kg	96.3	45.1	1	12/12/18 14:29	12/12/18 21:46	156-60-5	
trans-1,3-Dichloropropene	<13.4	ug/kg	96.3	13.4	1	12/12/18 14:29	12/12/18 21:46	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	12/12/18 14:29	12/12/18 21:46	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 21:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/12/18 14:29	12/12/18 21:46	460-00-4	

**Sample: DP-28 (2.0-4.0)**      **Lab ID: 10457092056**      Collected: 11/29/18 12:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.0	ug/kg	43.1	12.0	1	12/04/18 14:03	12/06/18 10:17	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.2	ug/kg	43.1	15.2	1	12/04/18 14:03	12/06/18 10:17	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.3	ug/kg	43.1	17.3	1	12/04/18 14:03	12/06/18 10:17	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.6	ug/kg	43.1	14.6	1	12/04/18 14:03	12/06/18 10:17	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.9	ug/kg	43.1	12.9	1	12/04/18 14:03	12/06/18 10:17	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.7	ug/kg	43.1	12.7	1	12/04/18 14:03	12/06/18 10:17	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.3	ug/kg	43.1	10.3	1	12/04/18 14:03	12/06/18 10:17	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	48-125		1	12/04/18 14:03	12/06/18 10:17	877-09-8	
Decachlorobiphenyl (S)	80	%	30-134		1	12/04/18 14:03	12/06/18 10:17	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.2	mg/kg	19.6	3.2	1	12/03/18 14:49	12/10/18 19:49	68334-30-5	
Motor Oil Range	<5.7	mg/kg	13.1	5.7	1	12/03/18 14:49	12/10/18 19:49		
<b>Surrogates</b>									
n-Triacontane (S)	93	%	50-150		1	12/03/18 14:49	12/10/18 19:49	638-68-6	
o-Terphenyl (S)	92	%	50-150		1	12/03/18 14:49	12/10/18 19:49	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	5.7J	mg/kg	8.6	1.1	1	12/11/18 11:53	12/12/18 14:23		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 11:53	12/12/18 14:23	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.48	mg/kg	1.3	0.48	1	12/06/18 12:12	12/10/18 15:33	7440-36-0	
Arsenic	1.0J	mg/kg	1.3	0.26	1	12/06/18 12:12	12/10/18 15:33	7440-38-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (2.0-4.0)      Lab ID: 10457092056      Collected: 11/29/18 12:25      Received: 11/30/18 09:55      Matrix: Solid**

**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Beryllium	<0.017	mg/kg	0.32	0.017	1	12/06/18 12:12	12/10/18 15:33	7440-41-7	
Cadmium	<0.025	mg/kg	0.19	0.025	1	12/06/18 12:12	12/10/18 15:33	7440-43-9	
Chromium	4.7	mg/kg	0.64	0.11	1	12/06/18 12:12	12/10/18 15:33	7440-47-3	
Copper	14.7	mg/kg	0.64	0.071	1	12/06/18 12:12	12/10/18 15:33	7440-50-8	
Lead	4.1	mg/kg	0.64	0.14	1	12/06/18 12:12	12/10/18 15:33	7439-92-1	
Nickel	4.6	mg/kg	1.3	0.080	1	12/06/18 12:12	12/10/18 15:33	7440-02-0	
Selenium	<0.42	mg/kg	1.3	0.42	1	12/06/18 12:12	12/10/18 15:33	7782-49-2	
Silver	<0.046	mg/kg	0.64	0.046	1	12/06/18 12:12	12/10/18 15:33	7440-22-4	
Thallium	0.37J	mg/kg	1.3	0.29	1	12/06/18 12:12	12/10/18 15:33	7440-28-0	
Zinc	32.6	mg/kg	1.3	0.56	1	12/06/18 12:12	12/10/18 15:33	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0093	mg/kg	0.023	0.0093	1	12/06/18 12:13	12/12/18 12:49	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.1	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.70	ug/kg	13.2	0.70	1	12/06/18 08:43	12/07/18 17:01	90-12-0	
2-Methylnaphthalene	<0.66	ug/kg	13.2	0.66	1	12/06/18 08:43	12/07/18 17:01	91-57-6	
Acenaphthene	<0.54	ug/kg	13.2	0.54	1	12/06/18 08:43	12/07/18 17:01	83-32-9	
Acenaphthylene	<0.65	ug/kg	13.2	0.65	1	12/06/18 08:43	12/07/18 17:01	208-96-8	
Anthracene	1.8J	ug/kg	13.2	0.62	1	12/06/18 08:43	12/07/18 17:01	120-12-7	
Benzo(a)anthracene	4.9J	ug/kg	13.2	1.4	1	12/06/18 08:43	12/07/18 17:01	56-55-3	
Benzo(a)pyrene	3.3J	ug/kg	13.2	0.90	1	12/06/18 08:43	12/07/18 17:01	50-32-8	
Benzo(b)fluoranthene	4.8J	ug/kg	13.2	0.49	1	12/06/18 08:43	12/07/18 17:01	205-99-2	
Benzo(g,h,i)perylene	<0.83	ug/kg	13.2	0.83	1	12/06/18 08:43	12/07/18 17:01	191-24-2	
Benzo(k)fluoranthene	1.7J	ug/kg	13.2	1.1	1	12/06/18 08:43	12/07/18 17:01	207-08-9	
Chrysene	4.2J	ug/kg	13.2	1.8	1	12/06/18 08:43	12/07/18 17:01	218-01-9	
Dibenz(a,h)anthracene	<0.61	ug/kg	13.2	0.61	1	12/06/18 08:43	12/07/18 17:01	53-70-3	
Fluoranthene	9.0J	ug/kg	13.2	0.56	1	12/06/18 08:43	12/07/18 17:01	206-44-0	
Fluorene	<0.41	ug/kg	13.2	0.41	1	12/06/18 08:43	12/07/18 17:01	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.88	ug/kg	13.2	0.88	1	12/06/18 08:43	12/07/18 17:01	193-39-5	
Naphthalene	<1.0	ug/kg	13.2	1.0	1	12/06/18 08:43	12/07/18 17:01	91-20-3	
Phenanthrene	5.5J	ug/kg	13.2	2.5	1	12/06/18 08:43	12/07/18 17:01	85-01-8	
Pyrene	6.9J	ug/kg	13.2	2.0	1	12/06/18 08:43	12/07/18 17:01	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65	%	42-125		1	12/06/18 08:43	12/07/18 17:01	321-60-8	
p-Terphenyl-d14 (S)	68	%	57-125		1	12/06/18 08:43	12/07/18 17:01	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/04/19 09:00	03/04/19 14:43	106-93-4	
Methylene Chloride	<4.8	ug/kg	26.0	4.8	1	03/04/19 09:00	03/04/19 14:43	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	123	%	75-125		1	03/04/19 09:00	03/04/19 14:43	17060-07-0	5M,H3

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (2.0-4.0)**      **Lab ID: 10457092056**      Collected: 11/29/18 12:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 14:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/04/19 09:00	03/04/19 14:43	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<29.5	ug/kg	94.1	29.5	1	12/12/18 14:29	12/12/18 22:04	630-20-6	
1,1,1-Trichloroethane	<43.8	ug/kg	94.1	43.8	1	12/12/18 14:29	12/12/18 22:04	71-55-6	
1,1,2,2-Tetrachloroethane	<16.6	ug/kg	94.1	16.6	1	12/12/18 14:29	12/12/18 22:04	79-34-5	
1,1,2-Trichloroethane	<11.3	ug/kg	94.1	11.3	1	12/12/18 14:29	12/12/18 22:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	<109	ug/kg	376	109	1	12/12/18 14:29	12/12/18 22:04	76-13-1	
1,1-Dichloroethane	<10.6	ug/kg	94.1	10.6	1	12/12/18 14:29	12/12/18 22:04	75-34-3	
1,1-Dichloroethene	<28.2	ug/kg	94.1	28.2	1	12/12/18 14:29	12/12/18 22:04	75-35-4	
1,1-Dichloropropene	<43.5	ug/kg	94.1	43.5	1	12/12/18 14:29	12/12/18 22:04	563-58-6	
1,2,3-Trichlorobenzene	<15.0	ug/kg	94.1	15.0	1	12/12/18 14:29	12/12/18 22:04	87-61-6	
1,2,3-Trichloropropane	<24.6	ug/kg	376	24.6	1	12/12/18 14:29	12/12/18 22:04	96-18-4	
1,2,4-Trichlorobenzene	<20.9	ug/kg	94.1	20.9	1	12/12/18 14:29	12/12/18 22:04	120-82-1	
1,2,4-Trimethylbenzene	<18.8	ug/kg	94.1	18.8	1	12/12/18 14:29	12/12/18 22:04	95-63-6	
1,2-Dibromo-3-chloropropane	<327	ug/kg	941	327	1	12/12/18 14:29	12/12/18 22:04	96-12-8	
1,2-Dibromoethane (EDB)	<9.9	ug/kg	94.1	9.9	1	12/12/18 14:29	12/12/18 22:04	106-93-4	
1,2-Dichlorobenzene	<3.8	ug/kg	94.1	3.8	1	12/12/18 14:29	12/12/18 22:04	95-50-1	
1,2-Dichloroethane	<10.3	ug/kg	94.1	10.3	1	12/12/18 14:29	12/12/18 22:04	107-06-2	
1,2-Dichloropropane	<16.2	ug/kg	94.1	16.2	1	12/12/18 14:29	12/12/18 22:04	78-87-5	
1,3,5-Trimethylbenzene	<15.0	ug/kg	94.1	15.0	1	12/12/18 14:29	12/12/18 22:04	108-67-8	
1,3-Dichlorobenzene	<3.4	ug/kg	94.1	3.4	1	12/12/18 14:29	12/12/18 22:04	541-73-1	
1,3-Dichloropropane	<13.0	ug/kg	94.1	13.0	1	12/12/18 14:29	12/12/18 22:04	142-28-9	
1,4-Dichlorobenzene	<5.8	ug/kg	94.1	5.8	1	12/12/18 14:29	12/12/18 22:04	106-46-7	
2,2-Dichloropropane	<11.7	ug/kg	376	11.7	1	12/12/18 14:29	12/12/18 22:04	594-20-7	
2-Butanone (MEK)	<50.0	ug/kg	470	50.0	1	12/12/18 14:29	12/12/18 22:04	78-93-3	
2-Chlorotoluene	<4.6	ug/kg	94.1	4.6	1	12/12/18 14:29	12/12/18 22:04	95-49-8	
4-Chlorotoluene	<4.8	ug/kg	94.1	4.8	1	12/12/18 14:29	12/12/18 22:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.6	ug/kg	470	19.6	1	12/12/18 14:29	12/12/18 22:04	108-10-1	
Acetone	<585	ug/kg	1880	585	1	12/12/18 14:29	12/12/18 22:04	67-64-1	
Allyl chloride	<78.8	ug/kg	376	78.8	1	12/12/18 14:29	12/12/18 22:04	107-05-1	
Benzene	<5.3	ug/kg	37.6	5.3	1	12/12/18 14:29	12/12/18 22:04	71-43-2	
Bromobenzene	<5.8	ug/kg	94.1	5.8	1	12/12/18 14:29	12/12/18 22:04	108-86-1	
Bromochloromethane	<32.5	ug/kg	94.1	32.5	1	12/12/18 14:29	12/12/18 22:04	74-97-5	
Bromodichloromethane	<32.2	ug/kg	94.1	32.2	1	12/12/18 14:29	12/12/18 22:04	75-27-4	
Bromoform	<142	ug/kg	376	142	1	12/12/18 14:29	12/12/18 22:04	75-25-2	
Bromomethane	<110	ug/kg	941	110	1	12/12/18 14:29	12/12/18 22:04	74-83-9	
Carbon tetrachloride	<45.0	ug/kg	376	45.0	1	12/12/18 14:29	12/12/18 22:04	56-23-5	
Chlorobenzene	<5.3	ug/kg	94.1	5.3	1	12/12/18 14:29	12/12/18 22:04	108-90-7	
Chloroethane	<48.9	ug/kg	941	48.9	1	12/12/18 14:29	12/12/18 22:04	75-00-3	
Chloroform	<47.0	ug/kg	94.1	47.0	1	12/12/18 14:29	12/12/18 22:04	67-66-3	
Chloromethane	<22.6	ug/kg	376	22.6	1	12/12/18 14:29	12/12/18 22:04	74-87-3	
Dibromochloromethane	<10.9	ug/kg	376	10.9	1	12/12/18 14:29	12/12/18 22:04	124-48-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: DP-28 (2.0-4.0)**      **Lab ID: 10457092056**      Collected: 11/29/18 12:25      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Dibromomethane	<17.3	ug/kg	94.1	17.3	1	12/12/18 14:29	12/12/18 22:04	74-95-3	
Dichlorodifluoromethane	<30.5	ug/kg	376	30.5	1	12/12/18 14:29	12/12/18 22:04	75-71-8	
Dichlorofluoromethane	<130	ug/kg	941	130	1	12/12/18 14:29	12/12/18 22:04	75-43-4	N2
Diethyl ether (Ethyl ether)	<57.6	ug/kg	376	57.6	1	12/12/18 14:29	12/12/18 22:04	60-29-7	
Ethylbenzene	<5.1	ug/kg	94.1	5.1	1	12/12/18 14:29	12/12/18 22:04	100-41-4	
Hexachloro-1,3-butadiene	<23.0	ug/kg	470	23.0	1	12/12/18 14:29	12/12/18 22:04	87-68-3	
Isopropylbenzene (Cumene)	<4.2	ug/kg	94.1	4.2	1	12/12/18 14:29	12/12/18 22:04	98-82-8	
Methyl-tert-butyl ether	<11.2	ug/kg	94.1	11.2	1	12/12/18 14:29	12/12/18 22:04	1634-04-4	
Methylene Chloride	<177	ug/kg	376	177	1	12/12/18 14:29	12/12/18 22:04	75-09-2	
Naphthalene	<88.1	ug/kg	376	88.1	1	12/12/18 14:29	12/12/18 22:04	91-20-3	
Styrene	<4.3	ug/kg	94.1	4.3	1	12/12/18 14:29	12/12/18 22:04	100-42-5	
Tetrachloroethene	<33.1	ug/kg	94.1	33.1	1	12/12/18 14:29	12/12/18 22:04	127-18-4	
Tetrahydrofuran	<137	ug/kg	3760	137	1	12/12/18 14:29	12/12/18 22:04	109-99-9	
Toluene	<23.0	ug/kg	94.1	23.0	1	12/12/18 14:29	12/12/18 22:04	108-88-3	
Trichloroethene	<14.5	ug/kg	94.1	14.5	1	12/12/18 14:29	12/12/18 22:04	79-01-6	
Trichlorofluoromethane	<164	ug/kg	376	164	1	12/12/18 14:29	12/12/18 22:04	75-69-4	
Vinyl chloride	<18.5	ug/kg	37.6	18.5	1	12/12/18 14:29	12/12/18 22:04	75-01-4	
Xylene (Total)	<21.8	ug/kg	282	21.8	1	12/12/18 14:29	12/12/18 22:04	1330-20-7	
cis-1,2-Dichloroethene	<15.6	ug/kg	94.1	15.6	1	12/12/18 14:29	12/12/18 22:04	156-59-2	
cis-1,3-Dichloropropene	<13.5	ug/kg	94.1	13.5	1	12/12/18 14:29	12/12/18 22:04	10061-01-5	
n-Butylbenzene	<44.8	ug/kg	94.1	44.8	1	12/12/18 14:29	12/12/18 22:04	104-51-8	
n-Propylbenzene	<5.0	ug/kg	94.1	5.0	1	12/12/18 14:29	12/12/18 22:04	103-65-1	
p-Isopropyltoluene	<28.6	ug/kg	94.1	28.6	1	12/12/18 14:29	12/12/18 22:04	99-87-6	
sec-Butylbenzene	<18.0	ug/kg	94.1	18.0	1	12/12/18 14:29	12/12/18 22:04	135-98-8	
tert-Butylbenzene	<18.1	ug/kg	94.1	18.1	1	12/12/18 14:29	12/12/18 22:04	98-06-6	
trans-1,2-Dichloroethene	<44.0	ug/kg	94.1	44.0	1	12/12/18 14:29	12/12/18 22:04	156-60-5	
trans-1,3-Dichloropropene	<13.1	ug/kg	94.1	13.1	1	12/12/18 14:29	12/12/18 22:04	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	12/12/18 14:29	12/12/18 22:04	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/12/18 14:29	12/12/18 22:04	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/12/18 14:29	12/12/18 22:04	460-00-4	

**Sample: Trip Blanks**      **Lab ID: 10457092057**      Collected: 11/26/18 00:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<15.7	ug/kg	50.0	15.7	1	12/06/18 13:46	12/06/18 16:46	630-20-6	
1,1,1-Trichloroethane	<23.3	ug/kg	50.0	23.3	1	12/06/18 13:46	12/06/18 16:46	71-55-6	
1,1,2,2-Tetrachloroethane	<8.8	ug/kg	200	8.8	1	12/06/18 13:46	12/06/18 16:46	79-34-5	
1,1,2-Trichloroethane	<6.0	ug/kg	50.0	6.0	1	12/06/18 13:46	12/06/18 16:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	<58.0	ug/kg	200	58.0	1	12/06/18 13:46	12/06/18 16:46	76-13-1	
1,1-Dichloroethane	<5.6	ug/kg	50.0	5.6	1	12/06/18 13:46	12/06/18 16:46	75-34-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

**Sample: Trip Blanks**      **Lab ID: 10457092057**      Collected: 11/26/18 00:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethene	<15.0	ug/kg	200	15.0	1	12/06/18 13:46	12/06/18 16:46	75-35-4	
1,1-Dichloropropene	<23.1	ug/kg	50.0	23.1	1	12/06/18 13:46	12/06/18 16:46	563-58-6	
1,2,3-Trichlorobenzene	<8.0	ug/kg	50.0	8.0	1	12/06/18 13:46	12/06/18 16:46	87-61-6	
1,2,3-Trichloropropane	<13.1	ug/kg	200	13.1	1	12/06/18 13:46	12/06/18 16:46	96-18-4	
1,2,4-Trichlorobenzene	<11.1	ug/kg	50.0	11.1	1	12/06/18 13:46	12/06/18 16:46	120-82-1	
1,2,4-Trimethylbenzene	<10.0	ug/kg	50.0	10.0	1	12/06/18 13:46	12/06/18 16:46	95-63-6	
1,2-Dibromo-3-chloropropane	<174	ug/kg	500	174	1	12/06/18 13:46	12/06/18 16:46	96-12-8	
1,2-Dibromoethane (EDB)	<5.3	ug/kg	50.0	5.3	1	12/06/18 13:46	12/06/18 16:46	106-93-4	
1,2-Dichlorobenzene	<2.0	ug/kg	50.0	2.0	1	12/06/18 13:46	12/06/18 16:46	95-50-1	
1,2-Dichloroethane	<5.5	ug/kg	50.0	5.5	1	12/06/18 13:46	12/06/18 16:46	107-06-2	
1,2-Dichloropropane	<8.6	ug/kg	50.0	8.6	1	12/06/18 13:46	12/06/18 16:46	78-87-5	
1,3,5-Trimethylbenzene	<8.0	ug/kg	50.0	8.0	1	12/06/18 13:46	12/06/18 16:46	108-67-8	
1,3-Dichlorobenzene	<1.8	ug/kg	50.0	1.8	1	12/06/18 13:46	12/06/18 16:46	541-73-1	
1,3-Dichloropropane	<6.9	ug/kg	50.0	6.9	1	12/06/18 13:46	12/06/18 16:46	142-28-9	
1,4-Dichlorobenzene	<3.1	ug/kg	50.0	3.1	1	12/06/18 13:46	12/06/18 16:46	106-46-7	
2,2-Dichloropropane	<6.2	ug/kg	200	6.2	1	12/06/18 13:46	12/06/18 16:46	594-20-7	
2-Butanone (MEK)	<26.6	ug/kg	250	26.6	1	12/06/18 13:46	12/06/18 16:46	78-93-3	
2-Chlorotoluene	<2.5	ug/kg	50.0	2.5	1	12/06/18 13:46	12/06/18 16:46	95-49-8	
4-Chlorotoluene	<2.6	ug/kg	50.0	2.6	1	12/06/18 13:46	12/06/18 16:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<10.4	ug/kg	250	10.4	1	12/06/18 13:46	12/06/18 16:46	108-10-1	
Acetone	505J	ug/kg	1000	311	1	12/06/18 13:46	12/06/18 16:46	67-64-1	B
Allyl chloride	<41.9	ug/kg	200	41.9	1	12/06/18 13:46	12/06/18 16:46	107-05-1	
Benzene	<2.8	ug/kg	20.0	2.8	1	12/06/18 13:46	12/06/18 16:46	71-43-2	
Bromobenzene	<3.1	ug/kg	50.0	3.1	1	12/06/18 13:46	12/06/18 16:46	108-86-1	
Bromochloromethane	<17.3	ug/kg	50.0	17.3	1	12/06/18 13:46	12/06/18 16:46	74-97-5	
Bromodichloromethane	<17.1	ug/kg	50.0	17.1	1	12/06/18 13:46	12/06/18 16:46	75-27-4	
Bromoform	<75.7	ug/kg	200	75.7	1	12/06/18 13:46	12/06/18 16:46	75-25-2	
Bromomethane	<58.5	ug/kg	500	58.5	1	12/06/18 13:46	12/06/18 16:46	74-83-9	
Carbon tetrachloride	<23.9	ug/kg	50.0	23.9	1	12/06/18 13:46	12/06/18 16:46	56-23-5	
Chlorobenzene	<2.8	ug/kg	50.0	2.8	1	12/06/18 13:46	12/06/18 16:46	108-90-7	
Chloroethane	<26.0	ug/kg	500	26.0	1	12/06/18 13:46	12/06/18 16:46	75-00-3	
Chloroform	<25.0	ug/kg	50.0	25.0	1	12/06/18 13:46	12/06/18 16:46	67-66-3	
Chloromethane	<12.0	ug/kg	200	12.0	1	12/06/18 13:46	12/06/18 16:46	74-87-3	
Dibromochloromethane	<5.8	ug/kg	200	5.8	1	12/06/18 13:46	12/06/18 16:46	124-48-1	
Dibromomethane	<9.2	ug/kg	50.0	9.2	1	12/06/18 13:46	12/06/18 16:46	74-95-3	
Dichlorodifluoromethane	<16.2	ug/kg	200	16.2	1	12/06/18 13:46	12/06/18 16:46	75-71-8	
Dichlorofluoromethane	<69.1	ug/kg	500	69.1	1	12/06/18 13:46	12/06/18 16:46	75-43-4	N2
Diethyl ether (Ethyl ether)	<30.6	ug/kg	200	30.6	1	12/06/18 13:46	12/06/18 16:46	60-29-7	
Ethylbenzene	<2.7	ug/kg	50.0	2.7	1	12/06/18 13:46	12/06/18 16:46	100-41-4	
Hexachloro-1,3-butadiene	<12.2	ug/kg	250	12.2	1	12/06/18 13:46	12/06/18 16:46	87-68-3	
Isopropylbenzene (Cumene)	<2.2	ug/kg	50.0	2.2	1	12/06/18 13:46	12/06/18 16:46	98-82-8	
Methyl-tert-butyl ether	<6.0	ug/kg	50.0	6.0	1	12/06/18 13:46	12/06/18 16:46	1634-04-4	
Methylene Chloride	<94.1	ug/kg	200	94.1	1	12/06/18 13:46	12/06/18 16:46	75-09-2	
Naphthalene	<46.8	ug/kg	200	46.8	1	12/06/18 13:46	12/06/18 16:46	91-20-3	
Styrene	<2.3	ug/kg	50.0	2.3	1	12/06/18 13:46	12/06/18 16:46	100-42-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

**Sample: Trip Blanks**      **Lab ID: 10457092057**      Collected: 11/26/18 00:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Tetrachloroethene	<17.6	ug/kg	50.0	17.6	1	12/06/18 13:46	12/06/18 16:46	127-18-4	
Tetrahydrofuran	<72.7	ug/kg	2000	72.7	1	12/06/18 13:46	12/06/18 16:46	109-99-9	
Toluene	<12.2	ug/kg	50.0	12.2	1	12/06/18 13:46	12/06/18 16:46	108-88-3	
Trichloroethene	<7.7	ug/kg	50.0	7.7	1	12/06/18 13:46	12/06/18 16:46	79-01-6	
Trichlorofluoromethane	<87.2	ug/kg	200	87.2	1	12/06/18 13:46	12/06/18 16:46	75-69-4	
Vinyl chloride	<9.8	ug/kg	50.0	9.8	1	12/06/18 13:46	12/06/18 16:46	75-01-4	
Xylene (Total)	<11.6	ug/kg	150	11.6	1	12/06/18 13:46	12/06/18 16:46	1330-20-7	
cis-1,2-Dichloroethene	<8.3	ug/kg	50.0	8.3	1	12/06/18 13:46	12/06/18 16:46	156-59-2	
cis-1,3-Dichloropropene	<7.2	ug/kg	50.0	7.2	1	12/06/18 13:46	12/06/18 16:46	10061-01-5	
n-Butylbenzene	<23.8	ug/kg	50.0	23.8	1	12/06/18 13:46	12/06/18 16:46	104-51-8	
n-Propylbenzene	<2.7	ug/kg	50.0	2.7	1	12/06/18 13:46	12/06/18 16:46	103-65-1	
p-Isopropyltoluene	<15.2	ug/kg	50.0	15.2	1	12/06/18 13:46	12/06/18 16:46	99-87-6	
sec-Butylbenzene	<9.6	ug/kg	50.0	9.6	1	12/06/18 13:46	12/06/18 16:46	135-98-8	
tert-Butylbenzene	<9.6	ug/kg	50.0	9.6	1	12/06/18 13:46	12/06/18 16:46	98-06-6	
trans-1,2-Dichloroethene	<23.4	ug/kg	50.0	23.4	1	12/06/18 13:46	12/06/18 16:46	156-60-5	
trans-1,3-Dichloropropene	<7.0	ug/kg	50.0	7.0	1	12/06/18 13:46	12/06/18 16:46	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/06/18 13:46	12/06/18 16:46	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/06/18 16:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/06/18 13:46	12/06/18 16:46	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 579273 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008

METHOD BLANK: 3142056 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/07/18 17:46	
a,a,a-Trifluorotoluene (S)	%	79	50-150		12/07/18 17:46	

METHOD BLANK: 3142057 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/07/18 18:03	
a,a,a-Trifluorotoluene (S)	%	76	50-150		12/07/18 18:03	

Parameter	Units	3142058		3142059		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
TPH as Gas	mg/kg	50	46.9	49.7	94	99	6	20	
a,a,a-Trifluorotoluene (S)	%				72	75			

SAMPLE DUPLICATE: 3144035

Parameter	Units	10457121001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.76	<0.82		30	
a,a,a-Trifluorotoluene (S)	%	69	75			

SAMPLE DUPLICATE: 3144036

Parameter	Units	10457121003 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.68	<0.68		30	
a,a,a-Trifluorotoluene (S)	%	70	77			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	579690	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Solid GCV
Associated Lab Samples:	10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024		

METHOD BLANK:	3144209	Matrix:	Solid
Associated Lab Samples:	10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 03:00	
a,a,a-Trifluorotoluene (S)	%.	102	50-150		12/10/18 03:00	

METHOD BLANK:	3144210	Matrix:	Solid
Associated Lab Samples:	10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 03:17	
a,a,a-Trifluorotoluene (S)	%.	90	50-150		12/10/18 03:17	

LABORATORY CONTROL SAMPLE & LCSD:	3144211	3144212									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
TPH as Gas	mg/kg	50	44.2	47.0	88	94	54-125	6	20		
a,a,a-Trifluorotoluene (S)	%.				94	93	50-150				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3144450	3144451										
Parameter	Units	10457092017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.83	63.1	63.3	55.8	67.5	88	107	70-130	19	30	
a,a,a-Trifluorotoluene (S)	%.						96	91	50-150			

SAMPLE DUPLICATE:	3144449	10457092010		Dup							
Parameter	Units	Result	Result	Result	Result	RPD	Max RPD	Qualifiers			
TPH as Gas	mg/kg	<1.2	1.3J				30				
a,a,a-Trifluorotoluene (S)	%.	101	91								

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

SAMPLE DUPLICATE: 3144452

Parameter	Units	10457092023 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.97	<1.0		30	
a,a,a-Trifluorotoluene (S)	%.	101	110			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 579855 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
Associated Lab Samples: 10457092025, 10457092026, 10457092027, 10457092028

METHOD BLANK: 3145262 Matrix: Solid  
Associated Lab Samples: 10457092025, 10457092026, 10457092027, 10457092028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 20:10	
a,a,a-Trifluorotoluene (S)	%.	102	50-150		12/10/18 20:10	

METHOD BLANK: 3145263 Matrix: Solid  
Associated Lab Samples: 10457092025, 10457092026, 10457092027, 10457092028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 20:27	
a,a,a-Trifluorotoluene (S)	%.	106	50-150		12/10/18 20:27	

LABORATORY CONTROL SAMPLE & LCSD: 3145264 3145265

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	52.0	50.0	104	100	54-125	4	20	
a,a,a-Trifluorotoluene (S)	%.				100	97	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145925 3145926

Parameter	Units	10457121009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.77	61	59.1	73.6	71.2	121	121	70-130	3	30	
a,a,a-Trifluorotoluene (S)	%.						94	96	50-150			

SAMPLE DUPLICATE: 3145923

Parameter	Units	10457121012 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	2.0J	<0.78		30	
a,a,a-Trifluorotoluene (S)	%.	103	93			

SAMPLE DUPLICATE: 3145924

Parameter	Units	10457121015 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.70	0.83J		30	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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SAMPLE DUPLICATE: 3145924

Parameter	Units	10457121015 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	104	109			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	580024	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Solid GCV
Associated Lab Samples:	10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045		

METHOD BLANK:	3146038	Matrix:	Solid
Associated Lab Samples:	10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/12/18 16:46	
a,a,a-Trifluorotoluene (S)	%	103	50-150		12/12/18 16:46	

METHOD BLANK:	3146039	Matrix:	Solid
Associated Lab Samples:	10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	2.0J	5.0	0.66	12/12/18 17:03	
a,a,a-Trifluorotoluene (S)	%	102	50-150		12/12/18 17:03	

LABORATORY CONTROL SAMPLE & LCSD:	3146040	3146041									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
TPH as Gas	mg/kg	50	38.8	40.1	78	80	54-125	3	20		
a,a,a-Trifluorotoluene (S)	%				93	97	50-150				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3146747	3146748										
Parameter	Units	10457092041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.92	66.9	65.3	59.2	61.1	88	93	70-130	3	30	
a,a,a-Trifluorotoluene (S)	%						94	98	50-150			

SAMPLE DUPLICATE:	3146745										
Parameter	Units	10457092033 Result	Dup Result	RPD	Max RPD	Qualifiers					
TPH as Gas	mg/kg	<0.93	2.5J		30						
a,a,a-Trifluorotoluene (S)	%	104	105								

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

SAMPLE DUPLICATE: 3146746

Parameter	Units	10457092034 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.92	<0.96		30	
a,a,a-Trifluorotoluene (S)	%.	103	100			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 580025 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
Associated Lab Samples: 10457092046

METHOD BLANK: 3146042 Matrix: Solid  
Associated Lab Samples: 10457092046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	1.7J	5.0	0.66	12/11/18 21:42	
a,a,a-Trifluorotoluene (S)	%.	99	50-150		12/11/18 21:42	

METHOD BLANK: 3146043 Matrix: Solid  
Associated Lab Samples: 10457092046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	1.3J	5.0	0.66	12/11/18 21:59	
a,a,a-Trifluorotoluene (S)	%.	88	50-150		12/11/18 21:59	

LABORATORY CONTROL SAMPLE & LCSD: 3146044 3146045

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	38.7	40.5	77	81	54-125	5	20	
a,a,a-Trifluorotoluene (S)	%.				86	93	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146564 3146565

Parameter	Units	10457121025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.72	52.6	51	52.1	49.9	99	98	70-130	4	30	
a,a,a-Trifluorotoluene (S)	%.						91	90	50-150			

SAMPLE DUPLICATE: 3146560

Parameter	Units	10457121023 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.98	<0.98		30	
a,a,a-Trifluorotoluene (S)	%.	95	98			

SAMPLE DUPLICATE: 3146582

Parameter	Units	10457121029 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.82	5.7J		30	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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SAMPLE DUPLICATE: 3146582

Parameter	Units	10457121029 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	91	101			

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	580073	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Solid GCV
Associated Lab Samples:	10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056		

METHOD BLANK: 3146190 Matrix: Solid  
Associated Lab Samples: 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/12/18 06:44	
a,a,a-Trifluorotoluene (S)	%.	105	50-150		12/12/18 06:44	

METHOD BLANK: 3146191 Matrix: Solid  
Associated Lab Samples: 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/12/18 07:02	
a,a,a-Trifluorotoluene (S)	%.	95	50-150		12/12/18 07:02	

LABORATORY CONTROL SAMPLE & LCSD: 3146192 3146193

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	39.1	40.5	78	81	54-125	4	20	
a,a,a-Trifluorotoluene (S)	%.				115	114	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146483 3146484

Parameter	Units	10457121038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<1.3	88.3	89.9	75.5	73.4	84	81	70-130	3	30	
a,a,a-Trifluorotoluene (S)	%.						111	116	50-150			

SAMPLE DUPLICATE: 3146497

Parameter	Units	10457092054 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<1.2	1.4J		30	
a,a,a-Trifluorotoluene (S)	%.	94	103			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

SAMPLE DUPLICATE: 3146498

Parameter	Units	10457092055 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	1.7J	1.9J		30	
a,a,a-Trifluorotoluene (S)	%.	99	110			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578439 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

METHOD BLANK: 3137728 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0069	0.017	0.0069	12/12/18 13:53	

LABORATORY CONTROL SAMPLE: 3137729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.50	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137730 3137731

Parameter	Units	10457092001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.10	0.59	0.55	0.75	0.73	110	114	80-120	3	20	

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578440 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
Associated Lab Samples: 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040

METHOD BLANK: 3137732 Matrix: Solid  
Associated Lab Samples: 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0069	0.017	0.0069	12/12/18 16:19	

LABORATORY CONTROL SAMPLE: 3137733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.47	0.48	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137734 3137735

Parameter	Units	10457092021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.0089	0.52	0.55	0.56	0.56	108	101	80-120	1	20	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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QC Batch: 578441 Analysis Method: EPA 7471B  
 QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
 Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047,  
 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054,  
 10457092055, 10457092056

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METHOD BLANK: 3137736 Matrix: Solid  
 Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047,  
 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054,  
 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0080	0.020	0.0080	12/12/18 12:01	

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LABORATORY CONTROL SAMPLE: 3137737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.45	0.46	101	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137738 3137739

Parameter	Units	10457092041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.028	0.6	0.56	0.66	0.65	106	110	80-120	3	20	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 583333 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010 Analysis Description: 6010D TCLP  
Associated Lab Samples: 10457092011, 10457092023, 10457092051

METHOD BLANK: 3161136 Matrix: Water

Associated Lab Samples: 10457092011, 10457092023, 10457092051

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	<0.0098	0.50	0.0098	01/02/19 09:04	

METHOD BLANK: 3160249 Matrix: Water

Associated Lab Samples: 10457092011, 10457092023, 10457092051

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	<0.0098	0.50	0.0098	01/02/19 10:21	

METHOD BLANK: 3160250 Matrix: Water

Associated Lab Samples: 10457092011, 10457092023, 10457092051

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/L	<0.0098	0.50	0.0098	01/02/19 10:24	

LABORATORY CONTROL SAMPLE: 3161137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161138 3161139

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092011 Result	Spike Conc.	Spike Conc.	Conc.								
Lead	mg/L	0.64	5	5	5.6	5.7	98	102	75-125	3	20		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578415 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050 Analysis Description: 6010D Solids  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

METHOD BLANK: 3137628 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.37	0.98	0.37	12/10/18 16:14	
Arsenic	mg/kg	<0.20	0.98	0.20	12/10/18 16:14	
Beryllium	mg/kg	<0.013	0.25	0.013	12/10/18 16:14	
Cadmium	mg/kg	<0.020	0.15	0.020	12/10/18 16:14	
Chromium	mg/kg	<0.084	0.49	0.084	12/10/18 16:14	
Copper	mg/kg	<0.054	0.49	0.054	12/10/18 16:14	
Lead	mg/kg	<0.11	0.49	0.11	12/10/18 16:14	
Nickel	mg/kg	<0.062	0.98	0.062	12/10/18 16:14	
Selenium	mg/kg	<0.32	0.98	0.32	12/10/18 16:14	
Silver	mg/kg	<0.036	0.49	0.036	12/10/18 16:14	
Thallium	mg/kg	<0.23	0.98	0.23	12/10/18 16:14	
Zinc	mg/kg	<0.43	0.98	0.43	12/10/18 16:14	

LABORATORY CONTROL SAMPLE: 3137629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	47.6	46.0	97	80-120	
Arsenic	mg/kg	47.6	44.5	93	80-120	
Beryllium	mg/kg	47.6	46.4	97	80-120	
Cadmium	mg/kg	47.6	46.7	98	80-120	
Chromium	mg/kg	47.6	49.2	103	80-120	
Copper	mg/kg	47.6	46.9	98	80-120	
Lead	mg/kg	47.6	48.0	101	80-120	
Nickel	mg/kg	47.6	48.3	101	80-120	
Selenium	mg/kg	47.6	44.0	92	80-120	
Silver	mg/kg	23.8	23.8	100	80-120	
Thallium	mg/kg	47.6	47.5	100	80-120	
Zinc	mg/kg	47.6	48.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137630 3137631

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092001 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	mg/kg	<2.1	54.9	55.5	21.0	20.9	38	38	75-125	1	20	M1	
Arsenic	mg/kg	5.6J	54.9	55.5	50.2	50.1	81	80	75-125	0	20		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137630 3137631												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10457092001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Beryllium	mg/kg	<0.076	54.9	55.5	48.9	48.6	89	88	75-125	1	20	
Cadmium	mg/kg	1.9	54.9	55.5	54.5	54.9	96	96	75-125	1	20	
Chromium	mg/kg	163	54.9	55.5	68.2	70.6	-172	-166	75-125	3	20	M1
Copper	mg/kg	97.2	54.9	55.5	205	176	196	142	75-125	15	20	M1
Lead	mg/kg	158	54.9	55.5	219	233	112	135	75-125	6	20	M1
Nickel	mg/kg	48.5	54.9	55.5	69.2	69.2	38	37	75-125	0	20	M1
Selenium	mg/kg	<1.9	54.9	55.5	47.6	48.0	87	86	75-125	1	20	
Silver	mg/kg	<0.21	27.5	27.8	26.8	27.1	98	98	75-125	1	20	
Thallium	mg/kg	4.6J	54.9	55.5	43.9	44.9	72	73	75-125	2	20	M1
Zinc	mg/kg	506	54.9	55.5	750	782	443	496	75-125	4	20	P6

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	578416	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050	Analysis Description:	6010D Solids
Associated Lab Samples:	10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040		

METHOD BLANK:	3137632	Matrix:	Solid
Associated Lab Samples:	10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.38	1.0	0.38	12/10/18 13:08	
Arsenic	mg/kg	<0.20	1.0	0.20	12/10/18 13:08	
Beryllium	mg/kg	<0.013	0.25	0.013	12/10/18 13:08	
Cadmium	mg/kg	<0.020	0.15	0.020	12/10/18 13:08	
Chromium	mg/kg	<0.086	0.50	0.086	12/10/18 13:08	
Copper	mg/kg	<0.056	0.50	0.056	12/10/18 13:08	
Lead	mg/kg	<0.11	0.50	0.11	12/10/18 13:08	
Nickel	mg/kg	<0.063	1.0	0.063	12/10/18 13:08	
Selenium	mg/kg	<0.33	1.0	0.33	12/10/18 13:08	
Silver	mg/kg	<0.036	0.50	0.036	12/10/18 13:08	
Thallium	mg/kg	<0.23	1.0	0.23	12/10/18 13:08	
Zinc	mg/kg	<0.44	1.0	0.44	12/10/18 13:08	

LABORATORY CONTROL SAMPLE: 3137633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	45.5	44.7	98	80-120	
Arsenic	mg/kg	45.5	42.7	94	80-120	
Beryllium	mg/kg	45.5	44.6	98	80-120	
Cadmium	mg/kg	45.5	44.6	98	80-120	
Chromium	mg/kg	45.5	47.2	104	80-120	
Copper	mg/kg	45.5	45.3	100	80-120	
Lead	mg/kg	45.5	45.9	101	80-120	
Nickel	mg/kg	45.5	46.4	102	80-120	
Selenium	mg/kg	45.5	42.1	93	80-120	
Silver	mg/kg	22.7	22.6	99	80-120	
Thallium	mg/kg	45.5	45.1	99	80-120	
Zinc	mg/kg	45.5	46.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137634 3137635

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Antimony	mg/kg	<2.2	58.3	59.4	20.6	20.2	35	34	75-125	2	20	M1	
Arsenic	mg/kg	2.2J	58.3	59.4	50.9	51.3	83	83	75-125	1	20		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137634		3137635		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/kg	<0.079	58.3	59.4	50.3	51.0	86	86	75-125	1	20		
Cadmium	mg/kg	0.18J	58.3	59.4	54.1	55.9	92	94	75-125	3	20		
Chromium	mg/kg	8.1	58.3	59.4	61.4	61.6	91	90	75-125	0	20		
Copper	mg/kg	16.6	58.3	59.4	73.0	73.5	97	96	75-125	1	20		
Lead	mg/kg	6.6	58.3	59.4	59.7	59.3	91	89	75-125	1	20		
Nickel	mg/kg	7.7	58.3	59.4	59.7	59.9	89	88	75-125	0	20		
Selenium	mg/kg	<1.9	58.3	59.4	49.4	51.0	84	85	75-125	3	20		
Silver	mg/kg	<0.21	29.2	29.7	27.7	28.7	95	96	75-125	3	20		
Thallium	mg/kg	3.8J	58.3	59.4	48.2	50.0	76	78	75-125	4	20		
Zinc	mg/kg	61.3	58.3	59.4	116	114	94	88	75-125	2	20		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578417 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3050 Analysis Description: 6010D Solids  
Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3137636 Matrix: Solid  
Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.35	0.93	0.35	12/10/18 14:52	
Arsenic	mg/kg	<0.19	0.93	0.19	12/10/18 14:52	
Beryllium	mg/kg	<0.012	0.23	0.012	12/10/18 14:52	
Cadmium	mg/kg	<0.018	0.14	0.018	12/10/18 14:52	
Chromium	mg/kg	<0.079	0.46	0.079	12/10/18 14:52	
Copper	mg/kg	<0.051	0.46	0.051	12/10/18 14:52	
Lead	mg/kg	<0.10	0.46	0.10	12/10/18 14:52	
Nickel	mg/kg	<0.058	0.93	0.058	12/10/18 14:52	
Selenium	mg/kg	<0.30	0.93	0.30	12/10/18 14:52	
Silver	mg/kg	<0.034	0.46	0.034	12/10/18 14:52	
Thallium	mg/kg	<0.21	0.93	0.21	12/10/18 14:52	
Zinc	mg/kg	<0.41	0.93	0.41	12/10/18 14:52	

LABORATORY CONTROL SAMPLE: 3137637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	45.9	42.8	93	80-120	
Arsenic	mg/kg	45.9	41.8	91	80-120	
Beryllium	mg/kg	45.9	43.3	94	80-120	
Cadmium	mg/kg	45.9	44.0	96	80-120	
Chromium	mg/kg	45.9	46.1	101	80-120	
Copper	mg/kg	45.9	44.1	96	80-120	
Lead	mg/kg	45.9	45.4	99	80-120	
Nickel	mg/kg	45.9	45.2	99	80-120	
Selenium	mg/kg	45.9	41.2	90	80-120	
Silver	mg/kg	22.9	22.3	97	80-120	
Thallium	mg/kg	45.9	44.9	98	80-120	
Zinc	mg/kg	45.9	46.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3137638 3137639

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092041 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/kg	<0.44	59.4	57.7	13.4	11.4	23	20	75-125	16	20 M1
Arsenic	mg/kg	2.2	59.4	57.7	32.9	33.7	52	55	75-125	2	20 M1

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Parameter	Units	3137638		3137639		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/kg	0.030J	59.4	57.7	29.8	30.1	50	52	75-125	1	20	M1	
Cadmium	mg/kg	0.13J	59.4	57.7	37.0	37.5	62	65	75-125	1	20	M1	
Chromium	mg/kg	7.0	59.4	57.7	37.9	39.7	52	57	75-125	4	20	M1	
Copper	mg/kg	21.7	59.4	57.7	55.2	60.3	56	67	75-125	9	20	M1	
Lead	mg/kg	184	59.4	57.7	189	180	9	-7	75-125	5	20	M1	
Nickel	mg/kg	6.7	59.4	57.7	36.2	38.3	50	55	75-125	6	20	M1	
Selenium	mg/kg	<0.38	59.4	57.7	31.2	31.8	53	55	75-125	2	20	M1	
Silver	mg/kg	<0.042	29.7	28.8	20.9	21.2	71	73	75-125	1	20	M1	
Thallium	mg/kg	<0.27	59.4	57.7	35.4	35.1	59	61	75-125	1	20	M1	
Zinc	mg/kg	66.1	59.4	57.7	95.9	98.4	50	56	75-125	3	20	M1	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 591750 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
Associated Lab Samples: 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052

METHOD BLANK: 3199809 Matrix: Solid  
Associated Lab Samples: 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	<0.23	4.0	0.23	03/01/19 12:51	
Methylene Chloride	ug/kg	<3.7	20.0	3.7	03/01/19 12:51	
1,2-Dichloroethane-d4 (S)	%	106	75-125		03/01/19 12:51	
4-Bromofluorobenzene (S)	%	103	75-125		03/01/19 12:51	
Toluene-d8 (S)	%	100	75-125		03/01/19 12:51	

LABORATORY CONTROL SAMPLE & LCSD: 3199810 3199811

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	20	21.8	22.7	109	113	75-126	4	20	
Methylene Chloride	ug/kg	20	19.2J	19.8J	96	99	56-150		20	
1,2-Dichloroethane-d4 (S)	%				101	101	75-125			
4-Bromofluorobenzene (S)	%				100	102	75-125			
Toluene-d8 (S)	%				102	102	75-125			

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 592201 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
 Associated Lab Samples: 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3202495 Matrix: Solid  
 Associated Lab Samples: 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	<0.23	4.0	0.23	03/04/19 12:50	
Methylene Chloride	ug/kg	<3.7	20.0	3.7	03/04/19 12:50	
1,2-Dichloroethane-d4 (S)	%	118	75-125		03/04/19 12:50	
4-Bromofluorobenzene (S)	%	102	75-125		03/04/19 12:50	
Toluene-d8 (S)	%	98	75-125		03/04/19 12:50	

LABORATORY CONTROL SAMPLE & LCSD: 3202496

Parameter	Units	3202497							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
1,2-Dibromoethane (EDB)	ug/kg	20	21.3	21.4	107	107	75-126	0	20		
Methylene Chloride	ug/kg	20	20.3	21.6	102	108	56-150	6	20		
1,2-Dichloroethane-d4 (S)	%				110	109	75-125				
4-Bromofluorobenzene (S)	%				99	101	75-125				
Toluene-d8 (S)	%				100	100	75-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 579139 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457092001, 10457092002

METHOD BLANK: 3141084 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/06/18 02:41	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/06/18 02:41	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/06/18 02:41	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/06/18 02:41	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/06/18 02:41	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/06/18 02:41	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/06/18 02:41	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/06/18 02:41	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/06/18 02:41	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/06/18 02:41	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/06/18 02:41	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/06/18 02:41	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/06/18 02:41	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/06/18 02:41	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/06/18 02:41	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/06/18 02:41	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/06/18 02:41	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/06/18 02:41	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/06/18 02:41	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/06/18 02:41	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 02:41	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/06/18 02:41	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/06/18 02:41	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/06/18 02:41	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/06/18 02:41	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/06/18 02:41	
Acetone	ug/kg	<311	1000	311	12/06/18 02:41	
Allyl chloride	ug/kg	<41.9	200	41.9	12/06/18 02:41	
Benzene	ug/kg	<2.8	20.0	2.8	12/06/18 02:41	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 02:41	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/06/18 02:41	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/06/18 02:41	
Bromoform	ug/kg	<75.7	200	75.7	12/06/18 02:41	
Bromomethane	ug/kg	<58.5	500	58.5	12/06/18 02:41	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/06/18 02:41	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/06/18 02:41	
Chloroethane	ug/kg	<26.0	500	26.0	12/06/18 02:41	
Chloroform	ug/kg	<25.0	50.0	25.0	12/06/18 02:41	
Chloromethane	ug/kg	<12.0	200	12.0	12/06/18 02:41	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/06/18 02:41	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/06/18 02:41	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

METHOD BLANK: 3141084 Matrix: Solid  
Associated Lab Samples: 10457092001, 10457092002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/06/18 02:41	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/06/18 02:41	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/06/18 02:41	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/06/18 02:41	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/06/18 02:41	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 02:41	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/06/18 02:41	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/06/18 02:41	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/06/18 02:41	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/06/18 02:41	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/06/18 02:41	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 02:41	
Naphthalene	ug/kg	<46.8	200	46.8	12/06/18 02:41	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/06/18 02:41	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 02:41	
Styrene	ug/kg	<2.3	50.0	2.3	12/06/18 02:41	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 02:41	
Tetrachloroethane	ug/kg	<17.6	50.0	17.6	12/06/18 02:41	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/06/18 02:41	
Toluene	ug/kg	<12.2	50.0	12.2	12/06/18 02:41	
trans-1,2-Dichloroethane	ug/kg	<23.4	50.0	23.4	12/06/18 02:41	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/06/18 02:41	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/06/18 02:41	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/06/18 02:41	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/06/18 02:41	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/06/18 02:41	
1,2-Dichloroethane-d4 (S)	%	100	75-125		12/06/18 02:41	
4-Bromofluorobenzene (S)	%	101	75-125		12/06/18 02:41	
Toluene-d8 (S)	%	100	75-125		12/06/18 02:41	

LABORATORY CONTROL SAMPLE: 3141085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	1020	102	59-125	
1,1,1-Trichloroethane	ug/kg	1000	1080	108	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	920	92	58-125	
1,1,2-Trichloroethane	ug/kg	1000	994	99	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1020	102	65-125	
1,1-Dichloroethane	ug/kg	1000	982	98	63-125	
1,1-Dichloroethene	ug/kg	1000	921	92	59-125	
1,1-Dichloropropene	ug/kg	1000	1080	108	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	1040	104	55-126	
1,2,3-Trichloropropane	ug/kg	1000	1040	104	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	1020	102	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3141085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	103	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2450	98	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	1020	102	64-125	
1,2-Dichlorobenzene	ug/kg	1000	1020	102	63-125	
1,2-Dichloroethane	ug/kg	1000	965	97	57-125	
1,2-Dichloropropane	ug/kg	1000	958	96	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	1050	105	59-125	
1,3-Dichlorobenzene	ug/kg	1000	1050	105	64-125	
1,3-Dichloropropane	ug/kg	1000	1010	101	64-125	
1,4-Dichlorobenzene	ug/kg	1000	1020	102	63-125	
2,2-Dichloropropane	ug/kg	1000	1100	110	37-126	
2-Butanone (MEK)	ug/kg	5000	5070	101	48-125	
2-Chlorotoluene	ug/kg	1000	1070	107	62-125	
4-Chlorotoluene	ug/kg	1000	1040	104	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5200	104	52-135	
Acetone	ug/kg	5000	3740	75	65-125	
Allyl chloride	ug/kg	1000	906	91	52-125	
Benzene	ug/kg	1000	1010	101	61-125	
Bromobenzene	ug/kg	1000	1050	105	64-125	
Bromochloromethane	ug/kg	1000	1070	107	65-125	
Bromodichloromethane	ug/kg	1000	998	100	57-125	
Bromoform	ug/kg	1000	989	99	57-125	
Bromomethane	ug/kg	1000	1150	115	60-125	SS
Carbon tetrachloride	ug/kg	1000	997	100	58-125	
Chlorobenzene	ug/kg	1000	1030	103	66-125	
Chloroethane	ug/kg	1000	993	99	62-125	
Chloroform	ug/kg	1000	939	94	59-125	
Chloromethane	ug/kg	1000	817	82	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	996	100	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	1020	102	61-125	
Dibromochloromethane	ug/kg	1000	991	99	60-125	
Dibromomethane	ug/kg	1000	1030	103	69-125	
Dichlorodifluoromethane	ug/kg	1000	620	62	38-125	
Dichlorofluoromethane	ug/kg	1000	1020	102	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	1040	104	60-125	
Ethylbenzene	ug/kg	1000	1010	101	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1040	104	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	1060	106	65-125	
Methyl-tert-butyl ether	ug/kg	1000	1020	102	59-125	
Methylene Chloride	ug/kg	1000	996	100	64-125	
n-Butylbenzene	ug/kg	1000	1120	112	59-125	
n-Propylbenzene	ug/kg	1000	1120	112	61-125	
Naphthalene	ug/kg	1000	1000	100	53-125	
p-Isopropyltoluene	ug/kg	1000	1020	102	63-125	
sec-Butylbenzene	ug/kg	1000	1010	101	62-125	
Styrene	ug/kg	1000	991	99	66-125	
tert-Butylbenzene	ug/kg	1000	1060	106	64-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3141085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1070	107	67-125	
Tetrahydrofuran	ug/kg	10000	7360	74	62-125	
Toluene	ug/kg	1000	1010	101	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	1020	102	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	1070	107	56-125	
Trichloroethene	ug/kg	1000	964	96	67-125	
Trichlorofluoromethane	ug/kg	1000	1100	110	65-125	
Vinyl chloride	ug/kg	1000	901	90	57-125	
Xylene (Total)	ug/kg	3000	3060	102	62-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141086 3141087

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457211001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	ND	1060	1110	1180	1150	111	104	64-146	2	30		
1,1,1-Trichloroethane	ug/kg	ND	1060	1110	1290	1290	122	116	56-148	0	30		
1,1,2,2-Tetrachloroethane	ug/kg	ND	1060	1110	1160	1160	109	105	36-150	0	30		
1,1,2-Trichloroethane	ug/kg	ND	1060	1110	1170	1150	110	104	67-148	1	30		
1,1,2-Trichloroethane	ug/kg	ND	1060	1110	1250	1240	118	112	60-142	1	30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/kg	ND	1060	1110	1240	1210	117	110	57-140	2	30		
1,1-Dichloroethene	ug/kg	ND	1060	1110	1110	1080	105	97	59-139	3	30		
1,1-Dichloropropene	ug/kg	ND	1060	1110	1230	1240	116	112	61-142	1	30		
1,2,3-Trichlorobenzene	ug/kg	ND	1060	1110	1220	1360	115	123	69-150	11	30		
1,2,3-Trichloropropane	ug/kg	ND	1060	1110	1210	1250	114	113	64-150	4	30		
1,2,4-Trichlorobenzene	ug/kg	ND	1060	1110	1170	1350	111	122	71-149	14	30		
1,2,4-Trimethylbenzene	ug/kg	ND	1060	1110	1220	1260	115	114	67-149	3	30		
1,2-Dibromo-3-chloropropane	ug/kg	ND	2650	2770	2980	3170	113	115	61-150	6	30		
1,2-Dibromoethane (EDB)	ug/kg	ND	1060	1110	1220	1240	115	112	67-147	2	30		
1,2-Dichlorobenzene	ug/kg	ND	1060	1110	1190	1250	112	113	70-142	5	30		
1,2-Dichloroethane	ug/kg	ND	1060	1110	1170	1110	111	100	58-132	5	30		
1,2-Dichloropropane	ug/kg	ND	1060	1110	1200	1150	113	104	64-144	5	30		
1,3,5-Trimethylbenzene	ug/kg	ND	1060	1110	1240	1300	117	118	71-146	5	30		
1,3-Dichlorobenzene	ug/kg	ND	1060	1110	1210	1290	114	117	71-142	7	30		
1,3-Dichloropropane	ug/kg	ND	1060	1110	1190	1230	112	112	68-140	4	30		
1,4-Dichlorobenzene	ug/kg	ND	1060	1110	1180	1220	112	110	68-142	3	30		
2,2-Dichloropropane	ug/kg	ND	1060	1110	1120	1110	105	100	34-150	1	30		
2-Butanone (MEK)	ug/kg	ND	5300	5530	5950	5760	112	104	51-150	3	30		
2-Chlorotoluene	ug/kg	ND	1060	1110	1240	1310	117	118	66-144	6	30		
4-Chlorotoluene	ug/kg	ND	1060	1110	1230	1270	117	115	66-140	3	30		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5300	5530	6390	6210	121	112	63-150	3	30		

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141086 3141087												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457211001 Result	Spike Conc.	Spike Conc.	MS Result							
Acetone	ug/kg	ND	5300	5530	4490	4310	85	78	54-150	4	30	
Allyl chloride	ug/kg	ND	1060	1110	1060	1020	100	92	53-135	4	30	
Benzene	ug/kg	ND	1060	1110	1190	1220	112	110	65-135	2	30	
Bromobenzene	ug/kg	ND	1060	1110	1240	1250	117	113	71-141	1	30	
Bromochloromethane	ug/kg	ND	1060	1110	1250	1260	118	114	62-145	0	30	
Bromodichloromethane	ug/kg	ND	1060	1110	1260	1250	119	113	59-148	1	30	
Bromoform	ug/kg	ND	1060	1110	1170	1180	111	106	57-145	0	30	
Bromomethane	ug/kg	ND	1060	1110	1390	1350	131	122	51-129	3	30	M1,SS
Carbon tetrachloride	ug/kg	ND	1060	1110	1200	1180	113	107	55-144	1	30	
Chlorobenzene	ug/kg	ND	1060	1110	1160	1210	110	109	70-142	4	30	
Chloroethane	ug/kg	ND	1060	1110	1210	1190	114	107	61-135	2	30	
Chloroform	ug/kg	ND	1060	1110	1120	1100	106	99	58-135	2	30	
Chloromethane	ug/kg	ND	1060	1110	1080	964	102	87	37-125	11	30	
cis-1,2-Dichloroethene	ug/kg	ND	1060	1110	1240	1250	117	113	60-138	1	30	
cis-1,3-Dichloropropene	ug/kg	ND	1060	1110	1220	1180	115	107	62-142	3	30	
Dibromochloromethane	ug/kg	ND	1060	1110	1210	1180	114	107	65-141	2	30	
Dibromomethane	ug/kg	ND	1060	1110	1280	1220	121	110	72-150	5	30	
Dichlorodifluoromethane	ug/kg	ND	1060	1110	871	729	82	66	30-125	18	30	
Dichlorofluoromethane	ug/kg	ND	1060	1110	1370	1320	129	119	62-148	4	30	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1060	1110	1210	1180	115	106	62-135	3	30	
Ethylbenzene	ug/kg	ND	1060	1110	1130	1180	106	106	72-138	4	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1060	1110	986	1340	93	121	38-150	31	30	R1
Isopropylbenzene (Cumene)	ug/kg	ND	1060	1110	1200	1250	113	113	75-148	5	30	
Methyl-tert-butyl ether	ug/kg	ND	1060	1110	1260	1240	119	112	63-139	2	30	
Methylene Chloride	ug/kg	ND	1060	1110	1380	1190	130	108	58-135	14	30	
n-Butylbenzene	ug/kg	ND	1060	1110	1210	1320	114	119	63-150	9	30	
n-Propylbenzene	ug/kg	ND	1060	1110	1300	1360	123	123	70-146	4	30	
Naphthalene	ug/kg	ND	1060	1110	1170	1240	111	112	63-150	6	30	
p-Isopropyltoluene	ug/kg	ND	1060	1110	1160	1220	110	110	72-150	5	30	
sec-Butylbenzene	ug/kg	ND	1060	1110	1180	1260	112	114	66-150	6	30	
Styrene	ug/kg	ND	1060	1110	1170	1190	110	108	72-146	2	30	
tert-Butylbenzene	ug/kg	ND	1060	1110	1220	1320	115	119	71-148	7	30	
Tetrachloroethene	ug/kg	ND	1060	1110	1230	1270	116	115	70-150	3	30	
Tetrahydrofuran	ug/kg	ND	10600	11100	9160	8700	86	79	62-150	5	30	
Toluene	ug/kg	ND	1060	1110	1180	1140	112	103	65-142	4	30	
trans-1,2-Dichloroethene	ug/kg	ND	1060	1110	1200	1140	113	103	55-141	5	30	
trans-1,3-Dichloropropene	ug/kg	ND	1060	1110	1180	1210	112	109	57-147	2	30	
Trichloroethene	ug/kg	ND	1060	1110	1220	1160	115	105	62-150	5	30	
Trichlorofluoromethane	ug/kg	ND	1060	1110	1350	1140	128	103	51-150	17	30	
Vinyl chloride	ug/kg	ND	1060	1110	1240	1080	117	98	45-132	14	30	
Xylene (Total)	ug/kg	ND	3180	3320	3510	3570	111	108	75-140	2	30	
1,2-Dichloroethane-d4 (S)	%						100	102	75-125			
4-Bromofluorobenzene (S)	%						103	98	75-125			
Toluene-d8 (S)	%						98	99	75-125			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	579279	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035/5030B	Analysis Description:	8260B MSV 5030 Med Level
Associated Lab Samples:	10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092057		

METHOD BLANK: 3142080 Matrix: Solid  
Associated Lab Samples: 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092057

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/06/18 16:09	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/06/18 16:09	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/06/18 16:09	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/06/18 16:09	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/06/18 16:09	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/06/18 16:09	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/06/18 16:09	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/06/18 16:09	
1,2,3-Trichlorobenzene	ug/kg	15.6J	50.0	8.0	12/06/18 16:09	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/06/18 16:09	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/06/18 16:09	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/06/18 16:09	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/06/18 16:09	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/06/18 16:09	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/06/18 16:09	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/06/18 16:09	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/06/18 16:09	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/06/18 16:09	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/06/18 16:09	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/06/18 16:09	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 16:09	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/06/18 16:09	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/06/18 16:09	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/06/18 16:09	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/06/18 16:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/06/18 16:09	
Acetone	ug/kg	746J	1000	311	12/06/18 16:09	
Allyl chloride	ug/kg	<41.9	200	41.9	12/06/18 16:09	
Benzene	ug/kg	<2.8	20.0	2.8	12/06/18 16:09	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 16:09	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/06/18 16:09	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/06/18 16:09	
Bromoform	ug/kg	<75.7	200	75.7	12/06/18 16:09	
Bromomethane	ug/kg	<58.5	500	58.5	12/06/18 16:09	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/06/18 16:09	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/06/18 16:09	
Chloroethane	ug/kg	<26.0	500	26.0	12/06/18 16:09	
Chloroform	ug/kg	<25.0	50.0	25.0	12/06/18 16:09	
Chloromethane	ug/kg	<12.0	200	12.0	12/06/18 16:09	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/06/18 16:09	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/06/18 16:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

METHOD BLANK: 3142080

Matrix: Solid

Associated Lab Samples: 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092057

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/06/18 16:09	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/06/18 16:09	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/06/18 16:09	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/06/18 16:09	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/06/18 16:09	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 16:09	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/06/18 16:09	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/06/18 16:09	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/06/18 16:09	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/06/18 16:09	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/06/18 16:09	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 16:09	
Naphthalene	ug/kg	<46.8	200	46.8	12/06/18 16:09	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/06/18 16:09	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 16:09	
Styrene	ug/kg	<2.3	50.0	2.3	12/06/18 16:09	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 16:09	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/06/18 16:09	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/06/18 16:09	
Toluene	ug/kg	<12.2	50.0	12.2	12/06/18 16:09	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/06/18 16:09	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/06/18 16:09	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/06/18 16:09	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/06/18 16:09	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/06/18 16:09	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/06/18 16:09	
1,2-Dichloroethane-d4 (S)	%	104	75-125		12/06/18 16:09	
4-Bromofluorobenzene (S)	%	99	75-125		12/06/18 16:09	
Toluene-d8 (S)	%	99	75-125		12/06/18 16:09	

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	995	99	59-125	
1,1,1-Trichloroethane	ug/kg	1000	1040	104	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	831	83	58-125	
1,1,2-Trichloroethane	ug/kg	1000	916	92	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	986	99	65-125	
1,1-Dichloroethane	ug/kg	1000	972	97	63-125	
1,1-Dichloroethene	ug/kg	1000	874	87	59-125	
1,1-Dichloropropene	ug/kg	1000	1020	102	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	943	94	55-126	
1,2,3-Trichloropropane	ug/kg	1000	925	92	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	990	99	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	962	96	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2360	94	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	1010	101	64-125	
1,2-Dichlorobenzene	ug/kg	1000	953	95	63-125	
1,2-Dichloroethane	ug/kg	1000	926	93	57-125	
1,2-Dichloropropane	ug/kg	1000	928	93	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	1060	106	59-125	
1,3-Dichlorobenzene	ug/kg	1000	1010	101	64-125	
1,3-Dichloropropane	ug/kg	1000	1010	101	64-125	
1,4-Dichlorobenzene	ug/kg	1000	986	99	63-125	
2,2-Dichloropropane	ug/kg	1000	1110	111	37-126	
2-Butanone (MEK)	ug/kg	5000	4190	84	48-125	
2-Chlorotoluene	ug/kg	1000	1010	101	62-125	
4-Chlorotoluene	ug/kg	1000	1000	100	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4590	92	52-135	
Acetone	ug/kg	5000	4170	83	65-125	
Allyl chloride	ug/kg	1000	856	86	52-125	
Benzene	ug/kg	1000	992	99	61-125	
Bromobenzene	ug/kg	1000	1050	105	64-125	
Bromochloromethane	ug/kg	1000	1080	108	65-125	
Bromodichloromethane	ug/kg	1000	1040	104	57-125	
Bromoform	ug/kg	1000	949	95	57-125	
Bromomethane	ug/kg	1000	932	93	60-125	SS
Carbon tetrachloride	ug/kg	1000	939	94	58-125	
Chlorobenzene	ug/kg	1000	1010	101	66-125	
Chloroethane	ug/kg	1000	895	90	62-125	
Chloroform	ug/kg	1000	902	90	59-125	
Chloromethane	ug/kg	1000	732	73	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	980	98	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	979	98	61-125	
Dibromochloromethane	ug/kg	1000	950	95	60-125	
Dibromomethane	ug/kg	1000	1040	104	69-125	
Dichlorodifluoromethane	ug/kg	1000	521	52	38-125	
Dichlorofluoromethane	ug/kg	1000	914	91	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	924	92	60-125	
Ethylbenzene	ug/kg	1000	958	96	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1020	102	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	996	100	65-125	
Methyl-tert-butyl ether	ug/kg	1000	993	99	59-125	
Methylene Chloride	ug/kg	1000	977	98	64-125	
n-Butylbenzene	ug/kg	1000	1030	103	59-125	
n-Propylbenzene	ug/kg	1000	1050	105	61-125	
Naphthalene	ug/kg	1000	914	91	53-125	
p-Isopropyltoluene	ug/kg	1000	951	95	63-125	
sec-Butylbenzene	ug/kg	1000	968	97	62-125	
Styrene	ug/kg	1000	952	95	66-125	
tert-Butylbenzene	ug/kg	1000	1030	103	64-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1000	100	67-125	
Tetrahydrofuran	ug/kg	10000	7950	79	62-125	
Toluene	ug/kg	1000	990	99	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	969	97	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	1050	105	56-125	
Trichloroethene	ug/kg	1000	1020	102	67-125	
Trichlorofluoromethane	ug/kg	1000	883	88	65-125	
Vinyl chloride	ug/kg	1000	790	79	57-125	
Xylene (Total)	ug/kg	3000	2970	99	62-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142082 3142083

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457226001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	ND	1100	1070	1230	1230	111	115	64-146	0	30		
1,1,1-Trichloroethane	ug/kg	ND	1100	1070	1290	1320	117	123	56-148	2	30		
1,1,2,2-Tetrachloroethane	ug/kg	ND	1100	1070	1110	1170	101	109	36-150	5	30		
1,1,2-Trichloroethane	ug/kg	ND	1100	1070	1190	1230	108	115	67-148	3	30		
1,1,2-Trichloroethane	ug/kg	ND	1100	1070	1260	1320	114	123	60-142	5	30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/kg	ND	1100	1070	1180	1190	107	111	57-140	1	30		
1,1-Dichloroethene	ug/kg	ND	1100	1070	1190	1190	108	111	59-139	0	30		
1,1-Dichloropropene	ug/kg	ND	1100	1070	1220	1300	110	121	61-142	7	30		
1,2,3-Trichlorobenzene	ug/kg	ND	1100	1070	1300	1290	118	120	69-150	1	30		
1,2,3-Trichloropropane	ug/kg	ND	1100	1070	1220	1210	111	113	64-150	0	30		
1,2,4-Trichlorobenzene	ug/kg	ND	1100	1070	1270	1360	115	127	71-149	7	30		
1,2,4-Trimethylbenzene	ug/kg	ND	1100	1070	1270	1300	115	121	67-149	2	30		
1,2-Dibromo-3-chloropropane	ug/kg	ND	2750	2680	2870	3010	104	112	61-150	5	30		
1,2-Dibromoethane (EDB)	ug/kg	ND	1100	1070	1220	1230	110	115	67-147	1	30		
1,2-Dichlorobenzene	ug/kg	ND	1100	1070	1200	1240	109	116	70-142	3	30		
1,2-Dichloroethane	ug/kg	ND	1100	1070	1140	1140	103	106	58-132	0	30		
1,2-Dichloropropane	ug/kg	ND	1100	1070	1130	1160	103	109	64-144	2	30		
1,3,5-Trimethylbenzene	ug/kg	ND	1100	1070	1270	1360	115	127	71-146	6	30		
1,3-Dichlorobenzene	ug/kg	ND	1100	1070	1280	1330	116	124	71-142	4	30		
1,3-Dichloropropane	ug/kg	ND	1100	1070	1210	1270	109	119	68-140	5	30		
1,4-Dichlorobenzene	ug/kg	ND	1100	1070	1220	1290	110	121	68-142	6	30		
2,2-Dichloropropane	ug/kg	ND	1100	1070	1320	1390	120	130	34-150	5	30		
2-Butanone (MEK)	ug/kg	ND	5520	5360	5710	5670	103	106	51-150	1	30		
2-Chlorotoluene	ug/kg	ND	1100	1070	1240	1310	112	122	66-144	6	30		
4-Chlorotoluene	ug/kg	ND	1100	1070	1210	1300	110	121	66-140	7	30		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5520	5360	6050	6160	110	115	63-150	2	30		

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142082 3142083												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457226001 Result	Spike Conc.	Spike Conc.	MS Result							
Acetone	ug/kg	ND	5520	5360	4150	5200	66	87	54-150	23	30	
Allyl chloride	ug/kg	ND	1100	1070	1130	1110	102	103	53-135	2	30	
Benzene	ug/kg	ND	1100	1070	1170	1210	106	113	65-135	4	30	
Bromobenzene	ug/kg	ND	1100	1070	1240	1280	113	120	71-141	3	30	
Bromochloromethane	ug/kg	ND	1100	1070	1200	1280	109	120	62-145	6	30	
Bromodichloromethane	ug/kg	ND	1100	1070	1280	1260	116	117	59-148	2	30	
Bromoform	ug/kg	ND	1100	1070	1170	1220	106	113	57-145	4	30	
Bromomethane	ug/kg	ND	1100	1070	1290	1230	117	115	51-129	5	30	SS
Carbon tetrachloride	ug/kg	ND	1100	1070	1230	1300	111	122	55-144	6	30	
Chlorobenzene	ug/kg	ND	1100	1070	1240	1260	112	118	70-142	2	30	
Chloroethane	ug/kg	ND	1100	1070	1280	1230	116	114	61-135	5	30	
Chloroform	ug/kg	ND	1100	1070	1120	1190	101	111	58-135	6	30	
Chloromethane	ug/kg	ND	1100	1070	1130	1070	102	100	37-125	5	30	
cis-1,2-Dichloroethene	ug/kg	ND	1100	1070	1230	1210	111	113	60-138	1	30	
cis-1,3-Dichloropropene	ug/kg	ND	1100	1070	1250	1240	114	116	62-142	1	30	
Dibromochloromethane	ug/kg	ND	1100	1070	1240	1240	112	116	65-141	0	30	
Dibromomethane	ug/kg	ND	1100	1070	1220	1240	111	115	72-150	1	30	
Dichlorodifluoromethane	ug/kg	ND	1100	1070	869	864	79	81	30-125	1	30	
Dichlorofluoromethane	ug/kg	ND	1100	1070	1400	1180	127	110	62-148	17	30	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1100	1070	1210	1180	110	110	62-135	3	30	
Ethylbenzene	ug/kg	ND	1100	1070	1200	1240	109	116	72-138	3	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1100	1070	1330	1430	121	133	38-150	7	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1100	1070	1280	1330	116	124	75-148	4	30	
Methyl-tert-butyl ether	ug/kg	ND	1100	1070	1230	1240	111	116	63-139	1	30	
Methylene Chloride	ug/kg	ND	1100	1070	1200	1180	108	111	58-135	1	30	
n-Butylbenzene	ug/kg	ND	1100	1070	1320	1420	120	132	63-150	7	30	
n-Propylbenzene	ug/kg	ND	1100	1070	1320	1380	120	129	70-146	4	30	
Naphthalene	ug/kg	ND	1100	1070	1170	1200	106	112	63-150	3	30	
p-Isopropyltoluene	ug/kg	ND	1100	1070	1240	1310	112	122	72-150	6	30	
sec-Butylbenzene	ug/kg	ND	1100	1070	1220	1320	110	123	66-150	8	30	
Styrene	ug/kg	ND	1100	1070	1230	1230	111	115	72-146	0	30	
tert-Butylbenzene	ug/kg	ND	1100	1070	1300	1350	118	126	71-148	4	30	
Tetrachloroethene	ug/kg	ND	1100	1070	1330	1370	120	127	70-150	3	30	
Tetrahydrofuran	ug/kg	ND	11000	10700	13300	13400	121	125	62-150	1	30	
Toluene	ug/kg	ND	1100	1070	1230	1230	111	114	65-142	0	30	
trans-1,2-Dichloroethene	ug/kg	ND	1100	1070	842	1240	76	116	55-141	38	30	R1
trans-1,3-Dichloropropene	ug/kg	ND	1100	1070	1290	1270	117	119	57-147	1	30	
Trichloroethene	ug/kg	ND	1100	1070	1170	1170	106	109	62-150	0	30	
Trichlorofluoromethane	ug/kg	ND	1100	1070	1180	1190	107	111	51-150	0	30	
Vinyl chloride	ug/kg	ND	1100	1070	1140	1080	103	101	45-132	5	30	
Xylene (Total)	ug/kg	ND	3310	3210	3750	3700	113	115	75-140	1	30	
1,2-Dichloroethane-d4 (S)	%						101	98	75-125			
4-Bromofluorobenzene (S)	%						97	102	75-125			
Toluene-d8 (S)	%						99	97	75-125			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 579622 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457092009, 10457092010, 10457092011, 10457092012

METHOD BLANK: 3143794 Matrix: Solid  
Associated Lab Samples: 10457092009, 10457092010, 10457092011, 10457092012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/07/18 20:56	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/07/18 20:56	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/07/18 20:56	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/07/18 20:56	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/07/18 20:56	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/07/18 20:56	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/07/18 20:56	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/07/18 20:56	
1,2,3-Trichlorobenzene	ug/kg	10.8J	50.0	8.0	12/07/18 20:56	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/07/18 20:56	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/07/18 20:56	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/07/18 20:56	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/07/18 20:56	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/07/18 20:56	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/07/18 20:56	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/07/18 20:56	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/07/18 20:56	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/07/18 20:56	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/07/18 20:56	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/07/18 20:56	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/07/18 20:56	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/07/18 20:56	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/07/18 20:56	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/07/18 20:56	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/07/18 20:56	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/07/18 20:56	
Acetone	ug/kg	568J	1000	311	12/07/18 20:56	
Allyl chloride	ug/kg	<41.9	200	41.9	12/07/18 20:56	
Benzene	ug/kg	<2.8	20.0	2.8	12/07/18 20:56	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/07/18 20:56	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/07/18 20:56	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/07/18 20:56	
Bromoform	ug/kg	<75.7	200	75.7	12/07/18 20:56	
Bromomethane	ug/kg	<58.5	500	58.5	12/07/18 20:56	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/07/18 20:56	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/07/18 20:56	
Chloroethane	ug/kg	<26.0	500	26.0	12/07/18 20:56	
Chloroform	ug/kg	<25.0	50.0	25.0	12/07/18 20:56	
Chloromethane	ug/kg	<12.0	200	12.0	12/07/18 20:56	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/07/18 20:56	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/07/18 20:56	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

METHOD BLANK: 3143794

Matrix: Solid

Associated Lab Samples: 10457092009, 10457092010, 10457092011, 10457092012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/07/18 20:56	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/07/18 20:56	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/07/18 20:56	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/07/18 20:56	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/07/18 20:56	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/07/18 20:56	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/07/18 20:56	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/07/18 20:56	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/07/18 20:56	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/07/18 20:56	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/07/18 20:56	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/07/18 20:56	
Naphthalene	ug/kg	<46.8	200	46.8	12/07/18 20:56	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/07/18 20:56	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/07/18 20:56	
Styrene	ug/kg	<2.3	50.0	2.3	12/07/18 20:56	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/07/18 20:56	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/07/18 20:56	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/07/18 20:56	
Toluene	ug/kg	<12.2	50.0	12.2	12/07/18 20:56	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/07/18 20:56	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/07/18 20:56	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/07/18 20:56	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/07/18 20:56	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/07/18 20:56	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/07/18 20:56	
1,2-Dichloroethane-d4 (S)	%	101	75-125		12/07/18 20:56	
4-Bromofluorobenzene (S)	%	98	75-125		12/07/18 20:56	
Toluene-d8 (S)	%	99	75-125		12/07/18 20:56	

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	826	83	59-125	
1,1,1-Trichloroethane	ug/kg	1000	887	89	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	735	73	58-125	
1,1,2-Trichloroethane	ug/kg	1000	827	83	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	860	86	65-125	
1,1-Dichloroethane	ug/kg	1000	800	80	63-125	
1,1-Dichloroethene	ug/kg	1000	784	78	59-125	
1,1-Dichloropropene	ug/kg	1000	846	85	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	800	80	55-126	
1,2,3-Trichloropropane	ug/kg	1000	831	83	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	860	86	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	871	87	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1930	77	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	866	87	64-125	
1,2-Dichlorobenzene	ug/kg	1000	842	84	63-125	
1,2-Dichloroethane	ug/kg	1000	775	77	57-125	
1,2-Dichloropropane	ug/kg	1000	802	80	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	859	86	59-125	
1,3-Dichlorobenzene	ug/kg	1000	874	87	64-125	
1,3-Dichloropropane	ug/kg	1000	853	85	64-125	
1,4-Dichlorobenzene	ug/kg	1000	864	86	63-125	
2,2-Dichloropropane	ug/kg	1000	862	86	37-126	
2-Butanone (MEK)	ug/kg	5000	3850	77	48-125	
2-Chlorotoluene	ug/kg	1000	863	86	62-125	
4-Chlorotoluene	ug/kg	1000	866	87	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4210	84	52-135	
Acetone	ug/kg	5000	3810	76	65-125	
Allyl chloride	ug/kg	1000	716	72	52-125	
Benzene	ug/kg	1000	824	82	61-125	
Bromobenzene	ug/kg	1000	835	84	64-125	
Bromochloromethane	ug/kg	1000	868	87	65-125	
Bromodichloromethane	ug/kg	1000	861	86	57-125	
Bromoform	ug/kg	1000	755	75	57-125	
Bromomethane	ug/kg	1000	1130	113	60-125	SS
Carbon tetrachloride	ug/kg	1000	844	84	58-125	
Chlorobenzene	ug/kg	1000	863	86	66-125	
Chloroethane	ug/kg	1000	1040	104	62-125	
Chloroform	ug/kg	1000	783	78	59-125	
Chloromethane	ug/kg	1000	877	88	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	828	83	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	881	88	61-125	
Dibromochloromethane	ug/kg	1000	858	86	60-125	
Dibromomethane	ug/kg	1000	870	87	69-125	
Dichlorodifluoromethane	ug/kg	1000	740	74	38-125	
Dichlorofluoromethane	ug/kg	1000	1050	105	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	765	76	60-125	
Ethylbenzene	ug/kg	1000	832	83	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	811	81	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	846	85	65-125	
Methyl-tert-butyl ether	ug/kg	1000	869	87	59-125	
Methylene Chloride	ug/kg	1000	742	74	64-125	
n-Butylbenzene	ug/kg	1000	871	87	59-125	
n-Propylbenzene	ug/kg	1000	902	90	61-125	
Naphthalene	ug/kg	1000	764	76	53-125	
p-Isopropyltoluene	ug/kg	1000	825	82	63-125	
sec-Butylbenzene	ug/kg	1000	841	84	62-125	
Styrene	ug/kg	1000	806	81	66-125	
tert-Butylbenzene	ug/kg	1000	852	85	64-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	851	85	67-125	
Tetrahydrofuran	ug/kg	10000	7460	75	62-125	
Toluene	ug/kg	1000	823	82	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	843	84	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	868	87	56-125	
Trichloroethene	ug/kg	1000	860	86	67-125	
Trichlorofluoromethane	ug/kg	1000	935	94	65-125	
Vinyl chloride	ug/kg	1000	937	94	57-125	
Xylene (Total)	ug/kg	3000	2470	82	62-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3143796 3143797

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457121002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	<18.7	1190	1200	1690	1490	142	125	64-146	12	30		
1,1,1-Trichloroethane	ug/kg	<27.7	1190	1200	1710	1580	143	132	56-148	8	30		
1,1,2,2-Tetrachloroethane	ug/kg	<10.5	1190	1200	1560	1410	131	118	36-150	10	30		
1,1,2-Trichloroethane	ug/kg	<7.1	1190	1200	1600	1440	134	120	67-148	10	30		
1,1,2-Trichloroethane	ug/kg	<68.9	1190	1200	1530	1340	129	112	60-142	13	30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/kg	<6.7	1190	1200	1590	1450	133	121	57-140	9	30		
1,1-Dichloroethene	ug/kg	<17.8	1190	1200	1450	1360	122	113	59-139	7	30		
1,1-Dichloropropene	ug/kg	<27.4	1190	1200	1660	1420	139	119	61-142	15	30		
1,2,3-Trichlorobenzene	ug/kg	11.1J	1190	1200	1760	1680	147	140	69-150	4	30		
1,2,3-Trichloropropane	ug/kg	<15.6	1190	1200	1620	1550	136	130	64-150	4	30		
1,2,4-Trichlorobenzene	ug/kg	<13.2	1190	1200	1780	1640	150	138	71-149	8	30	M1	
1,2,4-Trimethylbenzene	ug/kg	<11.9	1190	1200	1720	1560	144	131	67-149	10	30		
1,2-Dibromo-3-chloropropane	ug/kg	<207	2980	2990	3850	3670	129	123	61-150	5	30		
1,2-Dibromoethane (EDB)	ug/kg	<0.26	1190	1200	1670	1580	141	132	67-147	6	30		
1,2-Dichlorobenzene	ug/kg	<2.4	1190	1200	1650	1550	139	130	70-142	6	30		
1,2-Dichloroethane	ug/kg	<6.5	1190	1200	1460	1350	123	113	58-132	8	30		
1,2-Dichloropropane	ug/kg	<10.2	1190	1200	1570	1490	131	125	64-144	5	30		
1,3,5-Trimethylbenzene	ug/kg	<9.5	1190	1200	1760	1590	148	133	71-146	10	30	M1	
1,3-Dichlorobenzene	ug/kg	<2.2	1190	1200	1720	1600	145	134	71-142	7	30	M1	
1,3-Dichloropropane	ug/kg	<8.2	1190	1200	1620	1550	136	130	68-140	4	30		
1,4-Dichlorobenzene	ug/kg	<3.7	1190	1200	1670	1600	141	134	68-142	4	30		
2,2-Dichloropropane	ug/kg	<7.4	1190	1200	1620	1440	136	121	34-150	11	30		
2-Butanone (MEK)	ug/kg	<31.6	5950	5980	7240	6800	122	114	51-150	6	30		
2-Chlorotoluene	ug/kg	<2.9	1190	1200	1790	1600	150	134	66-144	11	30	M1	
4-Chlorotoluene	ug/kg	<3.0	1190	1200	1710	1550	143	130	66-140	10	30	M1	
4-Methyl-2-pentanone (MIBK)	ug/kg	<12.4	5950	5980	8190	7390	138	124	63-150	10	30		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3143796 3143797												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10457121002	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Acetone	ug/kg	731J	5950	5980	7900	7160	120	108	54-150	10	30	
Allyl chloride	ug/kg	<49.8	1190	1200	1360	1210	114	101	53-135	12	30	
Benzene	ug/kg	<3.4	1190	1200	1580	1430	132	120	65-135	9	30	
Bromobenzene	ug/kg	<3.6	1190	1200	1720	1530	144	128	71-141	12	30	M1
Bromochloromethane	ug/kg	<20.6	1190	1200	1700	1600	143	134	62-145	6	30	
Bromodichloromethane	ug/kg	<20.3	1190	1200	1710	1540	143	129	59-148	10	30	
Bromoform	ug/kg	<89.9	1190	1200	1680	1490	141	124	57-145	12	30	
Bromomethane	ug/kg	<69.5	1190	1200	1600	1570	130	127	51-129	1	30	M1,SS
Carbon tetrachloride	ug/kg	<28.4	1190	1200	1630	1460	137	122	55-144	12	30	
Chlorobenzene	ug/kg	<3.4	1190	1200	1660	1530	139	128	70-142	8	30	
Chloroethane	ug/kg	<30.9	1190	1200	1600	1650	135	138	61-135	3	30	M1
Chloroform	ug/kg	<29.7	1190	1200	1510	1410	127	118	58-135	7	30	
Chloromethane	ug/kg	<14.3	1190	1200	1320	1330	111	111	37-125	0	30	
cis-1,2-Dichloroethene	ug/kg	<9.9	1190	1200	1630	1490	137	125	60-138	9	30	
cis-1,3-Dichloropropene	ug/kg	<8.5	1190	1200	1680	1630	141	136	62-142	3	30	
Dibromochloromethane	ug/kg	<6.9	1190	1200	1690	1550	142	129	65-141	9	30	M1
Dibromomethane	ug/kg	<10.9	1190	1200	1690	1600	142	134	72-150	6	30	
Dichlorodifluoromethane	ug/kg	<19.2	1190	1200	982	901	82	75	30-125	9	30	
Dichlorofluoromethane	ug/kg	<82.1	1190	1200	1740	1650	146	138	62-148	5	30	N2
Diethyl ether (Ethyl ether)	ug/kg	<36.4	1190	1200	1430	1410	120	118	62-135	2	30	
Ethylbenzene	ug/kg	<3.2	1190	1200	1640	1470	138	123	72-138	11	30	
Hexachloro-1,3-butadiene	ug/kg	<14.5	1190	1200	1710	1620	143	136	38-150	5	30	
Isopropylbenzene (Cumene)	ug/kg	<2.6	1190	1200	1730	1560	145	130	75-148	10	30	
Methyl-tert-butyl ether	ug/kg	<7.1	1190	1200	1590	1480	134	124	63-139	7	30	
Methylene Chloride	ug/kg	<112	1190	1200	1490	1370	125	114	58-135	9	30	
n-Butylbenzene	ug/kg	<28.3	1190	1200	1820	1620	153	136	63-150	11	30	M1
n-Propylbenzene	ug/kg	<3.2	1190	1200	1810	1650	152	138	70-146	10	30	M1
Naphthalene	ug/kg	<55.6	1190	1200	1630	1550	137	129	63-150	5	30	
p-Isopropyltoluene	ug/kg	<18.1	1190	1200	1670	1540	140	128	72-150	8	30	
sec-Butylbenzene	ug/kg	<11.4	1190	1200	1670	1520	140	127	66-150	10	30	
Styrene	ug/kg	<2.7	1190	1200	1650	1500	138	126	72-146	9	30	
tert-Butylbenzene	ug/kg	<11.4	1190	1200	1780	1610	149	135	71-148	10	30	M1
Tetrachloroethene	ug/kg	<20.9	1190	1200	1740	1530	146	128	70-150	12	30	
Tetrahydrofuran	ug/kg	<86.4	11900	12000	16400	15200	138	127	62-150	8	30	
Toluene	ug/kg	<14.5	1190	1200	1620	1470	136	123	65-142	9	30	
trans-1,2-Dichloroethene	ug/kg	<27.8	1190	1200	1610	1470	136	123	55-141	9	30	
trans-1,3-Dichloropropene	ug/kg	<8.3	1190	1200	1740	1610	146	135	57-147	7	30	
Trichloroethene	ug/kg	<9.2	1190	1200	1600	1510	134	126	62-150	6	30	
Trichlorofluoromethane	ug/kg	<104	1190	1200	1610	1450	135	122	51-150	10	30	
Vinyl chloride	ug/kg	<11.7	1190	1200	1470	1440	124	121	45-132	2	30	
Xylene (Total)	ug/kg	<13.8	3580	3590	5020	4480	141	125	75-140	11	30	MS
1,2-Dichloroethane-d4 (S)	%						97	98	75-125			
4-Bromofluorobenzene (S)	%						99	102	75-125			
Toluene-d8 (S)	%						99	99	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 579856 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019,  
 10457092020, 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026,  
 10457092027, 10457092028

METHOD BLANK: 3145266

Matrix: Solid

Associated Lab Samples: 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019,  
 10457092020, 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026,  
 10457092027, 10457092028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/10/18 13:19	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/10/18 13:19	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/10/18 13:19	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/10/18 13:19	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/10/18 13:19	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/10/18 13:19	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/10/18 13:19	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/10/18 13:19	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/10/18 13:19	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/10/18 13:19	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/10/18 13:19	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/10/18 13:19	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/10/18 13:19	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/10/18 13:19	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/10/18 13:19	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/10/18 13:19	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/10/18 13:19	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/10/18 13:19	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/10/18 13:19	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/10/18 13:19	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 13:19	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/10/18 13:19	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/10/18 13:19	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/10/18 13:19	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/10/18 13:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/10/18 13:19	
Acetone	ug/kg	<311	1000	311	12/10/18 13:19	
Allyl chloride	ug/kg	<41.9	200	41.9	12/10/18 13:19	
Benzene	ug/kg	3.6J	20.0	2.8	12/10/18 13:19	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 13:19	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/10/18 13:19	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/10/18 13:19	
Bromoform	ug/kg	<75.7	200	75.7	12/10/18 13:19	
Bromomethane	ug/kg	<58.5	500	58.5	12/10/18 13:19	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/10/18 13:19	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/10/18 13:19	
Chloroethane	ug/kg	<26.0	500	26.0	12/10/18 13:19	
Chloroform	ug/kg	<25.0	50.0	25.0	12/10/18 13:19	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

METHOD BLANK: 3145266

Matrix: Solid

Associated Lab Samples: 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloromethane	ug/kg	<12.0	200	12.0	12/10/18 13:19	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/10/18 13:19	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/10/18 13:19	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/10/18 13:19	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/10/18 13:19	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/10/18 13:19	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/10/18 13:19	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/10/18 13:19	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 13:19	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/10/18 13:19	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/10/18 13:19	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/10/18 13:19	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/10/18 13:19	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/10/18 13:19	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 13:19	
Naphthalene	ug/kg	<46.8	200	46.8	12/10/18 13:19	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/10/18 13:19	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 13:19	
Styrene	ug/kg	<2.3	50.0	2.3	12/10/18 13:19	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 13:19	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/10/18 13:19	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/10/18 13:19	
Toluene	ug/kg	<12.2	50.0	12.2	12/10/18 13:19	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/10/18 13:19	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/10/18 13:19	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/10/18 13:19	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/10/18 13:19	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/10/18 13:19	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/10/18 13:19	
1,2-Dichloroethane-d4 (S)	%	92	75-125		12/10/18 13:19	
4-Bromofluorobenzene (S)	%	108	75-125		12/10/18 13:19	
Toluene-d8 (S)	%	102	75-125		12/10/18 13:19	

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	696	70	59-125	
1,1,1-Trichloroethane	ug/kg	1000	664	66	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	777	78	58-125	
1,1,2-Trichloroethane	ug/kg	1000	746	75	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	659	66	65-125	
1,1-Dichloroethane	ug/kg	1000	737	74	63-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1000	584	58	59-125	L2
1,1-Dichloropropene	ug/kg	1000	731	73	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	694	69	55-126	
1,2,3-Trichloropropane	ug/kg	1000	661	66	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	718	72	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	748	75	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1720	69	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	689	69	64-125	
1,2-Dichlorobenzene	ug/kg	1000	693	69	63-125	
1,2-Dichloroethane	ug/kg	1000	602	60	57-125	
1,2-Dichloropropane	ug/kg	1000	833	83	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	716	72	59-125	
1,3-Dichlorobenzene	ug/kg	1000	680	68	64-125	
1,3-Dichloropropane	ug/kg	1000	765	77	64-125	
1,4-Dichlorobenzene	ug/kg	1000	661	66	63-125	
2,2-Dichloropropane	ug/kg	1000	697	70	37-126	
2-Butanone (MEK)	ug/kg	5000	4190	84	48-125	
2-Chlorotoluene	ug/kg	1000	751	75	62-125	
4-Chlorotoluene	ug/kg	1000	747	75	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3880	78	52-135	
Acetone	ug/kg	5000	4560	91	65-125	
Allyl chloride	ug/kg	1000	711	71	52-125	
Benzene	ug/kg	1000	706	71	61-125	
Bromobenzene	ug/kg	1000	660	66	64-125	
Bromochloromethane	ug/kg	1000	679	68	65-125	
Bromodichloromethane	ug/kg	1000	709	71	57-125	
Bromoform	ug/kg	1000	743	74	57-125	
Bromomethane	ug/kg	1000	749	75	60-125	
Carbon tetrachloride	ug/kg	1000	588	59	58-125	
Chlorobenzene	ug/kg	1000	682	68	66-125	
Chloroethane	ug/kg	1000	756	76	62-125	
Chloroform	ug/kg	1000	656	66	59-125	
Chloromethane	ug/kg	1000	954	95	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	748	75	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	715	71	61-125	
Dibromochloromethane	ug/kg	1000	713	71	60-125	
Dibromomethane	ug/kg	1000	682	68	69-125	L2
Dichlorodifluoromethane	ug/kg	1000	717	72	38-125	
Dichlorofluoromethane	ug/kg	1000	724	72	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	619	62	60-125	
Ethylbenzene	ug/kg	1000	664	66	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	709	71	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	754	75	65-125	
Methyl-tert-butyl ether	ug/kg	1000	765	77	59-125	
Methylene Chloride	ug/kg	1000	725	73	64-125	
n-Butylbenzene	ug/kg	1000	779	78	59-125	
n-Propylbenzene	ug/kg	1000	741	74	61-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1000	743	74	53-125	
p-Isopropyltoluene	ug/kg	1000	733	73	63-125	
sec-Butylbenzene	ug/kg	1000	781	78	62-125	
Styrene	ug/kg	1000	755	75	66-125	
tert-Butylbenzene	ug/kg	1000	773	77	64-125	
Tetrachloroethene	ug/kg	1000	653	65	67-125	L2
Tetrahydrofuran	ug/kg	10000	7660	77	62-125	
Toluene	ug/kg	1000	646	65	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	721	72	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	721	72	56-125	
Trichloroethene	ug/kg	1000	660	66	67-125	L2
Trichlorofluoromethane	ug/kg	1000	721	72	65-125	
Vinyl chloride	ug/kg	1000	933	93	57-125	
Xylene (Total)	ug/kg	3000	2150	72	62-125	
1,2-Dichloroethane-d4 (S)	%			87	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145434 3145435

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457121011 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	<19.5	1220	1250	1360	1360	111	109	64-146	0	30		
1,1,1-Trichloroethane	ug/kg	<29.0	1220	1250	1340	1310	109	105	56-148	2	30		
1,1,2,2-Tetrachloroethane	ug/kg	<11.0	1220	1250	1730	1650	142	132	36-150	5	30		
1,1,2-Trichloroethane	ug/kg	<7.4	1220	1250	1460	1460	119	117	67-148	0	30		
1,1,2-Trichlorotrifluoroethane	ug/kg	<72.2	1220	1250	1130	1120	92	89	60-142	1	30		
1,1-Dichloroethane	ug/kg	<7.0	1220	1250	1530	1430	125	115	57-140	7	30		
1,1-Dichloroethene	ug/kg	<18.7	1220	1250	1040	1080	85	86	59-139	3	30		
1,1-Dichloropropene	ug/kg	<28.8	1220	1250	1440	1390	118	111	61-142	3	30		
1,2,3-Trichlorobenzene	ug/kg	<9.9	1220	1250	1500	1440	122	115	69-150	4	30		
1,2,3-Trichloropropane	ug/kg	<16.3	1220	1250	1340	1380	110	111	64-150	3	30		
1,2,4-Trichlorobenzene	ug/kg	<13.8	1220	1250	1500	1480	123	118	71-149	1	30		
1,2,4-Trimethylbenzene	ug/kg	<12.4	1220	1250	1610	1620	131	130	67-149	1	30		
1,2-Dibromo-3-chloropropane	ug/kg	<217	3060	3130	3790	3660	124	117	61-150	4	30		
1,2-Dibromoethane (EDB)	ug/kg	<6.5	1220	1250	1370	1330	112	106	67-147	3	30		
1,2-Dichlorobenzene	ug/kg	<2.5	1220	1250	1440	1450	118	116	70-142	1	30		
1,2-Dichloroethane	ug/kg	9.3J	1220	1250	1250	1190	101	95	58-132	5	30		
1,2-Dichloropropane	ug/kg	<10.7	1220	1250	1650	1550	135	124	64-144	6	30		
1,3,5-Trimethylbenzene	ug/kg	<9.9	1220	1250	1500	1500	123	120	71-146	0	30		
1,3-Dichlorobenzene	ug/kg	<2.3	1220	1250	1420	1390	116	111	71-142	2	30		
1,3-Dichloropropane	ug/kg	<8.6	1220	1250	1510	1510	123	121	68-140	0	30		
1,4-Dichlorobenzene	ug/kg	<3.9	1220	1250	1410	1400	115	112	68-142	1	30		
2,2-Dichloropropane	ug/kg	<7.8	1220	1250	1360	1320	111	106	34-150	3	30		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Parameter	Units	3145434		3145435		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457121011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
2-Butanone (MEK)	ug/kg	<33.1	6120	6260	8320	7600	136	121	51-150	9	30		
2-Chlorotoluene	ug/kg	<3.1	1220	1250	1590	1580	130	126	66-144	1	30		
4-Chlorotoluene	ug/kg	<3.2	1220	1250	1580	1580	129	126	66-140	0	30		
4-Methyl-2-pentanone (MIBK)	ug/kg	<12.9	6120	6260	8060	7930	132	127	63-150	2	30		
Acetone	ug/kg	<387	6120	6260	8780	8450	143	135	54-150	4	30		
Allyl chloride	ug/kg	<52.2	1220	1250	1310	1310	107	105	53-135	0	30		
Benzene	ug/kg	8.0J	1220	1250	1400	1360	114	108	65-135	3	30		
Bromobenzene	ug/kg	<3.8	1220	1250	1390	1370	114	110	71-141	1	30		
Bromochloromethane	ug/kg	<21.5	1220	1250	1400	1340	115	107	62-145	5	30		
Bromodichloromethane	ug/kg	<21.3	1220	1250	1430	1370	117	109	59-148	5	30		
Bromoform	ug/kg	<94.2	1220	1250	1450	1400	118	112	57-145	3	30		
Bromomethane	ug/kg	<72.8	1220	1250	1010	1060	81	83	51-129	4	30		
Carbon tetrachloride	ug/kg	<29.7	1220	1250	1150	1160	94	93	55-144	1	30		
Chlorobenzene	ug/kg	<3.5	1220	1250	1350	1340	110	107	70-142	1	30		
Chloroethane	ug/kg	<32.4	1220	1250	925	1040	76	83	61-135	11	30		
Chloroform	ug/kg	<31.1	1220	1250	1350	1270	110	101	58-135	6	30		
Chloromethane	ug/kg	<14.9	1220	1250	1250	1280	102	102	37-125	2	30		
cis-1,2-Dichloroethene	ug/kg	<10.3	1220	1250	1460	1420	119	114	60-138	2	30		
cis-1,3-Dichloropropene	ug/kg	<8.9	1220	1250	1480	1450	121	116	62-142	2	30		
Dibromochloromethane	ug/kg	<7.2	1220	1250	1360	1330	111	107	65-141	2	30		
Dibromomethane	ug/kg	<11.4	1220	1250	1330	1330	109	107	72-150	0	30		
Dichlorodifluoromethane	ug/kg	<20.2	1220	1250	783	772	64	62	30-125	1	30		
Dichlorofluoromethane	ug/kg	<86.0	1220	1250	985	986	80	79	62-148	0	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<38.1	1220	1250	1220	1150	99	92	62-135	6	30		
Ethylbenzene	ug/kg	<3.4	1220	1250	1340	1290	110	103	72-138	4	30		
Hexachloro-1,3-butadiene	ug/kg	<15.2	1220	1250	1590	1510	130	121	38-150	5	30		
Isopropylbenzene (Cumene)	ug/kg	<2.8	1220	1250	1520	1510	124	121	75-148	1	30		
Methyl-tert-butyl ether	ug/kg	<7.4	1220	1250	1540	1510	126	121	63-139	2	30		
Methylene Chloride	ug/kg	<117	1220	1250	1460	1430	113	108	58-135	2	30		
n-Butylbenzene	ug/kg	<29.6	1220	1250	1660	1690	136	135	63-150	2	30		
n-Propylbenzene	ug/kg	<3.3	1220	1250	1530	1540	125	123	70-146	1	30		
Naphthalene	ug/kg	<58.3	1220	1250	1640	1610	133	128	63-150	2	30		
p-Isopropyltoluene	ug/kg	<18.9	1220	1250	1590	1570	130	125	72-150	2	30		
sec-Butylbenzene	ug/kg	<11.9	1220	1250	1650	1650	135	132	66-150	0	30		
Styrene	ug/kg	<2.8	1220	1250	1500	1510	123	121	72-146	1	30		
tert-Butylbenzene	ug/kg	<11.9	1220	1250	1600	1630	131	130	71-148	2	30		
Tetrachloroethene	ug/kg	<21.9	1220	1250	1240	1270	101	102	70-150	3	30		
Tetrahydrofuran	ug/kg	<90.5	12200	12500	15800	15600	129	125	62-150	1	30		
Toluene	ug/kg	<15.2	1220	1250	1300	1270	106	101	65-142	2	30		
trans-1,2-Dichloroethene	ug/kg	<29.1	1220	1250	1360	1300	111	104	55-141	5	30		
trans-1,3-Dichloropropene	ug/kg	<8.7	1220	1250	1410	1390	115	111	57-147	2	30		
Trichloroethene	ug/kg	<9.6	1220	1250	1310	1300	107	104	62-150	0	30		
Trichlorofluoromethane	ug/kg	<109	1220	1250	831	891	68	71	51-150	7	30		
Vinyl chloride	ug/kg	<12.2	1220	1250	1190	1260	97	100	45-132	5	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

Parameter	Units	3145434		3145435		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457121011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Xylene (Total)	ug/kg	<14.4	3670	3760	4290	4230	117	113	75-140	2	30	
1,2-Dichloroethane-d4 (S)	%						90	87	75-125			
4-Bromofluorobenzene (S)	%						108	109	75-125			
Toluene-d8 (S)	%						102	104	75-125			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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QC Batch: 580105 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037

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METHOD BLANK: 3146269 Matrix: Solid  
 Associated Lab Samples: 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/11/18 21:25	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/11/18 21:25	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/11/18 21:25	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/11/18 21:25	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/11/18 21:25	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/11/18 21:25	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/11/18 21:25	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/11/18 21:25	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/11/18 21:25	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/11/18 21:25	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/11/18 21:25	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/11/18 21:25	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/11/18 21:25	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/11/18 21:25	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/11/18 21:25	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/11/18 21:25	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/11/18 21:25	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/11/18 21:25	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/11/18 21:25	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/11/18 21:25	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 21:25	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/11/18 21:25	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/11/18 21:25	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/11/18 21:25	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/11/18 21:25	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/11/18 21:25	
Acetone	ug/kg	<311	1000	311	12/11/18 21:25	
Allyl chloride	ug/kg	<41.9	200	41.9	12/11/18 21:25	
Benzene	ug/kg	12.4J	20.0	2.8	12/11/18 21:25	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 21:25	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/11/18 21:25	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/11/18 21:25	
Bromoform	ug/kg	<75.7	200	75.7	12/11/18 21:25	
Bromomethane	ug/kg	<58.5	500	58.5	12/11/18 21:25	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/11/18 21:25	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/11/18 21:25	
Chloroethane	ug/kg	<26.0	500	26.0	12/11/18 21:25	
Chloroform	ug/kg	<25.0	50.0	25.0	12/11/18 21:25	
Chloromethane	ug/kg	<12.0	200	12.0	12/11/18 21:25	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/11/18 21:25	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

METHOD BLANK: 3146269

Matrix: Solid

Associated Lab Samples: 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/11/18 21:25	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/11/18 21:25	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/11/18 21:25	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/11/18 21:25	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/11/18 21:25	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/11/18 21:25	
Ethylbenzene	ug/kg	7.1J	50.0	2.7	12/11/18 21:25	
Hexachloro-1,3-butadiene	ug/kg	87.2J	250	12.2	12/11/18 21:25	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/11/18 21:25	
Methyl-tert-butyl ether	ug/kg	6.3J	50.0	6.0	12/11/18 21:25	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/11/18 21:25	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/11/18 21:25	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/11/18 21:25	
Naphthalene	ug/kg	<46.8	200	46.8	12/11/18 21:25	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/11/18 21:25	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 21:25	
Styrene	ug/kg	<2.3	50.0	2.3	12/11/18 21:25	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 21:25	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/11/18 21:25	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/11/18 21:25	
Toluene	ug/kg	<12.2	50.0	12.2	12/11/18 21:25	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/11/18 21:25	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/11/18 21:25	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/11/18 21:25	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/11/18 21:25	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/11/18 21:25	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/11/18 21:25	
1,2-Dichloroethane-d4 (S)	%	104	75-125		12/11/18 21:25	
4-Bromofluorobenzene (S)	%	101	75-125		12/11/18 21:25	
Toluene-d8 (S)	%	97	75-125		12/11/18 21:25	

LABORATORY CONTROL SAMPLE: 3146270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	892	89	59-125	
1,1,1-Trichloroethane	ug/kg	1000	969	97	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	879	88	58-125	
1,1,2-Trichloroethane	ug/kg	1000	904	90	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1000	100	65-125	
1,1-Dichloroethane	ug/kg	1000	964	96	63-125	
1,1-Dichloroethene	ug/kg	1000	977	98	59-125	
1,1-Dichloropropene	ug/kg	1000	1160	116	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	845	84	55-126	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3146270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	868	87	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	794	79	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	886	89	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2060	82	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	876	88	64-125	
1,2-Dichlorobenzene	ug/kg	1000	832	83	63-125	
1,2-Dichloroethane	ug/kg	1000	846	85	57-125	
1,2-Dichloropropane	ug/kg	1000	958	96	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	870	87	59-125	
1,3-Dichlorobenzene	ug/kg	1000	869	87	64-125	
1,3-Dichloropropane	ug/kg	1000	823	82	64-125	
1,4-Dichlorobenzene	ug/kg	1000	854	85	63-125	
2,2-Dichloropropane	ug/kg	1000	988	99	37-126	
2-Butanone (MEK)	ug/kg	5000	4280	86	48-125	
2-Chlorotoluene	ug/kg	1000	895	89	62-125	
4-Chlorotoluene	ug/kg	1000	883	88	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4370	87	52-135	
Acetone	ug/kg	5000	5260	105	65-125	
Allyl chloride	ug/kg	1000	1010	101	52-125	
Benzene	ug/kg	1000	966	97	61-125	
Bromobenzene	ug/kg	1000	882	88	64-125	
Bromochloromethane	ug/kg	1000	913	91	65-125	
Bromodichloromethane	ug/kg	1000	910	91	57-125	
Bromoform	ug/kg	1000	784	78	57-125	
Bromomethane	ug/kg	1000	1030	103	60-125	
Carbon tetrachloride	ug/kg	1000	994	99	58-125	
Chlorobenzene	ug/kg	1000	873	87	66-125	
Chloroethane	ug/kg	1000	908	91	62-125	
Chloroform	ug/kg	1000	889	89	59-125	
Chloromethane	ug/kg	1000	818	82	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	971	97	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	917	92	61-125	
Dibromochloromethane	ug/kg	1000	855	86	60-125	
Dibromomethane	ug/kg	1000	932	93	69-125	
Dichlorodifluoromethane	ug/kg	1000	721	72	38-125	
Dichlorofluoromethane	ug/kg	1000	888	89	67-125 N2	
Diethyl ether (Ethyl ether)	ug/kg	1000	892	89	60-125	
Ethylbenzene	ug/kg	1000	860	86	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	939	94	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	952	95	65-125	
Methyl-tert-butyl ether	ug/kg	1000	860	86	59-125	
Methylene Chloride	ug/kg	1000	940	94	64-125	
n-Butylbenzene	ug/kg	1000	1010	101	59-125	
n-Propylbenzene	ug/kg	1000	989	99	61-125	
Naphthalene	ug/kg	1000	790	79	53-125	
p-Isopropyltoluene	ug/kg	1000	958	96	63-125	
sec-Butylbenzene	ug/kg	1000	1020	102	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3146270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	869	87	66-125	
tert-Butylbenzene	ug/kg	1000	987	99	64-125	
Tetrachloroethene	ug/kg	1000	1010	101	67-125	
Tetrahydrofuran	ug/kg	10000	9120	91	62-125	
Toluene	ug/kg	1000	921	92	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	1070	107	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	908	91	56-125	
Trichloroethene	ug/kg	1000	987	99	67-125	
Trichlorofluoromethane	ug/kg	1000	1000	100	65-125	
Vinyl chloride	ug/kg	1000	876	88	57-125	
Xylene (Total)	ug/kg	3000	2540	85	62-125	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146271 3146272

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457054001 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/kg	ND	1150	1210	1270	1420	110	117	64-146	11	30		
1,1,1-Trichloroethane	ug/kg	ND	1150	1210	1290	1480	112	122	56-148	14	30		
1,1,2,2-Tetrachloroethane	ug/kg	ND	1150	1210	1140	1290	99	107	36-150	12	30		
1,1,2-Trichloroethane	ug/kg	ND	1150	1210	1230	1370	107	113	67-148	10	30		
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1150	1210	1230	1470	107	121	60-142	18	30		
1,1-Dichloroethane	ug/kg	ND	1150	1210	1320	1530	114	126	57-140	15	30		
1,1-Dichloroethene	ug/kg	ND	1150	1210	1290	1530	112	126	59-139	17	30		
1,1-Dichloropropene	ug/kg	ND	1150	1210	1530	1760	133	145	61-142	14	30	M1	
1,2,3-Trichlorobenzene	ug/kg	ND	1150	1210	1230	1470	107	122	69-150	18	30		
1,2,3-Trichloropropane	ug/kg	ND	1150	1210	1130	1390	98	115	64-150	21	30		
1,2,4-Trichlorobenzene	ug/kg	ND	1150	1210	1140	1370	99	113	71-149	18	30		
1,2,4-Trimethylbenzene	ug/kg	ND	1150	1210	1250	1510	105	121	67-149	19	30		
1,2-Dibromo-3-chloropropane	ug/kg	ND	2880	3030	2980	3480	103	115	61-150	15	30		
1,2-Dibromoethane (EDB)	ug/kg	ND	1150	1210	1240	1380	108	114	67-147	10	30		
1,2-Dichlorobenzene	ug/kg	ND	1150	1210	1230	1430	107	118	70-142	15	30		
1,2-Dichloroethane	ug/kg	ND	1150	1210	1110	1310	96	108	58-132	16	30		
1,2-Dichloropropane	ug/kg	ND	1150	1210	1270	1400	110	115	64-144	10	30		
1,3,5-Trimethylbenzene	ug/kg	ND	1150	1210	1280	1530	111	127	71-146	18	30		
1,3-Dichlorobenzene	ug/kg	ND	1150	1210	1290	1530	112	127	71-142	18	30		
1,3-Dichloropropane	ug/kg	ND	1150	1210	1150	1410	100	116	68-140	20	30		
1,4-Dichlorobenzene	ug/kg	ND	1150	1210	1240	1520	108	125	68-142	20	30		
2,2-Dichloropropane	ug/kg	ND	1150	1210	1280	1510	111	125	34-150	16	30		
2-Butanone (MEK)	ug/kg	ND	5770	6060	5980	6770	104	112	51-150	12	30		
2-Chlorotoluene	ug/kg	ND	1150	1210	1350	1590	117	131	66-144	16	30		
4-Chlorotoluene	ug/kg	ND	1150	1210	1300	1540	112	127	66-140	17	30		

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146271 3146272													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457054001 Result	Spike Conc.	Spike Conc.	MS Conc.								
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5770	6060	6130	7020	106	116	63-150	13	30		
Acetone	ug/kg	ND	5770	6060	6610	7370	115	122	54-150	11	30		
Allyl chloride	ug/kg	ND	1150	1210	1260	1490	109	123	53-135	17	30		
Benzene	ug/kg	ND	1150	1210	1300	1540	111	126	65-135	17	30		
Bromobenzene	ug/kg	ND	1150	1210	1250	1450	108	120	71-141	15	30		
Bromochloromethane	ug/kg	ND	1150	1210	1190	1430	103	118	62-145	18	30		
Bromodichloromethane	ug/kg	ND	1150	1210	1200	1380	104	114	59-148	14	30		
Bromoform	ug/kg	ND	1150	1210	1100	1310	95	108	57-145	18	30		
Bromomethane	ug/kg	ND	1150	1210	1220	1390	106	114	51-129	13	30		
Carbon tetrachloride	ug/kg	ND	1150	1210	1350	1560	117	129	55-144	15	30		
Chlorobenzene	ug/kg	ND	1150	1210	1240	1460	108	120	70-142	16	30		
Chloroethane	ug/kg	ND	1150	1210	1060	1270	91	104	61-135	18	30		
Chloroform	ug/kg	ND	1150	1210	1190	1450	103	120	58-135	20	30		
Chloromethane	ug/kg	ND	1150	1210	951	1100	82	90	37-125	14	30		
cis-1,2-Dichloroethene	ug/kg	ND	1150	1210	1290	1530	112	126	60-138	17	30		
cis-1,3-Dichloropropene	ug/kg	ND	1150	1210	1180	1390	102	115	62-142	17	30		
Dibromochloromethane	ug/kg	ND	1150	1210	1230	1420	107	117	65-141	14	30		
Dibromomethane	ug/kg	ND	1150	1210	1240	1460	107	121	72-150	17	30		
Dichlorodifluoromethane	ug/kg	ND	1150	1210	646	825	56	68	30-125	24	30		
Dichlorofluoromethane	ug/kg	ND	1150	1210	1110	1300	96	108	62-148	16	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	ND	1150	1210	1170	1380	101	114	62-135	17	30		
Ethylbenzene	ug/kg	ND	1150	1210	1300	1480	112	122	72-138	13	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1150	1210	1320	1530	114	126	38-150	15	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1150	1210	1460	1710	126	141	75-148	16	30		
Methyl-tert-butyl ether	ug/kg	ND	1150	1210	1180	1370	103	113	63-139	15	30		
Methylene Chloride	ug/kg	ND	1150	1210	1270	1420	110	117	58-135	12	30		
n-Butylbenzene	ug/kg	ND	1150	1210	1400	1720	121	141	63-150	20	30		
n-Propylbenzene	ug/kg	ND	1150	1210	1460	1750	126	145	70-146	18	30		
Naphthalene	ug/kg	ND	1150	1210	1200	1450	102	118	63-150	19	30		
p-Isopropyltoluene	ug/kg	ND	1150	1210	1390	1630	120	134	72-150	16	30		
sec-Butylbenzene	ug/kg	ND	1150	1210	1430	1670	124	138	66-150	16	30		
Styrene	ug/kg	ND	1150	1210	1290	1500	112	124	72-146	15	30		
tert-Butylbenzene	ug/kg	ND	1150	1210	1370	1630	119	134	71-148	17	30		
Tetrachloroethene	ug/kg	ND	1150	1210	1550	1720	134	142	70-150	10	30		
Tetrahydrofuran	ug/kg	ND	11500	12100	12200	14200	106	117	62-150	15	30		
Toluene	ug/kg	ND	1150	1210	1280	1470	110	121	65-142	14	30		
trans-1,2-Dichloroethene	ug/kg	ND	1150	1210	1360	1630	118	134	55-141	18	30		
trans-1,3-Dichloropropene	ug/kg	ND	1150	1210	1260	1460	109	120	57-147	14	30		
Trichloroethene	ug/kg	ND	1150	1210	1330	1570	115	129	62-150	16	30		
Trichlorofluoromethane	ug/kg	ND	1150	1210	1120	1360	97	112	51-150	20	30		
Vinyl chloride	ug/kg	ND	1150	1210	983	1240	85	102	45-132	23	30		
Xylene (Total)	ug/kg	ND	3460	3630	3870	4490	112	124	75-140	15	30		
1,2-Dichloroethane-d4 (S)	%						97	100	75-125				
4-Bromofluorobenzene (S)	%						102	102	75-125				

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146271 3146272												
Parameter	Units	10457054001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Toluene-d8 (S)	%							102	100	75-125		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 580108 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046

METHOD BLANK: 3146275 Matrix: Solid  
 Associated Lab Samples: 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/11/18 23:46	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/11/18 23:46	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/11/18 23:46	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/11/18 23:46	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/11/18 23:46	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/11/18 23:46	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/11/18 23:46	
1,1-Dichloropropene	ug/kg	<23.1	200	23.1	12/11/18 23:46	MN
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/11/18 23:46	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/11/18 23:46	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/11/18 23:46	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/11/18 23:46	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/11/18 23:46	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/11/18 23:46	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/11/18 23:46	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/11/18 23:46	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/11/18 23:46	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/11/18 23:46	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/11/18 23:46	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/11/18 23:46	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 23:46	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/11/18 23:46	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/11/18 23:46	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/11/18 23:46	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/11/18 23:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/11/18 23:46	
Acetone	ug/kg	<311	1000	311	12/11/18 23:46	
Allyl chloride	ug/kg	<41.9	200	41.9	12/11/18 23:46	
Benzene	ug/kg	<2.8	20.0	2.8	12/11/18 23:46	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 23:46	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/11/18 23:46	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/11/18 23:46	
Bromoform	ug/kg	<75.7	200	75.7	12/11/18 23:46	
Bromomethane	ug/kg	<58.5	500	58.5	12/11/18 23:46	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/11/18 23:46	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/11/18 23:46	
Chloroethane	ug/kg	<26.0	500	26.0	12/11/18 23:46	
Chloroform	ug/kg	<25.0	50.0	25.0	12/11/18 23:46	
Chloromethane	ug/kg	<12.0	200	12.0	12/11/18 23:46	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/11/18 23:46	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

METHOD BLANK: 3146275 Matrix: Solid  
Associated Lab Samples: 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/11/18 23:46	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/11/18 23:46	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/11/18 23:46	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/11/18 23:46	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/11/18 23:46	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/11/18 23:46	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/11/18 23:46	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/11/18 23:46	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/11/18 23:46	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/11/18 23:46	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/11/18 23:46	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/11/18 23:46	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/11/18 23:46	
Naphthalene	ug/kg	<46.8	200	46.8	12/11/18 23:46	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/11/18 23:46	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 23:46	
Styrene	ug/kg	<2.3	50.0	2.3	12/11/18 23:46	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 23:46	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/11/18 23:46	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/11/18 23:46	
Toluene	ug/kg	<12.2	50.0	12.2	12/11/18 23:46	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/11/18 23:46	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/11/18 23:46	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/11/18 23:46	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/11/18 23:46	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/11/18 23:46	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/11/18 23:46	
1,2-Dichloroethane-d4 (S)	%	115	75-125		12/11/18 23:46	
4-Bromofluorobenzene (S)	%	102	75-125		12/11/18 23:46	
Toluene-d8 (S)	%	99	75-125		12/11/18 23:46	

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	681	68	59-125	
1,1,1-Trichloroethane	ug/kg	1000	897	90	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	643	64	58-125	
1,1,2-Trichloroethane	ug/kg	1000	685	69	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	864	86	65-125	
1,1-Dichloroethane	ug/kg	1000	797	80	63-125	
1,1-Dichloroethene	ug/kg	1000	914	91	59-125	
1,1-Dichloropropene	ug/kg	1000	835	84	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	688	69	55-126	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	640	64	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	700	70	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	679	68	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1650	66	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	675	68	64-125	
1,2-Dichlorobenzene	ug/kg	1000	687	69	63-125	
1,2-Dichloroethane	ug/kg	1000	729	73	57-125	
1,2-Dichloropropane	ug/kg	1000	708	71	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	703	70	59-125	
1,3-Dichlorobenzene	ug/kg	1000	689	69	64-125	
1,3-Dichloropropane	ug/kg	1000	678	68	64-125	
1,4-Dichlorobenzene	ug/kg	1000	659	66	63-125	
2,2-Dichloropropane	ug/kg	1000	801	80	37-126	
2-Butanone (MEK)	ug/kg	5000	3280	66	48-125	
2-Chlorotoluene	ug/kg	1000	661	66	62-125	
4-Chlorotoluene	ug/kg	1000	669	67	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3020	60	52-135	
Acetone	ug/kg	5000	3300	66	65-125	
Allyl chloride	ug/kg	1000	741	74	52-125	
Benzene	ug/kg	1000	742	74	61-125	
Bromobenzene	ug/kg	1000	701	70	64-125	
Bromochloromethane	ug/kg	1000	844	84	65-125	
Bromodichloromethane	ug/kg	1000	708	71	57-125	
Bromoform	ug/kg	1000	640	64	57-125	
Bromomethane	ug/kg	1000	1030	103	60-125	
Carbon tetrachloride	ug/kg	1000	854	85	58-125	
Chlorobenzene	ug/kg	1000	684	68	66-125	
Chloroethane	ug/kg	1000	820	82	62-125	CH,SS
Chloroform	ug/kg	1000	710	71	59-125	
Chloromethane	ug/kg	1000	743	74	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	804	80	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	691	69	61-125	
Dibromochloromethane	ug/kg	1000	657	66	60-125	
Dibromomethane	ug/kg	1000	722	72	69-125	
Dichlorodifluoromethane	ug/kg	1000	780	78	38-125	
Dichlorofluoromethane	ug/kg	1000	867	87	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	748	75	60-125	
Ethylbenzene	ug/kg	1000	705	70	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	773	77	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	782	78	65-125	
Methyl-tert-butyl ether	ug/kg	1000	746	75	59-125	
Methylene Chloride	ug/kg	1000	741	74	64-125	
n-Butylbenzene	ug/kg	1000	748	75	59-125	
n-Propylbenzene	ug/kg	1000	726	73	61-125	
Naphthalene	ug/kg	1000	652	65	53-125	
p-Isopropyltoluene	ug/kg	1000	739	74	63-125	
sec-Butylbenzene	ug/kg	1000	771	77	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	713	71	66-125	
tert-Butylbenzene	ug/kg	1000	759	76	64-125	
Tetrachloroethene	ug/kg	1000	811	81	67-125	
Tetrahydrofuran	ug/kg	10000	6850	69	62-125	
Toluene	ug/kg	1000	678	68	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	885	89	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	701	70	56-125	
Trichloroethene	ug/kg	1000	813	81	67-125	
Trichlorofluoromethane	ug/kg	1000	1250	125	65-125	
Vinyl chloride	ug/kg	1000	821	82	57-125	
Xylene (Total)	ug/kg	3000	2130	71	62-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146277 3146278

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092045 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/kg	<29.7	1840	2400	1910	2630	104	109	64-146	32	30	R1	
1,1,1-Trichloroethane	ug/kg	<44.0	1840	2400	2360	3260	129	136	56-148	32	30	R1	
1,1,2,2-Tetrachloroethane	ug/kg	<16.6	1840	2400	1740	2380	95	99	36-150	31	30	R1	
1,1,2-Trichloroethane	ug/kg	<11.3	1840	2400	1860	2580	102	107	67-148	32	30	R1	
1,1,2-Trichlorotrifluoroethane	ug/kg	<110	1840	2400	2190	2820	119	117	60-142	25	30		
1,1-Dichloroethane	ug/kg	<10.6	1840	2400	2050	2800	112	116	57-140	31	30	R1	
1,1-Dichloroethene	ug/kg	<28.3	1840	2400	2300	3080	126	128	59-139	29	30		
1,1-Dichloropropene	ug/kg	<43.6	1840	2400	2100	2800	115	117	61-142	29	30		
1,2,3-Trichlorobenzene	ug/kg	<15.1	1840	2400	1870	2660	102	111	69-150	35	30	R1	
1,2,3-Trichloropropane	ug/kg	<24.7	1840	2400	1830	2450	100	102	64-150	29	30		
1,2,4-Trichlorobenzene	ug/kg	<21.0	1840	2400	1930	2710	105	113	71-149	34	30	R1	
1,2,4-Trimethylbenzene	ug/kg	<18.9	1840	2400	1870	2560	102	106	67-149	31	30	R1	
1,2-Dibromo-3-chloropropane	ug/kg	<329	4580	6010	4560	6380	100	106	61-150	33	30	R1	
1,2-Dibromoethane (EDB)	ug/kg	<0.26	1840	2400	1840	2580	101	107	67-147	33	30	R1	
1,2-Dichlorobenzene	ug/kg	<3.8	1840	2400	1850	2600	101	108	70-142	34	30	R1	
1,2-Dichloroethane	ug/kg	<10.4	1840	2400	1910	2670	104	111	58-132	33	30	R1	
1,2-Dichloropropane	ug/kg	<16.3	1840	2400	1840	2560	100	106	64-144	33	30	R1	
1,3,5-Trimethylbenzene	ug/kg	<15.1	1840	2400	1930	2650	106	110	71-146	31	30	R1	
1,3-Dichlorobenzene	ug/kg	<3.4	1840	2400	1860	2540	102	105	71-142	31	30	R1	
1,3-Dichloropropane	ug/kg	<13.1	1840	2400	1770	2490	97	103	68-140	34	30	R1	
1,4-Dichlorobenzene	ug/kg	<5.9	1840	2400	1790	2470	98	103	68-142	32	30	R1	
2,2-Dichloropropane	ug/kg	<11.8	1840	2400	2130	2830	116	117	34-150	28	30		
2-Butanone (MEK)	ug/kg	<50.3	9160	12000	8610	11900	94	99	51-150	32	30	R1	
2-Chlorotoluene	ug/kg	<4.6	1840	2400	1830	2420	100	101	66-144	28	30		
4-Chlorotoluene	ug/kg	<4.8	1840	2400	1790	2530	97	105	66-140	34	30	R1	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146277 3146278													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457092045 Result	Spike Conc.	Spike Conc.	Conc.								
4-Methyl-2-pentanone (MIBK)	ug/kg	<19.6	9160	12000	8350	11400	91	95	63-150	31	30	R1	
Acetone	ug/kg	<588	9160	12000	8710	12300	95	102	54-150	34	30	R1	
Allyl chloride	ug/kg	<79.2	1840	2400	1890	2590	103	108	53-135	31	30	R1	
Benzene	ug/kg	<5.3	1840	2400	1950	2700	106	112	65-135	32	30	R1	
Bromobenzene	ug/kg	<5.8	1840	2400	1860	2600	102	108	71-141	33	30	R1	
Bromochloromethane	ug/kg	<32.7	1840	2400	2200	3040	120	126	62-145	32	30	R1	
Bromodichloromethane	ug/kg	<32.3	1840	2400	1900	2680	104	111	59-148	34	30	R1	
Bromoform	ug/kg	<143	1840	2400	1810	2520	99	105	57-145	33	30	R1	
Bromomethane	ug/kg	<111	1840	2400	2120	2750	116	114	51-129	26	30		
Carbon tetrachloride	ug/kg	<45.2	1840	2400	2150	2860	117	119	55-144	28	30		
Chlorobenzene	ug/kg	<5.3	1840	2400	1810	2520	99	105	70-142	33	30	R1	
Chloroethane	ug/kg	<49.1	1840	2400	1650	2250	90	94	61-135	31	30	CH,R1,SS	
Chloroform	ug/kg	<47.2	1840	2400	1880	2630	103	109	58-135	33	30	R1	
Chloromethane	ug/kg	<22.7	1840	2400	1560	2050	85	85	37-125	27	30		
cis-1,2-Dichloroethene	ug/kg	<15.7	1840	2400	2210	3080	121	128	60-138	33	30	R1	
cis-1,3-Dichloropropene	ug/kg	<13.5	1840	2400	1920	2640	105	110	62-142	32	30	R1	
Dibromochloromethane	ug/kg	<11.0	1840	2400	1860	2510	102	104	65-141	30	30		
Dibromomethane	ug/kg	<17.3	1840	2400	1910	2720	104	113	72-150	35	30	R1	
Dichlorodifluoromethane	ug/kg	<30.6	1840	2400	1500	1780	82	74	30-125	17	30		
Dichlorofluoromethane	ug/kg	<131	1840	2400	1910	2590	104	108	62-148	30	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<57.8	1840	2400	1980	2700	108	112	62-135	31	30	R1	
Ethylbenzene	ug/kg	<5.1	1840	2400	1880	2620	103	109	72-138	33	30	R1	
Hexachloro-1,3-butadiene	ug/kg	<23.0	1840	2400	2160	3010	118	125	38-150	33	30	R1	
Isopropylbenzene (Cumene)	ug/kg	<4.2	1840	2400	2140	2970	117	123	75-148	32	30	R1	
Methyl-tert-butyl ether	ug/kg	<11.2	1840	2400	1990	2790	109	116	63-139	33	30	R1	
Methylene Chloride	ug/kg	<178	1840	2400	1900	2760	104	115	58-135	37	30	R1	
n-Butylbenzene	ug/kg	<45.0	1840	2400	2070	2870	113	119	63-150	32	30	R1	
n-Propylbenzene	ug/kg	<5.0	1840	2400	1980	2740	108	114	70-146	32	30	R1	
Naphthalene	ug/kg	<88.4	1840	2400	1820	2530	100	105	63-150	32	30	R1	
p-Isopropyltoluene	ug/kg	<28.7	1840	2400	2030	2800	111	116	72-150	32	30	R1	
sec-Butylbenzene	ug/kg	<18.1	1840	2400	2130	2940	117	122	66-150	32	30	R1	
Styrene	ug/kg	<4.3	1840	2400	1880	2670	103	111	72-146	35	30	R1	
tert-Butylbenzene	ug/kg	<18.1	1840	2400	2050	2820	112	117	71-148	32	30	R1	
Tetrachloroethene	ug/kg	<33.3	1840	2400	2240	3100	122	129	70-150	32	30	R1	
Tetrahydrofuran	ug/kg	<137	18400	24000	18200	26200	99	109	62-150	36	30	R1	
Toluene	ug/kg	<23.0	1840	2400	1820	2510	99	104	65-142	32	30	R1	
trans-1,2-Dichloroethene	ug/kg	<44.2	1840	2400	2270	3090	124	129	55-141	31	30	R1	
trans-1,3-Dichloropropene	ug/kg	<13.1	1840	2400	1930	2610	105	109	57-147	30	30		
Trichloroethene	ug/kg	<14.6	1840	2400	2210	3000	121	125	62-150	30	30		
Trichlorofluoromethane	ug/kg	<165	1840	2400	2720	3510	149	146	51-150	25	30		
Vinyl chloride	ug/kg	<18.6	1840	2400	1680	2190	92	91	45-132	26	30		
Xylene (Total)	ug/kg	<21.9	5490	7210	5910	8140	108	113	75-140	32	30	RS	
1,2-Dichloroethane-d4 (S)	%						104	103	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146277 3146278												
Parameter	Units	10457092045 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
4-Bromofluorobenzene (S)	%.							95	98	75-125		
Toluene-d8 (S)	%.							98	100	75-125		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 580419 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457092047, 10457092048, 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3147578 Matrix: Solid  
Associated Lab Samples: 10457092047, 10457092048, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/12/18 17:27	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/12/18 17:27	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/12/18 17:27	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/12/18 17:27	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/12/18 17:27	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/12/18 17:27	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/12/18 17:27	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/12/18 17:27	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/12/18 17:27	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/12/18 17:27	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/12/18 17:27	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/12/18 17:27	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/12/18 17:27	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/12/18 17:27	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/12/18 17:27	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/12/18 17:27	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/12/18 17:27	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/12/18 17:27	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/12/18 17:27	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/12/18 17:27	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/12/18 17:27	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/12/18 17:27	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/12/18 17:27	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/12/18 17:27	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/12/18 17:27	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/12/18 17:27	
Acetone	ug/kg	<311	1000	311	12/12/18 17:27	
Allyl chloride	ug/kg	<41.9	200	41.9	12/12/18 17:27	
Benzene	ug/kg	4.3J	20.0	2.8	12/12/18 17:27	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/12/18 17:27	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/12/18 17:27	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/12/18 17:27	
Bromoform	ug/kg	<75.7	200	75.7	12/12/18 17:27	
Bromomethane	ug/kg	<58.5	500	58.5	12/12/18 17:27	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/12/18 17:27	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/12/18 17:27	
Chloroethane	ug/kg	<26.0	500	26.0	12/12/18 17:27	
Chloroform	ug/kg	<25.0	50.0	25.0	12/12/18 17:27	
Chloromethane	ug/kg	<12.0	200	12.0	12/12/18 17:27	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/12/18 17:27	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/12/18 17:27	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

METHOD BLANK: 3147578

Matrix: Solid

Associated Lab Samples: 10457092047, 10457092048, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/12/18 17:27	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/12/18 17:27	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/12/18 17:27	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/12/18 17:27	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/12/18 17:27	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/12/18 17:27	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/12/18 17:27	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/12/18 17:27	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/12/18 17:27	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/12/18 17:27	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/12/18 17:27	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/12/18 17:27	
Naphthalene	ug/kg	<46.8	200	46.8	12/12/18 17:27	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/12/18 17:27	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/12/18 17:27	
Styrene	ug/kg	<2.3	50.0	2.3	12/12/18 17:27	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/12/18 17:27	
Tetrachloroethane	ug/kg	<17.6	50.0	17.6	12/12/18 17:27	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/12/18 17:27	
Toluene	ug/kg	12.3J	50.0	12.2	12/12/18 17:27	
trans-1,2-Dichloroethane	ug/kg	<23.4	50.0	23.4	12/12/18 17:27	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/12/18 17:27	
Trichloroethane	ug/kg	<7.7	50.0	7.7	12/12/18 17:27	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/12/18 17:27	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/12/18 17:27	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/12/18 17:27	
1,2-Dichloroethane-d4 (S)	%	109	75-125		12/12/18 17:27	
4-Bromofluorobenzene (S)	%	95	75-125		12/12/18 17:27	
Toluene-d8 (S)	%	99	75-125		12/12/18 17:27	

LABORATORY CONTROL SAMPLE: 3147579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	976	98	59-125	
1,1,1-Trichloroethane	ug/kg	1000	970	97	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	804	80	58-125	
1,1,2-Trichloroethane	ug/kg	1000	889	89	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	1060	106	65-125	
1,1-Dichloroethane	ug/kg	1000	880	88	63-125	
1,1-Dichloroethene	ug/kg	1000	924	92	59-125	
1,1-Dichloropropene	ug/kg	1000	1000	100	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	926	93	55-126	
1,2,3-Trichloropropane	ug/kg	1000	859	86	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	837	84	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3147579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	907	91	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2060	82	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	843	84	64-125	
1,2-Dichlorobenzene	ug/kg	1000	909	91	63-125	
1,2-Dichloroethane	ug/kg	1000	864	86	57-125	
1,2-Dichloropropane	ug/kg	1000	837	84	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	951	95	59-125	
1,3-Dichlorobenzene	ug/kg	1000	963	96	64-125	
1,3-Dichloropropane	ug/kg	1000	777	78	64-125	
1,4-Dichlorobenzene	ug/kg	1000	935	94	63-125	
2,2-Dichloropropane	ug/kg	1000	976	98	37-126	
2-Butanone (MEK)	ug/kg	5000	3720	74	48-125	
2-Chlorotoluene	ug/kg	1000	986	99	62-125	
4-Chlorotoluene	ug/kg	1000	901	90	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4100	82	52-135	
Acetone	ug/kg	5000	4550	91	65-125	
Allyl chloride	ug/kg	1000	846	85	52-125	
Benzene	ug/kg	1000	806	81	61-125	
Bromobenzene	ug/kg	1000	918	92	64-125	
Bromochloromethane	ug/kg	1000	852	85	65-125	
Bromodichloromethane	ug/kg	1000	921	92	57-125	
Bromoform	ug/kg	1000	872	87	57-125	
Bromomethane	ug/kg	1000	1100	110	60-125	
Carbon tetrachloride	ug/kg	1000	1040	104	58-125	
Chlorobenzene	ug/kg	1000	881	88	66-125	
Chloroethane	ug/kg	1000	1270	127	62-125	L3
Chloroform	ug/kg	1000	871	87	59-125	
Chloromethane	ug/kg	1000	845	85	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	866	87	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	865	86	61-125	
Dibromochloromethane	ug/kg	1000	944	94	60-125	
Dibromomethane	ug/kg	1000	923	92	69-125	
Dichlorodifluoromethane	ug/kg	1000	901	90	38-125	
Dichlorofluoromethane	ug/kg	1000	1090	109	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	849	85	60-125	
Ethylbenzene	ug/kg	1000	908	91	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1040	104	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	1060	106	65-125	
Methyl-tert-butyl ether	ug/kg	1000	842	84	59-125	
Methylene Chloride	ug/kg	1000	761	76	64-125	
n-Butylbenzene	ug/kg	1000	1060	106	59-125	
n-Propylbenzene	ug/kg	1000	1050	105	61-125	
Naphthalene	ug/kg	1000	831	83	53-125	
p-Isopropyltoluene	ug/kg	1000	1030	103	63-125	
sec-Butylbenzene	ug/kg	1000	1060	106	62-125	
Styrene	ug/kg	1000	915	91	66-125	
tert-Butylbenzene	ug/kg	1000	1050	105	64-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3147579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	1080	108	67-125	
Tetrahydrofuran	ug/kg	10000	8290	83	62-125	
Toluene	ug/kg	1000	874	87	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	957	96	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	931	93	56-125	
Trichloroethene	ug/kg	1000	973	97	67-125	
Trichlorofluoromethane	ug/kg	1000	1500	150	65-125	CH,L3
Vinyl chloride	ug/kg	1000	969	97	57-125	
Xylene (Total)	ug/kg	3000	2740	91	62-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147580 3147581

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457188023 Result	Spike Conc.	Spike Conc.	Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1220	1200	1500	1460	122	121	64-146	3	30
1,1,1-Trichloroethane	ug/kg	ND	1220	1200	1600	1510	130	126	56-148	6	30
1,1,2,2-Tetrachloroethane	ug/kg	ND	1220	1200	1280	1210	104	101	36-150	5	30
1,1,2-Trichloroethane	ug/kg	ND	1220	1200	1360	1340	111	112	67-148	1	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1220	1200	1580	1550	128	129	60-142	2	30
1,1-Dichloroethane	ug/kg	ND	1220	1200	1390	1440	113	120	57-140	3	30
1,1-Dichloroethene	ug/kg	ND	1220	1200	1510	1440	123	120	59-139	5	30
1,1-Dichloropropene	ug/kg	ND	1220	1200	1690	1690	137	141	61-142	0	30
1,2,3-Trichlorobenzene	ug/kg	ND	1220	1200	1380	1420	112	118	69-150	3	30
1,2,3-Trichloropropane	ug/kg	ND	1220	1200	1420	1380	115	115	64-150	3	30
1,2,4-Trichlorobenzene	ug/kg	ND	1220	1200	1300	1300	106	109	71-149	0	30
1,2,4-Trimethylbenzene	ug/kg	110	1220	1200	1490	1450	112	112	67-149	2	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	3070	3000	3620	3530	118	118	61-150	3	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1220	1200	1380	1310	112	109	67-147	5	30
1,2-Dichlorobenzene	ug/kg	ND	1220	1200	1340	1350	109	113	70-142	1	30
1,2-Dichloroethane	ug/kg	ND	1220	1200	1360	1310	111	109	58-132	4	30
1,2-Dichloropropane	ug/kg	ND	1220	1200	1270	1300	103	108	64-144	2	30
1,3,5-Trimethylbenzene	ug/kg	71.0	1220	1200	1440	1470	112	117	71-146	2	30
1,3-Dichlorobenzene	ug/kg	ND	1220	1200	1470	1410	120	117	71-142	4	30
1,3-Dichloropropane	ug/kg	ND	1220	1200	1270	1230	104	102	68-140	4	30
1,4-Dichlorobenzene	ug/kg	ND	1220	1200	1370	1380	111	114	68-142	0	30
2,2-Dichloropropane	ug/kg	ND	1220	1200	1540	1520	125	126	34-150	1	30
2-Butanone (MEK)	ug/kg	ND	6150	6010	6490	6260	106	104	51-150	4	30
2-Chlorotoluene	ug/kg	ND	1220	1200	1470	1450	119	120	66-144	1	30
4-Chlorotoluene	ug/kg	ND	1220	1200	1420	1460	116	122	66-140	3	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	6150	6010	6890	6670	112	111	63-150	3	30

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147580 3147581												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10457188023	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Acetone	ug/kg	ND	6150	6010	6900	6910	112	115	54-150	0	30	
Allyl chloride	ug/kg	ND	1220	1200	1390	1350	113	113	53-135	3	30	
Benzene	ug/kg	ND	1220	1200	1350	1290	108	105	65-135	5	30	
Bromobenzene	ug/kg	ND	1220	1200	1340	1350	109	112	71-141	0	30	
Bromochloromethane	ug/kg	ND	1220	1200	1350	1250	109	104	62-145	7	30	
Bromodichloromethane	ug/kg	ND	1220	1200	1440	1400	117	117	59-148	3	30	
Bromoform	ug/kg	ND	1220	1200	1370	1350	111	113	57-145	1	30	
Bromomethane	ug/kg	ND	1220	1200	1200	1400	98	117	51-129	15	30	
Carbon tetrachloride	ug/kg	ND	1220	1200	1660	1570	135	131	55-144	5	30	
Chlorobenzene	ug/kg	ND	1220	1200	1400	1340	114	112	70-142	4	30	
Chloroethane	ug/kg	ND	1220	1200	1400	1590	114	132	61-135	12	30	
Chloroform	ug/kg	ND	1220	1200	1420	1330	115	111	58-135	7	30	
Chloromethane	ug/kg	ND	1220	1200	895	1130	73	94	37-125	23	30	
cis-1,2-Dichloroethene	ug/kg	ND	1220	1200	1450	1320	118	110	60-138	9	30	
cis-1,3-Dichloropropene	ug/kg	ND	1220	1200	1290	1280	105	107	62-142	1	30	
Dibromochloromethane	ug/kg	ND	1220	1200	1450	1410	118	117	65-141	3	30	
Dibromomethane	ug/kg	ND	1220	1200	1440	1410	117	117	72-150	2	30	
Dichlorodifluoromethane	ug/kg	ND	1220	1200	791	1010	64	84	30-125	24	30	
Dichlorofluoromethane	ug/kg	ND	1220	1200	1410	1570	115	131	62-148	11	30	N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1220	1200	1440	1360	117	114	62-135	5	30	
Ethylbenzene	ug/kg	ND	1220	1200	1420	1390	113	114	72-138	2	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1220	1200	1480	1430	121	119	38-150	4	30	
Isopropylbenzene (Cumene)	ug/kg	ND	1220	1200	1600	1640	129	135	75-148	2	30	
Methyl-tert-butyl ether	ug/kg	ND	1220	1200	1380	1290	112	108	63-139	6	30	
Methylene Chloride	ug/kg	ND	1220	1200	1250	1170	98	93	58-135	7	30	
n-Butylbenzene	ug/kg	ND	1220	1200	1560	1520	125	125	63-150	3	30	
n-Propylbenzene	ug/kg	ND	1220	1200	1630	1620	130	133	70-146	0	30	
Naphthalene	ug/kg	ND	1220	1200	1500	1520	104	108	63-150	1	30	
p-Isopropyltoluene	ug/kg	ND	1220	1200	1560	1560	125	128	72-150	0	30	
sec-Butylbenzene	ug/kg	ND	1220	1200	1560	1570	125	129	66-150	1	30	
Styrene	ug/kg	ND	1220	1200	1380	1380	112	115	72-146	0	30	
tert-Butylbenzene	ug/kg	ND	1220	1200	1570	1570	128	130	71-148	0	30	
Tetrachloroethene	ug/kg	ND	1220	1200	1670	1640	136	137	70-150	2	30	
Tetrahydrofuran	ug/kg	ND	12200	12000	13300	12600	108	105	62-150	5	30	
Toluene	ug/kg	75.8	1220	1200	1410	1430	108	113	65-142	2	30	
trans-1,2-Dichloroethene	ug/kg	ND	1220	1200	1410	1400	115	117	55-141	1	30	
trans-1,3-Dichloropropene	ug/kg	ND	1220	1200	1450	1360	118	113	57-147	6	30	
Trichloroethene	ug/kg	ND	1220	1200	1490	1470	121	122	62-150	2	30	
Trichlorofluoromethane	ug/kg	ND	1220	1200	1500	1780	105	131	51-150	18	30	CH
Vinyl chloride	ug/kg	ND	1220	1200	1000	1280	81	107	45-132	25	30	
Xylene (Total)	ug/kg	ND	3690	3600	4320	4360	115	119	75-140	1	30	
1,2-Dichloroethane-d4 (S)	%						105	104	75-125			
4-Bromofluorobenzene (S)	%						101	99	75-125			
Toluene-d8 (S)	%						98	98	75-125			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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QC Batch: 578577 Analysis Method: EPA 8082A  
 QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
 Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014

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METHOD BLANK: 3138293 Matrix: Solid  
 Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/05/18 15:36	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/05/18 15:36	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/05/18 15:36	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/05/18 15:36	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/05/18 15:36	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/05/18 15:36	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/05/18 15:36	
Decachlorobiphenyl (S)	%	110	30-134		12/05/18 15:36	
Tetrachloro-m-xylene (S)	%	91	48-125		12/05/18 15:36	

LABORATORY CONTROL SAMPLE: 3138294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	564	85	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	576	86	62-125	
Decachlorobiphenyl (S)	%			108	30-134	
Tetrachloro-m-xylene (S)	%			90	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138626 3138627

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457188016 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	746	748	581	601	78	80	30-150	3	30
PCB-1260 (Aroclor 1260)	ug/kg	ND	746	748	545	567	73	76	30-138	4	30
Decachlorobiphenyl (S)	%						75	92	30-134		
Tetrachloro-m-xylene (S)	%						63	73	48-125		

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578586 Analysis Method: EPA 8082A  
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
Associated Lab Samples: 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034

METHOD BLANK: 3138325 Matrix: Solid  
Associated Lab Samples: 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020, 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/11/18 09:13	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/11/18 09:13	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/11/18 09:13	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/11/18 09:13	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/11/18 09:13	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/11/18 09:13	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/11/18 09:13	
Decachlorobiphenyl (S)	%	95	30-134		12/11/18 09:13	
Tetrachloro-m-xylene (S)	%	103	48-125		12/11/18 09:13	

LABORATORY CONTROL SAMPLE: 3138326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	633	95	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	639	96	62-125	
Decachlorobiphenyl (S)	%			95	30-134	
Tetrachloro-m-xylene (S)	%			101	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138327 3138328

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092016 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<12.9	938	938	837	785	89	84	30-150	6	30
PCB-1260 (Aroclor 1260)	ug/kg	<11.1	938	938	848	812	90	87	30-138	4	30
Decachlorobiphenyl (S)	%						81	81	30-134		
Tetrachloro-m-xylene (S)	%						89	86	48-125		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 578742 Analysis Method: EPA 8082A  
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
Associated Lab Samples: 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3138967 Matrix: Solid  
Associated Lab Samples: 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/06/18 03:42	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/06/18 03:42	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/06/18 03:42	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/06/18 03:42	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/06/18 03:42	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/06/18 03:42	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/06/18 03:42	
Decachlorobiphenyl (S)	%	102	30-134		12/06/18 03:42	
Tetrachloro-m-xylene (S)	%	84	48-125		12/06/18 03:42	

LABORATORY CONTROL SAMPLE: 3138968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	502	75	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	507	76	62-125	
Decachlorobiphenyl (S)	%			103	30-134	
Tetrachloro-m-xylene (S)	%			84	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138969 3138970

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		12119354001 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	753	752	549	660	73	88	30-150	18	30
PCB-1260 (Aroclor 1260)	ug/kg	ND	753	752	569	580	76	77	30-138	2	30
Decachlorobiphenyl (S)	%						90	97	30-134		
Tetrachloro-m-xylene (S)	%						75	79	48-125		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 586957 Analysis Method: EPA 8082A  
QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
Associated Lab Samples: 10457092049, 10457092050, 10457092051, 10457092052

METHOD BLANK: 3177235 Matrix: Solid  
Associated Lab Samples: 10457092049, 10457092050, 10457092051, 10457092052

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	01/24/19 15:17	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	01/24/19 15:17	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	01/24/19 15:17	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	01/24/19 15:17	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	01/24/19 15:17	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	01/24/19 15:17	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	01/24/19 15:17	
Decachlorobiphenyl (S)	%	90	49-125		01/24/19 15:17	
Tetrachloro-m-xylene (S)	%	92	57-125		01/24/19 15:17	

LABORATORY CONTROL SAMPLE: 3177236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	584	88	69-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	578	87	63-125	
Decachlorobiphenyl (S)	%			89	49-125	
Tetrachloro-m-xylene (S)	%			92	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177601 3177602

Parameter	Units	10462269001		3177601		3177602		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec						
PCB-1016 (Aroclor 1016)	ug/kg	ND	663	666	564	587	85	88	56-125	4	30		
PCB-1260 (Aroclor 1260)	ug/kg	ND	663	666	569	589	86	88	45-125	3	30		
Decachlorobiphenyl (S)	%						88	88	49-125				
Tetrachloro-m-xylene (S)	%						86	85	57-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

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QC Batch: 578826 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028

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METHOD BLANK: 3139324 Matrix: Solid  
 Associated Lab Samples: 10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/05/18 10:18	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/05/18 10:18	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/05/18 10:18	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/05/18 10:18	
Anthracene	ug/kg	<0.47	10.0	0.47	12/05/18 10:18	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/05/18 10:18	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/05/18 10:18	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/05/18 10:18	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/05/18 10:18	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/05/18 10:18	
Chrysene	ug/kg	<1.4	10.0	1.4	12/05/18 10:18	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/05/18 10:18	
Fluoranthene	ug/kg	0.49J	10.0	0.43	12/05/18 10:18	
Fluorene	ug/kg	<0.31	10.0	0.31	12/05/18 10:18	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/05/18 10:18	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/05/18 10:18	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/05/18 10:18	
Pyrene	ug/kg	<1.5	10.0	1.5	12/05/18 10:18	
2-Fluorobiphenyl (S)	%	71	42-125		12/05/18 10:18	
p-Terphenyl-d14 (S)	%	79	57-125		12/05/18 10:18	

LABORATORY CONTROL SAMPLE: 3139325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	22.3	67	41-125	
2-Methylnaphthalene	ug/kg	33.3	22.5	67	40-125	
Acenaphthene	ug/kg	33.3	24.2	73	52-125	
Acenaphthylene	ug/kg	33.3	22.9	69	50-125	
Anthracene	ug/kg	33.3	23.8	71	65-125	
Benzo(a)anthracene	ug/kg	33.3	24.5	73	60-125	
Benzo(a)pyrene	ug/kg	33.3	25.6	77	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	27.7	83	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	28.5	85	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	25.7	77	67-125	
Chrysene	ug/kg	33.3	25.7	77	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.6	83	63-125	
Fluoranthene	ug/kg	33.3	24.1	72	75-125 L2	
Fluorene	ug/kg	33.3	24.7	74	54-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3139325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	27.9	84	63-125	
Naphthalene	ug/kg	33.3	21.9	66	49-125	
Phenanthrene	ug/kg	33.3	23.7	71	65-125	
Pyrene	ug/kg	33.3	24.8	74	64-125	
2-Fluorobiphenyl (S)	%			77	42-125	
p-Terphenyl-d14 (S)	%			83	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3139758 3139759

Parameter	Units	3139758		3139759		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	ND	36.2	36.3	25.5	22.6	70	62	33-125	12	30	
2-Methylnaphthalene	ug/kg	ND	36.2	36.3	23.7	22.0	66	61	30-125	8	30	
Acenaphthene	ug/kg	ND	36.2	36.3	27.5	25.2	76	70	30-125	9	30	
Acenaphthylene	ug/kg	ND	36.2	36.3	23.8	23.0	66	64	30-133	3	30	
Anthracene	ug/kg	ND	36.2	36.3	33.4	33.1	92	91	30-150	1	30	
Benzo(a)anthracene	ug/kg	ND	36.2	36.3	29.0	29.4	78	79	30-150	1	30	
Benzo(a)pyrene	ug/kg	ND	36.2	36.3	32.6	33.6	90	93	30-150	3	30	
Benzo(b)fluoranthene	ug/kg	ND	36.2	36.3	33.6	30.7	91	83	30-150	9	30	
Benzo(g,h,i)perylene	ug/kg	ND	36.2	36.3	33.5	32.5	92	89	30-150	3	30	
Benzo(k)fluoranthene	ug/kg	ND	36.2	36.3	29.9	36.8	81	100	30-150	21	30	
Chrysene	ug/kg	ND	36.2	36.3	30.4	32.8	82	89	30-150	8	30	
Dibenz(a,h)anthracene	ug/kg	ND	36.2	36.3	30.3	29.6	84	82	30-131	2	30	
Fluoranthene	ug/kg	ND	36.2	36.3	30.4	32.5	82	87	30-150	7	30	
Fluorene	ug/kg	ND	36.2	36.3	28.8	25.6	79	71	30-147	12	30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	36.2	36.3	32.0	31.1	88	86	30-150	3	30	
Naphthalene	ug/kg	ND	36.2	36.3	24.2	20.2	67	56	30-131	18	30	
Phenanthrene	ug/kg	ND	36.2	36.3	28.9	28.9	77	77	30-150	0	30	
Pyrene	ug/kg	ND	36.2	36.3	30.0	29.2	81	79	30-150	3	30	
2-Fluorobiphenyl (S)	%						69	59	42-125			
p-Terphenyl-d14 (S)	%						78	74	57-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

QC Batch: 579246 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048

METHOD BLANK: 3141997 Matrix: Solid  
Associated Lab Samples: 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040, 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/12/18 10:13	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/12/18 10:13	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/12/18 10:13	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/12/18 10:13	
Anthracene	ug/kg	<0.47	10.0	0.47	12/12/18 10:13	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/12/18 10:13	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/12/18 10:13	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/12/18 10:13	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/12/18 10:13	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/12/18 10:13	
Chrysene	ug/kg	<1.4	10.0	1.4	12/12/18 10:13	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/12/18 10:13	
Fluoranthene	ug/kg	<0.43	10.0	0.43	12/12/18 10:13	
Fluorene	ug/kg	<0.31	10.0	0.31	12/12/18 10:13	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/12/18 10:13	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/12/18 10:13	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/12/18 10:13	
Pyrene	ug/kg	<1.5	10.0	1.5	12/12/18 10:13	
2-Fluorobiphenyl (S)	%	61	42-125		12/12/18 10:13	
p-Terphenyl-d14 (S)	%	73	57-125		12/12/18 10:13	

LABORATORY CONTROL SAMPLE: 3141998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	25.8	77	41-125	
2-Methylnaphthalene	ug/kg	33.3	24.9	75	40-125	
Acenaphthene	ug/kg	33.3	23.2	70	52-125	
Acenaphthylene	ug/kg	33.3	23.5	71	50-125	
Anthracene	ug/kg	33.3	25.6	77	65-125	
Benzo(a)anthracene	ug/kg	33.3	21.3	64	60-125	
Benzo(a)pyrene	ug/kg	33.3	24.6	74	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	24.5	74	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.3	82	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	27.5	83	67-125	
Chrysene	ug/kg	33.3	24.2	73	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.8	83	63-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3141998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	33.3	24.9	75	75-125	
Fluorene	ug/kg	33.3	25.2	75	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	27.8	83	63-125	
Naphthalene	ug/kg	33.3	24.0	72	49-125	
Phenanthrene	ug/kg	33.3	24.1	72	65-125	
Pyrene	ug/kg	33.3	23.7	71	64-125	
2-Fluorobiphenyl (S)	%			81	42-125	
p-Terphenyl-d14 (S)	%			77	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141999 3142000

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10458586001 Result	Spike Conc.	Spike Conc.	MS Result								
1-Methylnaphthalene	ug/kg	ND	33.1	33.2	23.1	23.4	70	71	33-125	2	30		
2-Methylnaphthalene	ug/kg	ND	33.1	33.2	22.3	22.2	67	67	30-125	0	30		
Acenaphthene	ug/kg	ND	33.1	33.2	31.8	20.9	96	63	30-125	41	30	R1	
Acenaphthylene	ug/kg	ND	33.1	33.2	21.1	22.4	64	67	30-133	6	30		
Anthracene	ug/kg	ND	33.1	33.2	55.4	26.9	167	81	30-150	69	30	M1,R1	
Benzo(a)anthracene	ug/kg	11.8	33.1	33.2	88.3	45.7	231	102	30-150	64	30	M1,R1	
Benzo(a)pyrene	ug/kg	14.1	33.1	33.2	71.9	46.1	174	96	30-150	44	30	M1,R1	
Benzo(b)fluoranthene	ug/kg	29.5	33.1	33.2	112	62.9	249	101	30-150	56	30	M1,R1	
Benzo(g,h,i)perylene	ug/kg	29.2	33.1	33.2	70.6	54.1	125	75	30-150	26	30		
Benzo(k)fluoranthene	ug/kg	ND	33.1	33.2	59.2	40.3	179	121	30-150	38	30	M1,R1	
Chrysene	ug/kg	14.0	33.1	33.2	86.4	47.0	219	100	30-150	59	30	M1,R1	
Dibenz(a,h)anthracene	ug/kg	ND	33.1	33.2	44.6	32.4	135	98	30-131	32	30	M1,R1	
Fluoranthene	ug/kg	18.8	33.1	33.2	178	64.8	479	139	30-150	93	30	M1,R1	
Fluorene	ug/kg	ND	33.1	33.2	36.0	23.3	109	70	30-147	43	30	R1	
Indeno(1,2,3-cd)pyrene	ug/kg	20.5	33.1	33.2	68.3	45.5	144	75	30-150	40	30	R1	
Naphthalene	ug/kg	ND	33.1	33.2	29.5	20.2	89	61	30-131	38	30	R1	
Phenanthrene	ug/kg	ND	33.1	33.2	142	35.5	430	107	30-150	120	30	M1,R1	
Pyrene	ug/kg	18.9	33.1	33.2	135	61.4	352	128	30-150	75	30	M1,R1	
2-Fluorobiphenyl (S)	%						66	74	42-125				
p-Terphenyl-d14 (S)	%						62	65	57-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 579251 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10457092049, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3142005 Matrix: Solid  
 Associated Lab Samples: 10457092049, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/07/18 11:50	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/07/18 11:50	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/07/18 11:50	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/07/18 11:50	
Anthracene	ug/kg	<0.47	10.0	0.47	12/07/18 11:50	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/07/18 11:50	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/07/18 11:50	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/07/18 11:50	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/07/18 11:50	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/07/18 11:50	
Chrysene	ug/kg	<1.4	10.0	1.4	12/07/18 11:50	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/07/18 11:50	
Fluoranthene	ug/kg	<0.43	10.0	0.43	12/07/18 11:50	
Fluorene	ug/kg	<0.31	10.0	0.31	12/07/18 11:50	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/07/18 11:50	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/07/18 11:50	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/07/18 11:50	
Pyrene	ug/kg	<1.5	10.0	1.5	12/07/18 11:50	
2-Fluorobiphenyl (S)	%	80	42-125		12/07/18 11:50	
p-Terphenyl-d14 (S)	%	79	57-125		12/07/18 11:50	

LABORATORY CONTROL SAMPLE: 3142006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	19.9	60	41-125	
2-Methylnaphthalene	ug/kg	33.3	19.6	59	40-125	
Acenaphthene	ug/kg	33.3	19.9	60	52-125	
Acenaphthylene	ug/kg	33.3	19.7	59	50-125	
Anthracene	ug/kg	33.3	27.2	82	65-125	
Benzo(a)anthracene	ug/kg	33.3	24.0	72	60-125	
Benzo(a)pyrene	ug/kg	33.3	26.7	80	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	34.6	104	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	32.6	98	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	30.2	91	67-125	
Chrysene	ug/kg	33.3	26.8	80	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	34.0	102	63-125	
Fluoranthene	ug/kg	33.3	27.2	82	75-125	
Fluorene	ug/kg	33.3	22.9	69	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	33.5	101	63-125	
Naphthalene	ug/kg	33.3	18.5	55	49-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3142006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	25.0	75	65-125	
Pyrene	ug/kg	33.3	25.3	76	64-125	
2-Fluorobiphenyl (S)	%			64	42-125	
p-Terphenyl-d14 (S)	%			83	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142007 3142008

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092049 Result	Spike Conc.	Spike Conc.	MS Result								
1-Methylnaphthalene	ug/kg	3.4J	42.5	42.5	30.0	25.9	62	53	33-125	15	30		
2-Methylnaphthalene	ug/kg	1.6J	42.5	42.5	30.1	24.2	67	53	30-125	22	30		
Acenaphthene	ug/kg	13.8	42.5	42.5	32.2	25.0	43	26	30-125	25	30	M1	
Acenaphthylene	ug/kg	56.6	42.5	42.5	29.8	25.4	-63	-73	30-133	16	30	M1	
Anthracene	ug/kg	137	42.5	42.5	86.6	29.9	-119	-253	30-150	97	30	M1,R1	
Benzo(a)anthracene	ug/kg	273	42.5	42.5	249	30.4	-56	-570	30-150	156	30	M1,R1	
Benzo(a)pyrene	ug/kg	278	42.5	42.5	168	36.8	-257	-566	30-150	128	30	M1,R1	
Benzo(b)fluoranthene	ug/kg	325	42.5	42.5	230	42.7	-222	-663	30-150	137	30	M1,R1	
Benzo(g,h,i)perylene	ug/kg	194	42.5	42.5	124	36.4	-163	-371	30-150	109	30	M1,R1	
Benzo(k)fluoranthene	ug/kg	92.1	42.5	42.5	109	28.3	39	-150	30-150	117	30	M1,R1	
Chrysene	ug/kg	241	42.5	42.5	217	32.9	-58	-490	30-150	147	30	M1,R1	
Dibenz(a,h)anthracene	ug/kg	40.5	42.5	42.5	60.0	30.8	46	-23	30-131	64	30	M1,R1	
Fluoranthene	ug/kg	584	42.5	42.5	444	34.9	-330	-1290	30-150	171	30	E,M1,R1	
Fluorene	ug/kg	31.9	42.5	42.5	34.4	26.9	6	-12	30-147	24	30	M1	
Indeno(1,2,3-cd)pyrene	ug/kg	160	42.5	42.5	114	34.6	-107	-295	30-150	107	30	M1,R1	
Naphthalene	ug/kg	4.1J	42.5	42.5	29.6	23.1	60	44	30-131	25	30		
Phenanthrene	ug/kg	428	42.5	42.5	150	30.3	-653	-936	30-150	133	30	M1,R1	
Pyrene	ug/kg	583	42.5	42.5	365	34.3	-511	-1290	30-150	166	30	M1,R1	
2-Fluorobiphenyl (S)	%						72	61	42-125				
p-Terphenyl-d14 (S)	%						78	64	57-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 579831 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007,  
 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014,  
 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

METHOD BLANK: 3145192

Matrix: Solid

Associated Lab Samples: 10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007,  
 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014,  
 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/11/18 16:24	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/11/18 16:24	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/11/18 16:24	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/11/18 16:24	
Anthracene	ug/kg	0.59J	10.0	0.47	12/11/18 16:24	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/11/18 16:24	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/11/18 16:24	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/11/18 16:24	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/11/18 16:24	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/11/18 16:24	
Chrysene	ug/kg	<1.4	10.0	1.4	12/11/18 16:24	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/11/18 16:24	
Fluoranthene	ug/kg	1.8J	10.0	0.43	12/11/18 16:24	
Fluorene	ug/kg	<0.31	10.0	0.31	12/11/18 16:24	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/11/18 16:24	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/11/18 16:24	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/11/18 16:24	
Pyrene	ug/kg	1.5J	10.0	1.5	12/11/18 16:24	
2-Fluorobiphenyl (S)	%	42	42-125		12/11/18 16:24	
p-Terphenyl-d14 (S)	%	64	57-125		12/11/18 16:24	

LABORATORY CONTROL SAMPLE: 3145193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	21.6	65	41-125	
2-Methylnaphthalene	ug/kg	33.3	21.4	64	40-125	
Acenaphthene	ug/kg	33.3	21.0	63	52-125	
Acenaphthylene	ug/kg	33.3	19.6	59	50-125	
Anthracene	ug/kg	33.3	24.1	72	65-125	
Benzo(a)anthracene	ug/kg	33.3	22.9	69	60-125	
Benzo(a)pyrene	ug/kg	33.3	24.8	75	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	23.8	71	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	24.5	73	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	25.5	76	67-125	
Chrysene	ug/kg	33.3	24.0	72	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	23.8	71	63-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3145193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/kg	33.3	22.7	68	75-125	L2
Fluorene	ug/kg	33.3	20.7	62	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	24.3	73	63-125	
Naphthalene	ug/kg	33.3	20.2	61	49-125	
Phenanthrene	ug/kg	33.3	21.7	65	65-125	
Pyrene	ug/kg	33.3	23.1	69	64-125	
2-Fluorobiphenyl (S)	%			68	42-125	
p-Terphenyl-d14 (S)	%			78	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145194 3145195

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092001 Result	Spike Conc.	Spike Conc.	MS Result								
1-Methylnaphthalene	ug/kg	6.3J	39	39.2	31.3	33.7	64	70	33-125	7	30		
2-Methylnaphthalene	ug/kg	4.4J	39	39.2	25.8	31.3	55	69	30-125	19	30		
Acenaphthene	ug/kg	3.2J	39	39.2	27.0	29.6	61	67	30-125	9	30		
Acenaphthylene	ug/kg	45.3	39	39.2	36.5	86.3	-23	105	30-133	81	30	M1,R1	
Anthracene	ug/kg	43.0	39	39.2	36.4	98.4	-17	142	30-150	92	30	M1,R1	
Benzo(a)anthracene	ug/kg	147	39	39.2	73.7	267	-189	304	30-150	113	30	M1,R1	
Benzo(a)pyrene	ug/kg	122	39	39.2	79.6	227	-107	268	30-150	96	30	M1,R1	
Benzo(b)fluoranthene	ug/kg	175	39	39.2	108	303	-170	327	30-150	95	30	M1,R1	
Benzo(g,h,i)perylene	ug/kg	72.4	39	39.2	75.8	140	9	174	30-150	60	30	M1,R1	
Benzo(k)fluoranthene	ug/kg	66.4	39	39.2	53.0	129	-34	161	30-150	84	30	M1,R1	
Chrysene	ug/kg	161	39	39.2	81.3	257	-205	245	30-150	104	30	M1,R1	
Dibenz(a,h)anthracene	ug/kg	26.3	39	39.2	40.3	68.1	36	107	30-131	51	30	R1	
Fluoranthene	ug/kg	259	39	39.2	92.9	402	-426	363	30-150	125	30	E,M0,R1	
Fluorene	ug/kg	18.1	39	39.2	26.3	47.2	21	74	30-147	57	30	M1,R1	
Indeno(1,2,3-cd)pyrene	ug/kg	62.6	39	39.2	65.0	127	6	163	30-150	64	30	M1,R1	
Naphthalene	ug/kg	3.3J	39	39.2	25.5	23.9	57	53	30-131	7	30		
Phenanthrene	ug/kg	123	39	39.2	53.4	247	-179	315	30-150	129	30	M1,R1	
Pyrene	ug/kg	235	39	39.2	95.6	377	-357	363	30-150	119	30	M1,R1	
2-Fluorobiphenyl (S)	%						65	65	42-125				
p-Terphenyl-d14 (S)	%						69	69	57-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 579929

Analysis Method: EPA 8270D by SIM

QC Batch Method: EPA 3550

Analysis Description: 8270D Solid PAH by SIM MSSV

Associated Lab Samples: 10457092050

METHOD BLANK: 3145565

Matrix: Solid

Associated Lab Samples: 10457092050

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/11/18 11:31	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/11/18 11:31	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/11/18 11:31	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/11/18 11:31	
Anthracene	ug/kg	<0.47	10.0	0.47	12/11/18 11:31	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/11/18 11:31	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/11/18 11:31	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/11/18 11:31	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/11/18 11:31	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/11/18 11:31	
Chrysene	ug/kg	<1.4	10.0	1.4	12/11/18 11:31	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/11/18 11:31	
Fluoranthene	ug/kg	<0.43	10.0	0.43	12/11/18 11:31	
Fluorene	ug/kg	<0.31	10.0	0.31	12/11/18 11:31	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/11/18 11:31	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/11/18 11:31	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/11/18 11:31	
Pyrene	ug/kg	<1.5	10.0	1.5	12/11/18 11:31	
2-Fluorobiphenyl (S)	%	57	42-125		12/11/18 11:31	
p-Terphenyl-d14 (S)	%	75	57-125		12/11/18 11:31	

LABORATORY CONTROL SAMPLE: 3145566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	21.9	66	41-125	
2-Methylnaphthalene	ug/kg	33.3	21.4	64	40-125	
Acenaphthene	ug/kg	33.3	20.9	63	52-125	
Acenaphthylene	ug/kg	33.3	20.8	62	50-125	
Anthracene	ug/kg	33.3	25.8	77	65-125	
Benzo(a)anthracene	ug/kg	33.3	23.2	70	60-125	
Benzo(a)pyrene	ug/kg	33.3	26.9	81	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	25.3	76	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.7	83	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	27.6	83	67-125	
Chrysene	ug/kg	33.3	26.4	79	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	28.2	85	63-125	
Fluoranthene	ug/kg	33.3	25.9	78	75-125	
Fluorene	ug/kg	33.3	22.5	67	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	28.2	85	63-125	
Naphthalene	ug/kg	33.3	20.2	61	49-125	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3145566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	23.7	71	65-125	
Pyrene	ug/kg	33.3	24.8	75	64-125	
2-Fluorobiphenyl (S)	%			70	42-125	
p-Terphenyl-d14 (S)	%			74	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145659 3145660

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		12119381003 Result	Spike Conc.	Spike Conc.	MS Conc.								
1-Methylnaphthalene	ug/kg	ND	38.7	38.7	36.7	37.6	95	97	33-125	2	30		
2-Methylnaphthalene	ug/kg	ND	38.7	38.7	41.7	45.2	107	117	30-125	8	30		
Acenaphthene	ug/kg	ND	38.7	38.7	30.6	32.0	79	83	30-125	5	30		
Acenaphthylene	ug/kg	ND	38.7	38.7	40.5	43.9	104	113	30-133	8	30		
Anthracene	ug/kg	12.5	38.7	38.7	50.0	51.3	97	100	30-150	2	30		
Benzo(a)anthracene	ug/kg	26.6	38.7	38.7	73.8	66.6	122	104	30-150	10	30		
Benzo(a)pyrene	ug/kg	34.6	38.7	38.7	81.8	80.6	122	119	30-150	2	30		
Benzo(b)fluoranthene	ug/kg	73.4	38.7	38.7	140	138	172	167	30-150	1	30	M1	
Benzo(g,h,i)perylene	ug/kg	32.9	38.7	38.7	79.6	79.3	120	120	30-150	0	30		
Benzo(k)fluoranthene	ug/kg	22.3	38.7	38.7	64.7	62.3	109	103	30-150	4	30		
Chrysene	ug/kg	35.1	38.7	38.7	84.8	77.6	128	110	30-150	9	30		
Dibenz(a,h)anthracene	ug/kg	13.4	38.7	38.7	49.1	49.1	92	92	30-131	0	30		
Fluoranthene	ug/kg	44.5	38.7	38.7	107	99.4	160	142	30-150	7	30	M1	
Fluorene	ug/kg	ND	38.7	38.7	32.3	33.2	83	86	30-147	3	30		
Indeno(1,2,3-cd)pyrene	ug/kg	31.6	38.7	38.7	76.5	74.5	116	111	30-150	3	30		
Naphthalene	ug/kg	ND	38.7	38.7	22.3	33.3	58	86	30-131	39	30	R1	
Phenanthrene	ug/kg	29.1	38.7	38.7	69.4	78.2	104	127	30-150	12	30		
Pyrene	ug/kg	42.4	38.7	38.7	96.2	86.3	139	113	30-150	11	30		
2-Fluorobiphenyl (S)	%						69	69	42-125				
p-Terphenyl-d14 (S)	%						72	63	57-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch: 580498 Analysis Method: EPA 8270D by SIM  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
Associated Lab Samples: 10457092029

METHOD BLANK: 3147863 Matrix: Solid  
Associated Lab Samples: 10457092029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/13/18 12:43	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/13/18 12:43	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/13/18 12:43	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/13/18 12:43	
Anthracene	ug/kg	<0.47	10.0	0.47	12/13/18 12:43	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/13/18 12:43	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/13/18 12:43	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/13/18 12:43	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/13/18 12:43	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/13/18 12:43	
Chrysene	ug/kg	<1.4	10.0	1.4	12/13/18 12:43	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/13/18 12:43	
Fluoranthene	ug/kg	0.88J	10.0	0.43	12/13/18 12:43	
Fluorene	ug/kg	<0.31	10.0	0.31	12/13/18 12:43	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/13/18 12:43	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/13/18 12:43	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/13/18 12:43	
Pyrene	ug/kg	<1.5	10.0	1.5	12/13/18 12:43	
2-Fluorobiphenyl (S)	%	74	42-125		12/13/18 12:43	
p-Terphenyl-d14 (S)	%	98	57-125		12/13/18 12:43	

LABORATORY CONTROL SAMPLE: 3147864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	23.3	70	41-125	
2-Methylnaphthalene	ug/kg	33.3	25.2	76	40-125	
Acenaphthene	ug/kg	33.3	24.3	73	52-125	
Acenaphthylene	ug/kg	33.3	23.7	71	50-125	
Anthracene	ug/kg	33.3	28.2	85	65-125	
Benzo(a)anthracene	ug/kg	33.3	25.0	75	60-125	
Benzo(a)pyrene	ug/kg	33.3	28.6	86	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	30.6	92	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	28.9	87	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	28.5	86	67-125	
Chrysene	ug/kg	33.3	27.3	82	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	28.0	84	63-125	
Fluoranthene	ug/kg	33.3	26.8	80	75-125	
Fluorene	ug/kg	33.3	24.7	74	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	29.1	87	63-125	
Naphthalene	ug/kg	33.3	22.4	67	49-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

LABORATORY CONTROL SAMPLE: 3147864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	24.3	73	65-125	
Pyrene	ug/kg	33.3	26.1	78	64-125	
2-Fluorobiphenyl (S)	%			76	42-125	
p-Terphenyl-d14 (S)	%			91	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147865 3147866

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10458424001 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/kg	<10.9	36.1	36.1	36.1	17.8	21.4	49	59	33-125	18	30	
2-Methylnaphthalene	ug/kg	<10.9	36.1	36.1	36.1	23.4	27.5	65	76	30-125	16	30	
Acenaphthene	ug/kg	<0.011	36.1	36.1	36.1	20.1	26.3	56	73	30-125	27	30	
Acenaphthylene	ug/kg	<0.011	36.1	36.1	36.1	25.4	29.6	70	82	30-133	15	30	
Anthracene	ug/kg	<0.011	36.1	36.1	36.1	29.4	39.6	81	110	30-150	29	30	
Benzo(a)anthracene	ug/kg	0.031	36.1	36.1	36.1	59.9	73.0	81	117	30-150	20	30	
Benzo(a)pyrene	ug/kg	0.033	36.1	36.1	36.1	66.4	73.5	93	113	30-150	10	30	
Benzo(b)fluoranthene	ug/kg	0.044	36.1	36.1	36.1	85.7	93.8	115	137	30-150	9	30	
Benzo(g,h,i)perylene	ug/kg	0.028	36.1	36.1	36.1	67.6	65.5	109	103	30-150	3	30	
Benzo(k)fluoranthene	ug/kg	0.016	36.1	36.1	36.1	41.6	47.6	72	88	30-150	13	30	
Chrysene	ug/kg	0.024	36.1	36.1	36.1	50.4	63.3	73	108	30-150	23	30	
Dibenz(a,h)anthracene	ug/kg	<0.011	36.1	36.1	36.1	29.2	34.0	81	94	30-131	15	30	
Fluoranthene	ug/kg	0.048	36.1	36.1	36.1	96.8	139	136	252	30-150	36	30	M1, R1
Fluorene	ug/kg	<0.011	36.1	36.1	36.1	21.6	27.9	60	77	30-147	25	30	
Indeno(1,2,3-cd)pyrene	ug/kg	0.020	36.1	36.1	36.1	53.0	61.1	90	112	30-150	14	30	
Naphthalene	ug/kg	<0.011	36.1	36.1	36.1	23.2	25.5	64	71	30-131	9	30	
Phenanthrene	ug/kg	0.013	36.1	36.1	36.1	43.7	87.2	86	206	30-150	66	30	M1, R1
Pyrene	ug/kg	0.041	36.1	36.1	36.1	91.5	123	140	227	30-150	29	30	M1
2-Fluorobiphenyl (S)	%							58	70	42-125			
p-Terphenyl-d14 (S)	%							59	73	57-125			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	578295	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA 3550	Analysis Description:	NWTPH-Dx GCS
Associated Lab Samples:	10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020		

METHOD BLANK:	3136654	Matrix:	Solid
Associated Lab Samples:	10457092001, 10457092002, 10457092003, 10457092004, 10457092005, 10457092006, 10457092007, 10457092008, 10457092009, 10457092010, 10457092011, 10457092012, 10457092013, 10457092014, 10457092015, 10457092016, 10457092017, 10457092018, 10457092019, 10457092020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/02/18 19:44	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/02/18 19:44	
n-Triacontane (S)	%	73	50-150		12/02/18 19:44	
o-Terphenyl (S)	%	79	50-150		12/02/18 19:44	

LABORATORY CONTROL SAMPLE: 3136655						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	50.3	101	50-150	
Motor Oil Range	mg/kg	50	48.9	98	50-150	
n-Triacontane (S)	%			99	50-150	
o-Terphenyl (S)	%			100	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3136656												3136657	
Parameter	Units	10457092001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Diesel Fuel Range	mg/kg	44.6	58.8	58.2	73.0	72.2	48	47	50-150	1	30	M1	
Motor Oil Range	mg/kg	209	58.8	58.2	131	118	-133	-156	50-150	10	30	M1	
n-Triacontane (S)	%						73	68	50-150				
o-Terphenyl (S)	%						92	93	50-150				

SAMPLE DUPLICATE: 3136658						
Parameter	Units	10457092011 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	507	812	46	30	D6
Motor Oil Range	mg/kg	833	1510	58	30	D6
n-Triacontane (S)	%	0	0			S4
o-Terphenyl (S)	%	0	0			S4

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457092

QC Batch:	578575	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA 3550	Analysis Description:	NWTPH-Dx GCS
Associated Lab Samples:	10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040		

METHOD BLANK:	3138286	Matrix:	Solid
Associated Lab Samples:	10457092021, 10457092022, 10457092023, 10457092024, 10457092025, 10457092026, 10457092027, 10457092028, 10457092029, 10457092030, 10457092031, 10457092032, 10457092033, 10457092034, 10457092035, 10457092036, 10457092037, 10457092038, 10457092039, 10457092040		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/12/18 19:37	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/12/18 19:37	
n-Triacontane (S)	%	89	50-150		12/12/18 19:37	
o-Terphenyl (S)	%	93	50-150		12/12/18 19:37	

LABORATORY CONTROL SAMPLE: 3138287						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	51.8	104	50-150	
Motor Oil Range	mg/kg	50	50.5	101	50-150	
n-Triacontane (S)	%			101	50-150	
o-Terphenyl (S)	%			99	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138288												3138289	
Parameter	Units	10457092021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Diesel Fuel Range	mg/kg	<3.0	61.8	62	61.5	64.0	98	101	50-150	4	30		
Motor Oil Range	mg/kg	5.7J	61.8	62	64.9	67.1	96	99	50-150	3	30		
n-Triacontane (S)	%						97	107	50-150				
o-Terphenyl (S)	%						93	94	50-150				

SAMPLE DUPLICATE: 3138290						
Parameter	Units	10457092031 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	<3.0	<3.1		30	
Motor Oil Range	mg/kg	6.9J	6.1J		30	
n-Triacontane (S)	%	94	94			
o-Terphenyl (S)	%	98	97			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
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QC Batch: 578581 Analysis Method: NWTPH-Dx  
QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS  
Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

METHOD BLANK: 3138313 Matrix: Solid  
Associated Lab Samples: 10457092041, 10457092042, 10457092043, 10457092044, 10457092045, 10457092046, 10457092047, 10457092048, 10457092049, 10457092050, 10457092051, 10457092052, 10457092053, 10457092054, 10457092055, 10457092056

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/10/18 16:02	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/10/18 16:02	
n-Triacontane (S)	%	87	50-150		12/10/18 16:02	
o-Terphenyl (S)	%	84	50-150		12/10/18 16:02	

LABORATORY CONTROL SAMPLE: 3138314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	53.2	106	50-150	
Motor Oil Range	mg/kg	50	50.0	100	50-150	
n-Triacontane (S)	%			104	50-150	
o-Terphenyl (S)	%			99	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138315 3138316

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457092041 Result	Spike Conc.	Spike Conc.	Result						
Diesel Fuel Range	mg/kg	25.9	58.8	59.8	163	148	233	204	50-150	10	30 M1
Motor Oil Range	mg/kg	34.7	58.8	59.8	144	137	186	172	50-150	5	30 M1
n-Triacontane (S)	%						98	94	50-150		
o-Terphenyl (S)	%						103	103	50-150		

SAMPLE DUPLICATE: 3138317

Parameter	Units	10457092051 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	11.6J	<2.9		30	
Motor Oil Range	mg/kg	20.4	<5.2		30	
n-Triacontane (S)	%	83	86			
o-Terphenyl (S)	%	81	85			

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## QUALIFIERS

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 579699

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 591393

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 591601

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 591769

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 592251

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1M Preserved from glass jar with headspace outside 48 hours from collection.

2M Reanalysis conducted in excess of EPA method holding time. Results do not confirm original analysis performed in hold time.

3M Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

4M Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

5M Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

6M Sample was taken from packed glass jar and frozen outside of 48 hours from collection.

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## QUALIFIERS

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### ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the recognized method holding time.
H2	Extraction or preparation was conducted outside of the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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## METHOD CROSS REFERENCE TABLE

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Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV 5030 Med Level	Solid	SW-846 8260B	SW-846 5030B
8260B MSV 5035 Low Level	Solid	SW-846 8260B	SW-846 5035A/5030B

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092001	DP-1 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092002	DP-1 (4.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092003	DP-2 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092004	DP-2 (4.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092005	DP-3 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092006	DP-3 (3.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092007	DP-4 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092008	DP-4 (3.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092009	DP-5 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092010	DP-5 (3.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092011	DP-6 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092012	DP-6 (3.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092013	DP-7 (0.0-2.0)	EPA 3550	578577	EPA 8082A	579151
10457092014	DP-7 (3.0-5.0)	EPA 3550	578577	EPA 8082A	579151
10457092015	DP-8 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092016	DP-8 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092017	DP-9 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092018	DP-9 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092019	DP-10 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092020	DP-10 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092021	DP-11 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092022	DP-11 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092023	DP-12 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092024	DP-12 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092025	DP-13 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092026	DP-13 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092027	DP-14 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092028	DP-14 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092029	DP-15 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092030	DP-15 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092031	DP-16 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092032	DP-16 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092033	DP-17 (0.0-2.0)	EPA 3550	578586	EPA 8082A	580074
10457092034	DP-17 (3.0-5.0)	EPA 3550	578586	EPA 8082A	580074
10457092035	DP-18 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092036	DP-18 (3.0-5.0)	EPA 3550	578742	EPA 8082A	579154
10457092037	DP-19 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092038	DP-19 (2.0-3.5)	EPA 3550	578742	EPA 8082A	579154
10457092039	DP-20 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092040	DP-20 (3.0-5.0)	EPA 3550	578742	EPA 8082A	579154
10457092041	DP-21 (0.0-1.5)	EPA 3550	578742	EPA 8082A	579154
10457092042	DP-21 (1.5-3.0)	EPA 3550	578742	EPA 8082A	579154
10457092043	DP-22 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092044	DP-22 (2.0-4.0)	EPA 3550	578742	EPA 8082A	579154
10457092045	DP-23 (0.0-1.5)	EPA 3550	578742	EPA 8082A	579154
10457092046	DP-23 (1.5-3.0)	EPA 3550	578742	EPA 8082A	579154
10457092047	DP-24 (0.0-1.5)	EPA 3550	578742	EPA 8082A	579154
10457092048	DP-24 (1.5-3.0)	EPA 3550	578742	EPA 8082A	579154

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092049	DP-25 (0.0-2.0)	EPA 3550	586957	EPA 8082A	587213
10457092050	DP-25 (3.0-5.0)	EPA 3550	586957	EPA 8082A	587213
10457092051	DP-26 (0.0-1.5)	EPA 3550	586957	EPA 8082A	587213
10457092052	DP-26 (1.5-3.0)	EPA 3550	586957	EPA 8082A	587213
10457092053	DP-27 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092054	DP-27 (3.0-4.0)	EPA 3550	578742	EPA 8082A	579154
10457092055	DP-28 (0.0-2.0)	EPA 3550	578742	EPA 8082A	579154
10457092056	DP-28 (2.0-4.0)	EPA 3550	578742	EPA 8082A	579154
10457092001	DP-1 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092002	DP-1 (4.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092003	DP-2 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092004	DP-2 (4.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092005	DP-3 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092006	DP-3 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092007	DP-4 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092008	DP-4 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092009	DP-5 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092010	DP-5 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092011	DP-6 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092012	DP-6 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092013	DP-7 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092014	DP-7 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092015	DP-8 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092016	DP-8 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092017	DP-9 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092018	DP-9 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092019	DP-10 (0.0-2.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092020	DP-10 (3.0-5.0)	EPA 3550	578295	NWTPH-Dx	578483
10457092021	DP-11 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092022	DP-11 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092023	DP-12 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092024	DP-12 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092025	DP-13 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092026	DP-13 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092027	DP-14 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092028	DP-14 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092029	DP-15 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092030	DP-15 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092031	DP-16 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092032	DP-16 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092033	DP-17 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092034	DP-17 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092035	DP-18 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092036	DP-18 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092037	DP-19 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092038	DP-19 (2.0-3.5)	EPA 3550	578575	NWTPH-Dx	580582
10457092039	DP-20 (0.0-2.0)	EPA 3550	578575	NWTPH-Dx	580582

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Pace Project No.: 10457092

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092040	DP-20 (3.0-5.0)	EPA 3550	578575	NWTPH-Dx	580582
10457092041	DP-21 (0.0-1.5)	EPA 3550	578581	NWTPH-Dx	580070
10457092042	DP-21 (1.5-3.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092043	DP-22 (0.0-2.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092044	DP-22 (2.0-4.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092045	DP-23 (0.0-1.5)	EPA 3550	578581	NWTPH-Dx	580070
10457092046	DP-23 (1.5-3.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092047	DP-24 (0.0-1.5)	EPA 3550	578581	NWTPH-Dx	580070
10457092048	DP-24 (1.5-3.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092049	DP-25 (0.0-2.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092050	DP-25 (3.0-5.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092051	DP-26 (0.0-1.5)	EPA 3550	578581	NWTPH-Dx	580070
10457092052	DP-26 (1.5-3.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092053	DP-27 (0.0-2.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092054	DP-27 (3.0-4.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092055	DP-28 (0.0-2.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092056	DP-28 (2.0-4.0)	EPA 3550	578581	NWTPH-Dx	580070
10457092001	DP-1 (0.0-2.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092002	DP-1 (4.0-5.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092003	DP-2 (0.0-2.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092004	DP-2 (4.0-5.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092005	DP-3 (0.0-2.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092006	DP-3 (3.0-5.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092007	DP-4 (0.0-2.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092008	DP-4 (3.0-5.0)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457092009	DP-5 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092010	DP-5 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092011	DP-6 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092012	DP-6 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092013	DP-7 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092014	DP-7 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092015	DP-8 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092016	DP-8 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092017	DP-9 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092018	DP-9 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092019	DP-10 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092020	DP-10 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092021	DP-11 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092022	DP-11 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092023	DP-12 (0.0-2.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092024	DP-12 (3.0-5.0)	NWTPH-Gx	579690	NWTPH-Gx	579748
10457092025	DP-13 (0.0-2.0)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457092026	DP-13 (3.0-5.0)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457092027	DP-14 (0.0-2.0)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457092028	DP-14 (3.0-5.0)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457092029	DP-15 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092030	DP-15 (3.0-5.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092031	DP-16 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092032	DP-16 (3.0-5.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092033	DP-17 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092034	DP-17 (3.0-5.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092035	DP-18 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092036	DP-18 (3.0-5.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092037	DP-19 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092038	DP-19 (2.0-3.5)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092039	DP-20 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092040	DP-20 (3.0-5.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092041	DP-21 (0.0-1.5)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092042	DP-21 (1.5-3.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092043	DP-22 (0.0-2.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092044	DP-22 (2.0-4.0)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092045	DP-23 (0.0-1.5)	NWTPH-Gx	580024	NWTPH-Gx	580485
10457092046	DP-23 (1.5-3.0)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457092047	DP-24 (0.0-1.5)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092048	DP-24 (1.5-3.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092049	DP-25 (0.0-2.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092050	DP-25 (3.0-5.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092051	DP-26 (0.0-1.5)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092052	DP-26 (1.5-3.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092053	DP-27 (0.0-2.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092054	DP-27 (3.0-4.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092055	DP-28 (0.0-2.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092056	DP-28 (2.0-4.0)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457092011	DP-6 (0.0-2.0)	EPA 3010	583333	EPA 6010D	583421
10457092023	DP-12 (0.0-2.0)	EPA 3010	583333	EPA 6010D	583421
10457092051	DP-26 (0.0-1.5)	EPA 3010	583333	EPA 6010D	583421
10457092001	DP-1 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092002	DP-1 (4.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092003	DP-2 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092004	DP-2 (4.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092005	DP-3 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092006	DP-3 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092007	DP-4 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092008	DP-4 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092009	DP-5 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092010	DP-5 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092011	DP-6 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092012	DP-6 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092013	DP-7 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092014	DP-7 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092015	DP-8 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092016	DP-8 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092017	DP-9 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395

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10457092018	DP-9 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092019	DP-10 (0.0-2.0)	EPA 3050	578415	EPA 6010D	579395
10457092020	DP-10 (3.0-5.0)	EPA 3050	578415	EPA 6010D	579395
10457092021	DP-11 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092022	DP-11 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092023	DP-12 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092024	DP-12 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092025	DP-13 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092026	DP-13 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092027	DP-14 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092028	DP-14 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092029	DP-15 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092030	DP-15 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092031	DP-16 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092032	DP-16 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092033	DP-17 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092034	DP-17 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092035	DP-18 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092036	DP-18 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092037	DP-19 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092038	DP-19 (2.0-3.5)	EPA 3050	578416	EPA 6010D	579519
10457092039	DP-20 (0.0-2.0)	EPA 3050	578416	EPA 6010D	579519
10457092040	DP-20 (3.0-5.0)	EPA 3050	578416	EPA 6010D	579519
10457092041	DP-21 (0.0-1.5)	EPA 3050	578417	EPA 6010D	579521
10457092042	DP-21 (1.5-3.0)	EPA 3050	578417	EPA 6010D	579521
10457092043	DP-22 (0.0-2.0)	EPA 3050	578417	EPA 6010D	579521
10457092044	DP-22 (2.0-4.0)	EPA 3050	578417	EPA 6010D	579521
10457092045	DP-23 (0.0-1.5)	EPA 3050	578417	EPA 6010D	579521
10457092046	DP-23 (1.5-3.0)	EPA 3050	578417	EPA 6010D	579521
10457092047	DP-24 (0.0-1.5)	EPA 3050	578417	EPA 6010D	579521
10457092048	DP-24 (1.5-3.0)	EPA 3050	578417	EPA 6010D	579521
10457092049	DP-25 (0.0-2.0)	EPA 3050	578417	EPA 6010D	579521
10457092050	DP-25 (3.0-5.0)	EPA 3050	578417	EPA 6010D	579521
10457092051	DP-26 (0.0-1.5)	EPA 3050	578417	EPA 6010D	579521
10457092052	DP-26 (1.5-3.0)	EPA 3050	578417	EPA 6010D	579521
10457092053	DP-27 (0.0-2.0)	EPA 3050	578417	EPA 6010D	579521
10457092054	DP-27 (3.0-4.0)	EPA 3050	578417	EPA 6010D	579521
10457092055	DP-28 (0.0-2.0)	EPA 3050	578417	EPA 6010D	579521
10457092056	DP-28 (2.0-4.0)	EPA 3050	578417	EPA 6010D	579521
10457092001	DP-1 (0.0-2.0)	EPA 3050	647969	EPA 6020B	648370
10457092002	DP-1 (4.0-5.0)	EPA 3050	647969	EPA 6020B	648370
10457092006	DP-3 (3.0-5.0)	EPA 3050	647969	EPA 6020B	648370
10457092010	DP-5 (3.0-5.0)	EPA 3050	647969	EPA 6020B	648370
10457092012	DP-6 (3.0-5.0)	EPA 3050	647969	EPA 6020B	648370
10457092015	DP-8 (0.0-2.0)	EPA 3050	647969	EPA 6020B	648370
10457092021	DP-11 (0.0-2.0)	EPA 3050	647969	EPA 6020B	648370
10457092023	DP-12 (0.0-2.0)	EPA 3050	647969	EPA 6020B	648370

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10457092033	DP-17 (0.0-2.0)	EPA 3050	647969	EPA 6020B	648370
10457092046	DP-23 (1.5-3.0)	EPA 3050	647969	EPA 6020B	648370
10457092001	DP-1 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092002	DP-1 (4.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092003	DP-2 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092004	DP-2 (4.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092005	DP-3 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092006	DP-3 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092007	DP-4 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092008	DP-4 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092009	DP-5 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092010	DP-5 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092011	DP-6 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092012	DP-6 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092013	DP-7 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092014	DP-7 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092015	DP-8 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092016	DP-8 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092017	DP-9 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092018	DP-9 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092019	DP-10 (0.0-2.0)	EPA 7471B	578439	EPA 7471B	579344
10457092020	DP-10 (3.0-5.0)	EPA 7471B	578439	EPA 7471B	579344
10457092021	DP-11 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092022	DP-11 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092023	DP-12 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092024	DP-12 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092025	DP-13 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092026	DP-13 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092027	DP-14 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092028	DP-14 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092029	DP-15 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092030	DP-15 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092031	DP-16 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092032	DP-16 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092033	DP-17 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092034	DP-17 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092035	DP-18 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092036	DP-18 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092037	DP-19 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092038	DP-19 (2.0-3.5)	EPA 7471B	578440	EPA 7471B	579614
10457092039	DP-20 (0.0-2.0)	EPA 7471B	578440	EPA 7471B	579614
10457092040	DP-20 (3.0-5.0)	EPA 7471B	578440	EPA 7471B	579614
10457092041	DP-21 (0.0-1.5)	EPA 7471B	578441	EPA 7471B	579606
10457092042	DP-21 (1.5-3.0)	EPA 7471B	578441	EPA 7471B	579606
10457092043	DP-22 (0.0-2.0)	EPA 7471B	578441	EPA 7471B	579606
10457092044	DP-22 (2.0-4.0)	EPA 7471B	578441	EPA 7471B	579606
10457092045	DP-23 (0.0-1.5)	EPA 7471B	578441	EPA 7471B	579606

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10457092046	DP-23 (1.5-3.0)	EPA 7471B	578441	EPA 7471B	579606
10457092047	DP-24 (0.0-1.5)	EPA 7471B	578441	EPA 7471B	579606
10457092048	DP-24 (1.5-3.0)	EPA 7471B	578441	EPA 7471B	579606
10457092049	DP-25 (0.0-2.0)	EPA 7471B	578441	EPA 7471B	579606
10457092050	DP-25 (3.0-5.0)	EPA 7471B	578441	EPA 7471B	579606
10457092051	DP-26 (0.0-1.5)	EPA 7471B	578441	EPA 7471B	579606
10457092052	DP-26 (1.5-3.0)	EPA 7471B	578441	EPA 7471B	579606
10457092053	DP-27 (0.0-2.0)	EPA 7471B	578441	EPA 7471B	579606
10457092054	DP-27 (3.0-4.0)	EPA 7471B	578441	EPA 7471B	579606
10457092055	DP-28 (0.0-2.0)	EPA 7471B	578441	EPA 7471B	579606
10457092056	DP-28 (2.0-4.0)	EPA 7471B	578441	EPA 7471B	579606
10457092001	DP-1 (0.0-2.0)	ASTM D2974	580148		
10457092002	DP-1 (4.0-5.0)	ASTM D2974	580148		
10457092003	DP-2 (0.0-2.0)	ASTM D2974	580148		
10457092004	DP-2 (4.0-5.0)	ASTM D2974	580148		
10457092005	DP-3 (0.0-2.0)	ASTM D2974	580148		
10457092006	DP-3 (3.0-5.0)	ASTM D2974	580148		
10457092007	DP-4 (0.0-2.0)	ASTM D2974	580148		
10457092008	DP-4 (3.0-5.0)	ASTM D2974	580148		
10457092009	DP-5 (0.0-2.0)	ASTM D2974	580148		
10457092010	DP-5 (3.0-5.0)	ASTM D2974	580148		
10457092011	DP-6 (0.0-2.0)	ASTM D2974	580148		
10457092012	DP-6 (3.0-5.0)	ASTM D2974	580156		
10457092013	DP-7 (0.0-2.0)	ASTM D2974	580156		
10457092014	DP-7 (3.0-5.0)	ASTM D2974	580156		
10457092015	DP-8 (0.0-2.0)	ASTM D2974	580156		
10457092016	DP-8 (3.0-5.0)	ASTM D2974	580156		
10457092017	DP-9 (0.0-2.0)	ASTM D2974	580156		
10457092018	DP-9 (3.0-5.0)	ASTM D2974	580156		
10457092019	DP-10 (0.0-2.0)	ASTM D2974	580156		
10457092020	DP-10 (3.0-5.0)	ASTM D2974	580156		
10457092021	DP-11 (0.0-2.0)	ASTM D2974	580156		
10457092022	DP-11 (3.0-5.0)	ASTM D2974	580156		
10457092023	DP-12 (0.0-2.0)	ASTM D2974	580156		
10457092024	DP-12 (3.0-5.0)	ASTM D2974	580156		
10457092025	DP-13 (0.0-2.0)	ASTM D2974	580156		
10457092026	DP-13 (3.0-5.0)	ASTM D2974	580156		
10457092027	DP-14 (0.0-2.0)	ASTM D2974	580156		
10457092028	DP-14 (3.0-5.0)	ASTM D2974	580156		
10457092029	DP-15 (0.0-2.0)	ASTM D2974	580156		
10457092030	DP-15 (3.0-5.0)	ASTM D2974	580156		
10457092031	DP-16 (0.0-2.0)	ASTM D2974	580156		
10457092032	DP-16 (3.0-5.0)	ASTM D2974	580157		
10457092033	DP-17 (0.0-2.0)	ASTM D2974	580157		
10457092034	DP-17 (3.0-5.0)	ASTM D2974	580157		
10457092035	DP-18 (0.0-2.0)	ASTM D2974	580157		
10457092036	DP-18 (3.0-5.0)	ASTM D2974	580157		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092037	DP-19 (0.0-2.0)	ASTM D2974	580157		
10457092038	DP-19 (2.0-3.5)	ASTM D2974	580157		
10457092039	DP-20 (0.0-2.0)	ASTM D2974	580157		
10457092040	DP-20 (3.0-5.0)	ASTM D2974	580157		
10457092041	DP-21 (0.0-1.5)	ASTM D2974	580157		
10457092042	DP-21 (1.5-3.0)	ASTM D2974	580157		
10457092043	DP-22 (0.0-2.0)	ASTM D2974	580157		
10457092044	DP-22 (2.0-4.0)	ASTM D2974	580157		
10457092045	DP-23 (0.0-1.5)	ASTM D2974	580157		
10457092046	DP-23 (1.5-3.0)	ASTM D2974	580157		
10457092047	DP-24 (0.0-1.5)	ASTM D2974	580157		
10457092048	DP-24 (1.5-3.0)	ASTM D2974	580157		
10457092049	DP-25 (0.0-2.0)	ASTM D2974	580157		
10457092050	DP-25 (3.0-5.0)	ASTM D2974	580157		
10457092051	DP-26 (0.0-1.5)	ASTM D2974	580157		
10457092052	DP-26 (1.5-3.0)	ASTM D2974	580352		
10457092053	DP-27 (0.0-2.0)	ASTM D2974	580352		
10457092054	DP-27 (3.0-4.0)	ASTM D2974	580352		
10457092055	DP-28 (0.0-2.0)	ASTM D2974	580352		
10457092056	DP-28 (2.0-4.0)	ASTM D2974	580352		
10457092001	DP-1 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092002	DP-1 (4.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092003	DP-2 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092004	DP-2 (4.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092005	DP-3 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092006	DP-3 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092007	DP-4 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092008	DP-4 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092009	DP-5 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092010	DP-5 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092011	DP-6 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092012	DP-6 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092013	DP-7 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092014	DP-7 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092015	DP-8 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092016	DP-8 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092017	DP-9 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092018	DP-9 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092019	DP-10 (0.0-2.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092020	DP-10 (3.0-5.0)	EPA 3550	579831	EPA 8270D by SIM	580268
10457092021	DP-11 (0.0-2.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092022	DP-11 (3.0-5.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092023	DP-12 (0.0-2.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092024	DP-12 (3.0-5.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092025	DP-13 (0.0-2.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092026	DP-13 (3.0-5.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092027	DP-14 (0.0-2.0)	EPA 3550	578826	EPA 8270D by SIM	579012

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457092028	DP-14 (3.0-5.0)	EPA 3550	578826	EPA 8270D by SIM	579012
10457092029	DP-15 (0.0-2.0)	EPA 3550	580498	EPA 8270D by SIM	580687
10457092030	DP-15 (3.0-5.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092031	DP-16 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092032	DP-16 (3.0-5.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092033	DP-17 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092034	DP-17 (3.0-5.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092035	DP-18 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092036	DP-18 (3.0-5.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092037	DP-19 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092038	DP-19 (2.0-3.5)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092039	DP-20 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092040	DP-20 (3.0-5.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092041	DP-21 (0.0-1.5)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092042	DP-21 (1.5-3.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092043	DP-22 (0.0-2.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092044	DP-22 (2.0-4.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092045	DP-23 (0.0-1.5)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092046	DP-23 (1.5-3.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092047	DP-24 (0.0-1.5)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092048	DP-24 (1.5-3.0)	EPA 3550	579246	EPA 8270D by SIM	580267
10457092049	DP-25 (0.0-2.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092050	DP-25 (3.0-5.0)	EPA 3550	579929	EPA 8270D by SIM	580140
10457092051	DP-26 (0.0-1.5)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092052	DP-26 (1.5-3.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092053	DP-27 (0.0-2.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092054	DP-27 (3.0-4.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092055	DP-28 (0.0-2.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092056	DP-28 (2.0-4.0)	EPA 3550	579251	EPA 8270D by SIM	579589
10457092001	DP-1 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092002	DP-1 (4.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092003	DP-2 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092004	DP-2 (4.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092005	DP-3 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092006	DP-3 (3.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092007	DP-4 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092008	DP-4 (3.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092009	DP-5 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092010	DP-5 (3.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092011	DP-6 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092012	DP-6 (3.0-5.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092013	DP-7 (0.0-2.0)	EPA 5035 Low	591379	EPA 8260B	591393
10457092014	DP-7 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092015	DP-8 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092016	DP-8 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601

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10457092017	DP-9 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092018	DP-9 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092019	DP-10 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092020	DP-10 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092021	DP-11 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092022	DP-11 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092023	DP-12 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092024	DP-12 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092025	DP-13 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092026	DP-13 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092027	DP-14 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092028	DP-14 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092029	DP-15 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092030	DP-15 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092031	DP-16 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092032	DP-16 (3.0-5.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092033	DP-17 (0.0-2.0)	EPA 5035 Low	591583	EPA 8260B	591601
10457092034	DP-17 (3.0-5.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092035	DP-18 (0.0-2.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092036	DP-18 (3.0-5.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092037	DP-19 (0.0-2.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092038	DP-19 (2.0-3.5)	EPA 5035 Low	591750	EPA 8260B	591769
10457092039	DP-20 (0.0-2.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092040	DP-20 (3.0-5.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092041	DP-21 (0.0-1.5)	EPA 5035 Low	591750	EPA 8260B	591769
10457092042	DP-21 (1.5-3.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092043	DP-22 (0.0-2.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092044	DP-22 (2.0-4.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092045	DP-23 (0.0-1.5)	EPA 5035 Low	591750	EPA 8260B	591769
10457092046	DP-23 (1.5-3.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092047	DP-24 (0.0-1.5)	EPA 5035 Low	591750	EPA 8260B	591769
10457092048	DP-24 (1.5-3.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092049	DP-25 (0.0-2.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092050	DP-25 (3.0-5.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092051	DP-26 (0.0-1.5)	EPA 5035 Low	591750	EPA 8260B	591769
10457092052	DP-26 (1.5-3.0)	EPA 5035 Low	591750	EPA 8260B	591769
10457092053	DP-27 (0.0-2.0)	EPA 5035 Low	592201	EPA 8260B	592251
10457092054	DP-27 (3.0-4.0)	EPA 5035 Low	592201	EPA 8260B	592251
10457092055	DP-28 (0.0-2.0)	EPA 5035 Low	592201	EPA 8260B	592251
10457092056	DP-28 (2.0-4.0)	EPA 5035 Low	592201	EPA 8260B	592251
10457092001	DP-1 (0.0-2.0)	EPA 5035/5030B	579139	EPA 8260B	579189
10457092002	DP-1 (4.0-5.0)	EPA 5035/5030B	579139	EPA 8260B	579189
10457092003	DP-2 (0.0-2.0)	EPA 5035/5030B	579279	EPA 8260B	579392
10457092004	DP-2 (4.0-5.0)	EPA 5035/5030B	579279	EPA 8260B	579392
10457092005	DP-3 (0.0-2.0)	EPA 5035/5030B	579279	EPA 8260B	579392
10457092006	DP-3 (3.0-5.0)	EPA 5035/5030B	579279	EPA 8260B	579392
10457092007	DP-4 (0.0-2.0)	EPA 5035/5030B	579279	EPA 8260B	579392

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10457092008	DP-4 (3.0-5.0)	EPA 5035/5030B	579279	EPA 8260B	579392
10457092009	DP-5 (0.0-2.0)	EPA 5035/5030B	579622	EPA 8260B	579650
10457092010	DP-5 (3.0-5.0)	EPA 5035/5030B	579622	EPA 8260B	579650
10457092011	DP-6 (0.0-2.0)	EPA 5035/5030B	579622	EPA 8260B	579650
10457092012	DP-6 (3.0-5.0)	EPA 5035/5030B	579622	EPA 8260B	579650
10457092013	DP-7 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092014	DP-7 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092015	DP-8 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092016	DP-8 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092017	DP-9 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092018	DP-9 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092019	DP-10 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092020	DP-10 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092021	DP-11 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092022	DP-11 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092023	DP-12 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092024	DP-12 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092025	DP-13 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092026	DP-13 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092027	DP-14 (0.0-2.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092028	DP-14 (3.0-5.0)	EPA 5035/5030B	579856	EPA 8260B	580010
10457092029	DP-15 (0.0-2.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092030	DP-15 (3.0-5.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092031	DP-16 (0.0-2.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092032	DP-16 (3.0-5.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092033	DP-17 (0.0-2.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092034	DP-17 (3.0-5.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092035	DP-18 (0.0-2.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092036	DP-18 (3.0-5.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092037	DP-19 (0.0-2.0)	EPA 5035/5030B	580105	EPA 8260B	580184
10457092038	DP-19 (2.0-3.5)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092039	DP-20 (0.0-2.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092040	DP-20 (3.0-5.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092041	DP-21 (0.0-1.5)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092042	DP-21 (1.5-3.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092043	DP-22 (0.0-2.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092044	DP-22 (2.0-4.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092045	DP-23 (0.0-1.5)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092046	DP-23 (1.5-3.0)	EPA 5035/5030B	580108	EPA 8260B	580298
10457092047	DP-24 (0.0-1.5)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092048	DP-24 (1.5-3.0)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092053	DP-27 (0.0-2.0)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092054	DP-27 (3.0-4.0)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092055	DP-28 (0.0-2.0)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092056	DP-28 (2.0-4.0)	EPA 5035/5030B	580419	EPA 8260B	580541
10457092057	Trip Blanks	EPA 5035/5030B	579279	EPA 8260B	579392

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <b>GeoEngineers</b>	Report To: <b>JR Suggs</b>	Attention: _____
Address: <b>523 East Second Ave</b>	Copy To: _____	Company Name: _____
Spokane, WA 99702	Purchase Order No.: _____	Address: _____
Email To: <b>jsuggs@geoengineers.com</b>	Project Name: _____	Site Location: _____
Phone: <b>509-323-375</b>	Project Number: <b>050417900</b>	State: _____
Fax: _____	Requested Due Date/TAT: <b>SH</b>	Requested Analysis Filtered (Y/N): _____
Requested Due Date/TAT: _____		Requested Analysis Filtered (Y/N): _____

Page: \_\_\_\_\_ of \_\_\_\_\_

2302122

REGULATORY AGENCY

NPDES  GROUND WATER  DRINKING WATER

UST  RCRA  OTHER \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	RECEIVED ON	Temp in °C	Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB																			
1	DP-13 (0.0-2.0)	DW	11-27-18	1310	SLG	11-27-18	1310	Unpreserved	VOC 8200B	X		11/30/19	955			0.9	4	4	0.9				
2	DP-13 (3.0-5.0)	WT	11-27-18	1310	SLG	11-27-18	1310	Unpreserved	VOC 8200B	X		11/30/19	955			0.1	4	4	0.1				
3	DP-14 (0.0-7.0)	WT	11-27-18	1000	SLG	11-27-18	1000	Unpreserved	VOC 8200B	X		11/30/19	955			0.4	4	4	0.4				
4	DP-14 (3.0-5.0)	WT	11-27-18	1010	SLG	11-27-18	1010	Unpreserved	VOC 8200B	X		11/30/19	955			3.6	4	4	3.6				
5	DP-15 (0.0-7.0)	WT	11-28-18	0545	SLG	11-28-18	0545	Unpreserved	VOC 8200B	X		11/30/19	955			4.1	4	4	4.1				
6	DP-15 (3.0-5.0)	WT	11-28-18	0925	SLG	11-28-18	0925	Unpreserved	VOC 8200B	X		11/30/19	955			0.7	4	4	0.7				
7	DP-16 (0.0-2.0)	WT	11-28-18	1005	SLG	11-28-18	1005	Unpreserved	VOC 8200B	X		11/30/19	955										
8	DP-16 (3.0-5.0)	WT	11-28-18	1005	SLG	11-28-18	1005	Unpreserved	VOC 8200B	X		11/30/19	955										
9	DP-17 (0.0-2.0)	WT	11-28-18	1005	SLG	11-28-18	1005	Unpreserved	VOC 8200B	X		11/30/19	955										
10	DP-17 (3.0-5.0)	WT	11-28-18	1005	SLG	11-28-18	1005	Unpreserved	VOC 8200B	X		11/30/19	955										
11	DP-18 (0.0-2.0)	WT	11-28-18	1000	SLG	11-28-18	1000	Unpreserved	VOC 8200B	X		11/30/19	955										
12	DP-18 (3.0-5.0)	WT	11-28-18	1000	SLG	11-28-18	1000	Unpreserved	VOC 8200B	X		11/30/19	955										

RELINQUISHED BY / AFFILIATION: **GeoEngineers** DATE: **11-28-18** TIME: **1400**

ACCEPTED BY / AFFILIATION: **Matt Paa** DATE: **11/30/19** TIME: **955**

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed (MM/DD/YY): \_\_\_\_\_

Temp in °C: **0.9**

Ice (Y/N): **4**

Custody Sealed Cooler (Y/N): **4**

Samples Intact (Y/N): **4**

ORIGINAL

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



**Section A**  
 Required Client Information:  
 Company: Geo Engineers  
 Address: 523 East Second Ave  
 Email To: Spoelana, WA 99102  
 Phone: rsugalski@geoeng.com  
 Fax: 505-363-3175  
 Requested Due Date/TAT: std

**Section B**  
 Required Project Information:  
 Report To: JR Sugalski  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Stubbfield  
 Project Number: 050412900

**Section C**  
 Invoice Information:  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: \_\_\_\_\_

Page: 3 of 4  
 2302123

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location  
 STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB		H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other		
1	DP-19 (0.0-2.0)	SLG	11-28-18 11:20	11-28-18 11:30	9	Y								037
2	DP-19 (2.0-3.5)	SLG	11-28-18 11:30	11-28-18 11:40	9	Y								038
3	DP-20 (0.0-2.0)	SLG	11-28-18 12:40	11-28-18 12:50	9	Y								039
4	DP-20 (3.0-5.0)	SLG	11-28-18 13:10	11-28-18 13:20	9	Y								040
5	DP-21 (0.0-1.5)	SLG	11-28-18 14:00	11-28-18 14:10	8	Y								041
6	DP-21 (1.5-3.0)	SLG	11-28-18 14:00	11-28-18 14:10	8	Y								042
7	DP-22 (0.0-2.0)	SLG	11-28-18 14:00	11-28-18 14:10	9	Y								043
8	DP-22 (2.0-4.0)	SLG	11-28-18 14:00	11-28-18 14:10	9	Y								044
9	DP-23 (0.0-1.5)	SLG	11-28-18 15:20	11-28-18 15:30	8	Y								045
10	DP-23 (1.5-3.0)	SLG	11-28-18 15:30	11-28-18 15:40	8	Y								046
11	DP-24 (0.0-1.5)	SLG	11-29-18 08:30	11-29-18 08:40	8	Y								047
12	DP-24 (1.5-3.0)	SLG	11-29-18 08:40	11-29-18 08:50	8	Y								048

**ADDITIONAL COMMENTS**  
See history 11-29-18 14:00  
Mutt Pac

**RELINQUISHED BY / AFFILIATION**  
 DATE TIME ACCEPTED BY / AFFILIATION DATE TIME

**SAMPLE CONDITIONS**  
 Temp in °C: 0.9, 1.0, 0.1, 0.8, 0.4, 3.6, 4.1, 2.9, 0.2  
 Received on: \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_  
 DATE Signed (MM/DD/YYYY): \_\_\_\_\_

ORIGINAL





**Sample Condition Upon Receipt** Client Name: Geo Engineers Project #: **WO#: 10457092**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeeDee  Other: \_\_\_\_\_  
 Tracking Number: 1636 0193 8745, 8789, 8712, 8778, 8723, 8701;  
8815, 8767, 8796

Custody Seal on Cooler/Box Present?  Yes  No **8815, 8767, 8796** Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No  
 Thermometer  G87A9170600254  G87A9155100842 **Options** Type of Ice:  Wet  Blue  None  Dry  Melted  
 Cooler Temp Read (°C): see exc Cooler Temp Corrected (°C): see exceptions Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: Time Date and Initials of Person Examining Contents: EM 11/30/18  
 USDA Regulated Soil (  N/A, water sample) Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>DP-10 5.0-5.0 vial arrived broken</u>
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <u>SL</u>	12. <u>DP-9 0.0-2.0 vial arrived w/no sample</u>
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>092418-3</u>	

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Field Data Required?  Yes  No  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_ Date: 11/30/18  
 Note: Whenever there is a discrepancy affecting North Carolina, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect container, etc.)  
 Labeled by: Fred







March 08, 2019

JR Sugalski  
GeoEngineers  
523 East 2nd Avenue  
Spokane, WA 99202

RE: Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10457121

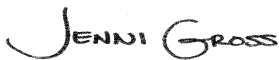
Dear JR Sugalski:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on March 8, 2019 to report all results to the method detection limit, to update a standard spike concentration for semi volatiles analysis by method 8270 on Pace samples 001-038 and to analyze all samples for VOCs by method 8260 low level.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross  
jennifer.gross@pacelabs.com  
(206)957-2426  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457121001	TP-1 (2)	Solid	11/26/18 11:40	11/30/18 09:55
10457121002	TP-1 (5)	Solid	11/26/18 12:00	11/30/18 09:55
10457121003	TP-2 (3)	Solid	11/26/18 13:00	11/30/18 09:55
10457121004	TP-2 (6)	Solid	11/26/18 13:30	11/30/18 09:55
10457121005	TP-3 (3)	Solid	11/26/18 14:20	11/30/18 09:55
10457121006	TP-3 (6)	Solid	11/26/18 14:40	11/30/18 09:55
10457121007	TP-4 (3)	Solid	11/26/18 15:20	11/30/18 09:55
10457121008	TP-4 (6)	Solid	11/26/18 15:40	11/30/18 09:55
10457121009	TP-5 (3)	Solid	11/27/18 10:00	11/30/18 09:55
10457121010	TP-5 (6)	Solid	11/27/18 10:20	11/30/18 09:55
10457121011	TP-6 (2)	Solid	11/27/18 11:00	11/30/18 09:55
10457121012	TP-6 (5)	Solid	11/27/18 11:20	11/30/18 09:55
10457121013	TP-7 (2)	Solid	11/27/18 11:40	11/30/18 09:55
10457121014	TP-7 (5)	Solid	11/27/18 12:00	11/30/18 09:55
10457121015	TP-8 (7)	Solid	11/27/18 12:30	11/30/18 09:55
10457121016	TP-9 (6)	Solid	11/27/18 13:00	11/30/18 09:55
10457121017	TP-9 (8)	Solid	11/27/18 13:20	11/30/18 09:55
10457121018	TP-10 (3)	Solid	11/27/18 14:20	11/30/18 09:55
10457121019	TP-10 (7)	Solid	11/27/18 14:40	11/30/18 09:55
10457121020	TP-11 (3)	Solid	11/27/18 15:20	11/30/18 09:55
10457121021	TP-11 (6)	Solid	11/27/18 15:40	11/30/18 09:55
10457121022	TP-12 (2)	Solid	11/28/18 08:20	11/30/18 09:55
10457121023	TP-12 (5)	Solid	11/28/18 08:40	11/30/18 09:55
10457121024	TP-13 (2)	Solid	11/28/18 09:20	11/30/18 09:55
10457121025	TP-13 (5)	Solid	11/28/18 09:40	11/30/18 09:55
10457121026	TP-14 (3)	Solid	11/28/18 10:00	11/30/18 09:55
10457121027	TP-14 (6)	Solid	11/28/18 10:20	11/30/18 09:55
10457121028	TP-15 (3)	Solid	11/28/18 11:20	11/30/18 09:55
10457121029	TP-15 (8)	Solid	11/28/18 11:00	11/30/18 09:55
10457121030	TP-16 (2)	Solid	11/28/18 12:20	11/30/18 09:55
10457121031	TP-16 (8)	Solid	11/28/18 12:40	11/30/18 09:55
10457121032	TP-17 (3)	Solid	11/28/18 13:00	11/30/18 09:55
10457121033	TP-17 (6)	Solid	11/28/18 13:20	11/30/18 09:55
10457121034	TP-18 (3)	Solid	11/28/18 13:50	11/30/18 09:55
10457121035	TP-18 (6)	Solid	11/28/18 14:00	11/30/18 09:55
10457121036	TP-19 (2)	Solid	11/28/18 14:40	11/30/18 09:55
10457121037	TP-19 (5)	Solid	11/28/18 15:00	11/30/18 09:55

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457121038	TP-19 (8)	Solid	11/28/18 15:20	11/30/18 09:55
10457121039	Trip Blanks	Solid	11/26/18 00:00	11/30/18 09:55

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121001	TP-1 (2)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
10457121002	TP-1 (5)	EPA 8260B	CD2	69
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121003	TP-2 (3)	EPA 8260B	GDM	5
		EPA 8260B	MJD	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121004	TP-2 (6)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
ASTM D2974	JDL	1		

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121005	TP-3 (3)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121006	TP-3 (6)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121007	TP-4 (3)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121008	TP-4 (6)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AG1	2

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121009	TP-5 (3)	EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121010	TP-5 (6)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
10457121011	TP-6 (2)	NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
10457121012	TP-6 (5)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
<b>10457121013</b>	<b>TP-7 (2)</b>	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
<b>10457121014</b>	<b>TP-7 (5)</b>	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
<b>10457121015</b>	<b>TP-8 (7)</b>	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121016	TP-9 (6)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121017	TP-9 (8)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121018	TP-10 (3)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121019	TP-10 (7)	EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121020	TP-11 (3)	EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121021	TP-11 (6)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
10457121022	TP-12 (2)	EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		10457121023	TP-12 (5)	EPA 8081B
EPA 8082A	RAG			9

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121024	TP-13 (2)	NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121025	TP-13 (5)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
10457121026	TP-14 (3)	NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121027	TP-14 (6)	EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
10457121028	TP-15 (3)	EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
10457121029	TP-15 (8)	EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
10457121030	TP-16 (2)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
EPA 7471B	LMW	1		

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121031	TP-16 (8)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
10457121032	TP-17 (3)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
10457121033	TP-17 (6)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
10457121034	TP-18 (3)	ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
10457121035	TP-18 (6)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
10457121036	TP-19 (2)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	GDM	5
		EPA 8260B	CD2	70
10457121037	TP-19 (5)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	CD2	5
		EPA 8260B	CD2	70

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457121038	TP-19 (8)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	EC2	4
		NWTPH-Gx	AJR	2
		EPA 6010D	IP	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	72
		EPA 8260B	CD2	5
		EPA 8260B	CD2	70
10457121039	Trip Blanks	EPA 8260B	CD2	70

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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**Date:** March 08, 2019

During an internal data review it was found that the standard spike was incorrectly entered and all laboratory control sample(LCS), laboratory control sample duplicate(LCSD), matrix spike(MS) and matrix spike duplicate(MSD) were being biased high as a result. The concentration of the standard spike has been corrected and samples footnoted accordingly. Samples 001-038 were prepared for VOCs by method 8260 low level using sample jars that were stored in a non-volatiles compliant refrigerator.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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**Method:** EPA 8081B

**Description:** 8081B GCS Pesticides

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 578983

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- TP-4 (3) (Lab ID: 10457121007)
  - 4,4'-DDE
  - Tetrachloro-m-xylene (S)
- TP-5 (3) (Lab ID: 10457121009)
  - Tetrachloro-m-xylene (S)
- TP-6 (2) (Lab ID: 10457121011)
  - 4,4'-DDE
  - Tetrachloro-m-xylene (S)
- TP-6 (5) (Lab ID: 10457121012)
  - 4,4'-DDE
  - Tetrachloro-m-xylene (S)
- TP-7 (5) (Lab ID: 10457121014)
  - 4,4'-DDE
  - Tetrachloro-m-xylene (S)

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 578983

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- TP-1 (2) (Lab ID: 10457121001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- TP-1 (5) (Lab ID: 10457121002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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**Method:** EPA 8081B

**Description:** 8081B GCS Pesticides

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579116

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3141327)
  - 4,4'-DDD
  - 4,4'-DDE
  - Heptachlor epoxide
- MSD (Lab ID: 3141328)
  - 4,4'-DDD
  - 4,4'-DDE
  - Heptachlor epoxide

### Additional Comments:

Analyte Comments:

QC Batch: 578983

5M: Sample was yellow in color.

- TP-4 (3) (Lab ID: 10457121007)
  - Tetrachloro-m-xylene (S)
- TP-5 (3) (Lab ID: 10457121009)
  - Tetrachloro-m-xylene (S)
- TP-6 (2) (Lab ID: 10457121011)
  - Tetrachloro-m-xylene (S)
- TP-7 (2) (Lab ID: 10457121013)
  - Tetrachloro-m-xylene (S)
  - Toxaphene
- TP-7 (5) (Lab ID: 10457121014)
  - Tetrachloro-m-xylene (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-4 (3) (Lab ID: 10457121007)
  - Tetrachloro-m-xylene (S)
- TP-5 (3) (Lab ID: 10457121009)
  - Tetrachloro-m-xylene (S)
- TP-6 (2) (Lab ID: 10457121011)
  - Tetrachloro-m-xylene (S)

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8081B

**Description:** 8081B GCS Pesticides

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 578983

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-7 (5) (Lab ID: 10457121014)
  - Tetrachloro-m-xylene (S)

D4: Sample was diluted due to the presence of high levels of target analytes.

- TP-1 (2) (Lab ID: 10457121001)
  - Tetrachloro-m-xylene (S)
- TP-1 (5) (Lab ID: 10457121002)
  - Tetrachloro-m-xylene (S)
- TP-7 (2) (Lab ID: 10457121013)
  - Tetrachloro-m-xylene (S)
  - Toxaphene

QC Batch: 579116

2M: Sample was light brown in color.

- MS (Lab ID: 3141327)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 3141328)
  - Tetrachloro-m-xylene (S)
- TP-12 (2) (Lab ID: 10457121022)
  - Tetrachloro-m-xylene (S)

5M: Sample was yellow in color.

- TP-11 (3) (Lab ID: 10457121020)
  - Tetrachloro-m-xylene (S)
- TP-19 (2) (Lab ID: 10457121036)
  - Tetrachloro-m-xylene (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-19 (2) (Lab ID: 10457121036)
  - Tetrachloro-m-xylene (S)

D4: Sample was diluted due to the presence of high levels of target analytes.

- MS (Lab ID: 3141327)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 3141328)
  - Tetrachloro-m-xylene (S)
- TP-11 (3) (Lab ID: 10457121020)
  - Tetrachloro-m-xylene (S)
- TP-12 (2) (Lab ID: 10457121022)
  - Tetrachloro-m-xylene (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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**Method:** EPA 8082A

**Description:** 8082A GCS PCB

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

38 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 579115

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3140942)
  - n-Triacontane (S)
  - o-Terphenyl (S)
- MSD (Lab ID: 3140943)
  - n-Triacontane (S)
  - o-Terphenyl (S)
- TP-12 (2) (Lab ID: 10457121022)
  - n-Triacontane (S)
  - o-Terphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 578581

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3138315)

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 578581

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Diesel Fuel Range
- Motor Oil Range
- MSD (Lab ID: 3138316)
  - Diesel Fuel Range
  - Motor Oil Range

QC Batch: 579115

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121022

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3140942)
  - Diesel Fuel Range
  - Motor Oil Range
- MSD (Lab ID: 3140943)
  - Diesel Fuel Range
  - Motor Oil Range

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 578827

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 3139345)
  - Motor Oil Range

### Additional Comments:

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with NWTPH-Gx with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 580025

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580025 [GCV/2006 (Lab ID: 3146042)
  - TPH as Gas
- BLANK for HBN 580025 [GCV/2006 (Lab ID: 3146043)
  - TPH as Gas

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579273

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 579273

1M: Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

- TP-3 (3) (Lab ID: 10457121005)
  - TPH as Gas

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 578650

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 3138730)
  - Zinc

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 578650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3138732)
  - Antimony
  - Arsenic
  - Selenium
  - Silver
  - Thallium
- MSD (Lab ID: 3138733)
  - Antimony
  - Silver

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 578650

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3138733)
  - Antimony
  - Arsenic
  - Beryllium
  - Cadmium
  - Chromium
  - Copper
  - Nickel
  - Selenium
  - Thallium

QC Batch: 578651

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121021

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3138736)
  - Antimony
  - Zinc
- MSD (Lab ID: 3138737)
  - Antimony
  - Arsenic
  - Selenium
  - Thallium
  - Zinc

### Additional Comments:

Analyte Comments:

QC Batch: 578650

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-1 (2) (Lab ID: 10457121001)
  - Arsenic
  - Beryllium
  - Cadmium
  - Nickel
  - Antimony
  - Selenium
  - Thallium

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 3138730)
  - Zinc

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 578651

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-11 (6) (Lab ID: 10457121021)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Nickel
- Antimony
- Selenium
- Thallium

- TP-12 (2) (Lab ID: 10457121022)

- Silver

- TP-12 (5) (Lab ID: 10457121023)

- Silver

- TP-13 (2) (Lab ID: 10457121024)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- TP-13 (5) (Lab ID: 10457121025)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

- TP-14 (3) (Lab ID: 10457121026)

- Silver

- TP-14 (6) (Lab ID: 10457121027)

- Silver

- TP-15 (3) (Lab ID: 10457121028)

- Silver

- TP-17 (6) (Lab ID: 10457121033)

- Silver
- Arsenic
- Beryllium
- Cadmium
- Antimony
- Selenium
- Thallium

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 578651

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- TP-18 (6) (Lab ID: 10457121035)
  - Silver
  - Beryllium
  - Cadmium
  - Nickel
  - Antimony
  - Selenium
  - Thallium

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 7471B

**Description:** 7471B Mercury

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

38 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- TP-3 (3) (Lab ID: 10457121005)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 578582

S0: Surrogate recovery outside laboratory control limits.

- TP-11 (3) (Lab ID: 10457121020)
- 2,4,6-Tribromophenol (S)

QC Batch: 578833

S0: Surrogate recovery outside laboratory control limits.

- TP-11 (6) (Lab ID: 10457121021)
- 2,4,6-Tribromophenol (S)

QC Batch: 579832

S0: Surrogate recovery outside laboratory control limits.

- BLANK (Lab ID: 3145196)
- 2,4,6-Tribromophenol (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579832

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121005

R1: RPD value was outside control limits.

- MSD (Lab ID: 3145199)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Chrysene
  - Fluoranthene
  - Pyrene

### Additional Comments:

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

38 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- TP-1 (2) (Lab ID: 10457121001)
- TP-1 (5) (Lab ID: 10457121002)
- TP-10 (3) (Lab ID: 10457121018)
- TP-10 (7) (Lab ID: 10457121019)
- TP-11 (3) (Lab ID: 10457121020)
- TP-11 (6) (Lab ID: 10457121021)
- TP-12 (2) (Lab ID: 10457121022)
- TP-12 (5) (Lab ID: 10457121023)
- TP-13 (2) (Lab ID: 10457121024)
- TP-13 (5) (Lab ID: 10457121025)
- TP-14 (3) (Lab ID: 10457121026)
- TP-14 (6) (Lab ID: 10457121027)
- TP-15 (3) (Lab ID: 10457121028)
- TP-15 (8) (Lab ID: 10457121029)
- TP-16 (2) (Lab ID: 10457121030)
- TP-16 (8) (Lab ID: 10457121031)
- TP-17 (3) (Lab ID: 10457121032)
- TP-17 (6) (Lab ID: 10457121033)
- TP-18 (3) (Lab ID: 10457121034)
- TP-18 (6) (Lab ID: 10457121035)
- TP-19 (2) (Lab ID: 10457121036)
- TP-19 (5) (Lab ID: 10457121037)
- TP-19 (8) (Lab ID: 10457121038)
- TP-2 (3) (Lab ID: 10457121003)
- TP-2 (6) (Lab ID: 10457121004)
- TP-3 (3) (Lab ID: 10457121005)
- TP-3 (6) (Lab ID: 10457121006)
- TP-4 (3) (Lab ID: 10457121007)
- TP-4 (6) (Lab ID: 10457121008)
- TP-5 (3) (Lab ID: 10457121009)
- TP-5 (6) (Lab ID: 10457121010)
- TP-6 (2) (Lab ID: 10457121011)
- TP-6 (5) (Lab ID: 10457121012)
- TP-7 (2) (Lab ID: 10457121013)
- TP-7 (5) (Lab ID: 10457121014)
- TP-8 (7) (Lab ID: 10457121015)
- TP-9 (6) (Lab ID: 10457121016)
- TP-9 (8) (Lab ID: 10457121017)

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035 Low with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 592201

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- TP-1 (5) (Lab ID: 10457121002)

- 1,2-Dichloroethane-d4 (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 592201

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 592382

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 592666

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

**Additional Comments:**

Analyte Comments:

QC Batch: 592201

3M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- TP-2 (3) (Lab ID: 10457121003)

- 1,2-Dichloroethane-d4 (S)

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 592201

3M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- TP-5 (6) (Lab ID: 10457121010)
  - 1,2-Dichloroethane-d4 (S)
- TP-7 (5) (Lab ID: 10457121014)
  - 1,2-Dichloroethane-d4 (S)
- TP-8 (7) (Lab ID: 10457121015)
  - 1,2-Dichloroethane-d4 (S)

4M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- TP-1 (2) (Lab ID: 10457121001)
  - 1,2-Dichloroethane-d4 (S)
- TP-1 (5) (Lab ID: 10457121002)
  - 1,2-Dichloroethane-d4 (S)
- TP-2 (6) (Lab ID: 10457121004)
  - 1,2-Dichloroethane-d4 (S)
- TP-3 (3) (Lab ID: 10457121005)
  - 1,2-Dichloroethane-d4 (S)
- TP-3 (6) (Lab ID: 10457121006)
  - 1,2-Dichloroethane-d4 (S)
- TP-4 (3) (Lab ID: 10457121007)
  - 1,2-Dichloroethane-d4 (S)
- TP-4 (6) (Lab ID: 10457121008)
  - 1,2-Dichloroethane-d4 (S)
- TP-5 (3) (Lab ID: 10457121009)
  - 1,2-Dichloroethane-d4 (S)
- TP-6 (2) (Lab ID: 10457121011)
  - 1,2-Dichloroethane-d4 (S)
- TP-6 (5) (Lab ID: 10457121012)
  - 1,2-Dichloroethane-d4 (S)
- TP-7 (2) (Lab ID: 10457121013)
  - 1,2-Dichloroethane-d4 (S)
- TP-9 (6) (Lab ID: 10457121016)
  - 1,2-Dichloroethane-d4 (S)

QC Batch: 592382

3M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- TP-10 (3) (Lab ID: 10457121018)
  - 1,2-Dichloroethane-d4 (S)
- TP-10 (7) (Lab ID: 10457121019)
  - 1,2-Dichloroethane-d4 (S)
- TP-18 (6) (Lab ID: 10457121035)
  - 1,2-Dichloroethane-d4 (S)
- TP-9 (8) (Lab ID: 10457121017)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 592382

4M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- TP-11 (3) (Lab ID: 10457121020)
  - 1,2-Dichloroethane-d4 (S)
- TP-11 (6) (Lab ID: 10457121021)
  - 1,2-Dichloroethane-d4 (S)
- TP-12 (2) (Lab ID: 10457121022)
  - 1,2-Dichloroethane-d4 (S)
- TP-12 (5) (Lab ID: 10457121023)
  - 1,2-Dichloroethane-d4 (S)
- TP-13 (2) (Lab ID: 10457121024)
  - 1,2-Dichloroethane-d4 (S)
- TP-13 (5) (Lab ID: 10457121025)
  - 1,2-Dichloroethane-d4 (S)
- TP-14 (3) (Lab ID: 10457121026)
  - 1,2-Dichloroethane-d4 (S)
- TP-14 (6) (Lab ID: 10457121027)
  - 1,2-Dichloroethane-d4 (S)
- TP-15 (3) (Lab ID: 10457121028)
  - 1,2-Dichloroethane-d4 (S)
- TP-15 (8) (Lab ID: 10457121029)
  - 1,2-Dichloroethane-d4 (S)
- TP-16 (2) (Lab ID: 10457121030)
  - 1,2-Dichloroethane-d4 (S)
- TP-16 (8) (Lab ID: 10457121031)
  - 1,2-Dichloroethane-d4 (S)
- TP-17 (3) (Lab ID: 10457121032)
  - 1,2-Dichloroethane-d4 (S)
- TP-17 (6) (Lab ID: 10457121033)
  - 1,2-Dichloroethane-d4 (S)
- TP-18 (3) (Lab ID: 10457121034)
  - 1,2-Dichloroethane-d4 (S)
- TP-19 (2) (Lab ID: 10457121036)
  - 1,2-Dichloroethane-d4 (S)

QC Batch: 592666

4M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- TP-19 (5) (Lab ID: 10457121037)
  - 1,2-Dichloroethane-d4 (S)
- TP-19 (8) (Lab ID: 10457121038)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

39 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- TP-10 (3) (Lab ID: 10457121018)
- TP-10 (7) (Lab ID: 10457121019)
- TP-11 (3) (Lab ID: 10457121020)
- TP-11 (6) (Lab ID: 10457121021)
- TP-13 (2) (Lab ID: 10457121024)
- TP-13 (5) (Lab ID: 10457121025)
- TP-14 (3) (Lab ID: 10457121026)
- TP-14 (6) (Lab ID: 10457121027)
- TP-15 (3) (Lab ID: 10457121028)
- TP-15 (8) (Lab ID: 10457121029)
- TP-16 (2) (Lab ID: 10457121030)
- TP-16 (8) (Lab ID: 10457121031)
- TP-17 (3) (Lab ID: 10457121032)
- TP-17 (6) (Lab ID: 10457121033)
- TP-18 (3) (Lab ID: 10457121034)
- TP-18 (6) (Lab ID: 10457121035)
- TP-19 (2) (Lab ID: 10457121036)
- TP-19 (5) (Lab ID: 10457121037)
- TP-19 (8) (Lab ID: 10457121038)
- TP-5 (3) (Lab ID: 10457121009)
- TP-5 (6) (Lab ID: 10457121010)
- TP-6 (2) (Lab ID: 10457121011)
- TP-6 (5) (Lab ID: 10457121012)
- TP-7 (2) (Lab ID: 10457121013)
- TP-7 (5) (Lab ID: 10457121014)
- TP-8 (7) (Lab ID: 10457121015)
- TP-9 (6) (Lab ID: 10457121016)
- TP-9 (8) (Lab ID: 10457121017)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 579279

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3142081)
  - Bromomethane
- MS (Lab ID: 3142082)
  - Bromomethane
- MSD (Lab ID: 3142083)
  - Bromomethane

QC Batch: 579622

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3143795)
  - Bromomethane
- MS (Lab ID: 3143796)
  - Bromomethane
- MSD (Lab ID: 3143797)
  - Bromomethane
- TP-1 (5) (Lab ID: 10457121002)
  - Bromomethane

QC Batch: 580108

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3146276)
  - Chloroethane
- MS (Lab ID: 3146277)
  - Chloroethane
- MSD (Lab ID: 3146278)
  - Chloroethane

QC Batch: 580299

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3147113)
  - Bromomethane
- MS (Lab ID: 3147114)
  - Bromomethane
- MSD (Lab ID: 3147115)
  - Bromomethane

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 580108

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3146276)

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 580108

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- Chloroethane
- MS (Lab ID: 3146277)
- Chloroethane
- MSD (Lab ID: 3146278)
- Chloroethane

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 579279

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579279 [MSV/4671 (Lab ID: 3142080)
- Acetone

QC Batch: 579622

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579622 [MSV/4673 (Lab ID: 3143794)
- Acetone

QC Batch: 579857

B: Analyte was detected in the associated method blank.

- BLANK for HBN 579857 [MSV/4676 (Lab ID: 3145268)
- Benzene

QC Batch: 580299

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580299 [MSV/4680 (Lab ID: 3147112)
- Acetone

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 3147112)
- Acetone

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 579279

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457226001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3142083)
  - trans-1,2-Dichloroethene

QC Batch: 579622

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3143796)
  - 1,2,4-Trichlorobenzene
  - 1,3,5-Trimethylbenzene
  - 1,3-Dichlorobenzene
  - 2-Chlorotoluene
  - 4-Chlorotoluene
  - Bromobenzene
  - Bromomethane
  - Dibromochloromethane
  - n-Butylbenzene
  - n-Propylbenzene
  - tert-Butylbenzene
- MSD (Lab ID: 3143797)
  - Chloroethane

QC Batch: 579857

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457121020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3145950)
  - 1,1,2,2-Tetrachloroethane
  - 1,3-Dichloropropane
  - 4-Chlorotoluene
  - Hexachloro-1,3-butadiene
  - Naphthalene
  - Styrene
  - n-Butylbenzene
  - sec-Butylbenzene
  - tert-Butylbenzene

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- MSD (Lab ID: 3146278)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,1-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,1,2-Trichloroethane

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- 1,1-Dichloroethane
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane (EDB)
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2-Butanone (MEK)
- 4-Chlorotoluene
- 4-Methyl-2-pentanone (MIBK)
- Acetone
- Allyl chloride
- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Chlorobenzene
- Chloroethane
- Chloroform
- Dibromomethane
- Diethyl ether (Ethyl ether)
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene (Cumene)
- Methyl-tert-butyl ether
- Methylene Chloride
- Naphthalene
- Styrene
- Tetrachloroethene
- Tetrahydrofuran
- Toluene
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- n-Butylbenzene
- n-Propylbenzene
- p-Isopropyltoluene

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 580108

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457092045

R1: RPD value was outside control limits.

- sec-Butylbenzene
- tert-Butylbenzene
- trans-1,2-Dichloroethene

QC Batch: 580299

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457854001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3147115)
- Acetone

### Additional Comments:

Analyte Comments:

QC Batch: 579279

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3142080)
  - Dichlorofluoromethane
- LCS (Lab ID: 3142081)
  - Dichlorofluoromethane
- MS (Lab ID: 3142082)
  - Dichlorofluoromethane
- MSD (Lab ID: 3142083)
  - Dichlorofluoromethane
- TP-2 (3) (Lab ID: 10457121003)
  - Dichlorofluoromethane
- TP-2 (6) (Lab ID: 10457121004)
  - Dichlorofluoromethane
- TP-3 (3) (Lab ID: 10457121005)
  - Dichlorofluoromethane
- TP-3 (6) (Lab ID: 10457121006)
  - Dichlorofluoromethane
- TP-4 (3) (Lab ID: 10457121007)
  - Dichlorofluoromethane
- TP-4 (6) (Lab ID: 10457121008)
  - Dichlorofluoromethane
- Trip Blanks (Lab ID: 10457121039)
  - Dichlorofluoromethane

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 579622

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3143794)
  - Dichlorofluoromethane
- LCS (Lab ID: 3143795)
  - Dichlorofluoromethane
- MS (Lab ID: 3143796)
  - Dichlorofluoromethane
- MSD (Lab ID: 3143797)
  - Dichlorofluoromethane
- TP-1 (5) (Lab ID: 10457121002)
  - Dichlorofluoromethane

QC Batch: 579856

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3145266)
  - Dichlorofluoromethane
- LCS (Lab ID: 3145267)
  - Dichlorofluoromethane
- MS (Lab ID: 3145434)
  - Dichlorofluoromethane
- MSD (Lab ID: 3145435)
  - Dichlorofluoromethane
- TP-5 (3) (Lab ID: 10457121009)
  - Dichlorofluoromethane
- TP-5 (6) (Lab ID: 10457121010)
  - Dichlorofluoromethane
- TP-6 (2) (Lab ID: 10457121011)
  - Dichlorofluoromethane
- TP-6 (5) (Lab ID: 10457121012)
  - Dichlorofluoromethane

QC Batch: 579857

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3145268)
  - Dichlorofluoromethane
- LCS (Lab ID: 3145269)
  - Dichlorofluoromethane
- MS (Lab ID: 3145949)
  - Dichlorofluoromethane
- MSD (Lab ID: 3145950)
  - Dichlorofluoromethane

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 579857

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- TP-10 (3) (Lab ID: 10457121018)
  - Dichlorofluoromethane
- TP-10 (7) (Lab ID: 10457121019)
  - Dichlorofluoromethane
- TP-11 (3) (Lab ID: 10457121020)
  - Dichlorofluoromethane
- TP-11 (6) (Lab ID: 10457121021)
  - Dichlorofluoromethane
- TP-7 (2) (Lab ID: 10457121013)
  - Dichlorofluoromethane
- TP-7 (5) (Lab ID: 10457121014)
  - Dichlorofluoromethane
- TP-8 (7) (Lab ID: 10457121015)
  - Dichlorofluoromethane
- TP-9 (6) (Lab ID: 10457121016)
  - Dichlorofluoromethane
- TP-9 (8) (Lab ID: 10457121017)
  - Dichlorofluoromethane

QC Batch: 580108

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3146275)
  - Dichlorofluoromethane
- LCS (Lab ID: 3146276)
  - Dichlorofluoromethane
- MS (Lab ID: 3146277)
  - Dichlorofluoromethane
- MSD (Lab ID: 3146278)
  - Dichlorofluoromethane
- TP-12 (2) (Lab ID: 10457121022)
  - Dichlorofluoromethane
- TP-12 (5) (Lab ID: 10457121023)
  - Dichlorofluoromethane

QC Batch: 580299

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3147112)
  - Dichlorofluoromethane
- LCS (Lab ID: 3147113)
  - Dichlorofluoromethane

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 580299

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MS (Lab ID: 3147114)
  - Dichlorofluoromethane
- MSD (Lab ID: 3147115)
  - Dichlorofluoromethane
- TP-13 (2) (Lab ID: 10457121024)
  - Dichlorofluoromethane
- TP-13 (5) (Lab ID: 10457121025)
  - Dichlorofluoromethane
- TP-14 (3) (Lab ID: 10457121026)
  - Dichlorofluoromethane
- TP-14 (6) (Lab ID: 10457121027)
  - Dichlorofluoromethane
- TP-15 (3) (Lab ID: 10457121028)
  - Dichlorofluoromethane
- TP-15 (8) (Lab ID: 10457121029)
  - Dichlorofluoromethane
- TP-16 (2) (Lab ID: 10457121030)
  - Dichlorofluoromethane
- TP-16 (8) (Lab ID: 10457121031)
  - Dichlorofluoromethane
- TP-17 (3) (Lab ID: 10457121032)
  - Dichlorofluoromethane
- TP-17 (6) (Lab ID: 10457121033)
  - Dichlorofluoromethane
- TP-18 (3) (Lab ID: 10457121034)
  - Dichlorofluoromethane
- TP-18 (6) (Lab ID: 10457121035)
  - Dichlorofluoromethane
- TP-19 (2) (Lab ID: 10457121036)
  - Dichlorofluoromethane
- TP-19 (5) (Lab ID: 10457121037)
  - Dichlorofluoromethane
- TP-19 (8) (Lab ID: 10457121038)
  - Dichlorofluoromethane

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 3147112)
  - Acetone

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (2)**      **Lab ID: 10457121001**      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<2.0	ug/kg	20.1	2.0	10	12/05/18 13:42	12/12/18 04:49	309-00-2	
alpha-BHC	<1.5	ug/kg	20.1	1.5	10	12/05/18 13:42	12/12/18 04:49	319-84-6	
beta-BHC	<2.7	ug/kg	20.1	2.7	10	12/05/18 13:42	12/12/18 04:49	319-85-7	
delta-BHC	<1.7	ug/kg	20.1	1.7	10	12/05/18 13:42	12/12/18 04:49	319-86-8	
gamma-BHC (Lindane)	<1.7	ug/kg	20.1	1.7	10	12/05/18 13:42	12/12/18 04:49	58-89-9	
Chlordane (Technical)	<36.6	ug/kg	201	36.6	10	12/05/18 13:42	12/12/18 04:49	57-74-9	
alpha-Chlordane	<1.6	ug/kg	20.1	1.6	10	12/05/18 13:42	12/12/18 04:49	5103-71-9	
gamma-Chlordane	<4.6	ug/kg	20.1	4.6	10	12/05/18 13:42	12/12/18 04:49	5103-74-2	
4,4'-DDD	<3.6	ug/kg	40.1	3.6	10	12/05/18 13:42	12/12/18 04:49	72-54-8	
4,4'-DDE	266	ug/kg	40.1	3.0	10	12/05/18 13:42	12/12/18 04:49	72-55-9	
4,4'-DDT	21.8J	ug/kg	40.1	5.0	10	12/05/18 13:42	12/12/18 04:49	50-29-3	
Dieldrin	<3.9	ug/kg	40.1	3.9	10	12/05/18 13:42	12/12/18 04:49	60-57-1	
Endosulfan I	<1.8	ug/kg	20.1	1.8	10	12/05/18 13:42	12/12/18 04:49	959-98-8	
Endosulfan II	<4.0	ug/kg	40.1	4.0	10	12/05/18 13:42	12/12/18 04:49	33213-65-9	
Endosulfan sulfate	<4.1	ug/kg	40.1	4.1	10	12/05/18 13:42	12/12/18 04:49	1031-07-8	
Endrin	<3.6	ug/kg	40.1	3.6	10	12/05/18 13:42	12/12/18 04:49	72-20-8	
Endrin aldehyde	<12.5	ug/kg	40.1	12.5	10	12/05/18 13:42	12/12/18 04:49	7421-93-4	
Endrin ketone	<4.7	ug/kg	40.1	4.7	10	12/05/18 13:42	12/12/18 04:49	53494-70-5	
Heptachlor	<2.2	ug/kg	20.1	2.2	10	12/05/18 13:42	12/12/18 04:49	76-44-8	
Heptachlor epoxide	<1.9	ug/kg	20.1	1.9	10	12/05/18 13:42	12/12/18 04:49	1024-57-3	
Methoxychlor	<30.2	ug/kg	201	30.2	10	12/05/18 13:42	12/12/18 04:49	72-43-5	
Toxaphene	<95.2	ug/kg	602	95.2	10	12/05/18 13:42	12/12/18 04:49	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	0	%	30-150		10	12/05/18 13:42	12/12/18 04:49	877-09-8	D4,S4
Decachlorobiphenyl (S)	0	%	30-150		10	12/05/18 13:42	12/12/18 04:49	2051-24-3	S4
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.1	ug/kg	39.7	11.1	1	12/05/18 09:53	12/10/18 18:05	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.0	ug/kg	39.7	14.0	1	12/05/18 09:53	12/10/18 18:05	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.9	ug/kg	39.7	15.9	1	12/05/18 09:53	12/10/18 18:05	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.5	ug/kg	39.7	13.5	1	12/05/18 09:53	12/10/18 18:05	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.9	ug/kg	39.7	11.9	1	12/05/18 09:53	12/10/18 18:05	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.7	ug/kg	39.7	11.7	1	12/05/18 09:53	12/10/18 18:05	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.5	ug/kg	39.7	9.5	1	12/05/18 09:53	12/10/18 18:05	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	80	%	48-125		1	12/05/18 09:53	12/10/18 18:05	877-09-8	
Decachlorobiphenyl (S)	95	%	30-134		1	12/05/18 09:53	12/10/18 18:05	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	18.0	2.9	1	12/03/18 14:49	12/10/18 20:00	68334-30-5	
Motor Oil Range	8.5J	mg/kg	12.0	5.2	1	12/03/18 14:49	12/10/18 20:00		
<b>Surrogates</b>									
n-Triacontane (S)	95	%	50-150		1	12/03/18 14:49	12/10/18 20:00	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/03/18 14:49	12/10/18 20:00	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample:** TP-1 (2)      **Lab ID:** 10457121001      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.76	mg/kg	5.8	0.76	1	12/07/18 15:19	12/07/18 22:00		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	69	%	50-150		1	12/07/18 15:19	12/07/18 22:00	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	6.0	2.2	5	12/06/18 14:27	12/10/18 12:20	7440-36-0	D3,M1, R1
Arsenic	1.7J	mg/kg	6.0	1.2	5	12/06/18 14:27	12/10/18 12:20	7440-38-2	D3,M1, R1
Beryllium	0.62J	mg/kg	1.5	0.080	5	12/06/18 14:27	12/10/18 12:20	7440-41-7	D3,R1
Cadmium	<0.12	mg/kg	0.89	0.12	5	12/06/18 14:27	12/10/18 12:20	7440-43-9	D3,R1
Chromium	7.6	mg/kg	3.0	0.51	5	12/06/18 14:27	12/10/18 12:20	7440-47-3	R1
Copper	14.6	mg/kg	3.0	0.33	5	12/06/18 14:27	12/10/18 12:20	7440-50-8	R1
Lead	9.3	mg/kg	3.0	0.67	5	12/06/18 14:27	12/10/18 12:20	7439-92-1	
Nickel	5.6J	mg/kg	6.0	0.38	5	12/06/18 14:27	12/10/18 12:20	7440-02-0	D3,R1
Selenium	<2.0	mg/kg	6.0	2.0	5	12/06/18 14:27	12/10/18 12:20	7782-49-2	D3,M1, R1
Silver	<0.043	mg/kg	0.60	0.043	1	12/06/18 14:27	12/07/18 18:14	7440-22-4	M1
Thallium	<1.4	mg/kg	6.0	1.4	5	12/06/18 14:27	12/10/18 12:20	7440-28-0	D3,M1, R1
Zinc	68.0	mg/kg	6.0	2.6	5	12/06/18 14:27	12/10/18 12:20	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.034	mg/kg	0.022	0.0088	1	12/06/18 14:29	12/12/18 15:13	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.0	%	0.10	0.10	1		12/12/18 10:21		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<42.3	ug/kg	397	42.3	1	12/03/18 15:17	12/04/18 18:41	83-32-9	
Acenaphthylene	<50.6	ug/kg	397	50.6	1	12/03/18 15:17	12/04/18 18:41	208-96-8	
Anthracene	<46.6	ug/kg	397	46.6	1	12/03/18 15:17	12/04/18 18:41	120-12-7	
Benzo(a)anthracene	<40.8	ug/kg	397	40.8	1	12/03/18 15:17	12/04/18 18:41	56-55-3	
Benzo(a)pyrene	<45.0	ug/kg	397	45.0	1	12/03/18 15:17	12/04/18 18:41	50-32-8	
Benzo(b)fluoranthene	<38.9	ug/kg	397	38.9	1	12/03/18 15:17	12/04/18 18:41	205-99-2	
Benzo(g,h,i)perylene	<42.5	ug/kg	397	42.5	1	12/03/18 15:17	12/04/18 18:41	191-24-2	
Benzo(k)fluoranthene	<49.6	ug/kg	397	49.6	1	12/03/18 15:17	12/04/18 18:41	207-08-9	
4-Bromophenylphenyl ether	<47.3	ug/kg	397	47.3	1	12/03/18 15:17	12/04/18 18:41	101-55-3	
Butylbenzylphthalate	<36.3	ug/kg	397	36.3	1	12/03/18 15:17	12/04/18 18:41	85-68-7	
Carbazole	<33.0	ug/kg	397	33.0	1	12/03/18 15:17	12/04/18 18:41	86-74-8	
4-Chloro-3-methylphenol	<63.5	ug/kg	397	63.5	1	12/03/18 15:17	12/04/18 18:41	59-50-7	
4-Chloroaniline	<106	ug/kg	397	106	1	12/03/18 15:17	12/04/18 18:41	106-47-8	
bis(2-Chloroethoxy)methane	<40.7	ug/kg	397	40.7	1	12/03/18 15:17	12/04/18 18:41	111-91-1	
bis(2-Chloroethyl) ether	<31.4	ug/kg	397	31.4	1	12/03/18 15:17	12/04/18 18:41	111-44-4	
bis(2-Chloroisopropyl) ether	<40.9	ug/kg	397	40.9	1	12/03/18 15:17	12/04/18 18:41	108-60-1	
2-Chloronaphthalene	<35.1	ug/kg	397	35.1	1	12/03/18 15:17	12/04/18 18:41	91-58-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (2)**      **Lab ID: 10457121001**      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2-Chlorophenol	<45.2	ug/kg	397	45.2	1	12/03/18 15:17	12/04/18 18:41	95-57-8	
4-Chlorophenylphenyl ether	<49.2	ug/kg	397	49.2	1	12/03/18 15:17	12/04/18 18:41	7005-72-3	
Chrysene	<41.9	ug/kg	397	41.9	1	12/03/18 15:17	12/04/18 18:41	218-01-9	
Dibenz(a,h)anthracene	<42.2	ug/kg	397	42.2	1	12/03/18 15:17	12/04/18 18:41	53-70-3	
Dibenzofuran	<50.3	ug/kg	397	50.3	1	12/03/18 15:17	12/04/18 18:41	132-64-9	
1,2-Dichlorobenzene	<41.6	ug/kg	397	41.6	1	12/03/18 15:17	12/04/18 18:41	95-50-1	
1,3-Dichlorobenzene	<27.2	ug/kg	397	27.2	1	12/03/18 15:17	12/04/18 18:41	541-73-1	
1,4-Dichlorobenzene	<44.1	ug/kg	397	44.1	1	12/03/18 15:17	12/04/18 18:41	106-46-7	
3,3'-Dichlorobenzidine	<133	ug/kg	397	133	1	12/03/18 15:17	12/04/18 18:41	91-94-1	
2,4-Dichlorophenol	<66.3	ug/kg	397	66.3	1	12/03/18 15:17	12/04/18 18:41	120-83-2	
Diethylphthalate	<35.4	ug/kg	397	35.4	1	12/03/18 15:17	12/04/18 18:41	84-66-2	
2,4-Dimethylphenol	<155	ug/kg	397	155	1	12/03/18 15:17	12/04/18 18:41	105-67-9	
Dimethylphthalate	<53.9	ug/kg	397	53.9	1	12/03/18 15:17	12/04/18 18:41	131-11-3	
Di-n-butylphthalate	<54.4	ug/kg	397	54.4	1	12/03/18 15:17	12/04/18 18:41	84-74-2	
4,6-Dinitro-2-methylphenol	<393	ug/kg	2040	393	1	12/03/18 15:17	12/04/18 18:41	534-52-1	
2,4-Dinitrophenol	<185	ug/kg	397	185	1	12/03/18 15:17	12/04/18 18:41	51-28-5	
2,4-Dinitrotoluene	<50.5	ug/kg	397	50.5	1	12/03/18 15:17	12/04/18 18:41	121-14-2	
2,6-Dinitrotoluene	<52.6	ug/kg	397	52.6	1	12/03/18 15:17	12/04/18 18:41	606-20-2	
Di-n-octylphthalate	<46.1	ug/kg	397	46.1	1	12/03/18 15:17	12/04/18 18:41	117-84-0	
1,2-Diphenylhydrazine	<48.7	ug/kg	397	48.7	1	12/03/18 15:17	12/04/18 18:41	122-66-7	
bis(2-Ethylhexyl)phthalate	<82.8	ug/kg	397	82.8	1	12/03/18 15:17	12/04/18 18:41	117-81-7	
Fluoranthene	<45.6	ug/kg	397	45.6	1	12/03/18 15:17	12/04/18 18:41	206-44-0	
Fluorene	<182	ug/kg	397	182	1	12/03/18 15:17	12/04/18 18:41	86-73-7	
Hexachloro-1,3-butadiene	<60.4	ug/kg	397	60.4	1	12/03/18 15:17	12/04/18 18:41	87-68-3	
Hexachlorobenzene	<64.7	ug/kg	397	64.7	1	12/03/18 15:17	12/04/18 18:41	118-74-1	
Hexachloroethane	<51.6	ug/kg	397	51.6	1	12/03/18 15:17	12/04/18 18:41	67-72-1	
Indeno(1,2,3-cd)pyrene	<23.9	ug/kg	397	23.9	1	12/03/18 15:17	12/04/18 18:41	193-39-5	
Isophorone	<30.6	ug/kg	397	30.6	1	12/03/18 15:17	12/04/18 18:41	78-59-1	
1-Methylnaphthalene	<36.7	ug/kg	397	36.7	1	12/03/18 15:17	12/04/18 18:41	90-12-0	
2-Methylnaphthalene	<35.8	ug/kg	397	35.8	1	12/03/18 15:17	12/04/18 18:41	91-57-6	
2-Methylphenol(o-Cresol)	<24.8	ug/kg	397	24.8	1	12/03/18 15:17	12/04/18 18:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.4	ug/kg	794	22.4	1	12/03/18 15:17	12/04/18 18:41		
Naphthalene	<30.6	ug/kg	397	30.6	1	12/03/18 15:17	12/04/18 18:41	91-20-3	
2-Nitroaniline	<99.6	ug/kg	397	99.6	1	12/03/18 15:17	12/04/18 18:41	88-74-4	
3-Nitroaniline	<43.3	ug/kg	397	43.3	1	12/03/18 15:17	12/04/18 18:41	99-09-2	
4-Nitroaniline	<58.0	ug/kg	397	58.0	1	12/03/18 15:17	12/04/18 18:41	100-01-6	
Nitrobenzene	<43.7	ug/kg	397	43.7	1	12/03/18 15:17	12/04/18 18:41	98-95-3	
2-Nitrophenol	<48.4	ug/kg	397	48.4	1	12/03/18 15:17	12/04/18 18:41	88-75-5	
4-Nitrophenol	<77.0	ug/kg	397	77.0	1	12/03/18 15:17	12/04/18 18:41	100-02-7	
N-Nitrosodimethylamine	<48.7	ug/kg	397	48.7	1	12/03/18 15:17	12/04/18 18:41	62-75-9	
N-Nitroso-di-n-propylamine	<182	ug/kg	397	182	1	12/03/18 15:17	12/04/18 18:41	621-64-7	
N-Nitrosodiphenylamine	<25.7	ug/kg	397	25.7	1	12/03/18 15:17	12/04/18 18:41	86-30-6	
Pentachlorophenol	<232	ug/kg	806	232	1	12/03/18 15:17	12/04/18 18:41	87-86-5	
Phenanthrene	<46.2	ug/kg	397	46.2	1	12/03/18 15:17	12/04/18 18:41	85-01-8	
Phenol	<26.0	ug/kg	397	26.0	1	12/03/18 15:17	12/04/18 18:41	108-95-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (2)**      **Lab ID: 10457121001**      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Pyrene	<30.2	ug/kg	397	30.2	1	12/03/18 15:17	12/04/18 18:41	129-00-0	
1,2,4-Trichlorobenzene	<43.5	ug/kg	397	43.5	1	12/03/18 15:17	12/04/18 18:41	120-82-1	
2,4,5-Trichlorophenol	<51.1	ug/kg	397	51.1	1	12/03/18 15:17	12/04/18 18:41	95-95-4	
2,4,6-Trichlorophenol	<61.5	ug/kg	397	61.5	1	12/03/18 15:17	12/04/18 18:41	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	61	%	43-125		1	12/03/18 15:17	12/04/18 18:41	4165-60-0	
2-Fluorobiphenyl (S)	57	%	30-132		1	12/03/18 15:17	12/04/18 18:41	321-60-8	
p-Terphenyl-d14 (S)	77	%	62-125		1	12/03/18 15:17	12/04/18 18:41	1718-51-0	
Phenol-d6 (S)	62	%	48-125		1	12/03/18 15:17	12/04/18 18:41	13127-88-3	
2-Fluorophenol (S)	58	%	40-125		1	12/03/18 15:17	12/04/18 18:41	367-12-4	
2,4,6-Tribromophenol (S)	73	%	60-125		1	12/03/18 15:17	12/04/18 18:41	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.7	0.27	1	03/04/19 09:00	03/04/19 15:02	106-93-4	
Methylene Chloride	<4.4	ug/kg	23.7	4.4	1	03/04/19 09:00	03/04/19 15:02	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	123	%	75-125		1	03/04/19 09:00	03/04/19 15:02	17060-07-0	4M, H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 15:02	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	03/04/19 09:00	03/04/19 15:02	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<384	ug/kg	1230	384	1	12/06/18 13:46	12/07/18 05:09	67-64-1	
Allyl chloride	<51.7	ug/kg	247	51.7	1	12/06/18 13:46	12/07/18 05:09	107-05-1	
Benzene	<3.5	ug/kg	24.7	3.5	1	12/06/18 13:46	12/07/18 05:09	71-43-2	
Bromobenzene	<3.8	ug/kg	61.7	3.8	1	12/06/18 13:46	12/07/18 05:09	108-86-1	
Bromochloromethane	<21.3	ug/kg	61.7	21.3	1	12/06/18 13:46	12/07/18 05:09	74-97-5	
Bromodichloromethane	<21.1	ug/kg	61.7	21.1	1	12/06/18 13:46	12/07/18 05:09	75-27-4	
Bromoform	<93.4	ug/kg	247	93.4	1	12/06/18 13:46	12/07/18 05:09	75-25-2	
Bromomethane	<72.2	ug/kg	617	72.2	1	12/06/18 13:46	12/07/18 05:09	74-83-9	
2-Butanone (MEK)	<32.8	ug/kg	308	32.8	1	12/06/18 13:46	12/07/18 05:09	78-93-3	
n-Butylbenzene	<29.4	ug/kg	61.7	29.4	1	12/06/18 13:46	12/07/18 05:09	104-51-8	
sec-Butylbenzene	<11.8	ug/kg	61.7	11.8	1	12/06/18 13:46	12/07/18 05:09	135-98-8	
tert-Butylbenzene	<11.8	ug/kg	61.7	11.8	1	12/06/18 13:46	12/07/18 05:09	98-06-6	
Carbon tetrachloride	<29.5	ug/kg	61.7	29.5	1	12/06/18 13:46	12/07/18 05:09	56-23-5	
Chlorobenzene	<3.5	ug/kg	61.7	3.5	1	12/06/18 13:46	12/07/18 05:09	108-90-7	
Chloroethane	<32.1	ug/kg	617	32.1	1	12/06/18 13:46	12/07/18 05:09	75-00-3	
Chloroform	<30.8	ug/kg	61.7	30.8	1	12/06/18 13:46	12/07/18 05:09	67-66-3	
Chloromethane	<14.8	ug/kg	247	14.8	1	12/06/18 13:46	12/07/18 05:09	74-87-3	
2-Chlorotoluene	<3.0	ug/kg	61.7	3.0	1	12/06/18 13:46	12/07/18 05:09	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	61.7	3.2	1	12/06/18 13:46	12/07/18 05:09	106-43-4	
1,2-Dibromo-3-chloropropane	<215	ug/kg	617	215	1	12/06/18 13:46	12/07/18 05:09	96-12-8	
Dibromochloromethane	<7.2	ug/kg	247	7.2	1	12/06/18 13:46	12/07/18 05:09	124-48-1	
1,2-Dibromoethane (EDB)	<6.5	ug/kg	61.7	6.5	1	12/06/18 13:46	12/07/18 05:09	106-93-4	
Dibromomethane	<11.3	ug/kg	61.7	11.3	1	12/06/18 13:46	12/07/18 05:09	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/kg	61.7	2.5	1	12/06/18 13:46	12/07/18 05:09	95-50-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (2)**      **Lab ID: 10457121001**      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<2.2	ug/kg	61.7	2.2	1	12/06/18 13:46	12/07/18 05:09	541-73-1	
1,4-Dichlorobenzene	<3.8	ug/kg	61.7	3.8	1	12/06/18 13:46	12/07/18 05:09	106-46-7	
Dichlorodifluoromethane	<20.0	ug/kg	247	20.0	1	12/06/18 13:46	12/07/18 05:09	75-71-8	
1,1-Dichloroethane	<6.9	ug/kg	61.7	6.9	1	12/06/18 13:46	12/07/18 05:09	75-34-3	
1,2-Dichloroethane	<6.8	ug/kg	61.7	6.8	1	12/06/18 13:46	12/07/18 05:09	107-06-2	
1,1-Dichloroethene	<18.5	ug/kg	247	18.5	1	12/06/18 13:46	12/07/18 05:09	75-35-4	
cis-1,2-Dichloroethene	<10.2	ug/kg	61.7	10.2	1	12/06/18 13:46	12/07/18 05:09	156-59-2	
trans-1,2-Dichloroethene	<28.9	ug/kg	61.7	28.9	1	12/06/18 13:46	12/07/18 05:09	156-60-5	
1,2-Dichloropropane	<10.6	ug/kg	61.7	10.6	1	12/06/18 13:46	12/07/18 05:09	78-87-5	
1,3-Dichloropropane	<8.5	ug/kg	61.7	8.5	1	12/06/18 13:46	12/07/18 05:09	142-28-9	
2,2-Dichloropropane	<7.7	ug/kg	247	7.7	1	12/06/18 13:46	12/07/18 05:09	594-20-7	
1,1-Dichloropropene	<28.5	ug/kg	61.7	28.5	1	12/06/18 13:46	12/07/18 05:09	563-58-6	
cis-1,3-Dichloropropene	<8.8	ug/kg	61.7	8.8	1	12/06/18 13:46	12/07/18 05:09	10061-01-5	
trans-1,3-Dichloropropene	<8.6	ug/kg	61.7	8.6	1	12/06/18 13:46	12/07/18 05:09	10061-02-6	
Diethyl ether (Ethyl ether)	<37.8	ug/kg	247	37.8	1	12/06/18 13:46	12/07/18 05:09	60-29-7	
Ethylbenzene	<3.4	ug/kg	61.7	3.4	1	12/06/18 13:46	12/07/18 05:09	100-41-4	
Hexachloro-1,3-butadiene	<15.1	ug/kg	308	15.1	1	12/06/18 13:46	12/07/18 05:09	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	61.7	2.7	1	12/06/18 13:46	12/07/18 05:09	98-82-8	
p-Isopropyltoluene	<18.8	ug/kg	61.7	18.8	1	12/06/18 13:46	12/07/18 05:09	99-87-6	
Methylene Chloride	<116	ug/kg	247	116	1	12/06/18 13:46	12/07/18 05:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.8	ug/kg	308	12.8	1	12/06/18 13:46	12/07/18 05:09	108-10-1	
Methyl-tert-butyl ether	<7.3	ug/kg	61.7	7.3	1	12/06/18 13:46	12/07/18 05:09	1634-04-4	
Naphthalene	<57.7	ug/kg	247	57.7	1	12/06/18 13:46	12/07/18 05:09	91-20-3	
n-Propylbenzene	<3.3	ug/kg	61.7	3.3	1	12/06/18 13:46	12/07/18 05:09	103-65-1	
Styrene	<2.8	ug/kg	61.7	2.8	1	12/06/18 13:46	12/07/18 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	<19.4	ug/kg	61.7	19.4	1	12/06/18 13:46	12/07/18 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	<10.9	ug/kg	247	10.9	1	12/06/18 13:46	12/07/18 05:09	79-34-5	
Tetrachloroethene	<21.7	ug/kg	61.7	21.7	1	12/06/18 13:46	12/07/18 05:09	127-18-4	
Tetrahydrofuran	<89.7	ug/kg	2470	89.7	1	12/06/18 13:46	12/07/18 05:09	109-99-9	
Toluene	<15.1	ug/kg	61.7	15.1	1	12/06/18 13:46	12/07/18 05:09	108-88-3	
1,2,3-Trichlorobenzene	<9.9	ug/kg	61.7	9.9	1	12/06/18 13:46	12/07/18 05:09	87-61-6	
1,2,4-Trichlorobenzene	<13.7	ug/kg	61.7	13.7	1	12/06/18 13:46	12/07/18 05:09	120-82-1	
1,1,1-Trichloroethane	<28.7	ug/kg	61.7	28.7	1	12/06/18 13:46	12/07/18 05:09	71-55-6	
1,1,2-Trichloroethane	<7.4	ug/kg	61.7	7.4	1	12/06/18 13:46	12/07/18 05:09	79-00-5	
Trichloroethene	<9.5	ug/kg	61.7	9.5	1	12/06/18 13:46	12/07/18 05:09	79-01-6	
Trichlorofluoromethane	<108	ug/kg	247	108	1	12/06/18 13:46	12/07/18 05:09	75-69-4	
1,2,3-Trichloropropane	<16.2	ug/kg	247	16.2	1	12/06/18 13:46	12/07/18 05:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	<71.6	ug/kg	247	71.6	1	12/06/18 13:46	12/07/18 05:09	76-13-1	
1,2,4-Trimethylbenzene	<12.3	ug/kg	61.7	12.3	1	12/06/18 13:46	12/07/18 05:09	95-63-6	
1,3,5-Trimethylbenzene	<9.8	ug/kg	61.7	9.8	1	12/06/18 13:46	12/07/18 05:09	108-67-8	
Vinyl chloride	<12.1	ug/kg	61.7	12.1	1	12/06/18 13:46	12/07/18 05:09	75-01-4	
Xylene (Total)	<14.3	ug/kg	185	14.3	1	12/06/18 13:46	12/07/18 05:09	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/06/18 13:46	12/07/18 05:09	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 05:09	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (2)**      **Lab ID: 10457121001**      Collected: 11/26/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 05:09	460-00-4	

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<2.0	ug/kg	20.2	2.0	10	12/05/18 13:42	12/12/18 05:07	309-00-2	
alpha-BHC	<1.5	ug/kg	20.2	1.5	10	12/05/18 13:42	12/12/18 05:07	319-84-6	
beta-BHC	<2.7	ug/kg	20.2	2.7	10	12/05/18 13:42	12/12/18 05:07	319-85-7	
delta-BHC	<1.7	ug/kg	20.2	1.7	10	12/05/18 13:42	12/12/18 05:07	319-86-8	
gamma-BHC (Lindane)	<1.7	ug/kg	20.2	1.7	10	12/05/18 13:42	12/12/18 05:07	58-89-9	
Chlordane (Technical)	<36.7	ug/kg	202	36.7	10	12/05/18 13:42	12/12/18 05:07	57-74-9	
alpha-Chlordane	<1.6	ug/kg	20.2	1.6	10	12/05/18 13:42	12/12/18 05:07	5103-71-9	
gamma-Chlordane	<4.6	ug/kg	20.2	4.6	10	12/05/18 13:42	12/12/18 05:07	5103-74-2	
4,4'-DDD	<3.7	ug/kg	40.2	3.7	10	12/05/18 13:42	12/12/18 05:07	72-54-8	
4,4'-DDE	196	ug/kg	40.2	3.0	10	12/05/18 13:42	12/12/18 05:07	72-55-9	
4,4'-DDT	45.3	ug/kg	40.2	5.1	10	12/05/18 13:42	12/12/18 05:07	50-29-3	
Dieldrin	<3.9	ug/kg	40.2	3.9	10	12/05/18 13:42	12/12/18 05:07	60-57-1	
Endosulfan I	<1.8	ug/kg	20.2	1.8	10	12/05/18 13:42	12/12/18 05:07	959-98-8	
Endosulfan II	<4.1	ug/kg	40.2	4.1	10	12/05/18 13:42	12/12/18 05:07	33213-65-9	
Endosulfan sulfate	<4.1	ug/kg	40.2	4.1	10	12/05/18 13:42	12/12/18 05:07	1031-07-8	
Endrin	<3.6	ug/kg	40.2	3.6	10	12/05/18 13:42	12/12/18 05:07	72-20-8	
Endrin aldehyde	<12.6	ug/kg	40.2	12.6	10	12/05/18 13:42	12/12/18 05:07	7421-93-4	
Endrin ketone	<4.8	ug/kg	40.2	4.8	10	12/05/18 13:42	12/12/18 05:07	53494-70-5	
Heptachlor	<2.2	ug/kg	20.2	2.2	10	12/05/18 13:42	12/12/18 05:07	76-44-8	
Heptachlor epoxide	2.6J	ug/kg	20.2	1.9	10	12/05/18 13:42	12/12/18 05:07	1024-57-3	
Methoxychlor	<30.3	ug/kg	202	30.3	10	12/05/18 13:42	12/12/18 05:07	72-43-5	
Toxaphene	<95.5	ug/kg	604	95.5	10	12/05/18 13:42	12/12/18 05:07	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	0	%	30-150		10	12/05/18 13:42	12/12/18 05:07	877-09-8	D4,S4
Decachlorobiphenyl (S)	0	%	30-150		10	12/05/18 13:42	12/12/18 05:07	2051-24-3	S4

**8082A GCS PCB**

Analytical Method: EPA 8082A    Preparation Method: EPA 3550

PCB-1016 (Aroclor 1016)	<11.1	ug/kg	39.9	11.1	1	12/05/18 09:53	12/10/18 18:21	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.0	ug/kg	39.9	14.0	1	12/05/18 09:53	12/10/18 18:21	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	39.9	16.0	1	12/05/18 09:53	12/10/18 18:21	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.5	ug/kg	39.9	13.5	1	12/05/18 09:53	12/10/18 18:21	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	39.9	12.0	1	12/05/18 09:53	12/10/18 18:21	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.7	ug/kg	39.9	11.7	1	12/05/18 09:53	12/10/18 18:21	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.5	ug/kg	39.9	9.5	1	12/05/18 09:53	12/10/18 18:21	11096-82-5	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/05/18 09:53	12/10/18 18:21	877-09-8	
Decachlorobiphenyl (S)	94	%	30-134		1	12/05/18 09:53	12/10/18 18:21	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	17.8	2.9	1	12/03/18 14:49	12/10/18 20:11	68334-30-5	
Motor Oil Range	<5.2	mg/kg	11.9	5.2	1	12/03/18 14:49	12/10/18 20:11		
<b>Surrogates</b>									
n-Triacontane (S)	88	%	50-150		1	12/03/18 14:49	12/10/18 20:11	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/03/18 14:49	12/10/18 20:11	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.79	mg/kg	6.0	0.79	1	12/07/18 15:19	12/07/18 22:34		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	76	%	50-150		1	12/07/18 15:19	12/07/18 22:34	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.46	mg/kg	1.2	0.46	1	12/06/18 14:27	12/07/18 18:35	7440-36-0	
Arsenic	1.3	mg/kg	1.2	0.25	1	12/06/18 14:27	12/07/18 18:35	7440-38-2	
Beryllium	0.45	mg/kg	0.30	0.016	1	12/06/18 14:27	12/07/18 18:35	7440-41-7	
Cadmium	0.076J	mg/kg	0.18	0.024	1	12/06/18 14:27	12/07/18 18:35	7440-43-9	
Chromium	6.3	mg/kg	0.61	0.10	1	12/06/18 14:27	12/07/18 18:35	7440-47-3	
Copper	14.2	mg/kg	0.61	0.067	1	12/06/18 14:27	12/07/18 18:35	7440-50-8	
Lead	10.2	mg/kg	0.61	0.14	1	12/06/18 14:27	12/07/18 18:35	7439-92-1	
Nickel	4.7	mg/kg	1.2	0.076	1	12/06/18 14:27	12/07/18 18:35	7440-02-0	
Selenium	<0.40	mg/kg	1.2	0.40	1	12/06/18 14:27	12/07/18 18:35	7782-49-2	
Silver	0.098J	mg/kg	0.61	0.044	1	12/06/18 14:27	12/07/18 18:35	7440-22-4	
Thallium	<0.28	mg/kg	1.2	0.28	1	12/06/18 14:27	12/07/18 18:35	7440-28-0	
Zinc	58.4	mg/kg	1.2	0.53	1	12/06/18 14:27	12/07/18 18:35	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.049	mg/kg	0.024	0.0097	1	12/06/18 14:29	12/12/18 15:19	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.5	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<42.6	ug/kg	399	42.6	1	12/03/18 15:17	12/04/18 20:09	83-32-9	
Acenaphthylene	<51.0	ug/kg	399	51.0	1	12/03/18 15:17	12/04/18 20:09	208-96-8	
Anthracene	<46.8	ug/kg	399	46.8	1	12/03/18 15:17	12/04/18 20:09	120-12-7	
Benzo(a)anthracene	<41.0	ug/kg	399	41.0	1	12/03/18 15:17	12/04/18 20:09	56-55-3	
Benzo(a)pyrene	<45.3	ug/kg	399	45.3	1	12/03/18 15:17	12/04/18 20:09	50-32-8	
Benzo(b)fluoranthene	<39.1	ug/kg	399	39.1	1	12/03/18 15:17	12/04/18 20:09	205-99-2	
Benzo(g,h,i)perylene	<42.7	ug/kg	399	42.7	1	12/03/18 15:17	12/04/18 20:09	191-24-2	
Benzo(k)fluoranthene	<49.9	ug/kg	399	49.9	1	12/03/18 15:17	12/04/18 20:09	207-08-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
4-Bromophenylphenyl ether	<47.6	ug/kg	399	47.6	1	12/03/18 15:17	12/04/18 20:09	101-55-3	
Butylbenzylphthalate	<36.6	ug/kg	399	36.6	1	12/03/18 15:17	12/04/18 20:09	85-68-7	
Carbazole	<33.2	ug/kg	399	33.2	1	12/03/18 15:17	12/04/18 20:09	86-74-8	
4-Chloro-3-methylphenol	<63.9	ug/kg	399	63.9	1	12/03/18 15:17	12/04/18 20:09	59-50-7	
4-Chloroaniline	<106	ug/kg	399	106	1	12/03/18 15:17	12/04/18 20:09	106-47-8	
bis(2-Chloroethoxy)methane	<40.9	ug/kg	399	40.9	1	12/03/18 15:17	12/04/18 20:09	111-91-1	
bis(2-Chloroethyl) ether	<31.6	ug/kg	399	31.6	1	12/03/18 15:17	12/04/18 20:09	111-44-4	
bis(2-Chloroisopropyl) ether	<41.2	ug/kg	399	41.2	1	12/03/18 15:17	12/04/18 20:09	108-60-1	
2-Chloronaphthalene	<35.3	ug/kg	399	35.3	1	12/03/18 15:17	12/04/18 20:09	91-58-7	
2-Chlorophenol	<45.5	ug/kg	399	45.5	1	12/03/18 15:17	12/04/18 20:09	95-57-8	
4-Chlorophenylphenyl ether	<49.5	ug/kg	399	49.5	1	12/03/18 15:17	12/04/18 20:09	7005-72-3	
Chrysene	<42.1	ug/kg	399	42.1	1	12/03/18 15:17	12/04/18 20:09	218-01-9	
Dibenz(a,h)anthracene	<42.5	ug/kg	399	42.5	1	12/03/18 15:17	12/04/18 20:09	53-70-3	
Dibenzofuran	<50.6	ug/kg	399	50.6	1	12/03/18 15:17	12/04/18 20:09	132-64-9	
1,2-Dichlorobenzene	<41.9	ug/kg	399	41.9	1	12/03/18 15:17	12/04/18 20:09	95-50-1	
1,3-Dichlorobenzene	<27.4	ug/kg	399	27.4	1	12/03/18 15:17	12/04/18 20:09	541-73-1	
1,4-Dichlorobenzene	<44.4	ug/kg	399	44.4	1	12/03/18 15:17	12/04/18 20:09	106-46-7	
3,3'-Dichlorobenzidine	<134	ug/kg	399	134	1	12/03/18 15:17	12/04/18 20:09	91-94-1	
2,4-Dichlorophenol	<66.7	ug/kg	399	66.7	1	12/03/18 15:17	12/04/18 20:09	120-83-2	
Diethylphthalate	<35.6	ug/kg	399	35.6	1	12/03/18 15:17	12/04/18 20:09	84-66-2	
2,4-Dimethylphenol	<156	ug/kg	399	156	1	12/03/18 15:17	12/04/18 20:09	105-67-9	
Dimethylphthalate	<54.2	ug/kg	399	54.2	1	12/03/18 15:17	12/04/18 20:09	131-11-3	
Di-n-butylphthalate	<54.7	ug/kg	399	54.7	1	12/03/18 15:17	12/04/18 20:09	84-74-2	
4,6-Dinitro-2-methylphenol	<396	ug/kg	2060	396	1	12/03/18 15:17	12/04/18 20:09	534-52-1	
2,4-Dinitrophenol	<186	ug/kg	399	186	1	12/03/18 15:17	12/04/18 20:09	51-28-5	
2,4-Dinitrotoluene	<50.8	ug/kg	399	50.8	1	12/03/18 15:17	12/04/18 20:09	121-14-2	
2,6-Dinitrotoluene	<52.9	ug/kg	399	52.9	1	12/03/18 15:17	12/04/18 20:09	606-20-2	
Di-n-octylphthalate	<46.4	ug/kg	399	46.4	1	12/03/18 15:17	12/04/18 20:09	117-84-0	
1,2-Diphenylhydrazine	<49.0	ug/kg	399	49.0	1	12/03/18 15:17	12/04/18 20:09	122-66-7	
bis(2-Ethylhexyl)phthalate	<83.3	ug/kg	399	83.3	1	12/03/18 15:17	12/04/18 20:09	117-81-7	
Fluoranthene	<45.9	ug/kg	399	45.9	1	12/03/18 15:17	12/04/18 20:09	206-44-0	
Fluorene	<183	ug/kg	399	183	1	12/03/18 15:17	12/04/18 20:09	86-73-7	
Hexachloro-1,3-butadiene	<60.8	ug/kg	399	60.8	1	12/03/18 15:17	12/04/18 20:09	87-68-3	
Hexachlorobenzene	<65.1	ug/kg	399	65.1	1	12/03/18 15:17	12/04/18 20:09	118-74-1	
Hexachloroethane	<51.9	ug/kg	399	51.9	1	12/03/18 15:17	12/04/18 20:09	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.1	ug/kg	399	24.1	1	12/03/18 15:17	12/04/18 20:09	193-39-5	
Isophorone	<30.7	ug/kg	399	30.7	1	12/03/18 15:17	12/04/18 20:09	78-59-1	
1-Methylnaphthalene	<36.9	ug/kg	399	36.9	1	12/03/18 15:17	12/04/18 20:09	90-12-0	
2-Methylnaphthalene	<36.1	ug/kg	399	36.1	1	12/03/18 15:17	12/04/18 20:09	91-57-6	
2-Methylphenol(o-Cresol)	<24.9	ug/kg	399	24.9	1	12/03/18 15:17	12/04/18 20:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.5	ug/kg	799	22.5	1	12/03/18 15:17	12/04/18 20:09		
Naphthalene	<30.7	ug/kg	399	30.7	1	12/03/18 15:17	12/04/18 20:09	91-20-3	
2-Nitroaniline	<100	ug/kg	399	100	1	12/03/18 15:17	12/04/18 20:09	88-74-4	
3-Nitroaniline	<43.6	ug/kg	399	43.6	1	12/03/18 15:17	12/04/18 20:09	99-09-2	
4-Nitroaniline	<58.3	ug/kg	399	58.3	1	12/03/18 15:17	12/04/18 20:09	100-01-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Nitrobenzene	<43.9	ug/kg	399	43.9	1	12/03/18 15:17	12/04/18 20:09	98-95-3	
2-Nitrophenol	<48.7	ug/kg	399	48.7	1	12/03/18 15:17	12/04/18 20:09	88-75-5	
4-Nitrophenol	<77.5	ug/kg	399	77.5	1	12/03/18 15:17	12/04/18 20:09	100-02-7	
N-Nitrosodimethylamine	<49.0	ug/kg	399	49.0	1	12/03/18 15:17	12/04/18 20:09	62-75-9	
N-Nitroso-di-n-propylamine	<183	ug/kg	399	183	1	12/03/18 15:17	12/04/18 20:09	621-64-7	
N-Nitrosodiphenylamine	<25.9	ug/kg	399	25.9	1	12/03/18 15:17	12/04/18 20:09	86-30-6	
Pentachlorophenol	<234	ug/kg	811	234	1	12/03/18 15:17	12/04/18 20:09	87-86-5	
Phenanthrene	<46.5	ug/kg	399	46.5	1	12/03/18 15:17	12/04/18 20:09	85-01-8	
Phenol	<26.1	ug/kg	399	26.1	1	12/03/18 15:17	12/04/18 20:09	108-95-2	
Pyrene	39.0J	ug/kg	399	30.4	1	12/03/18 15:17	12/04/18 20:09	129-00-0	
1,2,4-Trichlorobenzene	<43.8	ug/kg	399	43.8	1	12/03/18 15:17	12/04/18 20:09	120-82-1	
2,4,5-Trichlorophenol	<51.4	ug/kg	399	51.4	1	12/03/18 15:17	12/04/18 20:09	95-95-4	
2,4,6-Trichlorophenol	<61.9	ug/kg	399	61.9	1	12/03/18 15:17	12/04/18 20:09	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	48	%	43-125		1	12/03/18 15:17	12/04/18 20:09	4165-60-0	
2-Fluorobiphenyl (S)	56	%	30-132		1	12/03/18 15:17	12/04/18 20:09	321-60-8	
p-Terphenyl-d14 (S)	76	%	62-125		1	12/03/18 15:17	12/04/18 20:09	1718-51-0	
Phenol-d6 (S)	50	%	48-125		1	12/03/18 15:17	12/04/18 20:09	13127-88-3	
2-Fluorophenol (S)	44	%	40-125		1	12/03/18 15:17	12/04/18 20:09	367-12-4	
2,4,6-Tribromophenol (S)	73	%	60-125		1	12/03/18 15:17	12/04/18 20:09	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.7	0.26	1	03/04/19 09:00	03/04/19 15:22	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.3	4.3	1	03/04/19 09:00	03/04/19 15:22	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	128	%	75-125		1	03/04/19 09:00	03/04/19 15:22	17060-07-0	4M, H3, S3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 15:22	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 15:22	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	731J	ug/kg	1190	370	1	12/07/18 14:28	12/07/18 21:15	67-64-1	B
Allyl chloride	<49.8	ug/kg	238	49.8	1	12/07/18 14:28	12/07/18 21:15	107-05-1	
Benzene	<3.4	ug/kg	23.8	3.4	1	12/07/18 14:28	12/07/18 21:15	71-43-2	
Bromobenzene	<3.6	ug/kg	59.4	3.6	1	12/07/18 14:28	12/07/18 21:15	108-86-1	M1
Bromochloromethane	<20.6	ug/kg	59.4	20.6	1	12/07/18 14:28	12/07/18 21:15	74-97-5	
Bromodichloromethane	<20.3	ug/kg	59.4	20.3	1	12/07/18 14:28	12/07/18 21:15	75-27-4	
Bromoform	<89.9	ug/kg	238	89.9	1	12/07/18 14:28	12/07/18 21:15	75-25-2	
Bromomethane	<69.5	ug/kg	594	69.5	1	12/07/18 14:28	12/07/18 21:15	74-83-9	M1, SS
2-Butanone (MEK)	<31.6	ug/kg	297	31.6	1	12/07/18 14:28	12/07/18 21:15	78-93-3	
n-Butylbenzene	<28.3	ug/kg	59.4	28.3	1	12/07/18 14:28	12/07/18 21:15	104-51-8	M1
sec-Butylbenzene	<11.4	ug/kg	59.4	11.4	1	12/07/18 14:28	12/07/18 21:15	135-98-8	
tert-Butylbenzene	<11.4	ug/kg	59.4	11.4	1	12/07/18 14:28	12/07/18 21:15	98-06-6	M1
Carbon tetrachloride	<28.4	ug/kg	59.4	28.4	1	12/07/18 14:28	12/07/18 21:15	56-23-5	
Chlorobenzene	<3.4	ug/kg	59.4	3.4	1	12/07/18 14:28	12/07/18 21:15	108-90-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Chloroethane	<30.9	ug/kg	594	30.9	1	12/07/18 14:28	12/07/18 21:15	75-00-3	M1
Chloroform	<29.7	ug/kg	59.4	29.7	1	12/07/18 14:28	12/07/18 21:15	67-66-3	
Chloromethane	<14.3	ug/kg	238	14.3	1	12/07/18 14:28	12/07/18 21:15	74-87-3	
2-Chlorotoluene	<2.9	ug/kg	59.4	2.9	1	12/07/18 14:28	12/07/18 21:15	95-49-8	M1
4-Chlorotoluene	<3.0	ug/kg	59.4	3.0	1	12/07/18 14:28	12/07/18 21:15	106-43-4	M1
1,2-Dibromo-3-chloropropane	<207	ug/kg	594	207	1	12/07/18 14:28	12/07/18 21:15	96-12-8	
Dibromochloromethane	<6.9	ug/kg	238	6.9	1	12/07/18 14:28	12/07/18 21:15	124-48-1	M1
1,2-Dibromoethane (EDB)	<6.3	ug/kg	59.4	6.3	1	12/07/18 14:28	12/07/18 21:15	106-93-4	
Dibromomethane	<10.9	ug/kg	59.4	10.9	1	12/07/18 14:28	12/07/18 21:15	74-95-3	
1,2-Dichlorobenzene	<2.4	ug/kg	59.4	2.4	1	12/07/18 14:28	12/07/18 21:15	95-50-1	
1,3-Dichlorobenzene	<2.2	ug/kg	59.4	2.2	1	12/07/18 14:28	12/07/18 21:15	541-73-1	M1
1,4-Dichlorobenzene	<3.7	ug/kg	59.4	3.7	1	12/07/18 14:28	12/07/18 21:15	106-46-7	
Dichlorodifluoromethane	<19.2	ug/kg	238	19.2	1	12/07/18 14:28	12/07/18 21:15	75-71-8	
1,1-Dichloroethane	<6.7	ug/kg	59.4	6.7	1	12/07/18 14:28	12/07/18 21:15	75-34-3	
1,2-Dichloroethane	<6.5	ug/kg	59.4	6.5	1	12/07/18 14:28	12/07/18 21:15	107-06-2	
1,1-Dichloroethene	<17.8	ug/kg	238	17.8	1	12/07/18 14:28	12/07/18 21:15	75-35-4	
cis-1,2-Dichloroethene	<9.9	ug/kg	59.4	9.9	1	12/07/18 14:28	12/07/18 21:15	156-59-2	
trans-1,2-Dichloroethene	<27.8	ug/kg	59.4	27.8	1	12/07/18 14:28	12/07/18 21:15	156-60-5	
Dichlorofluoromethane	<82.1	ug/kg	594	82.1	1	12/07/18 14:28	12/07/18 21:15	75-43-4	N2
1,2-Dichloropropane	<10.2	ug/kg	59.4	10.2	1	12/07/18 14:28	12/07/18 21:15	78-87-5	
1,3-Dichloropropane	<8.2	ug/kg	59.4	8.2	1	12/07/18 14:28	12/07/18 21:15	142-28-9	
2,2-Dichloropropane	<7.4	ug/kg	238	7.4	1	12/07/18 14:28	12/07/18 21:15	594-20-7	
1,1-Dichloropropene	<27.4	ug/kg	59.4	27.4	1	12/07/18 14:28	12/07/18 21:15	563-58-6	
cis-1,3-Dichloropropene	<8.5	ug/kg	59.4	8.5	1	12/07/18 14:28	12/07/18 21:15	10061-01-5	
trans-1,3-Dichloropropene	<8.3	ug/kg	59.4	8.3	1	12/07/18 14:28	12/07/18 21:15	10061-02-6	
Diethyl ether (Ethyl ether)	<36.4	ug/kg	238	36.4	1	12/07/18 14:28	12/07/18 21:15	60-29-7	
Ethylbenzene	<3.2	ug/kg	59.4	3.2	1	12/07/18 14:28	12/07/18 21:15	100-41-4	
Hexachloro-1,3-butadiene	<14.5	ug/kg	297	14.5	1	12/07/18 14:28	12/07/18 21:15	87-68-3	
Isopropylbenzene (Cumene)	<2.6	ug/kg	59.4	2.6	1	12/07/18 14:28	12/07/18 21:15	98-82-8	
p-Isopropyltoluene	<18.1	ug/kg	59.4	18.1	1	12/07/18 14:28	12/07/18 21:15	99-87-6	
Methylene Chloride	<112	ug/kg	238	112	1	12/07/18 14:28	12/07/18 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.4	ug/kg	297	12.4	1	12/07/18 14:28	12/07/18 21:15	108-10-1	
Methyl-tert-butyl ether	<7.1	ug/kg	59.4	7.1	1	12/07/18 14:28	12/07/18 21:15	1634-04-4	
Naphthalene	<55.6	ug/kg	238	55.6	1	12/07/18 14:28	12/07/18 21:15	91-20-3	
n-Propylbenzene	<3.2	ug/kg	59.4	3.2	1	12/07/18 14:28	12/07/18 21:15	103-65-1	M1
Styrene	<2.7	ug/kg	59.4	2.7	1	12/07/18 14:28	12/07/18 21:15	100-42-5	
1,1,1,2-Tetrachloroethane	<18.7	ug/kg	59.4	18.7	1	12/07/18 14:28	12/07/18 21:15	630-20-6	
1,1,1,2,2-Tetrachloroethane	<10.5	ug/kg	238	10.5	1	12/07/18 14:28	12/07/18 21:15	79-34-5	
Tetrachloroethene	<20.9	ug/kg	59.4	20.9	1	12/07/18 14:28	12/07/18 21:15	127-18-4	
Tetrahydrofuran	<86.4	ug/kg	2380	86.4	1	12/07/18 14:28	12/07/18 21:15	109-99-9	
Toluene	<14.5	ug/kg	59.4	14.5	1	12/07/18 14:28	12/07/18 21:15	108-88-3	
1,2,3-Trichlorobenzene	11.1J	ug/kg	59.4	9.5	1	12/07/18 14:28	12/07/18 21:15	87-61-6	
1,2,4-Trichlorobenzene	<13.2	ug/kg	59.4	13.2	1	12/07/18 14:28	12/07/18 21:15	120-82-1	M1
1,1,1-Trichloroethane	<27.7	ug/kg	59.4	27.7	1	12/07/18 14:28	12/07/18 21:15	71-55-6	
1,1,2-Trichloroethane	<7.1	ug/kg	59.4	7.1	1	12/07/18 14:28	12/07/18 21:15	79-00-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-1 (5)**      **Lab ID: 10457121002**      Collected: 11/26/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Trichloroethene	<9.2	ug/kg	59.4	9.2	1	12/07/18 14:28	12/07/18 21:15	79-01-6	
Trichlorofluoromethane	<104	ug/kg	238	104	1	12/07/18 14:28	12/07/18 21:15	75-69-4	
1,2,3-Trichloropropane	<15.6	ug/kg	238	15.6	1	12/07/18 14:28	12/07/18 21:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<68.9	ug/kg	238	68.9	1	12/07/18 14:28	12/07/18 21:15	76-13-1	
1,2,4-Trimethylbenzene	<11.9	ug/kg	59.4	11.9	1	12/07/18 14:28	12/07/18 21:15	95-63-6	
1,3,5-Trimethylbenzene	<9.5	ug/kg	59.4	9.5	1	12/07/18 14:28	12/07/18 21:15	108-67-8	M1
Vinyl chloride	<11.7	ug/kg	59.4	11.7	1	12/07/18 14:28	12/07/18 21:15	75-01-4	
Xylene (Total)	<13.8	ug/kg	178	13.8	1	12/07/18 14:28	12/07/18 21:15	1330-20-7	MS
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1	12/07/18 14:28	12/07/18 21:15	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/07/18 14:28	12/07/18 21:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/07/18 14:28	12/07/18 21:15	460-00-4	

**Sample: TP-2 (3)**      **Lab ID: 10457121003**      Collected: 11/26/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 01:09	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 01:09	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 01:09	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:09	319-86-8	
gamma-BHC (Lindane)	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:09	58-89-9	
Chlordane (Technical)	<3.2	ug/kg	17.7	3.2	1	12/05/18 13:42	12/12/18 01:09	57-74-9	
alpha-Chlordane	0.25J	ug/kg	1.8	0.14	1	12/05/18 13:42	12/12/18 01:09	5103-71-9	
gamma-Chlordane	<0.41	ug/kg	1.8	0.41	1	12/05/18 13:42	12/12/18 01:09	5103-74-2	
4,4'-DDD	1.6J	ug/kg	3.5	0.32	1	12/05/18 13:42	12/12/18 01:09	72-54-8	
4,4'-DDE	7.6	ug/kg	3.5	0.26	1	12/05/18 13:42	12/12/18 01:09	72-55-9	
4,4'-DDT	2.6J	ug/kg	3.5	0.44	1	12/05/18 13:42	12/12/18 01:09	50-29-3	
Dieldrin	0.99J	ug/kg	3.5	0.34	1	12/05/18 13:42	12/12/18 01:09	60-57-1	
Endosulfan I	0.22J	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 01:09	959-98-8	
Endosulfan II	1.2J	ug/kg	3.5	0.36	1	12/05/18 13:42	12/12/18 01:09	33213-65-9	
Endosulfan sulfate	<0.36	ug/kg	3.5	0.36	1	12/05/18 13:42	12/12/18 01:09	1031-07-8	
Endrin	<0.31	ug/kg	3.5	0.31	1	12/05/18 13:42	12/12/18 01:09	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.5	1.1	1	12/05/18 13:42	12/12/18 01:09	7421-93-4	
Endrin ketone	<0.42	ug/kg	3.5	0.42	1	12/05/18 13:42	12/12/18 01:09	53494-70-5	
Heptachlor	<0.19	ug/kg	1.8	0.19	1	12/05/18 13:42	12/12/18 01:09	76-44-8	
Heptachlor epoxide	0.32J	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 01:09	1024-57-3	
Methoxychlor	<2.7	ug/kg	17.7	2.7	1	12/05/18 13:42	12/12/18 01:09	72-43-5	
Toxaphene	79.7	ug/kg	52.9	8.4	1	12/05/18 13:42	12/13/18 11:13	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	99	%	30-150		1	12/05/18 13:42	12/12/18 01:09	877-09-8	
Decachlorobiphenyl (S)	88	%	30-150		1	12/05/18 13:42	12/12/18 01:09	2051-24-3	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample:** TP-2 (3)      **Lab ID:** 10457121003      Collected: 11/26/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<9.7	ug/kg	34.8	9.7	1	12/05/18 09:53	12/10/18 18:37	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.2	ug/kg	34.8	12.2	1	12/05/18 09:53	12/10/18 18:37	11104-28-2	
PCB-1232 (Aroclor 1232)	<13.9	ug/kg	34.8	13.9	1	12/05/18 09:53	12/10/18 18:37	11141-16-5	
PCB-1242 (Aroclor 1242)	<11.8	ug/kg	34.8	11.8	1	12/05/18 09:53	12/10/18 18:37	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.4	ug/kg	34.8	10.4	1	12/05/18 09:53	12/10/18 18:37	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.2	ug/kg	34.8	10.2	1	12/05/18 09:53	12/10/18 18:37	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.3	ug/kg	34.8	8.3	1	12/05/18 09:53	12/10/18 18:37	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	89	%	48-125		1	12/05/18 09:53	12/10/18 18:37	877-09-8	
Decachlorobiphenyl (S)	106	%	30-134		1	12/05/18 09:53	12/10/18 18:37	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.5	mg/kg	15.7	2.5	1	12/03/18 14:49	12/10/18 20:21	68334-30-5	
Motor Oil Range	<4.5	mg/kg	10.5	4.5	1	12/03/18 14:49	12/10/18 20:21		
<b>Surrogates</b>									
n-Triacontane (S)	96	%	50-150		1	12/03/18 14:49	12/10/18 20:21	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/03/18 14:49	12/10/18 20:21	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.68	mg/kg	5.2	0.68	1	12/07/18 15:19	12/07/18 22:51		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	70	%	50-150		1	12/07/18 15:19	12/07/18 22:51	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.39	mg/kg	1.0	0.39	1	12/06/18 14:27	12/07/18 18:38	7440-36-0	
Arsenic	1.0J	mg/kg	1.0	0.21	1	12/06/18 14:27	12/07/18 18:38	7440-38-2	
Beryllium	0.34	mg/kg	0.26	0.014	1	12/06/18 14:27	12/07/18 18:38	7440-41-7	
Cadmium	0.13J	mg/kg	0.16	0.021	1	12/06/18 14:27	12/07/18 18:38	7440-43-9	
Chromium	3.4	mg/kg	0.52	0.089	1	12/06/18 14:27	12/07/18 18:38	7440-47-3	
Copper	16.7	mg/kg	0.52	0.058	1	12/06/18 14:27	12/07/18 18:38	7440-50-8	
Lead	19.6	mg/kg	0.52	0.12	1	12/06/18 14:27	12/07/18 18:38	7439-92-1	
Nickel	3.7	mg/kg	1.0	0.066	1	12/06/18 14:27	12/07/18 18:38	7440-02-0	
Selenium	<0.34	mg/kg	1.0	0.34	1	12/06/18 14:27	12/07/18 18:38	7782-49-2	
Silver	<0.038	mg/kg	0.52	0.038	1	12/06/18 14:27	12/07/18 18:38	7440-22-4	
Thallium	<0.24	mg/kg	1.0	0.24	1	12/06/18 14:27	12/07/18 18:38	7440-28-0	
Zinc	63.7	mg/kg	1.0	0.46	1	12/06/18 14:27	12/07/18 18:38	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.018J	mg/kg	0.021	0.0083	1	12/06/18 14:29	12/12/18 15:22	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	5.9	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<37.3	ug/kg	350	37.3	1	12/03/18 15:17	12/04/18 20:38	83-32-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (3)**      **Lab ID: 10457121003**      Collected: 11/26/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthylene	<44.7	ug/kg	350	44.7	1	12/03/18 15:17	12/04/18 20:38	208-96-8	
Anthracene	<41.0	ug/kg	350	41.0	1	12/03/18 15:17	12/04/18 20:38	120-12-7	
Benzo(a)anthracene	<36.0	ug/kg	350	36.0	1	12/03/18 15:17	12/04/18 20:38	56-55-3	
Benzo(a)pyrene	<39.7	ug/kg	350	39.7	1	12/03/18 15:17	12/04/18 20:38	50-32-8	
Benzo(b)fluoranthene	<34.3	ug/kg	350	34.3	1	12/03/18 15:17	12/04/18 20:38	205-99-2	
Benzo(g,h,i)perylene	<37.4	ug/kg	350	37.4	1	12/03/18 15:17	12/04/18 20:38	191-24-2	
Benzo(k)fluoranthene	<43.7	ug/kg	350	43.7	1	12/03/18 15:17	12/04/18 20:38	207-08-9	
4-Bromophenylphenyl ether	<41.7	ug/kg	350	41.7	1	12/03/18 15:17	12/04/18 20:38	101-55-3	
Butylbenzylphthalate	<32.0	ug/kg	350	32.0	1	12/03/18 15:17	12/04/18 20:38	85-68-7	
Carbazole	<29.1	ug/kg	350	29.1	1	12/03/18 15:17	12/04/18 20:38	86-74-8	
4-Chloro-3-methylphenol	<56.0	ug/kg	350	56.0	1	12/03/18 15:17	12/04/18 20:38	59-50-7	
4-Chloroaniline	<93.2	ug/kg	350	93.2	1	12/03/18 15:17	12/04/18 20:38	106-47-8	
bis(2-Chloroethoxy)methane	<35.8	ug/kg	350	35.8	1	12/03/18 15:17	12/04/18 20:38	111-91-1	
bis(2-Chloroethyl) ether	<27.7	ug/kg	350	27.7	1	12/03/18 15:17	12/04/18 20:38	111-44-4	
bis(2-Chloroisopropyl) ether	<36.1	ug/kg	350	36.1	1	12/03/18 15:17	12/04/18 20:38	108-60-1	
2-Chloronaphthalene	<31.0	ug/kg	350	31.0	1	12/03/18 15:17	12/04/18 20:38	91-58-7	
2-Chlorophenol	<39.9	ug/kg	350	39.9	1	12/03/18 15:17	12/04/18 20:38	95-57-8	
4-Chlorophenylphenyl ether	<43.4	ug/kg	350	43.4	1	12/03/18 15:17	12/04/18 20:38	7005-72-3	
Chrysene	<36.9	ug/kg	350	36.9	1	12/03/18 15:17	12/04/18 20:38	218-01-9	
Dibenz(a,h)anthracene	<37.2	ug/kg	350	37.2	1	12/03/18 15:17	12/04/18 20:38	53-70-3	
Dibenzofuran	<44.3	ug/kg	350	44.3	1	12/03/18 15:17	12/04/18 20:38	132-64-9	
1,2-Dichlorobenzene	<36.7	ug/kg	350	36.7	1	12/03/18 15:17	12/04/18 20:38	95-50-1	
1,3-Dichlorobenzene	<24.0	ug/kg	350	24.0	1	12/03/18 15:17	12/04/18 20:38	541-73-1	
1,4-Dichlorobenzene	<38.9	ug/kg	350	38.9	1	12/03/18 15:17	12/04/18 20:38	106-46-7	
3,3'-Dichlorobenzidine	<118	ug/kg	350	118	1	12/03/18 15:17	12/04/18 20:38	91-94-1	
2,4-Dichlorophenol	<58.4	ug/kg	350	58.4	1	12/03/18 15:17	12/04/18 20:38	120-83-2	
Diethylphthalate	<31.2	ug/kg	350	31.2	1	12/03/18 15:17	12/04/18 20:38	84-66-2	
2,4-Dimethylphenol	<137	ug/kg	350	137	1	12/03/18 15:17	12/04/18 20:38	105-67-9	
Dimethylphthalate	<47.5	ug/kg	350	47.5	1	12/03/18 15:17	12/04/18 20:38	131-11-3	
Di-n-butylphthalate	<47.9	ug/kg	350	47.9	1	12/03/18 15:17	12/04/18 20:38	84-74-2	
4,6-Dinitro-2-methylphenol	<347	ug/kg	1800	347	1	12/03/18 15:17	12/04/18 20:38	534-52-1	
2,4-Dinitrophenol	<163	ug/kg	350	163	1	12/03/18 15:17	12/04/18 20:38	51-28-5	
2,4-Dinitrotoluene	<44.5	ug/kg	350	44.5	1	12/03/18 15:17	12/04/18 20:38	121-14-2	
2,6-Dinitrotoluene	<46.3	ug/kg	350	46.3	1	12/03/18 15:17	12/04/18 20:38	606-20-2	
Di-n-octylphthalate	<40.6	ug/kg	350	40.6	1	12/03/18 15:17	12/04/18 20:38	117-84-0	
1,2-Diphenylhydrazine	<43.0	ug/kg	350	43.0	1	12/03/18 15:17	12/04/18 20:38	122-66-7	
bis(2-Ethylhexyl)phthalate	<73.0	ug/kg	350	73.0	1	12/03/18 15:17	12/04/18 20:38	117-81-7	
Fluoranthene	<40.2	ug/kg	350	40.2	1	12/03/18 15:17	12/04/18 20:38	206-44-0	
Fluorene	<160	ug/kg	350	160	1	12/03/18 15:17	12/04/18 20:38	86-73-7	
Hexachloro-1,3-butadiene	<53.2	ug/kg	350	53.2	1	12/03/18 15:17	12/04/18 20:38	87-68-3	
Hexachlorobenzene	<57.1	ug/kg	350	57.1	1	12/03/18 15:17	12/04/18 20:38	118-74-1	
Hexachloroethane	<45.5	ug/kg	350	45.5	1	12/03/18 15:17	12/04/18 20:38	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.1	ug/kg	350	21.1	1	12/03/18 15:17	12/04/18 20:38	193-39-5	
Isophorone	<26.9	ug/kg	350	26.9	1	12/03/18 15:17	12/04/18 20:38	78-59-1	
1-Methylnaphthalene	<32.3	ug/kg	350	32.3	1	12/03/18 15:17	12/04/18 20:38	90-12-0	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (3)**      **Lab ID: 10457121003**      Collected: 11/26/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2-Methylnaphthalene	<31.6	ug/kg	350	31.6	1	12/03/18 15:17	12/04/18 20:38	91-57-6	
2-Methylphenol(o-Cresol)	<21.8	ug/kg	350	21.8	1	12/03/18 15:17	12/04/18 20:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	<19.7	ug/kg	700	19.7	1	12/03/18 15:17	12/04/18 20:38		
Naphthalene	<26.9	ug/kg	350	26.9	1	12/03/18 15:17	12/04/18 20:38	91-20-3	
2-Nitroaniline	<87.8	ug/kg	350	87.8	1	12/03/18 15:17	12/04/18 20:38	88-74-4	
3-Nitroaniline	<38.2	ug/kg	350	38.2	1	12/03/18 15:17	12/04/18 20:38	99-09-2	
4-Nitroaniline	<51.1	ug/kg	350	51.1	1	12/03/18 15:17	12/04/18 20:38	100-01-6	
Nitrobenzene	<38.5	ug/kg	350	38.5	1	12/03/18 15:17	12/04/18 20:38	98-95-3	
2-Nitrophenol	<42.6	ug/kg	350	42.6	1	12/03/18 15:17	12/04/18 20:38	88-75-5	
4-Nitrophenol	<67.9	ug/kg	350	67.9	1	12/03/18 15:17	12/04/18 20:38	100-02-7	
N-Nitrosodimethylamine	<43.0	ug/kg	350	43.0	1	12/03/18 15:17	12/04/18 20:38	62-75-9	
N-Nitroso-di-n-propylamine	<160	ug/kg	350	160	1	12/03/18 15:17	12/04/18 20:38	621-64-7	
N-Nitrosodiphenylamine	<22.7	ug/kg	350	22.7	1	12/03/18 15:17	12/04/18 20:38	86-30-6	
Pentachlorophenol	<205	ug/kg	711	205	1	12/03/18 15:17	12/04/18 20:38	87-86-5	
Phenanthrene	<40.7	ug/kg	350	40.7	1	12/03/18 15:17	12/04/18 20:38	85-01-8	
Phenol	<22.9	ug/kg	350	22.9	1	12/03/18 15:17	12/04/18 20:38	108-95-2	
Pyrene	<26.6	ug/kg	350	26.6	1	12/03/18 15:17	12/04/18 20:38	129-00-0	
1,2,4-Trichlorobenzene	<38.4	ug/kg	350	38.4	1	12/03/18 15:17	12/04/18 20:38	120-82-1	
2,4,5-Trichlorophenol	<45.1	ug/kg	350	45.1	1	12/03/18 15:17	12/04/18 20:38	95-95-4	
2,4,6-Trichlorophenol	<54.2	ug/kg	350	54.2	1	12/03/18 15:17	12/04/18 20:38	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	67	%	43-125		1	12/03/18 15:17	12/04/18 20:38	4165-60-0	
2-Fluorobiphenyl (S)	70	%	30-132		1	12/03/18 15:17	12/04/18 20:38	321-60-8	
p-Terphenyl-d14 (S)	78	%	62-125		1	12/03/18 15:17	12/04/18 20:38	1718-51-0	
Phenol-d6 (S)	67	%	48-125		1	12/03/18 15:17	12/04/18 20:38	13127-88-3	
2-Fluorophenol (S)	63	%	40-125		1	12/03/18 15:17	12/04/18 20:38	367-12-4	
2,4,6-Tribromophenol (S)	74	%	60-125		1	12/03/18 15:17	12/04/18 20:38	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.24	ug/kg	4.2	0.24	1	03/04/19 09:00	03/04/19 15:41	106-93-4	
Methylene Chloride	<3.9	ug/kg	21.0	3.9	1	03/04/19 09:00	03/04/19 15:41	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	120	%	75-125		1	03/04/19 09:00	03/04/19 15:41	17060-07-0	3M, H3
Toluene-d8 (S)	101	%	75-125		1	03/04/19 09:00	03/04/19 15:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 15:41	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>851J</b>	ug/kg	1070	333	1	12/06/18 13:46	12/07/18 05:27	67-64-1	B
Allyl chloride	<44.9	ug/kg	214	44.9	1	12/06/18 13:46	12/07/18 05:27	107-05-1	
Benzene	<3.0	ug/kg	21.4	3.0	1	12/06/18 13:46	12/07/18 05:27	71-43-2	
Bromobenzene	<3.3	ug/kg	53.6	3.3	1	12/06/18 13:46	12/07/18 05:27	108-86-1	
Bromochloromethane	<18.5	ug/kg	53.6	18.5	1	12/06/18 13:46	12/07/18 05:27	74-97-5	
Bromodichloromethane	<18.3	ug/kg	53.6	18.3	1	12/06/18 13:46	12/07/18 05:27	75-27-4	
Bromoform	<81.2	ug/kg	214	81.2	1	12/06/18 13:46	12/07/18 05:27	75-25-2	
Bromomethane	<62.7	ug/kg	536	62.7	1	12/06/18 13:46	12/07/18 05:27	74-83-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Sample: TP-2 (3) Lab ID: 10457121003 Collected: 11/26/18 13:00 Received: 11/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Butanone (MEK)	<28.5	ug/kg	268	28.5	1	12/06/18 13:46	12/07/18 05:27	78-93-3	
n-Butylbenzene	<25.5	ug/kg	53.6	25.5	1	12/06/18 13:46	12/07/18 05:27	104-51-8	
sec-Butylbenzene	<10.3	ug/kg	53.6	10.3	1	12/06/18 13:46	12/07/18 05:27	135-98-8	
tert-Butylbenzene	<10.3	ug/kg	53.6	10.3	1	12/06/18 13:46	12/07/18 05:27	98-06-6	
Carbon tetrachloride	<25.6	ug/kg	53.6	25.6	1	12/06/18 13:46	12/07/18 05:27	56-23-5	
Chlorobenzene	<3.0	ug/kg	53.6	3.0	1	12/06/18 13:46	12/07/18 05:27	108-90-7	
Chloroethane	<27.9	ug/kg	53.6	27.9	1	12/06/18 13:46	12/07/18 05:27	75-00-3	
Chloroform	<26.8	ug/kg	53.6	26.8	1	12/06/18 13:46	12/07/18 05:27	67-66-3	
Chloromethane	<12.9	ug/kg	214	12.9	1	12/06/18 13:46	12/07/18 05:27	74-87-3	
2-Chlorotoluene	<2.6	ug/kg	53.6	2.6	1	12/06/18 13:46	12/07/18 05:27	95-49-8	
4-Chlorotoluene	<2.7	ug/kg	53.6	2.7	1	12/06/18 13:46	12/07/18 05:27	106-43-4	
1,2-Dibromo-3-chloropropane	<187	ug/kg	536	187	1	12/06/18 13:46	12/07/18 05:27	96-12-8	
Dibromochloromethane	<6.2	ug/kg	214	6.2	1	12/06/18 13:46	12/07/18 05:27	124-48-1	
1,2-Dibromoethane (EDB)	<5.6	ug/kg	53.6	5.6	1	12/06/18 13:46	12/07/18 05:27	106-93-4	
Dibromomethane	<9.8	ug/kg	53.6	9.8	1	12/06/18 13:46	12/07/18 05:27	74-95-3	
1,2-Dichlorobenzene	<2.2	ug/kg	53.6	2.2	1	12/06/18 13:46	12/07/18 05:27	95-50-1	
1,3-Dichlorobenzene	<2.0	ug/kg	53.6	2.0	1	12/06/18 13:46	12/07/18 05:27	541-73-1	
1,4-Dichlorobenzene	<3.3	ug/kg	53.6	3.3	1	12/06/18 13:46	12/07/18 05:27	106-46-7	
Dichlorodifluoromethane	<17.4	ug/kg	214	17.4	1	12/06/18 13:46	12/07/18 05:27	75-71-8	
1,1-Dichloroethane	<6.0	ug/kg	53.6	6.0	1	12/06/18 13:46	12/07/18 05:27	75-34-3	
1,2-Dichloroethane	<5.9	ug/kg	53.6	5.9	1	12/06/18 13:46	12/07/18 05:27	107-06-2	
1,1-Dichloroethene	<16.1	ug/kg	214	16.1	1	12/06/18 13:46	12/07/18 05:27	75-35-4	
cis-1,2-Dichloroethene	<8.9	ug/kg	53.6	8.9	1	12/06/18 13:46	12/07/18 05:27	156-59-2	
trans-1,2-Dichloroethene	<25.1	ug/kg	53.6	25.1	1	12/06/18 13:46	12/07/18 05:27	156-60-5	
Dichlorofluoromethane	<74.1	ug/kg	536	74.1	1	12/06/18 13:46	12/07/18 05:27	75-43-4	N2
1,2-Dichloropropane	<9.2	ug/kg	53.6	9.2	1	12/06/18 13:46	12/07/18 05:27	78-87-5	
1,3-Dichloropropane	<7.4	ug/kg	53.6	7.4	1	12/06/18 13:46	12/07/18 05:27	142-28-9	
2,2-Dichloropropane	<6.7	ug/kg	214	6.7	1	12/06/18 13:46	12/07/18 05:27	594-20-7	
1,1-Dichloropropene	<24.8	ug/kg	53.6	24.8	1	12/06/18 13:46	12/07/18 05:27	563-58-6	
cis-1,3-Dichloropropene	<7.7	ug/kg	53.6	7.7	1	12/06/18 13:46	12/07/18 05:27	10061-01-5	
trans-1,3-Dichloropropene	<7.5	ug/kg	53.6	7.5	1	12/06/18 13:46	12/07/18 05:27	10061-02-6	
Diethyl ether (Ethyl ether)	<32.8	ug/kg	214	32.8	1	12/06/18 13:46	12/07/18 05:27	60-29-7	
Ethylbenzene	<2.9	ug/kg	53.6	2.9	1	12/06/18 13:46	12/07/18 05:27	100-41-4	
Hexachloro-1,3-butadiene	<13.1	ug/kg	268	13.1	1	12/06/18 13:46	12/07/18 05:27	87-68-3	
Isopropylbenzene (Cumene)	<2.4	ug/kg	53.6	2.4	1	12/06/18 13:46	12/07/18 05:27	98-82-8	
p-Isopropyltoluene	<16.3	ug/kg	53.6	16.3	1	12/06/18 13:46	12/07/18 05:27	99-87-6	
Methylene Chloride	<101	ug/kg	214	101	1	12/06/18 13:46	12/07/18 05:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	<11.1	ug/kg	268	11.1	1	12/06/18 13:46	12/07/18 05:27	108-10-1	
Methyl-tert-butyl ether	<6.4	ug/kg	53.6	6.4	1	12/06/18 13:46	12/07/18 05:27	1634-04-4	
Naphthalene	<50.2	ug/kg	214	50.2	1	12/06/18 13:46	12/07/18 05:27	91-20-3	
n-Propylbenzene	<2.9	ug/kg	53.6	2.9	1	12/06/18 13:46	12/07/18 05:27	103-65-1	
Styrene	<2.4	ug/kg	53.6	2.4	1	12/06/18 13:46	12/07/18 05:27	100-42-5	
1,1,1,2-Tetrachloroethane	<16.8	ug/kg	53.6	16.8	1	12/06/18 13:46	12/07/18 05:27	630-20-6	
1,1,2,2-Tetrachloroethane	<9.4	ug/kg	214	9.4	1	12/06/18 13:46	12/07/18 05:27	79-34-5	
Tetrachloroethene	<18.9	ug/kg	53.6	18.9	1	12/06/18 13:46	12/07/18 05:27	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (3)**      **Lab ID: 10457121003**      Collected: 11/26/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Tetrahydrofuran	<77.9	ug/kg	2140	77.9	1	12/06/18 13:46	12/07/18 05:27	109-99-9	
Toluene	<13.1	ug/kg	53.6	13.1	1	12/06/18 13:46	12/07/18 05:27	108-88-3	
1,2,3-Trichlorobenzene	<8.6	ug/kg	53.6	8.6	1	12/06/18 13:46	12/07/18 05:27	87-61-6	
1,2,4-Trichlorobenzene	<11.9	ug/kg	53.6	11.9	1	12/06/18 13:46	12/07/18 05:27	120-82-1	
1,1,1-Trichloroethane	<25.0	ug/kg	53.6	25.0	1	12/06/18 13:46	12/07/18 05:27	71-55-6	
1,1,2-Trichloroethane	<6.4	ug/kg	53.6	6.4	1	12/06/18 13:46	12/07/18 05:27	79-00-5	
Trichloroethene	<8.3	ug/kg	53.6	8.3	1	12/06/18 13:46	12/07/18 05:27	79-01-6	
Trichlorofluoromethane	<93.5	ug/kg	214	93.5	1	12/06/18 13:46	12/07/18 05:27	75-69-4	
1,2,3-Trichloropropane	<14.0	ug/kg	214	14.0	1	12/06/18 13:46	12/07/18 05:27	96-18-4	
1,1,2-Trichlorotrifluoroethane	<62.2	ug/kg	214	62.2	1	12/06/18 13:46	12/07/18 05:27	76-13-1	
1,2,4-Trimethylbenzene	<10.7	ug/kg	53.6	10.7	1	12/06/18 13:46	12/07/18 05:27	95-63-6	
1,3,5-Trimethylbenzene	<8.5	ug/kg	53.6	8.5	1	12/06/18 13:46	12/07/18 05:27	108-67-8	
Vinyl chloride	<10.5	ug/kg	53.6	10.5	1	12/06/18 13:46	12/07/18 05:27	75-01-4	
Xylene (Total)	<12.4	ug/kg	161	12.4	1	12/06/18 13:46	12/07/18 05:27	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	107	%	75-125		1	12/06/18 13:46	12/07/18 05:27	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/06/18 13:46	12/07/18 05:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 05:27	460-00-4	

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 01:27	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 01:27	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 01:27	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:27	319-86-8	
gamma-BHC (Lindane)	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:27	58-89-9	
Chlordane (Technical)	<3.3	ug/kg	18.1	3.3	1	12/05/18 13:42	12/12/18 01:27	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:27	5103-71-9	
gamma-Chlordane	<0.42	ug/kg	1.8	0.42	1	12/05/18 13:42	12/12/18 01:27	5103-74-2	
4,4'-DDD	<0.33	ug/kg	3.6	0.33	1	12/05/18 13:42	12/12/18 01:27	72-54-8	
4,4'-DDE	1.8J	ug/kg	3.6	0.27	1	12/05/18 13:42	12/12/18 01:27	72-55-9	
4,4'-DDT	1.5J	ug/kg	3.6	0.45	1	12/05/18 13:42	12/12/18 01:27	50-29-3	
Dieldrin	<0.35	ug/kg	3.6	0.35	1	12/05/18 13:42	12/12/18 01:27	60-57-1	
Endosulfan I	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 01:27	959-98-8	
Endosulfan II	<0.36	ug/kg	3.6	0.36	1	12/05/18 13:42	12/12/18 01:27	33213-65-9	
Endosulfan sulfate	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 01:27	1031-07-8	
Endrin	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 01:27	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.6	1.1	1	12/05/18 13:42	12/12/18 01:27	7421-93-4	
Endrin ketone	<0.43	ug/kg	3.6	0.43	1	12/05/18 13:42	12/12/18 01:27	53494-70-5	
Heptachlor	<0.19	ug/kg	1.8	0.19	1	12/05/18 13:42	12/12/18 01:27	76-44-8	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 01:27	1024-57-3	
Methoxychlor	<2.7	ug/kg	18.1	2.7	1	12/05/18 13:42	12/12/18 01:27	72-43-5	
Toxaphene	<8.6	ug/kg	54.1	8.6	1	12/05/18 13:42	12/12/18 01:27	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	96	%	30-150		1	12/05/18 13:42	12/12/18 01:27	877-09-8	
Decachlorobiphenyl (S)	87	%	30-150		1	12/05/18 13:42	12/12/18 01:27	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<9.9	ug/kg	35.7	9.9	1	12/05/18 09:53	12/10/18 18:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.5	ug/kg	35.7	12.5	1	12/05/18 09:53	12/10/18 18:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.3	ug/kg	35.7	14.3	1	12/05/18 09:53	12/10/18 18:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.1	ug/kg	35.7	12.1	1	12/05/18 09:53	12/10/18 18:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.7	ug/kg	35.7	10.7	1	12/05/18 09:53	12/10/18 18:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.5	ug/kg	35.7	10.5	1	12/05/18 09:53	12/10/18 18:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.5	ug/kg	35.7	8.5	1	12/05/18 09:53	12/10/18 18:52	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	48-125		1	12/05/18 09:53	12/10/18 18:52	877-09-8	
Decachlorobiphenyl (S)	110	%	30-134		1	12/05/18 09:53	12/10/18 18:52	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.6	mg/kg	16.2	2.6	1	12/03/18 14:49	12/10/18 20:32	68334-30-5	
Motor Oil Range	7.8J	mg/kg	10.8	4.7	1	12/03/18 14:49	12/10/18 20:32		
<b>Surrogates</b>									
n-Triacontane (S)	84	%	50-150		1	12/03/18 14:49	12/10/18 20:32	638-68-6	
o-Terphenyl (S)	80	%	50-150		1	12/03/18 14:49	12/10/18 20:32	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.69	mg/kg	5.2	0.69	1	12/07/18 15:19	12/08/18 00:00		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	67	%	50-150		1	12/07/18 15:19	12/08/18 00:00	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.39	mg/kg	1.0	0.39	1	12/06/18 14:27	12/07/18 18:41	7440-36-0	
Arsenic	0.99J	mg/kg	1.0	0.21	1	12/06/18 14:27	12/07/18 18:41	7440-38-2	
Beryllium	0.25J	mg/kg	0.26	0.014	1	12/06/18 14:27	12/07/18 18:41	7440-41-7	
Cadmium	0.067J	mg/kg	0.15	0.020	1	12/06/18 14:27	12/07/18 18:41	7440-43-9	
Chromium	2.5	mg/kg	0.51	0.088	1	12/06/18 14:27	12/07/18 18:41	7440-47-3	
Copper	10.2	mg/kg	0.51	0.057	1	12/06/18 14:27	12/07/18 18:41	7440-50-8	
Lead	6.8	mg/kg	0.51	0.12	1	12/06/18 14:27	12/07/18 18:41	7439-92-1	
Nickel	3.6	mg/kg	1.0	0.064	1	12/06/18 14:27	12/07/18 18:41	7440-02-0	
Selenium	<0.34	mg/kg	1.0	0.34	1	12/06/18 14:27	12/07/18 18:41	7782-49-2	
Silver	0.048J	mg/kg	0.51	0.037	1	12/06/18 14:27	12/07/18 18:41	7440-22-4	
Thallium	<0.23	mg/kg	1.0	0.23	1	12/06/18 14:27	12/07/18 18:41	7440-28-0	
Zinc	35.7	mg/kg	1.0	0.45	1	12/06/18 14:27	12/07/18 18:41	7440-66-6	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<b>0.0083J</b>	mg/kg	0.020	0.0082	1	12/06/18 14:29	12/12/18 15:24	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>7.6</b>	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;38.1</b>	ug/kg	357	38.1	1	12/03/18 15:17	12/04/18 21:08	83-32-9	
Acenaphthylene	<b>&lt;45.6</b>	ug/kg	357	45.6	1	12/03/18 15:17	12/04/18 21:08	208-96-8	
Anthracene	<b>&lt;41.9</b>	ug/kg	357	41.9	1	12/03/18 15:17	12/04/18 21:08	120-12-7	
Benzo(a)anthracene	<b>&lt;36.7</b>	ug/kg	357	36.7	1	12/03/18 15:17	12/04/18 21:08	56-55-3	
Benzo(a)pyrene	<b>&lt;40.5</b>	ug/kg	357	40.5	1	12/03/18 15:17	12/04/18 21:08	50-32-8	
Benzo(b)fluoranthene	<b>&lt;35.0</b>	ug/kg	357	35.0	1	12/03/18 15:17	12/04/18 21:08	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;38.2</b>	ug/kg	357	38.2	1	12/03/18 15:17	12/04/18 21:08	191-24-2	
Benzo(k)fluoranthene	<b>&lt;44.6</b>	ug/kg	357	44.6	1	12/03/18 15:17	12/04/18 21:08	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;42.5</b>	ug/kg	357	42.5	1	12/03/18 15:17	12/04/18 21:08	101-55-3	
Butylbenzylphthalate	<b>&lt;32.7</b>	ug/kg	357	32.7	1	12/03/18 15:17	12/04/18 21:08	85-68-7	
Carbazole	<b>&lt;29.7</b>	ug/kg	357	29.7	1	12/03/18 15:17	12/04/18 21:08	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;57.2</b>	ug/kg	357	57.2	1	12/03/18 15:17	12/04/18 21:08	59-50-7	
4-Chloroaniline	<b>&lt;95.2</b>	ug/kg	357	95.2	1	12/03/18 15:17	12/04/18 21:08	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;36.6</b>	ug/kg	357	36.6	1	12/03/18 15:17	12/04/18 21:08	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;28.3</b>	ug/kg	357	28.3	1	12/03/18 15:17	12/04/18 21:08	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;36.8</b>	ug/kg	357	36.8	1	12/03/18 15:17	12/04/18 21:08	108-60-1	
2-Chloronaphthalene	<b>&lt;31.6</b>	ug/kg	357	31.6	1	12/03/18 15:17	12/04/18 21:08	91-58-7	
2-Chlorophenol	<b>&lt;40.7</b>	ug/kg	357	40.7	1	12/03/18 15:17	12/04/18 21:08	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;44.3</b>	ug/kg	357	44.3	1	12/03/18 15:17	12/04/18 21:08	7005-72-3	
Chrysene	<b>&lt;37.7</b>	ug/kg	357	37.7	1	12/03/18 15:17	12/04/18 21:08	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;38.0</b>	ug/kg	357	38.0	1	12/03/18 15:17	12/04/18 21:08	53-70-3	
Dibenzofuran	<b>&lt;45.3</b>	ug/kg	357	45.3	1	12/03/18 15:17	12/04/18 21:08	132-64-9	
1,2-Dichlorobenzene	<b>&lt;37.5</b>	ug/kg	357	37.5	1	12/03/18 15:17	12/04/18 21:08	95-50-1	
1,3-Dichlorobenzene	<b>&lt;24.5</b>	ug/kg	357	24.5	1	12/03/18 15:17	12/04/18 21:08	541-73-1	
1,4-Dichlorobenzene	<b>&lt;39.7</b>	ug/kg	357	39.7	1	12/03/18 15:17	12/04/18 21:08	106-46-7	
3,3'-Dichlorobenzidine	<b>&lt;120</b>	ug/kg	357	120	1	12/03/18 15:17	12/04/18 21:08	91-94-1	
2,4-Dichlorophenol	<b>&lt;59.7</b>	ug/kg	357	59.7	1	12/03/18 15:17	12/04/18 21:08	120-83-2	
Diethylphthalate	<b>&lt;31.8</b>	ug/kg	357	31.8	1	12/03/18 15:17	12/04/18 21:08	84-66-2	
2,4-Dimethylphenol	<b>&lt;140</b>	ug/kg	357	140	1	12/03/18 15:17	12/04/18 21:08	105-67-9	
Dimethylphthalate	<b>&lt;48.5</b>	ug/kg	357	48.5	1	12/03/18 15:17	12/04/18 21:08	131-11-3	
Di-n-butylphthalate	<b>&lt;48.9</b>	ug/kg	357	48.9	1	12/03/18 15:17	12/04/18 21:08	84-74-2	
4,6-Dinitro-2-methylphenol	<b>&lt;354</b>	ug/kg	1840	354	1	12/03/18 15:17	12/04/18 21:08	534-52-1	
2,4-Dinitrophenol	<b>&lt;167</b>	ug/kg	357	167	1	12/03/18 15:17	12/04/18 21:08	51-28-5	
2,4-Dinitrotoluene	<b>&lt;45.5</b>	ug/kg	357	45.5	1	12/03/18 15:17	12/04/18 21:08	121-14-2	
2,6-Dinitrotoluene	<b>&lt;47.3</b>	ug/kg	357	47.3	1	12/03/18 15:17	12/04/18 21:08	606-20-2	
Di-n-octylphthalate	<b>&lt;41.5</b>	ug/kg	357	41.5	1	12/03/18 15:17	12/04/18 21:08	117-84-0	
1,2-Diphenylhydrazine	<b>&lt;43.8</b>	ug/kg	357	43.8	1	12/03/18 15:17	12/04/18 21:08	122-66-7	
bis(2-Ethylhexyl)phthalate	<b>&lt;74.5</b>	ug/kg	357	74.5	1	12/03/18 15:17	12/04/18 21:08	117-81-7	
Fluoranthene	<b>&lt;41.0</b>	ug/kg	357	41.0	1	12/03/18 15:17	12/04/18 21:08	206-44-0	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
Fluorene	<163	ug/kg	357	163	1	12/03/18 15:17	12/04/18 21:08	86-73-7	
Hexachloro-1,3-butadiene	<54.3	ug/kg	357	54.3	1	12/03/18 15:17	12/04/18 21:08	87-68-3	
Hexachlorobenzene	<58.2	ug/kg	357	58.2	1	12/03/18 15:17	12/04/18 21:08	118-74-1	
Hexachloroethane	<46.4	ug/kg	357	46.4	1	12/03/18 15:17	12/04/18 21:08	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.5	ug/kg	357	21.5	1	12/03/18 15:17	12/04/18 21:08	193-39-5	
Isophorone	<27.5	ug/kg	357	27.5	1	12/03/18 15:17	12/04/18 21:08	78-59-1	
1-Methylnaphthalene	<33.0	ug/kg	357	33.0	1	12/03/18 15:17	12/04/18 21:08	90-12-0	
2-Methylnaphthalene	<32.3	ug/kg	357	32.3	1	12/03/18 15:17	12/04/18 21:08	91-57-6	
2-Methylphenol(o-Cresol)	<22.3	ug/kg	357	22.3	1	12/03/18 15:17	12/04/18 21:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.1	ug/kg	715	20.1	1	12/03/18 15:17	12/04/18 21:08		
Naphthalene	<27.5	ug/kg	357	27.5	1	12/03/18 15:17	12/04/18 21:08	91-20-3	
2-Nitroaniline	<89.6	ug/kg	357	89.6	1	12/03/18 15:17	12/04/18 21:08	88-74-4	
3-Nitroaniline	<39.0	ug/kg	357	39.0	1	12/03/18 15:17	12/04/18 21:08	99-09-2	
4-Nitroaniline	<52.2	ug/kg	357	52.2	1	12/03/18 15:17	12/04/18 21:08	100-01-6	
Nitrobenzene	<39.3	ug/kg	357	39.3	1	12/03/18 15:17	12/04/18 21:08	98-95-3	
2-Nitrophenol	<43.5	ug/kg	357	43.5	1	12/03/18 15:17	12/04/18 21:08	88-75-5	
4-Nitrophenol	<69.3	ug/kg	357	69.3	1	12/03/18 15:17	12/04/18 21:08	100-02-7	
N-Nitrosodimethylamine	<43.8	ug/kg	357	43.8	1	12/03/18 15:17	12/04/18 21:08	62-75-9	
N-Nitroso-di-n-propylamine	<163	ug/kg	357	163	1	12/03/18 15:17	12/04/18 21:08	621-64-7	
N-Nitrosodiphenylamine	<23.2	ug/kg	357	23.2	1	12/03/18 15:17	12/04/18 21:08	86-30-6	
Pentachlorophenol	<209	ug/kg	725	209	1	12/03/18 15:17	12/04/18 21:08	87-86-5	
Phenanthrene	<41.6	ug/kg	357	41.6	1	12/03/18 15:17	12/04/18 21:08	85-01-8	
Phenol	<23.4	ug/kg	357	23.4	1	12/03/18 15:17	12/04/18 21:08	108-95-2	
Pyrene	<27.2	ug/kg	357	27.2	1	12/03/18 15:17	12/04/18 21:08	129-00-0	
1,2,4-Trichlorobenzene	<39.2	ug/kg	357	39.2	1	12/03/18 15:17	12/04/18 21:08	120-82-1	
2,4,5-Trichlorophenol	<46.0	ug/kg	357	46.0	1	12/03/18 15:17	12/04/18 21:08	95-95-4	
2,4,6-Trichlorophenol	<55.3	ug/kg	357	55.3	1	12/03/18 15:17	12/04/18 21:08	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	62	%	43-125		1	12/03/18 15:17	12/04/18 21:08	4165-60-0	
2-Fluorobiphenyl (S)	62	%	30-132		1	12/03/18 15:17	12/04/18 21:08	321-60-8	
p-Terphenyl-d14 (S)	75	%	62-125		1	12/03/18 15:17	12/04/18 21:08	1718-51-0	
Phenol-d6 (S)	62	%	48-125		1	12/03/18 15:17	12/04/18 21:08	13127-88-3	
2-Fluorophenol (S)	57	%	40-125		1	12/03/18 15:17	12/04/18 21:08	367-12-4	
2,4,6-Tribromophenol (S)	66	%	60-125		1	12/03/18 15:17	12/04/18 21:08	118-79-6	
<b>8260B MSV 5035 Low Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.23	ug/kg	4.2	0.23	1	03/04/19 09:00	03/04/19 16:00	106-93-4	
Methylene Chloride	<3.8	ug/kg	20.8	3.8	1	03/04/19 09:00	03/04/19 16:00	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 16:00	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 16:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/04/19 09:00	03/04/19 16:00	460-00-4	
<b>8260B MSV 5030 Med Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
Acetone	<321	ug/kg	1030	321	1	12/06/18 13:46	12/07/18 05:46	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Allyl chloride	<43.2	ug/kg	206	43.2	1	12/06/18 13:46	12/07/18 05:46	107-05-1	
Benzene	<2.9	ug/kg	20.6	2.9	1	12/06/18 13:46	12/07/18 05:46	71-43-2	
Bromobenzene	<3.2	ug/kg	51.6	3.2	1	12/06/18 13:46	12/07/18 05:46	108-86-1	
Bromochloromethane	<17.9	ug/kg	51.6	17.9	1	12/06/18 13:46	12/07/18 05:46	74-97-5	
Bromodichloromethane	<17.6	ug/kg	51.6	17.6	1	12/06/18 13:46	12/07/18 05:46	75-27-4	
Bromoform	<78.1	ug/kg	206	78.1	1	12/06/18 13:46	12/07/18 05:46	75-25-2	
Bromomethane	<60.4	ug/kg	516	60.4	1	12/06/18 13:46	12/07/18 05:46	74-83-9	
2-Butanone (MEK)	<27.5	ug/kg	258	27.5	1	12/06/18 13:46	12/07/18 05:46	78-93-3	
n-Butylbenzene	<24.6	ug/kg	51.6	24.6	1	12/06/18 13:46	12/07/18 05:46	104-51-8	
sec-Butylbenzene	<9.9	ug/kg	51.6	9.9	1	12/06/18 13:46	12/07/18 05:46	135-98-8	
tert-Butylbenzene	<9.9	ug/kg	51.6	9.9	1	12/06/18 13:46	12/07/18 05:46	98-06-6	
Carbon tetrachloride	<24.7	ug/kg	51.6	24.7	1	12/06/18 13:46	12/07/18 05:46	56-23-5	
Chlorobenzene	<2.9	ug/kg	51.6	2.9	1	12/06/18 13:46	12/07/18 05:46	108-90-7	
Chloroethane	<26.8	ug/kg	516	26.8	1	12/06/18 13:46	12/07/18 05:46	75-00-3	
Chloroform	<25.8	ug/kg	51.6	25.8	1	12/06/18 13:46	12/07/18 05:46	67-66-3	
Chloromethane	<12.4	ug/kg	206	12.4	1	12/06/18 13:46	12/07/18 05:46	74-87-3	
2-Chlorotoluene	<2.5	ug/kg	51.6	2.5	1	12/06/18 13:46	12/07/18 05:46	95-49-8	
4-Chlorotoluene	<2.6	ug/kg	51.6	2.6	1	12/06/18 13:46	12/07/18 05:46	106-43-4	
1,2-Dibromo-3-chloropropane	<180	ug/kg	516	180	1	12/06/18 13:46	12/07/18 05:46	96-12-8	
Dibromochloromethane	<6.0	ug/kg	206	6.0	1	12/06/18 13:46	12/07/18 05:46	124-48-1	
1,2-Dibromoethane (EDB)	<5.4	ug/kg	51.6	5.4	1	12/06/18 13:46	12/07/18 05:46	106-93-4	
Dibromomethane	<9.5	ug/kg	51.6	9.5	1	12/06/18 13:46	12/07/18 05:46	74-95-3	
1,2-Dichlorobenzene	<2.1	ug/kg	51.6	2.1	1	12/06/18 13:46	12/07/18 05:46	95-50-1	
1,3-Dichlorobenzene	<1.9	ug/kg	51.6	1.9	1	12/06/18 13:46	12/07/18 05:46	541-73-1	
1,4-Dichlorobenzene	<3.2	ug/kg	51.6	3.2	1	12/06/18 13:46	12/07/18 05:46	106-46-7	
Dichlorodifluoromethane	<16.7	ug/kg	206	16.7	1	12/06/18 13:46	12/07/18 05:46	75-71-8	
1,1-Dichloroethane	<5.8	ug/kg	51.6	5.8	1	12/06/18 13:46	12/07/18 05:46	75-34-3	
1,2-Dichloroethane	<5.7	ug/kg	51.6	5.7	1	12/06/18 13:46	12/07/18 05:46	107-06-2	
1,1-Dichloroethene	<15.5	ug/kg	206	15.5	1	12/06/18 13:46	12/07/18 05:46	75-35-4	
cis-1,2-Dichloroethene	<8.6	ug/kg	51.6	8.6	1	12/06/18 13:46	12/07/18 05:46	156-59-2	
trans-1,2-Dichloroethene	<24.2	ug/kg	51.6	24.2	1	12/06/18 13:46	12/07/18 05:46	156-60-5	
Dichlorofluoromethane	<71.3	ug/kg	516	71.3	1	12/06/18 13:46	12/07/18 05:46	75-43-4	N2
1,2-Dichloropropane	<8.9	ug/kg	51.6	8.9	1	12/06/18 13:46	12/07/18 05:46	78-87-5	
1,3-Dichloropropane	<7.1	ug/kg	51.6	7.1	1	12/06/18 13:46	12/07/18 05:46	142-28-9	
2,2-Dichloropropane	<6.4	ug/kg	206	6.4	1	12/06/18 13:46	12/07/18 05:46	594-20-7	
1,1-Dichloropropene	<23.8	ug/kg	51.6	23.8	1	12/06/18 13:46	12/07/18 05:46	563-58-6	
cis-1,3-Dichloropropene	<7.4	ug/kg	51.6	7.4	1	12/06/18 13:46	12/07/18 05:46	10061-01-5	
trans-1,3-Dichloropropene	<7.2	ug/kg	51.6	7.2	1	12/06/18 13:46	12/07/18 05:46	10061-02-6	
Diethyl ether (Ethyl ether)	<31.6	ug/kg	206	31.6	1	12/06/18 13:46	12/07/18 05:46	60-29-7	
Ethylbenzene	<2.8	ug/kg	51.6	2.8	1	12/06/18 13:46	12/07/18 05:46	100-41-4	
Hexachloro-1,3-butadiene	<12.6	ug/kg	258	12.6	1	12/06/18 13:46	12/07/18 05:46	87-68-3	
Isopropylbenzene (Cumene)	<2.3	ug/kg	51.6	2.3	1	12/06/18 13:46	12/07/18 05:46	98-82-8	
p-Isopropyltoluene	<15.7	ug/kg	51.6	15.7	1	12/06/18 13:46	12/07/18 05:46	99-87-6	
Methylene Chloride	<97.1	ug/kg	206	97.1	1	12/06/18 13:46	12/07/18 05:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<10.7	ug/kg	258	10.7	1	12/06/18 13:46	12/07/18 05:46	108-10-1	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-2 (6)**      **Lab ID: 10457121004**      Collected: 11/26/18 13:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	<6.1	ug/kg	51.6	6.1	1	12/06/18 13:46	12/07/18 05:46	1634-04-4	
Naphthalene	<48.3	ug/kg	206	48.3	1	12/06/18 13:46	12/07/18 05:46	91-20-3	
n-Propylbenzene	<2.8	ug/kg	51.6	2.8	1	12/06/18 13:46	12/07/18 05:46	103-65-1	
Styrene	<2.4	ug/kg	51.6	2.4	1	12/06/18 13:46	12/07/18 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	<16.2	ug/kg	51.6	16.2	1	12/06/18 13:46	12/07/18 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	<9.1	ug/kg	206	9.1	1	12/06/18 13:46	12/07/18 05:46	79-34-5	
Tetrachloroethene	<18.2	ug/kg	51.6	18.2	1	12/06/18 13:46	12/07/18 05:46	127-18-4	
Tetrahydrofuran	<75.0	ug/kg	2060	75.0	1	12/06/18 13:46	12/07/18 05:46	109-99-9	
Toluene	<12.6	ug/kg	51.6	12.6	1	12/06/18 13:46	12/07/18 05:46	108-88-3	
1,2,3-Trichlorobenzene	<8.2	ug/kg	51.6	8.2	1	12/06/18 13:46	12/07/18 05:46	87-61-6	
1,2,4-Trichlorobenzene	<11.5	ug/kg	51.6	11.5	1	12/06/18 13:46	12/07/18 05:46	120-82-1	
1,1,1-Trichloroethane	<24.0	ug/kg	51.6	24.0	1	12/06/18 13:46	12/07/18 05:46	71-55-6	
1,1,2-Trichloroethane	<6.2	ug/kg	51.6	6.2	1	12/06/18 13:46	12/07/18 05:46	79-00-5	
Trichloroethene	<8.0	ug/kg	51.6	8.0	1	12/06/18 13:46	12/07/18 05:46	79-01-6	
Trichlorofluoromethane	<90.0	ug/kg	206	90.0	1	12/06/18 13:46	12/07/18 05:46	75-69-4	
1,2,3-Trichloropropane	<13.5	ug/kg	206	13.5	1	12/06/18 13:46	12/07/18 05:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<59.9	ug/kg	206	59.9	1	12/06/18 13:46	12/07/18 05:46	76-13-1	
1,2,4-Trimethylbenzene	<10.3	ug/kg	51.6	10.3	1	12/06/18 13:46	12/07/18 05:46	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/kg	51.6	8.2	1	12/06/18 13:46	12/07/18 05:46	108-67-8	
Vinyl chloride	<10.2	ug/kg	51.6	10.2	1	12/06/18 13:46	12/07/18 05:46	75-01-4	
Xylene (Total)	<12.0	ug/kg	155	12.0	1	12/06/18 13:46	12/07/18 05:46	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1	12/06/18 13:46	12/07/18 05:46	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/06/18 13:46	12/07/18 05:46	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 05:46	460-00-4	

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<1.0	ug/kg	9.9	1.0	5	12/05/18 13:42	12/11/18 06:13	309-00-2	
alpha-BHC	<0.72	ug/kg	9.9	0.72	5	12/05/18 13:42	12/11/18 06:13	319-84-6	
beta-BHC	15.7	ug/kg	9.9	1.3	5	12/05/18 13:42	12/11/18 06:13	319-85-7	
delta-BHC	<0.82	ug/kg	9.9	0.82	5	12/05/18 13:42	12/11/18 06:13	319-86-8	
gamma-BHC (Lindane)	<0.85	ug/kg	9.9	0.85	5	12/05/18 13:42	12/11/18 06:13	58-89-9	
Chlordane (Technical)	<18.1	ug/kg	99.4	18.1	5	12/05/18 13:42	12/11/18 06:13	57-74-9	
alpha-Chlordane	18.8	ug/kg	9.9	0.80	5	12/05/18 13:42	12/11/18 06:13	5103-71-9	
gamma-Chlordane	<2.3	ug/kg	9.9	2.3	5	12/05/18 13:42	12/11/18 06:13	5103-74-2	
4,4'-DDD	<1.8	ug/kg	19.8	1.8	5	12/05/18 13:42	12/11/18 06:13	72-54-8	
4,4'-DDE	9.9J	ug/kg	19.8	1.5	5	12/05/18 13:42	12/11/18 06:13	72-55-9	
4,4'-DDT	27.3	ug/kg	19.8	2.5	5	12/05/18 13:42	12/11/18 06:13	50-29-3	
Dieldrin	4.2J	ug/kg	19.8	1.9	5	12/05/18 13:42	12/11/18 06:13	60-57-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Endosulfan I	26.1	ug/kg	9.9	0.89	5	12/05/18 13:42	12/11/18 06:13	959-98-8	
Endosulfan II	9.8J	ug/kg	19.8	2.0	5	12/05/18 13:42	12/11/18 06:13	33213-65-9	
Endosulfan sulfate	81.6	ug/kg	19.8	2.0	5	12/05/18 13:42	12/11/18 06:13	1031-07-8	
Endrin	<1.8	ug/kg	19.8	1.8	5	12/05/18 13:42	12/11/18 06:13	72-20-8	
Endrin aldehyde	43.5	ug/kg	19.8	6.2	5	12/05/18 13:42	12/11/18 06:13	7421-93-4	
Endrin ketone	22.6	ug/kg	19.8	2.3	5	12/05/18 13:42	12/11/18 06:13	53494-70-5	
Heptachlor	<1.1	ug/kg	9.9	1.1	5	12/05/18 13:42	12/11/18 06:13	76-44-8	
Heptachlor epoxide	5.0J	ug/kg	9.9	0.93	5	12/05/18 13:42	12/11/18 06:13	1024-57-3	
Methoxychlor	77.2J	ug/kg	99.4	14.9	5	12/05/18 13:42	12/11/18 06:13	72-43-5	
Toxaphene	<47.1	ug/kg	298	47.1	5	12/05/18 13:42	12/11/18 06:13	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	96	%	30-150		5	12/05/18 13:42	12/11/18 06:13	877-09-8	
Decachlorobiphenyl (S)	109	%	30-150		5	12/05/18 13:42	12/11/18 06:13	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.9	ug/kg	39.2	10.9	1	12/05/18 09:53	12/10/18 19:08	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.8	ug/kg	39.2	13.8	1	12/05/18 09:53	12/10/18 19:08	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.7	ug/kg	39.2	15.7	1	12/05/18 09:53	12/10/18 19:08	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.3	ug/kg	39.2	13.3	1	12/05/18 09:53	12/10/18 19:08	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.8	ug/kg	39.2	11.8	1	12/05/18 09:53	12/10/18 19:08	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.5	ug/kg	39.2	11.5	1	12/05/18 09:53	12/10/18 19:08	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.4	ug/kg	39.2	9.4	1	12/05/18 09:53	12/10/18 19:08	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/05/18 09:53	12/10/18 19:08	877-09-8	
Decachlorobiphenyl (S)	101	%	30-134		1	12/05/18 09:53	12/10/18 19:08	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	5.6J	mg/kg	17.3	2.8	1	12/04/18 18:01	12/12/18 13:56	68334-30-5	
Motor Oil Range	19.1	mg/kg	11.5	5.0	1	12/04/18 18:01	12/12/18 13:56		
<b>Surrogates</b>									
n-Triacontane (S)	104	%	50-150		1	12/04/18 18:01	12/12/18 13:56	638-68-6	
o-Terphenyl (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 13:56	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.77	mg/kg	5.9	0.77	1	12/07/18 15:19	12/08/18 00:17		1M
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	79	%	50-150		1	12/07/18 15:19	12/08/18 00:17	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.42	mg/kg	1.1	0.42	1	12/06/18 14:27	12/07/18 18:44	7440-36-0	
Arsenic	1.4	mg/kg	1.1	0.23	1	12/06/18 14:27	12/07/18 18:44	7440-38-2	
Beryllium	0.40	mg/kg	0.28	0.015	1	12/06/18 14:27	12/07/18 18:44	7440-41-7	
Cadmium	0.14J	mg/kg	0.17	0.022	1	12/06/18 14:27	12/07/18 18:44	7440-43-9	
Chromium	6.4	mg/kg	0.55	0.095	1	12/06/18 14:27	12/07/18 18:44	7440-47-3	
Copper	17.9	mg/kg	0.55	0.061	1	12/06/18 14:27	12/07/18 18:44	7440-50-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Lead	29.7	mg/kg	0.55	0.12	1	12/06/18 14:27	12/07/18 18:44	7439-92-1	
Nickel	4.9	mg/kg	1.1	0.069	1	12/06/18 14:27	12/07/18 18:44	7440-02-0	
Selenium	<0.36	mg/kg	1.1	0.36	1	12/06/18 14:27	12/07/18 18:44	7782-49-2	
Silver	0.048J	mg/kg	0.55	0.040	1	12/06/18 14:27	12/07/18 18:44	7440-22-4	
Thallium	<0.25	mg/kg	1.1	0.25	1	12/06/18 14:27	12/07/18 18:44	7440-28-0	
Zinc	61.8	mg/kg	1.1	0.48	1	12/06/18 14:27	12/07/18 18:44	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.073	mg/kg	0.022	0.0090	1	12/06/18 14:29	12/12/18 15:31	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	16.1	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Acenaphthene	<41.7	ug/kg	391	41.7	1	12/10/18 08:54	12/13/18 18:35	83-32-9	
Acenaphthylene	<49.9	ug/kg	391	49.9	1	12/10/18 08:54	12/13/18 18:35	208-96-8	
Anthracene	<45.8	ug/kg	391	45.8	1	12/10/18 08:54	12/13/18 18:35	120-12-7	
Benzo(a)anthracene	164J	ug/kg	391	40.2	1	12/10/18 08:54	12/13/18 18:35	56-55-3	R1
Benzo(a)pyrene	182J	ug/kg	391	44.3	1	12/10/18 08:54	12/13/18 18:35	50-32-8	R1
Benzo(b)fluoranthene	195J	ug/kg	391	38.3	1	12/10/18 08:54	12/13/18 18:35	205-99-2	
Benzo(g,h,i)perylene	118J	ug/kg	391	41.8	1	12/10/18 08:54	12/13/18 18:35	191-24-2	
Benzo(k)fluoranthene	75.8J	ug/kg	391	48.8	1	12/10/18 08:54	12/13/18 18:35	207-08-9	
4-Bromophenylphenyl ether	<46.6	ug/kg	391	46.6	1	12/10/18 08:54	12/13/18 18:35	101-55-3	
Butylbenzylphthalate	<35.8	ug/kg	391	35.8	1	12/10/18 08:54	12/13/18 18:35	85-68-7	
Carbazole	<32.5	ug/kg	391	32.5	1	12/10/18 08:54	12/13/18 18:35	86-74-8	
4-Chloro-3-methylphenol	<62.5	ug/kg	391	62.5	1	12/10/18 08:54	12/13/18 18:35	59-50-7	
4-Chloroaniline	<104	ug/kg	391	104	1	12/10/18 08:54	12/13/18 18:35	106-47-8	
bis(2-Chloroethoxy)methane	<40.0	ug/kg	391	40.0	1	12/10/18 08:54	12/13/18 18:35	111-91-1	
bis(2-Chloroethyl) ether	<30.9	ug/kg	391	30.9	1	12/10/18 08:54	12/13/18 18:35	111-44-4	
bis(2-Chloroisopropyl) ether	<40.3	ug/kg	391	40.3	1	12/10/18 08:54	12/13/18 18:35	108-60-1	
2-Chloronaphthalene	<34.6	ug/kg	391	34.6	1	12/10/18 08:54	12/13/18 18:35	91-58-7	
2-Chlorophenol	<44.5	ug/kg	391	44.5	1	12/10/18 08:54	12/13/18 18:35	95-57-8	
4-Chlorophenylphenyl ether	<48.5	ug/kg	391	48.5	1	12/10/18 08:54	12/13/18 18:35	7005-72-3	
Chrysene	159J	ug/kg	391	41.2	1	12/10/18 08:54	12/13/18 18:35	218-01-9	R1
Dibenz(a,h)anthracene	<41.6	ug/kg	391	41.6	1	12/10/18 08:54	12/13/18 18:35	53-70-3	
Dibenzofuran	<49.5	ug/kg	391	49.5	1	12/10/18 08:54	12/13/18 18:35	132-64-9	
1,2-Dichlorobenzene	<41.0	ug/kg	391	41.0	1	12/10/18 08:54	12/13/18 18:35	95-50-1	
1,3-Dichlorobenzene	<26.8	ug/kg	391	26.8	1	12/10/18 08:54	12/13/18 18:35	541-73-1	
1,4-Dichlorobenzene	<43.5	ug/kg	391	43.5	1	12/10/18 08:54	12/13/18 18:35	106-46-7	
3,3'-Dichlorobenzidine	<131	ug/kg	391	131	1	12/10/18 08:54	12/13/18 18:35	91-94-1	
2,4-Dichlorophenol	<65.3	ug/kg	391	65.3	1	12/10/18 08:54	12/13/18 18:35	120-83-2	
Diethylphthalate	<34.8	ug/kg	391	34.8	1	12/10/18 08:54	12/13/18 18:35	84-66-2	
2,4-Dimethylphenol	<153	ug/kg	391	153	1	12/10/18 08:54	12/13/18 18:35	105-67-9	
Dimethylphthalate	<53.1	ug/kg	391	53.1	1	12/10/18 08:54	12/13/18 18:35	131-11-3	
Di-n-butylphthalate	<53.5	ug/kg	391	53.5	1	12/10/18 08:54	12/13/18 18:35	84-74-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
4,6-Dinitro-2-methylphenol	<387	ug/kg	2010	387	1	12/10/18 08:54	12/13/18 18:35	534-52-1	
2,4-Dinitrophenol	<182	ug/kg	391	182	1	12/10/18 08:54	12/13/18 18:35	51-28-5	
2,4-Dinitrotoluene	<49.8	ug/kg	391	49.8	1	12/10/18 08:54	12/13/18 18:35	121-14-2	
2,6-Dinitrotoluene	<51.8	ug/kg	391	51.8	1	12/10/18 08:54	12/13/18 18:35	606-20-2	
Di-n-octylphthalate	<45.4	ug/kg	391	45.4	1	12/10/18 08:54	12/13/18 18:35	117-84-0	
1,2-Diphenylhydrazine	<48.0	ug/kg	391	48.0	1	12/10/18 08:54	12/13/18 18:35	122-66-7	
bis(2-Ethylhexyl)phthalate	<81.5	ug/kg	391	81.5	1	12/10/18 08:54	12/13/18 18:35	117-81-7	
Fluoranthene	272J	ug/kg	391	44.9	1	12/10/18 08:54	12/13/18 18:35	206-44-0	R1
Fluorene	<179	ug/kg	391	179	1	12/10/18 08:54	12/13/18 18:35	86-73-7	
Hexachloro-1,3-butadiene	<59.5	ug/kg	391	59.5	1	12/10/18 08:54	12/13/18 18:35	87-68-3	
Hexachlorobenzene	<63.7	ug/kg	391	63.7	1	12/10/18 08:54	12/13/18 18:35	118-74-1	
Hexachloroethane	<50.8	ug/kg	391	50.8	1	12/10/18 08:54	12/13/18 18:35	67-72-1	
Indeno(1,2,3-cd)pyrene	102J	ug/kg	391	23.6	1	12/10/18 08:54	12/13/18 18:35	193-39-5	
Isophorone	<30.1	ug/kg	391	30.1	1	12/10/18 08:54	12/13/18 18:35	78-59-1	
1-Methylnaphthalene	<36.1	ug/kg	391	36.1	1	12/10/18 08:54	12/13/18 18:35	90-12-0	
2-Methylnaphthalene	<35.3	ug/kg	391	35.3	1	12/10/18 08:54	12/13/18 18:35	91-57-6	
2-Methylphenol(o-Cresol)	<24.4	ug/kg	391	24.4	1	12/10/18 08:54	12/13/18 18:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.0	ug/kg	782	22.0	1	12/10/18 08:54	12/13/18 18:35		
Naphthalene	<30.1	ug/kg	391	30.1	1	12/10/18 08:54	12/13/18 18:35	91-20-3	
2-Nitroaniline	<98.1	ug/kg	391	98.1	1	12/10/18 08:54	12/13/18 18:35	88-74-4	
3-Nitroaniline	<42.6	ug/kg	391	42.6	1	12/10/18 08:54	12/13/18 18:35	99-09-2	L2
4-Nitroaniline	<57.1	ug/kg	391	57.1	1	12/10/18 08:54	12/13/18 18:35	100-01-6	
Nitrobenzene	<43.0	ug/kg	391	43.0	1	12/10/18 08:54	12/13/18 18:35	98-95-3	
2-Nitrophenol	<47.6	ug/kg	391	47.6	1	12/10/18 08:54	12/13/18 18:35	88-75-5	
4-Nitrophenol	<75.8	ug/kg	391	75.8	1	12/10/18 08:54	12/13/18 18:35	100-02-7	
N-Nitrosodimethylamine	<48.0	ug/kg	391	48.0	1	12/10/18 08:54	12/13/18 18:35	62-75-9	
N-Nitroso-di-n-propylamine	<179	ug/kg	391	179	1	12/10/18 08:54	12/13/18 18:35	621-64-7	
N-Nitrosodiphenylamine	<25.4	ug/kg	391	25.4	1	12/10/18 08:54	12/13/18 18:35	86-30-6	
Pentachlorophenol	<229	ug/kg	794	229	1	12/10/18 08:54	12/13/18 18:35	87-86-5	
Phenanthrene	46.3J	ug/kg	391	45.5	1	12/10/18 08:54	12/13/18 18:35	85-01-8	
Phenol	<25.6	ug/kg	391	25.6	1	12/10/18 08:54	12/13/18 18:35	108-95-2	
Pyrene	305J	ug/kg	391	29.7	1	12/10/18 08:54	12/13/18 18:35	129-00-0	R1
1,2,4-Trichlorobenzene	<42.9	ug/kg	391	42.9	1	12/10/18 08:54	12/13/18 18:35	120-82-1	
2,4,5-Trichlorophenol	<50.3	ug/kg	391	50.3	1	12/10/18 08:54	12/13/18 18:35	95-95-4	
2,4,6-Trichlorophenol	<60.5	ug/kg	391	60.5	1	12/10/18 08:54	12/13/18 18:35	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	69	%	43-125		1	12/10/18 08:54	12/13/18 18:35	4165-60-0	
2-Fluorobiphenyl (S)	70	%	30-132		1	12/10/18 08:54	12/13/18 18:35	321-60-8	
p-Terphenyl-d14 (S)	79	%	62-125		1	12/10/18 08:54	12/13/18 18:35	1718-51-0	
Phenol-d6 (S)	67	%	48-125		1	12/10/18 08:54	12/13/18 18:35	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/10/18 08:54	12/13/18 18:35	367-12-4	
2,4,6-Tribromophenol (S)	70	%	60-125		1	12/10/18 08:54	12/13/18 18:35	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.5	0.25	1	03/04/19 09:00	03/04/19 16:19	106-93-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Methylene Chloride	<4.1	ug/kg	22.5	4.1	1	03/04/19 09:00	03/04/19 16:19	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 16:19	17060-07-0	4M, H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 16:19	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/04/19 09:00	03/04/19 16:19	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<18.9	ug/kg	60.3	18.9	1	12/06/18 13:46	12/07/18 06:04	630-20-6	
1,1,1-Trichloroethane	<28.1	ug/kg	60.3	28.1	1	12/06/18 13:46	12/07/18 06:04	71-55-6	
1,1,2,2-Tetrachloroethane	<10.6	ug/kg	241	10.6	1	12/06/18 13:46	12/07/18 06:04	79-34-5	
1,1,2-Trichloroethane	<7.2	ug/kg	60.3	7.2	1	12/06/18 13:46	12/07/18 06:04	79-00-5	
1,1,2-Trichlorotrifluoroethane	<69.9	ug/kg	241	69.9	1	12/06/18 13:46	12/07/18 06:04	76-13-1	
1,1-Dichloroethane	<6.8	ug/kg	60.3	6.8	1	12/06/18 13:46	12/07/18 06:04	75-34-3	
1,1-Dichloroethene	<18.1	ug/kg	241	18.1	1	12/06/18 13:46	12/07/18 06:04	75-35-4	
1,1-Dichloropropene	<27.8	ug/kg	60.3	27.8	1	12/06/18 13:46	12/07/18 06:04	563-58-6	
1,2,3-Trichlorobenzene	<9.6	ug/kg	60.3	9.6	1	12/06/18 13:46	12/07/18 06:04	87-61-6	
1,2,3-Trichloropropane	<15.8	ug/kg	241	15.8	1	12/06/18 13:46	12/07/18 06:04	96-18-4	
1,2,4-Trichlorobenzene	<13.4	ug/kg	60.3	13.4	1	12/06/18 13:46	12/07/18 06:04	120-82-1	
1,2,4-Trimethylbenzene	<12.1	ug/kg	60.3	12.1	1	12/06/18 13:46	12/07/18 06:04	95-63-6	
1,2-Dibromo-3-chloropropane	<210	ug/kg	603	210	1	12/06/18 13:46	12/07/18 06:04	96-12-8	
1,2-Dibromoethane (EDB)	<6.3	ug/kg	60.3	6.3	1	12/06/18 13:46	12/07/18 06:04	106-93-4	
1,2-Dichlorobenzene	<2.4	ug/kg	60.3	2.4	1	12/06/18 13:46	12/07/18 06:04	95-50-1	
1,2-Dichloroethane	<6.6	ug/kg	60.3	6.6	1	12/06/18 13:46	12/07/18 06:04	107-06-2	
1,2-Dichloropropane	<10.4	ug/kg	60.3	10.4	1	12/06/18 13:46	12/07/18 06:04	78-87-5	
1,3,5-Trimethylbenzene	<9.6	ug/kg	60.3	9.6	1	12/06/18 13:46	12/07/18 06:04	108-67-8	
1,3-Dichlorobenzene	<2.2	ug/kg	60.3	2.2	1	12/06/18 13:46	12/07/18 06:04	541-73-1	
1,3-Dichloropropane	<8.3	ug/kg	60.3	8.3	1	12/06/18 13:46	12/07/18 06:04	142-28-9	
1,4-Dichlorobenzene	<3.7	ug/kg	60.3	3.7	1	12/06/18 13:46	12/07/18 06:04	106-46-7	
2,2-Dichloropropane	<7.5	ug/kg	241	7.5	1	12/06/18 13:46	12/07/18 06:04	594-20-7	
2-Butanone (MEK)	<32.1	ug/kg	301	32.1	1	12/06/18 13:46	12/07/18 06:04	78-93-3	
2-Chlorotoluene	<3.0	ug/kg	60.3	3.0	1	12/06/18 13:46	12/07/18 06:04	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	60.3	3.1	1	12/06/18 13:46	12/07/18 06:04	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.5	ug/kg	301	12.5	1	12/06/18 13:46	12/07/18 06:04	108-10-1	
Acetone	<375	ug/kg	1210	375	1	12/06/18 13:46	12/07/18 06:04	67-64-1	
Allyl chloride	<50.5	ug/kg	241	50.5	1	12/06/18 13:46	12/07/18 06:04	107-05-1	
Benzene	<3.4	ug/kg	24.1	3.4	1	12/06/18 13:46	12/07/18 06:04	71-43-2	
Bromobenzene	<3.7	ug/kg	60.3	3.7	1	12/06/18 13:46	12/07/18 06:04	108-86-1	
Bromochloromethane	<20.9	ug/kg	60.3	20.9	1	12/06/18 13:46	12/07/18 06:04	74-97-5	
Bromodichloromethane	<20.6	ug/kg	60.3	20.6	1	12/06/18 13:46	12/07/18 06:04	75-27-4	
Bromoform	<91.2	ug/kg	241	91.2	1	12/06/18 13:46	12/07/18 06:04	75-25-2	
Bromomethane	<70.5	ug/kg	603	70.5	1	12/06/18 13:46	12/07/18 06:04	74-83-9	
Carbon tetrachloride	<28.8	ug/kg	60.3	28.8	1	12/06/18 13:46	12/07/18 06:04	56-23-5	
Chlorobenzene	<3.4	ug/kg	60.3	3.4	1	12/06/18 13:46	12/07/18 06:04	108-90-7	
Chloroethane	<31.3	ug/kg	603	31.3	1	12/06/18 13:46	12/07/18 06:04	75-00-3	
Chloroform	<30.1	ug/kg	60.3	30.1	1	12/06/18 13:46	12/07/18 06:04	67-66-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (3)**      **Lab ID: 10457121005**      Collected: 11/26/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Chloromethane	<14.5	ug/kg	241	14.5	1	12/06/18 13:46	12/07/18 06:04	74-87-3	
Dibromochloromethane	<7.0	ug/kg	241	7.0	1	12/06/18 13:46	12/07/18 06:04	124-48-1	
Dibromomethane	<11.1	ug/kg	60.3	11.1	1	12/06/18 13:46	12/07/18 06:04	74-95-3	
Dichlorodifluoromethane	<19.5	ug/kg	241	19.5	1	12/06/18 13:46	12/07/18 06:04	75-71-8	
Dichlorofluoromethane	<83.3	ug/kg	603	83.3	1	12/06/18 13:46	12/07/18 06:04	75-43-4	N2
Diethyl ether (Ethyl ether)	<36.9	ug/kg	241	36.9	1	12/06/18 13:46	12/07/18 06:04	60-29-7	
Ethylbenzene	<3.3	ug/kg	60.3	3.3	1	12/06/18 13:46	12/07/18 06:04	100-41-4	
Hexachloro-1,3-butadiene	<14.7	ug/kg	301	14.7	1	12/06/18 13:46	12/07/18 06:04	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	60.3	2.7	1	12/06/18 13:46	12/07/18 06:04	98-82-8	
Methyl-tert-butyl ether	<7.2	ug/kg	60.3	7.2	1	12/06/18 13:46	12/07/18 06:04	1634-04-4	
Methylene Chloride	<113	ug/kg	241	113	1	12/06/18 13:46	12/07/18 06:04	75-09-2	
Naphthalene	<56.4	ug/kg	241	56.4	1	12/06/18 13:46	12/07/18 06:04	91-20-3	
Styrene	<2.7	ug/kg	60.3	2.7	1	12/06/18 13:46	12/07/18 06:04	100-42-5	
Tetrachloroethene	<21.2	ug/kg	60.3	21.2	1	12/06/18 13:46	12/07/18 06:04	127-18-4	
Tetrahydrofuran	<87.6	ug/kg	2410	87.6	1	12/06/18 13:46	12/07/18 06:04	109-99-9	
Toluene	<14.7	ug/kg	60.3	14.7	1	12/06/18 13:46	12/07/18 06:04	108-88-3	
Trichloroethene	<9.3	ug/kg	60.3	9.3	1	12/06/18 13:46	12/07/18 06:04	79-01-6	
Trichlorofluoromethane	<105	ug/kg	241	105	1	12/06/18 13:46	12/07/18 06:04	75-69-4	
Vinyl chloride	<11.9	ug/kg	60.3	11.9	1	12/06/18 13:46	12/07/18 06:04	75-01-4	
Xylene (Total)	<14.0	ug/kg	181	14.0	1	12/06/18 13:46	12/07/18 06:04	1330-20-7	
cis-1,2-Dichloroethene	<10	ug/kg	60.3	10	1	12/06/18 13:46	12/07/18 06:04	156-59-2	
cis-1,3-Dichloropropene	<8.6	ug/kg	60.3	8.6	1	12/06/18 13:46	12/07/18 06:04	10061-01-5	
n-Butylbenzene	<28.7	ug/kg	60.3	28.7	1	12/06/18 13:46	12/07/18 06:04	104-51-8	
n-Propylbenzene	<3.2	ug/kg	60.3	3.2	1	12/06/18 13:46	12/07/18 06:04	103-65-1	
p-Isopropyltoluene	<18.3	ug/kg	60.3	18.3	1	12/06/18 13:46	12/07/18 06:04	99-87-6	
sec-Butylbenzene	<11.5	ug/kg	60.3	11.5	1	12/06/18 13:46	12/07/18 06:04	135-98-8	
tert-Butylbenzene	<11.6	ug/kg	60.3	11.6	1	12/06/18 13:46	12/07/18 06:04	98-06-6	
trans-1,2-Dichloroethene	<28.2	ug/kg	60.3	28.2	1	12/06/18 13:46	12/07/18 06:04	156-60-5	
trans-1,3-Dichloropropene	<8.4	ug/kg	60.3	8.4	1	12/06/18 13:46	12/07/18 06:04	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 06:04	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 06:04	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 06:04	460-00-4	

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 01:45	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 01:45	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 01:45	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:45	319-86-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
gamma-BHC (Lindane)	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:45	58-89-9	
Chlordane (Technical)	<3.3	ug/kg	18.0	3.3	1	12/05/18 13:42	12/12/18 01:45	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 01:45	5103-71-9	
gamma-Chlordane	<0.41	ug/kg	1.8	0.41	1	12/05/18 13:42	12/12/18 01:45	5103-74-2	
4,4'-DDD	<0.33	ug/kg	3.6	0.33	1	12/05/18 13:42	12/12/18 01:45	72-54-8	
4,4'-DDE	<0.27	ug/kg	3.6	0.27	1	12/05/18 13:42	12/12/18 01:45	72-55-9	
4,4'-DDT	<0.45	ug/kg	3.6	0.45	1	12/05/18 13:42	12/12/18 01:45	50-29-3	
Dieldrin	<0.35	ug/kg	3.6	0.35	1	12/05/18 13:42	12/12/18 01:45	60-57-1	
Endosulfan I	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 01:45	959-98-8	
Endosulfan II	<0.36	ug/kg	3.6	0.36	1	12/05/18 13:42	12/12/18 01:45	33213-65-9	
Endosulfan sulfate	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 01:45	1031-07-8	
Endrin	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 01:45	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.6	1.1	1	12/05/18 13:42	12/12/18 01:45	7421-93-4	
Endrin ketone	<0.43	ug/kg	3.6	0.43	1	12/05/18 13:42	12/12/18 01:45	53494-70-5	
Heptachlor	<0.19	ug/kg	1.8	0.19	1	12/05/18 13:42	12/12/18 01:45	76-44-8	
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 01:45	1024-57-3	
Methoxychlor	<2.7	ug/kg	18.0	2.7	1	12/05/18 13:42	12/12/18 01:45	72-43-5	
Toxaphene	<8.5	ug/kg	54.0	8.5	1	12/05/18 13:42	12/12/18 01:45	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	105	%	30-150		1	12/05/18 13:42	12/12/18 01:45	877-09-8	
Decachlorobiphenyl (S)	92	%	30-150		1	12/05/18 13:42	12/12/18 01:45	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<9.9	ug/kg	35.7	9.9	1	12/05/18 09:53	12/10/18 19:24	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.5	ug/kg	35.7	12.5	1	12/05/18 09:53	12/10/18 19:24	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.3	ug/kg	35.7	14.3	1	12/05/18 09:53	12/10/18 19:24	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.1	ug/kg	35.7	12.1	1	12/05/18 09:53	12/10/18 19:24	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.7	ug/kg	35.7	10.7	1	12/05/18 09:53	12/10/18 19:24	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.5	ug/kg	35.7	10.5	1	12/05/18 09:53	12/10/18 19:24	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.5	ug/kg	35.7	8.5	1	12/05/18 09:53	12/10/18 19:24	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	48-125		1	12/05/18 09:53	12/10/18 19:24	877-09-8	
Decachlorobiphenyl (S)	110	%	30-134		1	12/05/18 09:53	12/10/18 19:24	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.6	mg/kg	16.1	2.6	1	12/04/18 18:01	12/12/18 14:30	68334-30-5	
Motor Oil Range	5.5J	mg/kg	10.8	4.7	1	12/04/18 18:01	12/12/18 14:30		
<b>Surrogates</b>									
n-Triacontane (S)	109	%	50-150		1	12/04/18 18:01	12/12/18 14:30	638-68-6	
o-Terphenyl (S)	100	%	50-150		1	12/04/18 18:01	12/12/18 14:30	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.78	mg/kg	6.0	0.78	1	12/07/18 15:19	12/08/18 00:34		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	68	%	50-150		1	12/07/18 15:19	12/08/18 00:34	98-08-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<0.38	mg/kg	1.0	0.38	1	12/06/18 14:27	12/07/18 18:47	7440-36-0	
Arsenic	1.0	mg/kg	1.0	0.21	1	12/06/18 14:27	12/07/18 18:47	7440-38-2	
Beryllium	0.33	mg/kg	0.25	0.013	1	12/06/18 14:27	12/07/18 18:47	7440-41-7	
Cadmium	0.023J	mg/kg	0.15	0.020	1	12/06/18 14:27	12/07/18 18:47	7440-43-9	
Chromium	3.5	mg/kg	0.50	0.086	1	12/06/18 14:27	12/07/18 18:47	7440-47-3	
Copper	9.6	mg/kg	0.50	0.056	1	12/06/18 14:27	12/07/18 18:47	7440-50-8	
Lead	3.5	mg/kg	0.50	0.11	1	12/06/18 14:27	12/07/18 18:47	7439-92-1	
Nickel	3.1	mg/kg	1.0	0.063	1	12/06/18 14:27	12/07/18 18:47	7440-02-0	
Selenium	<0.33	mg/kg	1.0	0.33	1	12/06/18 14:27	12/07/18 18:47	7782-49-2	
Silver	<0.036	mg/kg	0.50	0.036	1	12/06/18 14:27	12/07/18 18:47	7440-22-4	
Thallium	0.27J	mg/kg	1.0	0.23	1	12/06/18 14:27	12/07/18 18:47	7440-28-0	
Zinc	44.5	mg/kg	1.0	0.44	1	12/06/18 14:27	12/07/18 18:47	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	0.017J	mg/kg	0.020	0.0079	1	12/06/18 14:29	12/12/18 15:33	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	7.8	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Acenaphthene	<38.0	ug/kg	356	38.0	1	12/03/18 15:17	12/04/18 22:07	83-32-9	
Acenaphthylene	<45.4	ug/kg	356	45.4	1	12/03/18 15:17	12/04/18 22:07	208-96-8	
Anthracene	<41.8	ug/kg	356	41.8	1	12/03/18 15:17	12/04/18 22:07	120-12-7	
Benzo(a)anthracene	<36.6	ug/kg	356	36.6	1	12/03/18 15:17	12/04/18 22:07	56-55-3	
Benzo(a)pyrene	<40.4	ug/kg	356	40.4	1	12/03/18 15:17	12/04/18 22:07	50-32-8	
Benzo(b)fluoranthene	<34.9	ug/kg	356	34.9	1	12/03/18 15:17	12/04/18 22:07	205-99-2	
Benzo(g,h,i)perylene	<38.1	ug/kg	356	38.1	1	12/03/18 15:17	12/04/18 22:07	191-24-2	
Benzo(k)fluoranthene	<44.5	ug/kg	356	44.5	1	12/03/18 15:17	12/04/18 22:07	207-08-9	
4-Bromophenylphenyl ether	<42.4	ug/kg	356	42.4	1	12/03/18 15:17	12/04/18 22:07	101-55-3	
Butylbenzylphthalate	<32.6	ug/kg	356	32.6	1	12/03/18 15:17	12/04/18 22:07	85-68-7	
Carbazole	<29.6	ug/kg	356	29.6	1	12/03/18 15:17	12/04/18 22:07	86-74-8	
4-Chloro-3-methylphenol	<57.0	ug/kg	356	57.0	1	12/03/18 15:17	12/04/18 22:07	59-50-7	
4-Chloroaniline	<94.9	ug/kg	356	94.9	1	12/03/18 15:17	12/04/18 22:07	106-47-8	
bis(2-Chloroethoxy)methane	<36.5	ug/kg	356	36.5	1	12/03/18 15:17	12/04/18 22:07	111-91-1	
bis(2-Chloroethyl) ether	<28.2	ug/kg	356	28.2	1	12/03/18 15:17	12/04/18 22:07	111-44-4	
bis(2-Chloroisopropyl) ether	<36.7	ug/kg	356	36.7	1	12/03/18 15:17	12/04/18 22:07	108-60-1	
2-Chloronaphthalene	<31.5	ug/kg	356	31.5	1	12/03/18 15:17	12/04/18 22:07	91-58-7	
2-Chlorophenol	<40.6	ug/kg	356	40.6	1	12/03/18 15:17	12/04/18 22:07	95-57-8	
4-Chlorophenylphenyl ether	<44.1	ug/kg	356	44.1	1	12/03/18 15:17	12/04/18 22:07	7005-72-3	
Chrysene	<37.6	ug/kg	356	37.6	1	12/03/18 15:17	12/04/18 22:07	218-01-9	
Dibenz(a,h)anthracene	<37.9	ug/kg	356	37.9	1	12/03/18 15:17	12/04/18 22:07	53-70-3	
Dibenzofuran	<45.1	ug/kg	356	45.1	1	12/03/18 15:17	12/04/18 22:07	132-64-9	
1,2-Dichlorobenzene	<37.3	ug/kg	356	37.3	1	12/03/18 15:17	12/04/18 22:07	95-50-1	
1,3-Dichlorobenzene	<24.4	ug/kg	356	24.4	1	12/03/18 15:17	12/04/18 22:07	541-73-1	
1,4-Dichlorobenzene	<39.6	ug/kg	356	39.6	1	12/03/18 15:17	12/04/18 22:07	106-46-7	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
3,3'-Dichlorobenzidine	<120	ug/kg	356	120	1	12/03/18 15:17	12/04/18 22:07	91-94-1	
2,4-Dichlorophenol	<59.5	ug/kg	356	59.5	1	12/03/18 15:17	12/04/18 22:07	120-83-2	
Diethylphthalate	<31.7	ug/kg	356	31.7	1	12/03/18 15:17	12/04/18 22:07	84-66-2	
2,4-Dimethylphenol	<139	ug/kg	356	139	1	12/03/18 15:17	12/04/18 22:07	105-67-9	
Dimethylphthalate	<48.3	ug/kg	356	48.3	1	12/03/18 15:17	12/04/18 22:07	131-11-3	
Di-n-butylphthalate	<48.8	ug/kg	356	48.8	1	12/03/18 15:17	12/04/18 22:07	84-74-2	
4,6-Dinitro-2-methylphenol	<353	ug/kg	1830	353	1	12/03/18 15:17	12/04/18 22:07	534-52-1	
2,4-Dinitrophenol	<166	ug/kg	356	166	1	12/03/18 15:17	12/04/18 22:07	51-28-5	
2,4-Dinitrotoluene	<45.3	ug/kg	356	45.3	1	12/03/18 15:17	12/04/18 22:07	121-14-2	
2,6-Dinitrotoluene	<47.2	ug/kg	356	47.2	1	12/03/18 15:17	12/04/18 22:07	606-20-2	
Di-n-octylphthalate	<41.3	ug/kg	356	41.3	1	12/03/18 15:17	12/04/18 22:07	117-84-0	
1,2-Diphenylhydrazine	<43.7	ug/kg	356	43.7	1	12/03/18 15:17	12/04/18 22:07	122-66-7	
bis(2-Ethylhexyl)phthalate	<74.2	ug/kg	356	74.2	1	12/03/18 15:17	12/04/18 22:07	117-81-7	
Fluoranthene	<40.9	ug/kg	356	40.9	1	12/03/18 15:17	12/04/18 22:07	206-44-0	
Fluorene	<163	ug/kg	356	163	1	12/03/18 15:17	12/04/18 22:07	86-73-7	
Hexachloro-1,3-butadiene	<54.2	ug/kg	356	54.2	1	12/03/18 15:17	12/04/18 22:07	87-68-3	
Hexachlorobenzene	<58.1	ug/kg	356	58.1	1	12/03/18 15:17	12/04/18 22:07	118-74-1	
Hexachloroethane	<46.3	ug/kg	356	46.3	1	12/03/18 15:17	12/04/18 22:07	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.5	ug/kg	356	21.5	1	12/03/18 15:17	12/04/18 22:07	193-39-5	
Isophorone	<27.4	ug/kg	356	27.4	1	12/03/18 15:17	12/04/18 22:07	78-59-1	
1-Methylnaphthalene	<32.9	ug/kg	356	32.9	1	12/03/18 15:17	12/04/18 22:07	90-12-0	
2-Methylnaphthalene	<32.2	ug/kg	356	32.2	1	12/03/18 15:17	12/04/18 22:07	91-57-6	
2-Methylphenol(o-Cresol)	<22.2	ug/kg	356	22.2	1	12/03/18 15:17	12/04/18 22:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.1	ug/kg	712	20.1	1	12/03/18 15:17	12/04/18 22:07		
Naphthalene	<27.4	ug/kg	356	27.4	1	12/03/18 15:17	12/04/18 22:07	91-20-3	
2-Nitroaniline	<89.4	ug/kg	356	89.4	1	12/03/18 15:17	12/04/18 22:07	88-74-4	
3-Nitroaniline	<38.8	ug/kg	356	38.8	1	12/03/18 15:17	12/04/18 22:07	99-09-2	
4-Nitroaniline	<52.0	ug/kg	356	52.0	1	12/03/18 15:17	12/04/18 22:07	100-01-6	
Nitrobenzene	<39.2	ug/kg	356	39.2	1	12/03/18 15:17	12/04/18 22:07	98-95-3	
2-Nitrophenol	<43.4	ug/kg	356	43.4	1	12/03/18 15:17	12/04/18 22:07	88-75-5	
4-Nitrophenol	<69.1	ug/kg	356	69.1	1	12/03/18 15:17	12/04/18 22:07	100-02-7	
N-Nitrosodimethylamine	<43.7	ug/kg	356	43.7	1	12/03/18 15:17	12/04/18 22:07	62-75-9	
N-Nitroso-di-n-propylamine	<163	ug/kg	356	163	1	12/03/18 15:17	12/04/18 22:07	621-64-7	
N-Nitrosodiphenylamine	<23.1	ug/kg	356	23.1	1	12/03/18 15:17	12/04/18 22:07	86-30-6	
Pentachlorophenol	<208	ug/kg	723	208	1	12/03/18 15:17	12/04/18 22:07	87-86-5	
Phenanthrene	<41.4	ug/kg	356	41.4	1	12/03/18 15:17	12/04/18 22:07	85-01-8	
Phenol	<23.3	ug/kg	356	23.3	1	12/03/18 15:17	12/04/18 22:07	108-95-2	
Pyrene	<27.1	ug/kg	356	27.1	1	12/03/18 15:17	12/04/18 22:07	129-00-0	
1,2,4-Trichlorobenzene	<39.1	ug/kg	356	39.1	1	12/03/18 15:17	12/04/18 22:07	120-82-1	
2,4,5-Trichlorophenol	<45.9	ug/kg	356	45.9	1	12/03/18 15:17	12/04/18 22:07	95-95-4	
2,4,6-Trichlorophenol	<55.1	ug/kg	356	55.1	1	12/03/18 15:17	12/04/18 22:07	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	73	%	43-125		1	12/03/18 15:17	12/04/18 22:07	4165-60-0	
2-Fluorobiphenyl (S)	72	%	30-132		1	12/03/18 15:17	12/04/18 22:07	321-60-8	
p-Terphenyl-d14 (S)	84	%	62-125		1	12/03/18 15:17	12/04/18 22:07	1718-51-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
<b>Surrogates</b>									
Phenol-d6 (S)	70	%	48-125		1	12/03/18 15:17	12/04/18 22:07	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/03/18 15:17	12/04/18 22:07	367-12-4	
2,4,6-Tribromophenol (S)	72	%	60-125		1	12/03/18 15:17	12/04/18 22:07	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.23	ug/kg	4.0	0.23	1	03/04/19 09:00	03/04/19 16:38	106-93-4	
Methylene Chloride	<3.7	ug/kg	20.2	3.7	1	03/04/19 09:00	03/04/19 16:38	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	122	%	75-125		1	03/04/19 09:00	03/04/19 16:38	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 16:38	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/04/19 09:00	03/04/19 16:38	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>811J</b>	ug/kg	1120	348	1	12/06/18 13:46	12/07/18 06:23	67-64-1	B
Allyl chloride	<46.9	ug/kg	224	46.9	1	12/06/18 13:46	12/07/18 06:23	107-05-1	
Benzene	<3.2	ug/kg	22.4	3.2	1	12/06/18 13:46	12/07/18 06:23	71-43-2	
Bromobenzene	<3.4	ug/kg	56.0	3.4	1	12/06/18 13:46	12/07/18 06:23	108-86-1	
Bromochloromethane	<19.4	ug/kg	56.0	19.4	1	12/06/18 13:46	12/07/18 06:23	74-97-5	
Bromodichloromethane	<19.2	ug/kg	56.0	19.2	1	12/06/18 13:46	12/07/18 06:23	75-27-4	
Bromoform	<84.8	ug/kg	224	84.8	1	12/06/18 13:46	12/07/18 06:23	75-25-2	
Bromomethane	<65.5	ug/kg	560	65.5	1	12/06/18 13:46	12/07/18 06:23	74-83-9	
2-Butanone (MEK)	<29.8	ug/kg	280	29.8	1	12/06/18 13:46	12/07/18 06:23	78-93-3	
n-Butylbenzene	<26.7	ug/kg	56.0	26.7	1	12/06/18 13:46	12/07/18 06:23	104-51-8	
sec-Butylbenzene	<10.7	ug/kg	56.0	10.7	1	12/06/18 13:46	12/07/18 06:23	135-98-8	
tert-Butylbenzene	<10.8	ug/kg	56.0	10.8	1	12/06/18 13:46	12/07/18 06:23	98-06-6	
Carbon tetrachloride	<26.8	ug/kg	56.0	26.8	1	12/06/18 13:46	12/07/18 06:23	56-23-5	
Chlorobenzene	<3.2	ug/kg	56.0	3.2	1	12/06/18 13:46	12/07/18 06:23	108-90-7	
Chloroethane	<29.1	ug/kg	560	29.1	1	12/06/18 13:46	12/07/18 06:23	75-00-3	
Chloroform	<28.0	ug/kg	56.0	28.0	1	12/06/18 13:46	12/07/18 06:23	67-66-3	
Chloromethane	<13.4	ug/kg	224	13.4	1	12/06/18 13:46	12/07/18 06:23	74-87-3	
2-Chlorotoluene	<2.8	ug/kg	56.0	2.8	1	12/06/18 13:46	12/07/18 06:23	95-49-8	
4-Chlorotoluene	<2.9	ug/kg	56.0	2.9	1	12/06/18 13:46	12/07/18 06:23	106-43-4	
1,2-Dibromo-3-chloropropane	<195	ug/kg	560	195	1	12/06/18 13:46	12/07/18 06:23	96-12-8	
Dibromochloromethane	<6.5	ug/kg	224	6.5	1	12/06/18 13:46	12/07/18 06:23	124-48-1	
1,2-Dibromoethane (EDB)	<5.9	ug/kg	56.0	5.9	1	12/06/18 13:46	12/07/18 06:23	106-93-4	
Dibromomethane	<10.3	ug/kg	56.0	10.3	1	12/06/18 13:46	12/07/18 06:23	74-95-3	
1,2-Dichlorobenzene	<2.3	ug/kg	56.0	2.3	1	12/06/18 13:46	12/07/18 06:23	95-50-1	
1,3-Dichlorobenzene	<2.0	ug/kg	56.0	2.0	1	12/06/18 13:46	12/07/18 06:23	541-73-1	
1,4-Dichlorobenzene	<3.5	ug/kg	56.0	3.5	1	12/06/18 13:46	12/07/18 06:23	106-46-7	
Dichlorodifluoromethane	<18.1	ug/kg	224	18.1	1	12/06/18 13:46	12/07/18 06:23	75-71-8	
1,1-Dichloroethane	<6.3	ug/kg	56.0	6.3	1	12/06/18 13:46	12/07/18 06:23	75-34-3	
1,2-Dichloroethane	<6.2	ug/kg	56.0	6.2	1	12/06/18 13:46	12/07/18 06:23	107-06-2	
1,1-Dichloroethene	<16.8	ug/kg	224	16.8	1	12/06/18 13:46	12/07/18 06:23	75-35-4	
cis-1,2-Dichloroethene	<9.3	ug/kg	56.0	9.3	1	12/06/18 13:46	12/07/18 06:23	156-59-2	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-3 (6)**      **Lab ID: 10457121006**      Collected: 11/26/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
trans-1,2-Dichloroethene	<26.2	ug/kg	56.0	26.2	1	12/06/18 13:46	12/07/18 06:23	156-60-5	
Dichlorofluoromethane	<77.4	ug/kg	560	77.4	1	12/06/18 13:46	12/07/18 06:23	75-43-4	N2
1,2-Dichloropropane	<9.7	ug/kg	56.0	9.7	1	12/06/18 13:46	12/07/18 06:23	78-87-5	
1,3-Dichloropropane	<7.8	ug/kg	56.0	7.8	1	12/06/18 13:46	12/07/18 06:23	142-28-9	
2,2-Dichloropropane	<7.0	ug/kg	224	7.0	1	12/06/18 13:46	12/07/18 06:23	594-20-7	
1,1-Dichloropropene	<25.9	ug/kg	56.0	25.9	1	12/06/18 13:46	12/07/18 06:23	563-58-6	
cis-1,3-Dichloropropene	<8.0	ug/kg	56.0	8.0	1	12/06/18 13:46	12/07/18 06:23	10061-01-5	
trans-1,3-Dichloropropene	<7.8	ug/kg	56.0	7.8	1	12/06/18 13:46	12/07/18 06:23	10061-02-6	
Diethyl ether (Ethyl ether)	<34.3	ug/kg	224	34.3	1	12/06/18 13:46	12/07/18 06:23	60-29-7	
Ethylbenzene	<3.0	ug/kg	56.0	3.0	1	12/06/18 13:46	12/07/18 06:23	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/kg	280	13.7	1	12/06/18 13:46	12/07/18 06:23	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/kg	56.0	2.5	1	12/06/18 13:46	12/07/18 06:23	98-82-8	
p-Isopropyltoluene	<17.0	ug/kg	56.0	17.0	1	12/06/18 13:46	12/07/18 06:23	99-87-6	
Methylene Chloride	<105	ug/kg	224	105	1	12/06/18 13:46	12/07/18 06:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<11.6	ug/kg	280	11.6	1	12/06/18 13:46	12/07/18 06:23	108-10-1	
Methyl-tert-butyl ether	<6.7	ug/kg	56.0	6.7	1	12/06/18 13:46	12/07/18 06:23	1634-04-4	
Naphthalene	<52.4	ug/kg	224	52.4	1	12/06/18 13:46	12/07/18 06:23	91-20-3	
n-Propylbenzene	<3.0	ug/kg	56.0	3.0	1	12/06/18 13:46	12/07/18 06:23	103-65-1	
Styrene	<2.6	ug/kg	56.0	2.6	1	12/06/18 13:46	12/07/18 06:23	100-42-5	
1,1,1,2-Tetrachloroethane	<17.6	ug/kg	56.0	17.6	1	12/06/18 13:46	12/07/18 06:23	630-20-6	
1,1,2,2-Tetrachloroethane	<9.9	ug/kg	224	9.9	1	12/06/18 13:46	12/07/18 06:23	79-34-5	
Tetrachloroethene	<19.7	ug/kg	56.0	19.7	1	12/06/18 13:46	12/07/18 06:23	127-18-4	
Tetrahydrofuran	<81.4	ug/kg	2240	81.4	1	12/06/18 13:46	12/07/18 06:23	109-99-9	
Toluene	<13.7	ug/kg	56.0	13.7	1	12/06/18 13:46	12/07/18 06:23	108-88-3	
1,2,3-Trichlorobenzene	<9.0	ug/kg	56.0	9.0	1	12/06/18 13:46	12/07/18 06:23	87-61-6	
1,2,4-Trichlorobenzene	<12.4	ug/kg	56.0	12.4	1	12/06/18 13:46	12/07/18 06:23	120-82-1	
1,1,1-Trichloroethane	<26.1	ug/kg	56.0	26.1	1	12/06/18 13:46	12/07/18 06:23	71-55-6	
1,1,2-Trichloroethane	<6.7	ug/kg	56.0	6.7	1	12/06/18 13:46	12/07/18 06:23	79-00-5	
Trichloroethene	<8.6	ug/kg	56.0	8.6	1	12/06/18 13:46	12/07/18 06:23	79-01-6	
Trichlorofluoromethane	<97.7	ug/kg	224	97.7	1	12/06/18 13:46	12/07/18 06:23	75-69-4	
1,2,3-Trichloropropane	<14.7	ug/kg	224	14.7	1	12/06/18 13:46	12/07/18 06:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<65.0	ug/kg	224	65.0	1	12/06/18 13:46	12/07/18 06:23	76-13-1	
1,2,4-Trimethylbenzene	<11.2	ug/kg	56.0	11.2	1	12/06/18 13:46	12/07/18 06:23	95-63-6	
1,3,5-Trimethylbenzene	<8.9	ug/kg	56.0	8.9	1	12/06/18 13:46	12/07/18 06:23	108-67-8	
Vinyl chloride	<11.0	ug/kg	56.0	11.0	1	12/06/18 13:46	12/07/18 06:23	75-01-4	
Xylene (Total)	<13.0	ug/kg	168	13.0	1	12/06/18 13:46	12/07/18 06:23	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1	12/06/18 13:46	12/07/18 06:23	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 06:23	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/06/18 13:46	12/07/18 06:23	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (3)**      **Lab ID: 10457121007**      Collected: 11/26/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.43	ug/kg	4.2	0.43	2	12/05/18 13:42	12/11/18 06:31	309-00-2	
alpha-BHC	<0.31	ug/kg	4.2	0.31	2	12/05/18 13:42	12/11/18 06:31	319-84-6	
beta-BHC	<0.57	ug/kg	4.2	0.57	2	12/05/18 13:42	12/11/18 06:31	319-85-7	
delta-BHC	<0.35	ug/kg	4.2	0.35	2	12/05/18 13:42	12/11/18 06:31	319-86-8	
gamma-BHC (Lindane)	<0.36	ug/kg	4.2	0.36	2	12/05/18 13:42	12/11/18 06:31	58-89-9	
Chlordane (Technical)	<7.7	ug/kg	42.4	7.7	2	12/05/18 13:42	12/11/18 06:31	57-74-9	
alpha-Chlordane	<0.34	ug/kg	4.2	0.34	2	12/05/18 13:42	12/11/18 06:31	5103-71-9	
gamma-Chlordane	<0.98	ug/kg	4.2	0.98	2	12/05/18 13:42	12/11/18 06:31	5103-74-2	
4,4'-DDD	<0.77	ug/kg	8.5	0.77	2	12/05/18 13:42	12/11/18 06:31	72-54-8	
4,4'-DDE	1.6J	ug/kg	8.5	0.63	2	12/05/18 13:42	12/11/18 06:31	72-55-9	CH
4,4'-DDT	<1.1	ug/kg	8.5	1.1	2	12/05/18 13:42	12/11/18 06:31	50-29-3	
Dieldrin	<0.82	ug/kg	8.5	0.82	2	12/05/18 13:42	12/11/18 06:31	60-57-1	
Endosulfan I	<0.38	ug/kg	4.2	0.38	2	12/05/18 13:42	12/11/18 06:31	959-98-8	
Endosulfan II	<0.85	ug/kg	8.5	0.85	2	12/05/18 13:42	12/11/18 06:31	33213-65-9	
Endosulfan sulfate	1.4J	ug/kg	8.5	0.87	2	12/05/18 13:42	12/11/18 06:31	1031-07-8	
Endrin	<0.75	ug/kg	8.5	0.75	2	12/05/18 13:42	12/11/18 06:31	72-20-8	
Endrin aldehyde	<2.6	ug/kg	8.5	2.6	2	12/05/18 13:42	12/11/18 06:31	7421-93-4	
Endrin ketone	<1.0	ug/kg	8.5	1.0	2	12/05/18 13:42	12/11/18 06:31	53494-70-5	
Heptachlor	<0.46	ug/kg	4.2	0.46	2	12/05/18 13:42	12/11/18 06:31	76-44-8	
Heptachlor epoxide	<0.40	ug/kg	4.2	0.40	2	12/05/18 13:42	12/11/18 06:31	1024-57-3	
Methoxychlor	<6.4	ug/kg	42.4	6.4	2	12/05/18 13:42	12/11/18 06:31	72-43-5	
Toxaphene	<20.1	ug/kg	127	20.1	2	12/05/18 13:42	12/11/18 06:31	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	30-150		2	12/05/18 13:42	12/11/18 06:31	877-09-8	5M, CH, D3
Decachlorobiphenyl (S)	79	%	30-150		2	12/05/18 13:42	12/11/18 06:31	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.6	ug/kg	41.7	11.6	1	12/05/18 09:53	12/10/18 19:40	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.7	14.7	1	12/05/18 09:53	12/10/18 19:40	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.7	16.7	1	12/05/18 09:53	12/10/18 19:40	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.1	ug/kg	41.7	14.1	1	12/05/18 09:53	12/10/18 19:40	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.5	ug/kg	41.7	12.5	1	12/05/18 09:53	12/10/18 19:40	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.7	12.3	1	12/05/18 09:53	12/10/18 19:40	11097-69-1	
PCB-1260 (Aroclor 1260)	<10	ug/kg	41.7	10	1	12/05/18 09:53	12/10/18 19:40	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	48-125		1	12/05/18 09:53	12/10/18 19:40	877-09-8	
Decachlorobiphenyl (S)	104	%	30-134		1	12/05/18 09:53	12/10/18 19:40	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	5.2J	mg/kg	18.9	3.1	1	12/04/18 18:01	12/12/18 14:42	68334-30-5	
Motor Oil Range	15.4	mg/kg	12.6	5.5	1	12/04/18 18:01	12/12/18 14:42		
<b>Surrogates</b>									
n-Triacontane (S)	99	%	50-150		1	12/04/18 18:01	12/12/18 14:42	638-68-6	
o-Terphenyl (S)	98	%	50-150		1	12/04/18 18:01	12/12/18 14:42	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (3)**      **Lab ID: 10457121007**      Collected: 11/26/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.92	mg/kg	7.0	0.92	1	12/07/18 15:19	12/08/18 00:51		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	75	%	50-150		1	12/07/18 15:19	12/08/18 00:51	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.44	mg/kg	1.2	0.44	1	12/06/18 14:27	12/07/18 18:50	7440-36-0	
Arsenic	1.9	mg/kg	1.2	0.24	1	12/06/18 14:27	12/07/18 18:50	7440-38-2	
Beryllium	0.44	mg/kg	0.29	0.015	1	12/06/18 14:27	12/07/18 18:50	7440-41-7	
Cadmium	0.078J	mg/kg	0.17	0.023	1	12/06/18 14:27	12/07/18 18:50	7440-43-9	
Chromium	8.4	mg/kg	0.58	0.099	1	12/06/18 14:27	12/07/18 18:50	7440-47-3	
Copper	13.9	mg/kg	0.58	0.064	1	12/06/18 14:27	12/07/18 18:50	7440-50-8	
Lead	13.1	mg/kg	0.58	0.13	1	12/06/18 14:27	12/07/18 18:50	7439-92-1	
Nickel	6.3	mg/kg	1.2	0.073	1	12/06/18 14:27	12/07/18 18:50	7440-02-0	
Selenium	<0.38	mg/kg	1.2	0.38	1	12/06/18 14:27	12/07/18 18:50	7782-49-2	
Silver	0.044J	mg/kg	0.58	0.042	1	12/06/18 14:27	12/07/18 18:50	7440-22-4	
Thallium	<0.27	mg/kg	1.2	0.27	1	12/06/18 14:27	12/07/18 18:50	7440-28-0	
Zinc	49.4	mg/kg	1.2	0.51	1	12/06/18 14:27	12/07/18 18:50	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.075	mg/kg	0.025	0.0099	1	12/06/18 14:29	12/12/18 15:35	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.3	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<44.6	ug/kg	418	44.6	1	12/03/18 15:17	12/04/18 22:36	83-32-9	
Acenaphthylene	<53.3	ug/kg	418	53.3	1	12/03/18 15:17	12/04/18 22:36	208-96-8	
Anthracene	<49.0	ug/kg	418	49.0	1	12/03/18 15:17	12/04/18 22:36	120-12-7	
Benzo(a)anthracene	142J	ug/kg	418	42.9	1	12/03/18 15:17	12/04/18 22:36	56-55-3	
Benzo(a)pyrene	151J	ug/kg	418	47.4	1	12/03/18 15:17	12/04/18 22:36	50-32-8	
Benzo(b)fluoranthene	157J	ug/kg	418	40.9	1	12/03/18 15:17	12/04/18 22:36	205-99-2	
Benzo(g,h,i)perylene	94.2J	ug/kg	418	44.7	1	12/03/18 15:17	12/04/18 22:36	191-24-2	
Benzo(k)fluoranthene	78.3J	ug/kg	418	52.2	1	12/03/18 15:17	12/04/18 22:36	207-08-9	
4-Bromophenylphenyl ether	<49.8	ug/kg	418	49.8	1	12/03/18 15:17	12/04/18 22:36	101-55-3	
Butylbenzylphthalate	<38.2	ug/kg	418	38.2	1	12/03/18 15:17	12/04/18 22:36	85-68-7	
Carbazole	<34.7	ug/kg	418	34.7	1	12/03/18 15:17	12/04/18 22:36	86-74-8	
4-Chloro-3-methylphenol	<66.9	ug/kg	418	66.9	1	12/03/18 15:17	12/04/18 22:36	59-50-7	
4-Chloroaniline	<111	ug/kg	418	111	1	12/03/18 15:17	12/04/18 22:36	106-47-8	
bis(2-Chloroethoxy)methane	<42.8	ug/kg	418	42.8	1	12/03/18 15:17	12/04/18 22:36	111-91-1	
bis(2-Chloroethyl) ether	<33.1	ug/kg	418	33.1	1	12/03/18 15:17	12/04/18 22:36	111-44-4	
bis(2-Chloroisopropyl) ether	<43.1	ug/kg	418	43.1	1	12/03/18 15:17	12/04/18 22:36	108-60-1	
2-Chloronaphthalene	<37.0	ug/kg	418	37.0	1	12/03/18 15:17	12/04/18 22:36	91-58-7	
2-Chlorophenol	<47.6	ug/kg	418	47.6	1	12/03/18 15:17	12/04/18 22:36	95-57-8	
4-Chlorophenylphenyl ether	<51.8	ug/kg	418	51.8	1	12/03/18 15:17	12/04/18 22:36	7005-72-3	
Chrysene	143J	ug/kg	418	44.1	1	12/03/18 15:17	12/04/18 22:36	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (3)**      **Lab ID: 10457121007**      Collected: 11/26/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.5	ug/kg	418	44.5	1	12/03/18 15:17	12/04/18 22:36	53-70-3	
Dibenzofuran	<52.9	ug/kg	418	52.9	1	12/03/18 15:17	12/04/18 22:36	132-64-9	
1,2-Dichlorobenzene	<43.8	ug/kg	418	43.8	1	12/03/18 15:17	12/04/18 22:36	95-50-1	
1,3-Dichlorobenzene	<28.6	ug/kg	418	28.6	1	12/03/18 15:17	12/04/18 22:36	541-73-1	
1,4-Dichlorobenzene	<46.5	ug/kg	418	46.5	1	12/03/18 15:17	12/04/18 22:36	106-46-7	
3,3'-Dichlorobenzidine	<140	ug/kg	418	140	1	12/03/18 15:17	12/04/18 22:36	91-94-1	
2,4-Dichlorophenol	<69.8	ug/kg	418	69.8	1	12/03/18 15:17	12/04/18 22:36	120-83-2	
Diethylphthalate	<37.2	ug/kg	418	37.2	1	12/03/18 15:17	12/04/18 22:36	84-66-2	
2,4-Dimethylphenol	<163	ug/kg	418	163	1	12/03/18 15:17	12/04/18 22:36	105-67-9	
Dimethylphthalate	<56.7	ug/kg	418	56.7	1	12/03/18 15:17	12/04/18 22:36	131-11-3	
Di-n-butylphthalate	<57.2	ug/kg	418	57.2	1	12/03/18 15:17	12/04/18 22:36	84-74-2	
4,6-Dinitro-2-methylphenol	<414	ug/kg	2150	414	1	12/03/18 15:17	12/04/18 22:36	534-52-1	
2,4-Dinitrophenol	<195	ug/kg	418	195	1	12/03/18 15:17	12/04/18 22:36	51-28-5	
2,4-Dinitrotoluene	<53.2	ug/kg	418	53.2	1	12/03/18 15:17	12/04/18 22:36	121-14-2	
2,6-Dinitrotoluene	<55.3	ug/kg	418	55.3	1	12/03/18 15:17	12/04/18 22:36	606-20-2	
Di-n-octylphthalate	<48.5	ug/kg	418	48.5	1	12/03/18 15:17	12/04/18 22:36	117-84-0	
1,2-Diphenylhydrazine	<51.3	ug/kg	418	51.3	1	12/03/18 15:17	12/04/18 22:36	122-66-7	
bis(2-Ethylhexyl)phthalate	<87.1	ug/kg	418	87.1	1	12/03/18 15:17	12/04/18 22:36	117-81-7	
Fluoranthene	224J	ug/kg	418	48.0	1	12/03/18 15:17	12/04/18 22:36	206-44-0	
Fluorene	<191	ug/kg	418	191	1	12/03/18 15:17	12/04/18 22:36	86-73-7	
Hexachloro-1,3-butadiene	<63.6	ug/kg	418	63.6	1	12/03/18 15:17	12/04/18 22:36	87-68-3	
Hexachlorobenzene	<68.1	ug/kg	418	68.1	1	12/03/18 15:17	12/04/18 22:36	118-74-1	
Hexachloroethane	<54.3	ug/kg	418	54.3	1	12/03/18 15:17	12/04/18 22:36	67-72-1	
Indeno(1,2,3-cd)pyrene	79.3J	ug/kg	418	25.2	1	12/03/18 15:17	12/04/18 22:36	193-39-5	
Isophorone	<32.2	ug/kg	418	32.2	1	12/03/18 15:17	12/04/18 22:36	78-59-1	
1-Methylnaphthalene	<38.6	ug/kg	418	38.6	1	12/03/18 15:17	12/04/18 22:36	90-12-0	
2-Methylnaphthalene	<37.7	ug/kg	418	37.7	1	12/03/18 15:17	12/04/18 22:36	91-57-6	
2-Methylphenol(o-Cresol)	<26.1	ug/kg	418	26.1	1	12/03/18 15:17	12/04/18 22:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.6	ug/kg	836	23.6	1	12/03/18 15:17	12/04/18 22:36		
Naphthalene	<32.2	ug/kg	418	32.2	1	12/03/18 15:17	12/04/18 22:36	91-20-3	
2-Nitroaniline	<105	ug/kg	418	105	1	12/03/18 15:17	12/04/18 22:36	88-74-4	
3-Nitroaniline	<45.6	ug/kg	418	45.6	1	12/03/18 15:17	12/04/18 22:36	99-09-2	
4-Nitroaniline	<61.0	ug/kg	418	61.0	1	12/03/18 15:17	12/04/18 22:36	100-01-6	
Nitrobenzene	<46.0	ug/kg	418	46.0	1	12/03/18 15:17	12/04/18 22:36	98-95-3	
2-Nitrophenol	<50.9	ug/kg	418	50.9	1	12/03/18 15:17	12/04/18 22:36	88-75-5	
4-Nitrophenol	<81.1	ug/kg	418	81.1	1	12/03/18 15:17	12/04/18 22:36	100-02-7	
N-Nitrosodimethylamine	<51.3	ug/kg	418	51.3	1	12/03/18 15:17	12/04/18 22:36	62-75-9	
N-Nitroso-di-n-propylamine	<191	ug/kg	418	191	1	12/03/18 15:17	12/04/18 22:36	621-64-7	
N-Nitrosodiphenylamine	<27.1	ug/kg	418	27.1	1	12/03/18 15:17	12/04/18 22:36	86-30-6	
Pentachlorophenol	<244	ug/kg	849	244	1	12/03/18 15:17	12/04/18 22:36	87-86-5	
Phenanthrene	50.0J	ug/kg	418	48.6	1	12/03/18 15:17	12/04/18 22:36	85-01-8	
Phenol	<27.4	ug/kg	418	27.4	1	12/03/18 15:17	12/04/18 22:36	108-95-2	
Pyrene	251J	ug/kg	418	31.8	1	12/03/18 15:17	12/04/18 22:36	129-00-0	
1,2,4-Trichlorobenzene	<45.8	ug/kg	418	45.8	1	12/03/18 15:17	12/04/18 22:36	120-82-1	
2,4,5-Trichlorophenol	<53.8	ug/kg	418	53.8	1	12/03/18 15:17	12/04/18 22:36	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (3)**      **Lab ID: 10457121007**      Collected: 11/26/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.7	ug/kg	418	64.7	1	12/03/18 15:17	12/04/18 22:36	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	68	%	43-125		1	12/03/18 15:17	12/04/18 22:36	4165-60-0	
2-Fluorobiphenyl (S)	66	%	30-132		1	12/03/18 15:17	12/04/18 22:36	321-60-8	
p-Terphenyl-d14 (S)	78	%	62-125		1	12/03/18 15:17	12/04/18 22:36	1718-51-0	
Phenol-d6 (S)	66	%	48-125		1	12/03/18 15:17	12/04/18 22:36	13127-88-3	
2-Fluorophenol (S)	62	%	40-125		1	12/03/18 15:17	12/04/18 22:36	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/03/18 15:17	12/04/18 22:36	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.7	0.27	1	03/04/19 09:00	03/04/19 16:57	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.6	4.3	1	03/04/19 09:00	03/04/19 16:57	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	122	%	75-125		1	03/04/19 09:00	03/04/19 16:57	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 16:57	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 16:57	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<408	ug/kg	1310	408	1	12/06/18 13:46	12/07/18 06:41	67-64-1	
Allyl chloride	<54.9	ug/kg	262	54.9	1	12/06/18 13:46	12/07/18 06:41	107-05-1	
Benzene	<3.7	ug/kg	26.2	3.7	1	12/06/18 13:46	12/07/18 06:41	71-43-2	
Bromobenzene	<4.0	ug/kg	65.5	4.0	1	12/06/18 13:46	12/07/18 06:41	108-86-1	
Bromochloromethane	<22.7	ug/kg	65.5	22.7	1	12/06/18 13:46	12/07/18 06:41	74-97-5	
Bromodichloromethane	<22.4	ug/kg	65.5	22.4	1	12/06/18 13:46	12/07/18 06:41	75-27-4	
Bromoform	<99.2	ug/kg	262	99.2	1	12/06/18 13:46	12/07/18 06:41	75-25-2	
Bromomethane	<76.7	ug/kg	655	76.7	1	12/06/18 13:46	12/07/18 06:41	74-83-9	
2-Butanone (MEK)	<34.9	ug/kg	328	34.9	1	12/06/18 13:46	12/07/18 06:41	78-93-3	
n-Butylbenzene	<31.2	ug/kg	65.5	31.2	1	12/06/18 13:46	12/07/18 06:41	104-51-8	
sec-Butylbenzene	<12.6	ug/kg	65.5	12.6	1	12/06/18 13:46	12/07/18 06:41	135-98-8	
tert-Butylbenzene	<12.6	ug/kg	65.5	12.6	1	12/06/18 13:46	12/07/18 06:41	98-06-6	
Carbon tetrachloride	<31.3	ug/kg	65.5	31.3	1	12/06/18 13:46	12/07/18 06:41	56-23-5	
Chlorobenzene	<3.7	ug/kg	65.5	3.7	1	12/06/18 13:46	12/07/18 06:41	108-90-7	
Chloroethane	<34.1	ug/kg	655	34.1	1	12/06/18 13:46	12/07/18 06:41	75-00-3	
Chloroform	<32.8	ug/kg	65.5	32.8	1	12/06/18 13:46	12/07/18 06:41	67-66-3	
Chloromethane	<15.7	ug/kg	262	15.7	1	12/06/18 13:46	12/07/18 06:41	74-87-3	
2-Chlorotoluene	<3.2	ug/kg	65.5	3.2	1	12/06/18 13:46	12/07/18 06:41	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	65.5	3.4	1	12/06/18 13:46	12/07/18 06:41	106-43-4	
1,2-Dibromo-3-chloropropane	<228	ug/kg	655	228	1	12/06/18 13:46	12/07/18 06:41	96-12-8	
Dibromochloromethane	<7.6	ug/kg	262	7.6	1	12/06/18 13:46	12/07/18 06:41	124-48-1	
1,2-Dibromoethane (EDB)	<6.9	ug/kg	65.5	6.9	1	12/06/18 13:46	12/07/18 06:41	106-93-4	
Dibromomethane	<12.0	ug/kg	65.5	12.0	1	12/06/18 13:46	12/07/18 06:41	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	65.5	2.6	1	12/06/18 13:46	12/07/18 06:41	95-50-1	
1,3-Dichlorobenzene	<2.4	ug/kg	65.5	2.4	1	12/06/18 13:46	12/07/18 06:41	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/kg	65.5	4.1	1	12/06/18 13:46	12/07/18 06:41	106-46-7	
Dichlorodifluoromethane	<21.2	ug/kg	262	21.2	1	12/06/18 13:46	12/07/18 06:41	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (3)**      **Lab ID: 10457121007**      Collected: 11/26/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<7.4	ug/kg	65.5	7.4	1	12/06/18 13:46	12/07/18 06:41	75-34-3	
1,2-Dichloroethane	<7.2	ug/kg	65.5	7.2	1	12/06/18 13:46	12/07/18 06:41	107-06-2	
1,1-Dichloroethene	<19.7	ug/kg	262	19.7	1	12/06/18 13:46	12/07/18 06:41	75-35-4	
cis-1,2-Dichloroethene	<10.9	ug/kg	65.5	10.9	1	12/06/18 13:46	12/07/18 06:41	156-59-2	
trans-1,2-Dichloroethene	<30.7	ug/kg	65.5	30.7	1	12/06/18 13:46	12/07/18 06:41	156-60-5	
Dichlorofluoromethane	<90.6	ug/kg	655	90.6	1	12/06/18 13:46	12/07/18 06:41	75-43-4	N2
1,2-Dichloropropane	<11.3	ug/kg	65.5	11.3	1	12/06/18 13:46	12/07/18 06:41	78-87-5	
1,3-Dichloropropane	<9.1	ug/kg	65.5	9.1	1	12/06/18 13:46	12/07/18 06:41	142-28-9	
2,2-Dichloropropane	<8.2	ug/kg	262	8.2	1	12/06/18 13:46	12/07/18 06:41	594-20-7	
1,1-Dichloropropene	<30.3	ug/kg	65.5	30.3	1	12/06/18 13:46	12/07/18 06:41	563-58-6	
cis-1,3-Dichloropropene	<9.4	ug/kg	65.5	9.4	1	12/06/18 13:46	12/07/18 06:41	10061-01-5	
trans-1,3-Dichloropropene	<9.1	ug/kg	65.5	9.1	1	12/06/18 13:46	12/07/18 06:41	10061-02-6	
Diethyl ether (Ethyl ether)	<40.1	ug/kg	262	40.1	1	12/06/18 13:46	12/07/18 06:41	60-29-7	
Ethylbenzene	<3.6	ug/kg	65.5	3.6	1	12/06/18 13:46	12/07/18 06:41	100-41-4	
Hexachloro-1,3-butadiene	<16.0	ug/kg	328	16.0	1	12/06/18 13:46	12/07/18 06:41	87-68-3	
Isopropylbenzene (Cumene)	<2.9	ug/kg	65.5	2.9	1	12/06/18 13:46	12/07/18 06:41	98-82-8	
p-Isopropyltoluene	<19.9	ug/kg	65.5	19.9	1	12/06/18 13:46	12/07/18 06:41	99-87-6	
Methylene Chloride	<123	ug/kg	262	123	1	12/06/18 13:46	12/07/18 06:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.6	ug/kg	328	13.6	1	12/06/18 13:46	12/07/18 06:41	108-10-1	
Methyl-tert-butyl ether	<7.8	ug/kg	65.5	7.8	1	12/06/18 13:46	12/07/18 06:41	1634-04-4	
Naphthalene	<61.3	ug/kg	262	61.3	1	12/06/18 13:46	12/07/18 06:41	91-20-3	
n-Propylbenzene	<3.5	ug/kg	65.5	3.5	1	12/06/18 13:46	12/07/18 06:41	103-65-1	
Styrene	<3.0	ug/kg	65.5	3.0	1	12/06/18 13:46	12/07/18 06:41	100-42-5	
1,1,1,2-Tetrachloroethane	<20.6	ug/kg	65.5	20.6	1	12/06/18 13:46	12/07/18 06:41	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.5	ug/kg	262	11.5	1	12/06/18 13:46	12/07/18 06:41	79-34-5	
Tetrachloroethene	<23.1	ug/kg	65.5	23.1	1	12/06/18 13:46	12/07/18 06:41	127-18-4	
Tetrahydrofuran	<95.3	ug/kg	2620	95.3	1	12/06/18 13:46	12/07/18 06:41	109-99-9	
Toluene	<16.0	ug/kg	65.5	16.0	1	12/06/18 13:46	12/07/18 06:41	108-88-3	
1,2,3-Trichlorobenzene	<10.5	ug/kg	65.5	10.5	1	12/06/18 13:46	12/07/18 06:41	87-61-6	
1,2,4-Trichlorobenzene	<14.5	ug/kg	65.5	14.5	1	12/06/18 13:46	12/07/18 06:41	120-82-1	
1,1,1-Trichloroethane	<30.5	ug/kg	65.5	30.5	1	12/06/18 13:46	12/07/18 06:41	71-55-6	
1,1,2-Trichloroethane	<7.8	ug/kg	65.5	7.8	1	12/06/18 13:46	12/07/18 06:41	79-00-5	
Trichloroethene	<10.1	ug/kg	65.5	10.1	1	12/06/18 13:46	12/07/18 06:41	79-01-6	
Trichlorofluoromethane	<114	ug/kg	262	114	1	12/06/18 13:46	12/07/18 06:41	75-69-4	
1,2,3-Trichloropropane	<17.2	ug/kg	262	17.2	1	12/06/18 13:46	12/07/18 06:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<76.0	ug/kg	262	76.0	1	12/06/18 13:46	12/07/18 06:41	76-13-1	
1,2,4-Trimethylbenzene	<13.1	ug/kg	65.5	13.1	1	12/06/18 13:46	12/07/18 06:41	95-63-6	
1,3,5-Trimethylbenzene	<10.4	ug/kg	65.5	10.4	1	12/06/18 13:46	12/07/18 06:41	108-67-8	
Vinyl chloride	<12.9	ug/kg	65.5	12.9	1	12/06/18 13:46	12/07/18 06:41	75-01-4	
Xylene (Total)	<15.2	ug/kg	197	15.2	1	12/06/18 13:46	12/07/18 06:41	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1	12/06/18 13:46	12/07/18 06:41	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 06:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/06/18 13:46	12/07/18 06:41	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (6)**      **Lab ID: 10457121008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 02:04	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 02:04	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 02:04	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:04	319-86-8	
gamma-BHC (Lindane)	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:04	58-89-9	
Chlordane (Technical)	<3.2	ug/kg	17.8	3.2	1	12/05/18 13:42	12/12/18 02:04	57-74-9	
alpha-Chlordane	<0.14	ug/kg	1.8	0.14	1	12/05/18 13:42	12/12/18 02:04	5103-71-9	
gamma-Chlordane	<0.41	ug/kg	1.8	0.41	1	12/05/18 13:42	12/12/18 02:04	5103-74-2	
4,4'-DDD	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 02:04	72-54-8	
4,4'-DDE	<0.26	ug/kg	3.6	0.26	1	12/05/18 13:42	12/12/18 02:04	72-55-9	
4,4'-DDT	<0.45	ug/kg	3.6	0.45	1	12/05/18 13:42	12/12/18 02:04	50-29-3	
Dieldrin	<0.34	ug/kg	3.6	0.34	1	12/05/18 13:42	12/12/18 02:04	60-57-1	
Endosulfan I	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 02:04	959-98-8	
Endosulfan II	<0.36	ug/kg	3.6	0.36	1	12/05/18 13:42	12/12/18 02:04	33213-65-9	
Endosulfan sulfate	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 02:04	1031-07-8	
Endrin	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 02:04	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.6	1.1	1	12/05/18 13:42	12/12/18 02:04	7421-93-4	
Endrin ketone	<0.42	ug/kg	3.6	0.42	1	12/05/18 13:42	12/12/18 02:04	53494-70-5	
Heptachlor	<0.19	ug/kg	1.8	0.19	1	12/05/18 13:42	12/12/18 02:04	76-44-8	
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 02:04	1024-57-3	
Methoxychlor	<2.7	ug/kg	17.8	2.7	1	12/05/18 13:42	12/12/18 02:04	72-43-5	
Toxaphene	<8.4	ug/kg	53.4	8.4	1	12/05/18 13:42	12/12/18 02:04	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	108	%	30-150		1	12/05/18 13:42	12/12/18 02:04	877-09-8	
Decachlorobiphenyl (S)	94	%	30-150		1	12/05/18 13:42	12/12/18 02:04	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<9.8	ug/kg	35.3	9.8	1	12/05/18 09:53	12/10/18 19:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.4	ug/kg	35.3	12.4	1	12/05/18 09:53	12/10/18 19:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.1	ug/kg	35.3	14.1	1	12/05/18 09:53	12/10/18 19:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.0	ug/kg	35.3	12.0	1	12/05/18 09:53	12/10/18 19:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.6	ug/kg	35.3	10.6	1	12/05/18 09:53	12/10/18 19:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.4	ug/kg	35.3	10.4	1	12/05/18 09:53	12/10/18 19:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.4	ug/kg	35.3	8.4	1	12/05/18 09:53	12/10/18 19:56	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	94	%	48-125		1	12/05/18 09:53	12/10/18 19:56	877-09-8	
Decachlorobiphenyl (S)	113	%	30-134		1	12/05/18 09:53	12/10/18 19:56	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.6	mg/kg	16.0	2.6	1	12/04/18 18:01	12/12/18 14:53	68334-30-5	
Motor Oil Range	<4.6	mg/kg	10.7	4.6	1	12/04/18 18:01	12/12/18 14:53		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 14:53	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/04/18 18:01	12/12/18 14:53	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (6)**      **Lab ID: 10457121008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.69	mg/kg	5.3	0.69	1	12/07/18 15:19	12/08/18 01:08		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	75	%	50-150		1	12/07/18 15:19	12/08/18 01:08	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.40	mg/kg	1.1	0.40	1	12/06/18 14:27	12/07/18 18:53	7440-36-0	
Arsenic	1.0J	mg/kg	1.1	0.22	1	12/06/18 14:27	12/07/18 18:53	7440-38-2	
Beryllium	0.28	mg/kg	0.27	0.014	1	12/06/18 14:27	12/07/18 18:53	7440-41-7	
Cadmium	<0.021	mg/kg	0.16	0.021	1	12/06/18 14:27	12/07/18 18:53	7440-43-9	
Chromium	2.3	mg/kg	0.54	0.092	1	12/06/18 14:27	12/07/18 18:53	7440-47-3	
Copper	8.2	mg/kg	0.54	0.060	1	12/06/18 14:27	12/07/18 18:53	7440-50-8	
Lead	2.7	mg/kg	0.54	0.12	1	12/06/18 14:27	12/07/18 18:53	7439-92-1	
Nickel	2.5	mg/kg	1.1	0.067	1	12/06/18 14:27	12/07/18 18:53	7440-02-0	
Selenium	<0.35	mg/kg	1.1	0.35	1	12/06/18 14:27	12/07/18 18:53	7782-49-2	
Silver	<0.039	mg/kg	0.54	0.039	1	12/06/18 14:27	12/07/18 18:53	7440-22-4	
Thallium	<0.25	mg/kg	1.1	0.25	1	12/06/18 14:27	12/07/18 18:53	7440-28-0	
Zinc	30.5	mg/kg	1.1	0.47	1	12/06/18 14:27	12/07/18 18:53	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.023	mg/kg	0.021	0.0083	1	12/06/18 14:29	12/12/18 15:38	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	6.8	%	0.10	0.10	1		12/12/18 10:22		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<37.7	ug/kg	354	37.7	1	12/03/18 15:17	12/04/18 23:05	83-32-9	
Acenaphthylene	<45.1	ug/kg	354	45.1	1	12/03/18 15:17	12/04/18 23:05	208-96-8	
Anthracene	<41.5	ug/kg	354	41.5	1	12/03/18 15:17	12/04/18 23:05	120-12-7	
Benzo(a)anthracene	<36.4	ug/kg	354	36.4	1	12/03/18 15:17	12/04/18 23:05	56-55-3	
Benzo(a)pyrene	<40.1	ug/kg	354	40.1	1	12/03/18 15:17	12/04/18 23:05	50-32-8	
Benzo(b)fluoranthene	<34.6	ug/kg	354	34.6	1	12/03/18 15:17	12/04/18 23:05	205-99-2	
Benzo(g,h,i)perylene	<37.9	ug/kg	354	37.9	1	12/03/18 15:17	12/04/18 23:05	191-24-2	
Benzo(k)fluoranthene	<44.2	ug/kg	354	44.2	1	12/03/18 15:17	12/04/18 23:05	207-08-9	
4-Bromophenylphenyl ether	<42.1	ug/kg	354	42.1	1	12/03/18 15:17	12/04/18 23:05	101-55-3	
Butylbenzylphthalate	<32.4	ug/kg	354	32.4	1	12/03/18 15:17	12/04/18 23:05	85-68-7	
Carbazole	<29.4	ug/kg	354	29.4	1	12/03/18 15:17	12/04/18 23:05	86-74-8	
4-Chloro-3-methylphenol	<56.6	ug/kg	354	56.6	1	12/03/18 15:17	12/04/18 23:05	59-50-7	
4-Chloroaniline	<94.3	ug/kg	354	94.3	1	12/03/18 15:17	12/04/18 23:05	106-47-8	
bis(2-Chloroethoxy)methane	<36.2	ug/kg	354	36.2	1	12/03/18 15:17	12/04/18 23:05	111-91-1	
bis(2-Chloroethyl) ether	<28.0	ug/kg	354	28.0	1	12/03/18 15:17	12/04/18 23:05	111-44-4	
bis(2-Chloroisopropyl) ether	<36.5	ug/kg	354	36.5	1	12/03/18 15:17	12/04/18 23:05	108-60-1	
2-Chloronaphthalene	<31.3	ug/kg	354	31.3	1	12/03/18 15:17	12/04/18 23:05	91-58-7	
2-Chlorophenol	<40.3	ug/kg	354	40.3	1	12/03/18 15:17	12/04/18 23:05	95-57-8	
4-Chlorophenylphenyl ether	<43.9	ug/kg	354	43.9	1	12/03/18 15:17	12/04/18 23:05	7005-72-3	
Chrysene	<37.3	ug/kg	354	37.3	1	12/03/18 15:17	12/04/18 23:05	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (6)**      **Lab ID: 10457121008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<37.6	ug/kg	354	37.6	1	12/03/18 15:17	12/04/18 23:05	53-70-3	
Dibenzofuran	<44.8	ug/kg	354	44.8	1	12/03/18 15:17	12/04/18 23:05	132-64-9	
1,2-Dichlorobenzene	<37.1	ug/kg	354	37.1	1	12/03/18 15:17	12/04/18 23:05	95-50-1	
1,3-Dichlorobenzene	<24.2	ug/kg	354	24.2	1	12/03/18 15:17	12/04/18 23:05	541-73-1	
1,4-Dichlorobenzene	<39.4	ug/kg	354	39.4	1	12/03/18 15:17	12/04/18 23:05	106-46-7	
3,3'-Dichlorobenzidine	<119	ug/kg	354	119	1	12/03/18 15:17	12/04/18 23:05	91-94-1	
2,4-Dichlorophenol	<59.1	ug/kg	354	59.1	1	12/03/18 15:17	12/04/18 23:05	120-83-2	
Diethylphthalate	<31.5	ug/kg	354	31.5	1	12/03/18 15:17	12/04/18 23:05	84-66-2	
2,4-Dimethylphenol	<138	ug/kg	354	138	1	12/03/18 15:17	12/04/18 23:05	105-67-9	
Dimethylphthalate	<48.0	ug/kg	354	48.0	1	12/03/18 15:17	12/04/18 23:05	131-11-3	
Di-n-butylphthalate	<48.5	ug/kg	354	48.5	1	12/03/18 15:17	12/04/18 23:05	84-74-2	
4,6-Dinitro-2-methylphenol	<351	ug/kg	1820	351	1	12/03/18 15:17	12/04/18 23:05	534-52-1	
2,4-Dinitrophenol	<165	ug/kg	354	165	1	12/03/18 15:17	12/04/18 23:05	51-28-5	
2,4-Dinitrotoluene	<45.0	ug/kg	354	45.0	1	12/03/18 15:17	12/04/18 23:05	121-14-2	
2,6-Dinitrotoluene	<46.9	ug/kg	354	46.9	1	12/03/18 15:17	12/04/18 23:05	606-20-2	
Di-n-octylphthalate	<41.1	ug/kg	354	41.1	1	12/03/18 15:17	12/04/18 23:05	117-84-0	
1,2-Diphenylhydrazine	<43.4	ug/kg	354	43.4	1	12/03/18 15:17	12/04/18 23:05	122-66-7	
bis(2-Ethylhexyl)phthalate	<73.8	ug/kg	354	73.8	1	12/03/18 15:17	12/04/18 23:05	117-81-7	
Fluoranthene	<40.6	ug/kg	354	40.6	1	12/03/18 15:17	12/04/18 23:05	206-44-0	
Fluorene	<162	ug/kg	354	162	1	12/03/18 15:17	12/04/18 23:05	86-73-7	
Hexachloro-1,3-butadiene	<53.8	ug/kg	354	53.8	1	12/03/18 15:17	12/04/18 23:05	87-68-3	
Hexachlorobenzene	<57.7	ug/kg	354	57.7	1	12/03/18 15:17	12/04/18 23:05	118-74-1	
Hexachloroethane	<46.0	ug/kg	354	46.0	1	12/03/18 15:17	12/04/18 23:05	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.3	ug/kg	354	21.3	1	12/03/18 15:17	12/04/18 23:05	193-39-5	
Isophorone	<27.2	ug/kg	354	27.2	1	12/03/18 15:17	12/04/18 23:05	78-59-1	
1-Methylnaphthalene	<32.7	ug/kg	354	32.7	1	12/03/18 15:17	12/04/18 23:05	90-12-0	
2-Methylnaphthalene	<32.0	ug/kg	354	32.0	1	12/03/18 15:17	12/04/18 23:05	91-57-6	
2-Methylphenol(o-Cresol)	<22.1	ug/kg	354	22.1	1	12/03/18 15:17	12/04/18 23:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	<19.9	ug/kg	708	19.9	1	12/03/18 15:17	12/04/18 23:05		
Naphthalene	<27.2	ug/kg	354	27.2	1	12/03/18 15:17	12/04/18 23:05	91-20-3	
2-Nitroaniline	<88.8	ug/kg	354	88.8	1	12/03/18 15:17	12/04/18 23:05	88-74-4	
3-Nitroaniline	<38.6	ug/kg	354	38.6	1	12/03/18 15:17	12/04/18 23:05	99-09-2	
4-Nitroaniline	<51.7	ug/kg	354	51.7	1	12/03/18 15:17	12/04/18 23:05	100-01-6	
Nitrobenzene	<38.9	ug/kg	354	38.9	1	12/03/18 15:17	12/04/18 23:05	98-95-3	
2-Nitrophenol	<43.1	ug/kg	354	43.1	1	12/03/18 15:17	12/04/18 23:05	88-75-5	
4-Nitrophenol	<68.6	ug/kg	354	68.6	1	12/03/18 15:17	12/04/18 23:05	100-02-7	
N-Nitrosodimethylamine	<43.4	ug/kg	354	43.4	1	12/03/18 15:17	12/04/18 23:05	62-75-9	
N-Nitroso-di-n-propylamine	<162	ug/kg	354	162	1	12/03/18 15:17	12/04/18 23:05	621-64-7	
N-Nitrosodiphenylamine	<22.9	ug/kg	354	22.9	1	12/03/18 15:17	12/04/18 23:05	86-30-6	
Pentachlorophenol	<207	ug/kg	718	207	1	12/03/18 15:17	12/04/18 23:05	87-86-5	
Phenanthrene	<41.2	ug/kg	354	41.2	1	12/03/18 15:17	12/04/18 23:05	85-01-8	
Phenol	<23.2	ug/kg	354	23.2	1	12/03/18 15:17	12/04/18 23:05	108-95-2	
Pyrene	<26.9	ug/kg	354	26.9	1	12/03/18 15:17	12/04/18 23:05	129-00-0	
1,2,4-Trichlorobenzene	<38.8	ug/kg	354	38.8	1	12/03/18 15:17	12/04/18 23:05	120-82-1	
2,4,5-Trichlorophenol	<45.6	ug/kg	354	45.6	1	12/03/18 15:17	12/04/18 23:05	95-95-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-4 (6)**      **Lab ID: 10457121008**      Collected: 11/26/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<54.8	ug/kg	354	54.8	1	12/03/18 15:17	12/04/18 23:05	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	66	%	43-125		1	12/03/18 15:17	12/04/18 23:05	4165-60-0	
2-Fluorobiphenyl (S)	69	%	30-132		1	12/03/18 15:17	12/04/18 23:05	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/03/18 15:17	12/04/18 23:05	1718-51-0	
Phenol-d6 (S)	67	%	48-125		1	12/03/18 15:17	12/04/18 23:05	13127-88-3	
2-Fluorophenol (S)	62	%	40-125		1	12/03/18 15:17	12/04/18 23:05	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/03/18 15:17	12/04/18 23:05	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.22	ug/kg	4.0	0.22	1	03/04/19 09:00	03/04/19 17:16	106-93-4	
Methylene Chloride	<3.6	ug/kg	19.8	3.6	1	03/04/19 09:00	03/04/19 17:16	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 17:16	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 17:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 17:16	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<16.7	ug/kg	53.2	16.7	1	12/06/18 13:46	12/07/18 07:00	630-20-6	
1,1,1-Trichloroethane	<24.8	ug/kg	53.2	24.8	1	12/06/18 13:46	12/07/18 07:00	71-55-6	
1,1,2,2-Tetrachloroethane	<9.4	ug/kg	213	9.4	1	12/06/18 13:46	12/07/18 07:00	79-34-5	
1,1,2-Trichloroethane	<6.4	ug/kg	53.2	6.4	1	12/06/18 13:46	12/07/18 07:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	<61.7	ug/kg	213	61.7	1	12/06/18 13:46	12/07/18 07:00	76-13-1	
1,1-Dichloroethane	<6.0	ug/kg	53.2	6.0	1	12/06/18 13:46	12/07/18 07:00	75-34-3	
1,1-Dichloroethene	<15.9	ug/kg	213	15.9	1	12/06/18 13:46	12/07/18 07:00	75-35-4	
1,1-Dichloropropene	<24.6	ug/kg	53.2	24.6	1	12/06/18 13:46	12/07/18 07:00	563-58-6	
1,2,3-Trichlorobenzene	<8.5	ug/kg	53.2	8.5	1	12/06/18 13:46	12/07/18 07:00	87-61-6	
1,2,3-Trichloropropane	<13.9	ug/kg	213	13.9	1	12/06/18 13:46	12/07/18 07:00	96-18-4	
1,2,4-Trichlorobenzene	<11.8	ug/kg	53.2	11.8	1	12/06/18 13:46	12/07/18 07:00	120-82-1	
1,2,4-Trimethylbenzene	<10.6	ug/kg	53.2	10.6	1	12/06/18 13:46	12/07/18 07:00	95-63-6	
1,2-Dibromo-3-chloropropane	<185	ug/kg	532	185	1	12/06/18 13:46	12/07/18 07:00	96-12-8	
1,2-Dibromoethane (EDB)	<5.6	ug/kg	53.2	5.6	1	12/06/18 13:46	12/07/18 07:00	106-93-4	
1,2-Dichlorobenzene	<2.1	ug/kg	53.2	2.1	1	12/06/18 13:46	12/07/18 07:00	95-50-1	
1,2-Dichloroethane	<5.8	ug/kg	53.2	5.8	1	12/06/18 13:46	12/07/18 07:00	107-06-2	
1,2-Dichloropropane	<9.2	ug/kg	53.2	9.2	1	12/06/18 13:46	12/07/18 07:00	78-87-5	
1,3,5-Trimethylbenzene	<8.5	ug/kg	53.2	8.5	1	12/06/18 13:46	12/07/18 07:00	108-67-8	
1,3-Dichlorobenzene	<1.9	ug/kg	53.2	1.9	1	12/06/18 13:46	12/07/18 07:00	541-73-1	
1,3-Dichloropropane	<7.4	ug/kg	53.2	7.4	1	12/06/18 13:46	12/07/18 07:00	142-28-9	
1,4-Dichlorobenzene	<3.3	ug/kg	53.2	3.3	1	12/06/18 13:46	12/07/18 07:00	106-46-7	
2,2-Dichloropropane	<6.6	ug/kg	213	6.6	1	12/06/18 13:46	12/07/18 07:00	594-20-7	
2-Butanone (MEK)	<28.3	ug/kg	266	28.3	1	12/06/18 13:46	12/07/18 07:00	78-93-3	
2-Chlorotoluene	<2.6	ug/kg	53.2	2.6	1	12/06/18 13:46	12/07/18 07:00	95-49-8	
4-Chlorotoluene	<2.7	ug/kg	53.2	2.7	1	12/06/18 13:46	12/07/18 07:00	106-43-4	
4-Methyl-2-pentanone (MIBK)	<11.1	ug/kg	266	11.1	1	12/06/18 13:46	12/07/18 07:00	108-10-1	
Acetone	843J	ug/kg	1060	331	1	12/06/18 13:46	12/07/18 07:00	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Sample: TP-4 (6) Lab ID: 10457121008 Collected: 11/26/18 15:40 Received: 11/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Allyl chloride	<44.5	ug/kg	213	44.5	1	12/06/18 13:46	12/07/18 07:00	107-05-1	
Benzene	<3.0	ug/kg	21.3	3.0	1	12/06/18 13:46	12/07/18 07:00	71-43-2	
Bromobenzene	<3.3	ug/kg	53.2	3.3	1	12/06/18 13:46	12/07/18 07:00	108-86-1	
Bromochloromethane	<18.4	ug/kg	53.2	18.4	1	12/06/18 13:46	12/07/18 07:00	74-97-5	
Bromodichloromethane	<18.2	ug/kg	53.2	18.2	1	12/06/18 13:46	12/07/18 07:00	75-27-4	
Bromoform	<80.5	ug/kg	213	80.5	1	12/06/18 13:46	12/07/18 07:00	75-25-2	
Bromomethane	<62.2	ug/kg	532	62.2	1	12/06/18 13:46	12/07/18 07:00	74-83-9	
Carbon tetrachloride	<25.4	ug/kg	53.2	25.4	1	12/06/18 13:46	12/07/18 07:00	56-23-5	
Chlorobenzene	<3.0	ug/kg	53.2	3.0	1	12/06/18 13:46	12/07/18 07:00	108-90-7	
Chloroethane	<27.6	ug/kg	532	27.6	1	12/06/18 13:46	12/07/18 07:00	75-00-3	
Chloroform	<26.6	ug/kg	53.2	26.6	1	12/06/18 13:46	12/07/18 07:00	67-66-3	
Chloromethane	<12.8	ug/kg	213	12.8	1	12/06/18 13:46	12/07/18 07:00	74-87-3	
Dibromochloromethane	<6.2	ug/kg	213	6.2	1	12/06/18 13:46	12/07/18 07:00	124-48-1	
Dibromomethane	<9.7	ug/kg	53.2	9.7	1	12/06/18 13:46	12/07/18 07:00	74-95-3	
Dichlorodifluoromethane	<17.2	ug/kg	213	17.2	1	12/06/18 13:46	12/07/18 07:00	75-71-8	
Dichlorofluoromethane	<73.5	ug/kg	532	73.5	1	12/06/18 13:46	12/07/18 07:00	75-43-4	N2
Diethyl ether (Ethyl ether)	<32.5	ug/kg	213	32.5	1	12/06/18 13:46	12/07/18 07:00	60-29-7	
Ethylbenzene	<2.9	ug/kg	53.2	2.9	1	12/06/18 13:46	12/07/18 07:00	100-41-4	
Hexachloro-1,3-butadiene	<13.0	ug/kg	266	13.0	1	12/06/18 13:46	12/07/18 07:00	87-68-3	
Isopropylbenzene (Cumene)	<2.4	ug/kg	53.2	2.4	1	12/06/18 13:46	12/07/18 07:00	98-82-8	
Methyl-tert-butyl ether	<6.3	ug/kg	53.2	6.3	1	12/06/18 13:46	12/07/18 07:00	1634-04-4	
Methylene Chloride	<100	ug/kg	213	100	1	12/06/18 13:46	12/07/18 07:00	75-09-2	
Naphthalene	<49.8	ug/kg	213	49.8	1	12/06/18 13:46	12/07/18 07:00	91-20-3	
Styrene	<2.4	ug/kg	53.2	2.4	1	12/06/18 13:46	12/07/18 07:00	100-42-5	
Tetrachloroethene	<18.7	ug/kg	53.2	18.7	1	12/06/18 13:46	12/07/18 07:00	127-18-4	
Tetrahydrofuran	<77.3	ug/kg	2130	77.3	1	12/06/18 13:46	12/07/18 07:00	109-99-9	
Toluene	<13.0	ug/kg	53.2	13.0	1	12/06/18 13:46	12/07/18 07:00	108-88-3	
Trichloroethene	<8.2	ug/kg	53.2	8.2	1	12/06/18 13:46	12/07/18 07:00	79-01-6	
Trichlorofluoromethane	<92.7	ug/kg	213	92.7	1	12/06/18 13:46	12/07/18 07:00	75-69-4	
Vinyl chloride	<10.5	ug/kg	53.2	10.5	1	12/06/18 13:46	12/07/18 07:00	75-01-4	
Xylene (Total)	<12.3	ug/kg	159	12.3	1	12/06/18 13:46	12/07/18 07:00	1330-20-7	
cis-1,2-Dichloroethene	<8.8	ug/kg	53.2	8.8	1	12/06/18 13:46	12/07/18 07:00	156-59-2	
cis-1,3-Dichloropropene	<7.6	ug/kg	53.2	7.6	1	12/06/18 13:46	12/07/18 07:00	10061-01-5	
n-Butylbenzene	<25.3	ug/kg	53.2	25.3	1	12/06/18 13:46	12/07/18 07:00	104-51-8	
n-Propylbenzene	<2.8	ug/kg	53.2	2.8	1	12/06/18 13:46	12/07/18 07:00	103-65-1	
p-Isopropyltoluene	<16.2	ug/kg	53.2	16.2	1	12/06/18 13:46	12/07/18 07:00	99-87-6	
sec-Butylbenzene	<10.2	ug/kg	53.2	10.2	1	12/06/18 13:46	12/07/18 07:00	135-98-8	
tert-Butylbenzene	<10.2	ug/kg	53.2	10.2	1	12/06/18 13:46	12/07/18 07:00	98-06-6	
trans-1,2-Dichloroethene	<24.9	ug/kg	53.2	24.9	1	12/06/18 13:46	12/07/18 07:00	156-60-5	
trans-1,3-Dichloropropene	<7.4	ug/kg	53.2	7.4	1	12/06/18 13:46	12/07/18 07:00	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/06/18 13:46	12/07/18 07:00	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/06/18 13:46	12/07/18 07:00	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/06/18 13:46	12/07/18 07:00	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (3)**      **Lab ID: 10457121009**      Collected: 11/27/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.39	ug/kg	3.8	0.39	2	12/05/18 13:42	12/11/18 06:50	309-00-2	
alpha-BHC	<0.28	ug/kg	3.8	0.28	2	12/05/18 13:42	12/11/18 06:50	319-84-6	
beta-BHC	<0.51	ug/kg	3.8	0.51	2	12/05/18 13:42	12/11/18 06:50	319-85-7	
delta-BHC	<0.32	ug/kg	3.8	0.32	2	12/05/18 13:42	12/11/18 06:50	319-86-8	
gamma-BHC (Lindane)	<0.33	ug/kg	3.8	0.33	2	12/05/18 13:42	12/11/18 06:50	58-89-9	
Chlordane (Technical)	<7.0	ug/kg	38.4	7.0	2	12/05/18 13:42	12/11/18 06:50	57-74-9	
alpha-Chlordane	<0.31	ug/kg	3.8	0.31	2	12/05/18 13:42	12/11/18 06:50	5103-71-9	
gamma-Chlordane	<0.88	ug/kg	3.8	0.88	2	12/05/18 13:42	12/11/18 06:50	5103-74-2	
4,4'-DDD	<0.70	ug/kg	7.7	0.70	2	12/05/18 13:42	12/11/18 06:50	72-54-8	
4,4'-DDE	<0.57	ug/kg	7.7	0.57	2	12/05/18 13:42	12/11/18 06:50	72-55-9	
4,4'-DDT	<0.96	ug/kg	7.7	0.96	2	12/05/18 13:42	12/11/18 06:50	50-29-3	
Dieldrin	<0.74	ug/kg	7.7	0.74	2	12/05/18 13:42	12/11/18 06:50	60-57-1	
Endosulfan I	<0.34	ug/kg	3.8	0.34	2	12/05/18 13:42	12/11/18 06:50	959-98-8	
Endosulfan II	<0.77	ug/kg	7.7	0.77	2	12/05/18 13:42	12/11/18 06:50	33213-65-9	
Endosulfan sulfate	<0.79	ug/kg	7.7	0.79	2	12/05/18 13:42	12/11/18 06:50	1031-07-8	
Endrin	<0.68	ug/kg	7.7	0.68	2	12/05/18 13:42	12/11/18 06:50	72-20-8	
Endrin aldehyde	<2.4	ug/kg	7.7	2.4	2	12/05/18 13:42	12/11/18 06:50	7421-93-4	
Endrin ketone	<0.91	ug/kg	7.7	0.91	2	12/05/18 13:42	12/11/18 06:50	53494-70-5	
Heptachlor	<0.41	ug/kg	3.8	0.41	2	12/05/18 13:42	12/11/18 06:50	76-44-8	
Heptachlor epoxide	<0.36	ug/kg	3.8	0.36	2	12/05/18 13:42	12/11/18 06:50	1024-57-3	
Methoxychlor	<5.8	ug/kg	38.4	5.8	2	12/05/18 13:42	12/11/18 06:50	72-43-5	
Toxaphene	<18.2	ug/kg	115	18.2	2	12/05/18 13:42	12/11/18 06:50	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	30-150		2	12/05/18 13:42	12/11/18 06:50	877-09-8	5M, CH, D3
Decachlorobiphenyl (S)	82	%	30-150		2	12/05/18 13:42	12/11/18 06:50	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.6	ug/kg	37.9	10.6	1	12/05/18 09:53	12/10/18 20:11	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.3	ug/kg	37.9	13.3	1	12/05/18 09:53	12/10/18 20:11	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.2	ug/kg	37.9	15.2	1	12/05/18 09:53	12/10/18 20:11	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.9	ug/kg	37.9	12.9	1	12/05/18 09:53	12/10/18 20:11	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.4	ug/kg	37.9	11.4	1	12/05/18 09:53	12/10/18 20:11	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.2	ug/kg	37.9	11.2	1	12/05/18 09:53	12/10/18 20:11	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.1	ug/kg	37.9	9.1	1	12/05/18 09:53	12/10/18 20:11	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	81	%	48-125		1	12/05/18 09:53	12/10/18 20:11	877-09-8	
Decachlorobiphenyl (S)	97	%	30-134		1	12/05/18 09:53	12/10/18 20:11	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	7.1J	mg/kg	16.8	2.7	1	12/04/18 18:01	12/12/18 15:04	68334-30-5	
Motor Oil Range	24.5	mg/kg	11.2	4.9	1	12/04/18 18:01	12/12/18 15:04		
<b>Surrogates</b>									
n-Triacontane (S)	107	%	50-150		1	12/04/18 18:01	12/12/18 15:04	638-68-6	
o-Terphenyl (S)	96	%	50-150		1	12/04/18 18:01	12/12/18 15:04	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (3)**      **Lab ID: 10457121009**      Collected: 11/27/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.77	mg/kg	5.9	0.77	1	12/10/18 16:17	12/10/18 23:49		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	102	%	50-150		1	12/10/18 16:17	12/10/18 23:49	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.43	mg/kg	1.1	0.43	1	12/06/18 14:27	12/07/18 18:56	7440-36-0	
Arsenic	1.3	mg/kg	1.1	0.23	1	12/06/18 14:27	12/07/18 18:56	7440-38-2	
Beryllium	0.37	mg/kg	0.28	0.015	1	12/06/18 14:27	12/07/18 18:56	7440-41-7	
Cadmium	0.077J	mg/kg	0.17	0.022	1	12/06/18 14:27	12/07/18 18:56	7440-43-9	
Chromium	6.0	mg/kg	0.56	0.097	1	12/06/18 14:27	12/07/18 18:56	7440-47-3	
Copper	12.1	mg/kg	0.56	0.063	1	12/06/18 14:27	12/07/18 18:56	7440-50-8	
Lead	21.2	mg/kg	0.56	0.13	1	12/06/18 14:27	12/07/18 18:56	7439-92-1	
Nickel	4.6	mg/kg	1.1	0.071	1	12/06/18 14:27	12/07/18 18:56	7440-02-0	
Selenium	<0.37	mg/kg	1.1	0.37	1	12/06/18 14:27	12/07/18 18:56	7782-49-2	
Silver	0.045J	mg/kg	0.56	0.041	1	12/06/18 14:27	12/07/18 18:56	7440-22-4	
Thallium	<0.26	mg/kg	1.1	0.26	1	12/06/18 14:27	12/07/18 18:56	7440-28-0	
Zinc	56.2	mg/kg	1.1	0.49	1	12/06/18 14:27	12/07/18 18:56	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.23	mg/kg	0.021	0.0084	1	12/06/18 14:29	12/12/18 15:40	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	13.2	%	0.10	0.10	1		12/12/18 10:23		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<40.2	ug/kg	377	40.2	1	12/03/18 15:17	12/04/18 23:35	83-32-9	
Acenaphthylene	55.9J	ug/kg	377	48.1	1	12/03/18 15:17	12/04/18 23:35	208-96-8	
Anthracene	113J	ug/kg	377	44.2	1	12/03/18 15:17	12/04/18 23:35	120-12-7	
Benzo(a)anthracene	531	ug/kg	377	38.7	1	12/03/18 15:17	12/04/18 23:35	56-55-3	
Benzo(a)pyrene	503	ug/kg	377	42.7	1	12/03/18 15:17	12/04/18 23:35	50-32-8	
Benzo(b)fluoranthene	566	ug/kg	377	36.9	1	12/03/18 15:17	12/04/18 23:35	205-99-2	
Benzo(g,h,i)perylene	286J	ug/kg	377	40.3	1	12/03/18 15:17	12/04/18 23:35	191-24-2	
Benzo(k)fluoranthene	191J	ug/kg	377	47.0	1	12/03/18 15:17	12/04/18 23:35	207-08-9	
4-Bromophenylphenyl ether	<44.9	ug/kg	377	44.9	1	12/03/18 15:17	12/04/18 23:35	101-55-3	
Butylbenzylphthalate	<34.5	ug/kg	377	34.5	1	12/03/18 15:17	12/04/18 23:35	85-68-7	
Carbazole	<31.3	ug/kg	377	31.3	1	12/03/18 15:17	12/04/18 23:35	86-74-8	
4-Chloro-3-methylphenol	<60.3	ug/kg	377	60.3	1	12/03/18 15:17	12/04/18 23:35	59-50-7	
4-Chloroaniline	<100	ug/kg	377	100	1	12/03/18 15:17	12/04/18 23:35	106-47-8	
bis(2-Chloroethoxy)methane	<38.6	ug/kg	377	38.6	1	12/03/18 15:17	12/04/18 23:35	111-91-1	
bis(2-Chloroethyl) ether	<29.8	ug/kg	377	29.8	1	12/03/18 15:17	12/04/18 23:35	111-44-4	
bis(2-Chloroisopropyl) ether	<38.8	ug/kg	377	38.8	1	12/03/18 15:17	12/04/18 23:35	108-60-1	
2-Chloronaphthalene	<33.3	ug/kg	377	33.3	1	12/03/18 15:17	12/04/18 23:35	91-58-7	
2-Chlorophenol	<42.9	ug/kg	377	42.9	1	12/03/18 15:17	12/04/18 23:35	95-57-8	
4-Chlorophenylphenyl ether	<46.7	ug/kg	377	46.7	1	12/03/18 15:17	12/04/18 23:35	7005-72-3	
Chrysene	528	ug/kg	377	39.7	1	12/03/18 15:17	12/04/18 23:35	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (3)**      **Lab ID: 10457121009**      Collected: 11/27/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<b>68.5J</b>	ug/kg	377	40.1	1	12/03/18 15:17	12/04/18 23:35	53-70-3	
Dibenzofuran	<b>&lt;47.7</b>	ug/kg	377	47.7	1	12/03/18 15:17	12/04/18 23:35	132-64-9	
1,2-Dichlorobenzene	<b>&lt;39.5</b>	ug/kg	377	39.5	1	12/03/18 15:17	12/04/18 23:35	95-50-1	
1,3-Dichlorobenzene	<b>&lt;25.8</b>	ug/kg	377	25.8	1	12/03/18 15:17	12/04/18 23:35	541-73-1	
1,4-Dichlorobenzene	<b>&lt;41.9</b>	ug/kg	377	41.9	1	12/03/18 15:17	12/04/18 23:35	106-46-7	
3,3'-Dichlorobenzidine	<b>&lt;127</b>	ug/kg	377	127	1	12/03/18 15:17	12/04/18 23:35	91-94-1	
2,4-Dichlorophenol	<b>&lt;62.9</b>	ug/kg	377	62.9	1	12/03/18 15:17	12/04/18 23:35	120-83-2	
Diethylphthalate	<b>&lt;33.6</b>	ug/kg	377	33.6	1	12/03/18 15:17	12/04/18 23:35	84-66-2	
2,4-Dimethylphenol	<b>&lt;147</b>	ug/kg	377	147	1	12/03/18 15:17	12/04/18 23:35	105-67-9	
Dimethylphthalate	<b>&lt;51.1</b>	ug/kg	377	51.1	1	12/03/18 15:17	12/04/18 23:35	131-11-3	
Di-n-butylphthalate	<b>&lt;51.6</b>	ug/kg	377	51.6	1	12/03/18 15:17	12/04/18 23:35	84-74-2	
4,6-Dinitro-2-methylphenol	<b>&lt;373</b>	ug/kg	1940	373	1	12/03/18 15:17	12/04/18 23:35	534-52-1	
2,4-Dinitrophenol	<b>&lt;176</b>	ug/kg	377	176	1	12/03/18 15:17	12/04/18 23:35	51-28-5	
2,4-Dinitrotoluene	<b>&lt;47.9</b>	ug/kg	377	47.9	1	12/03/18 15:17	12/04/18 23:35	121-14-2	
2,6-Dinitrotoluene	<b>&lt;49.9</b>	ug/kg	377	49.9	1	12/03/18 15:17	12/04/18 23:35	606-20-2	
Di-n-octylphthalate	<b>&lt;43.7</b>	ug/kg	377	43.7	1	12/03/18 15:17	12/04/18 23:35	117-84-0	
1,2-Diphenylhydrazine	<b>&lt;46.2</b>	ug/kg	377	46.2	1	12/03/18 15:17	12/04/18 23:35	122-66-7	
bis(2-Ethylhexyl)phthalate	<b>&lt;78.5</b>	ug/kg	377	78.5	1	12/03/18 15:17	12/04/18 23:35	117-81-7	
Fluoranthene	<b>846</b>	ug/kg	377	43.3	1	12/03/18 15:17	12/04/18 23:35	206-44-0	
Fluorene	<b>&lt;172</b>	ug/kg	377	172	1	12/03/18 15:17	12/04/18 23:35	86-73-7	
Hexachloro-1,3-butadiene	<b>&lt;57.3</b>	ug/kg	377	57.3	1	12/03/18 15:17	12/04/18 23:35	87-68-3	
Hexachlorobenzene	<b>&lt;61.4</b>	ug/kg	377	61.4	1	12/03/18 15:17	12/04/18 23:35	118-74-1	
Hexachloroethane	<b>&lt;49.0</b>	ug/kg	377	49.0	1	12/03/18 15:17	12/04/18 23:35	67-72-1	
Indeno(1,2,3-cd)pyrene	<b>249J</b>	ug/kg	377	22.7	1	12/03/18 15:17	12/04/18 23:35	193-39-5	
Isophorone	<b>&lt;29.0</b>	ug/kg	377	29.0	1	12/03/18 15:17	12/04/18 23:35	78-59-1	
1-Methylnaphthalene	<b>&lt;34.8</b>	ug/kg	377	34.8	1	12/03/18 15:17	12/04/18 23:35	90-12-0	
2-Methylnaphthalene	<b>&lt;34.0</b>	ug/kg	377	34.0	1	12/03/18 15:17	12/04/18 23:35	91-57-6	
2-Methylphenol(o-Cresol)	<b>&lt;23.5</b>	ug/kg	377	23.5	1	12/03/18 15:17	12/04/18 23:35	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>&lt;21.2</b>	ug/kg	753	21.2	1	12/03/18 15:17	12/04/18 23:35		
Naphthalene	<b>&lt;29.0</b>	ug/kg	377	29.0	1	12/03/18 15:17	12/04/18 23:35	91-20-3	
2-Nitroaniline	<b>&lt;94.5</b>	ug/kg	377	94.5	1	12/03/18 15:17	12/04/18 23:35	88-74-4	
3-Nitroaniline	<b>&lt;41.1</b>	ug/kg	377	41.1	1	12/03/18 15:17	12/04/18 23:35	99-09-2	
4-Nitroaniline	<b>&lt;55.0</b>	ug/kg	377	55.0	1	12/03/18 15:17	12/04/18 23:35	100-01-6	
Nitrobenzene	<b>&lt;41.4</b>	ug/kg	377	41.4	1	12/03/18 15:17	12/04/18 23:35	98-95-3	
2-Nitrophenol	<b>&lt;45.9</b>	ug/kg	377	45.9	1	12/03/18 15:17	12/04/18 23:35	88-75-5	
4-Nitrophenol	<b>&lt;73.1</b>	ug/kg	377	73.1	1	12/03/18 15:17	12/04/18 23:35	100-02-7	
N-Nitrosodimethylamine	<b>&lt;46.2</b>	ug/kg	377	46.2	1	12/03/18 15:17	12/04/18 23:35	62-75-9	
N-Nitroso-di-n-propylamine	<b>&lt;172</b>	ug/kg	377	172	1	12/03/18 15:17	12/04/18 23:35	621-64-7	
N-Nitrosodiphenylamine	<b>&lt;24.4</b>	ug/kg	377	24.4	1	12/03/18 15:17	12/04/18 23:35	86-30-6	
Pentachlorophenol	<b>&lt;220</b>	ug/kg	765	220	1	12/03/18 15:17	12/04/18 23:35	87-86-5	
Phenanthrene	<b>150J</b>	ug/kg	377	43.8	1	12/03/18 15:17	12/04/18 23:35	85-01-8	
Phenol	<b>&lt;24.7</b>	ug/kg	377	24.7	1	12/03/18 15:17	12/04/18 23:35	108-95-2	
Pyrene	<b>949</b>	ug/kg	377	28.7	1	12/03/18 15:17	12/04/18 23:35	129-00-0	
1,2,4-Trichlorobenzene	<b>&lt;41.3</b>	ug/kg	377	41.3	1	12/03/18 15:17	12/04/18 23:35	120-82-1	
2,4,5-Trichlorophenol	<b>&lt;48.5</b>	ug/kg	377	48.5	1	12/03/18 15:17	12/04/18 23:35	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Project No.: 10457121

**Sample: TP-5 (3)**      **Lab ID: 10457121009**      Collected: 11/27/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<58.3	ug/kg	377	58.3	1	12/03/18 15:17	12/04/18 23:35	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	72	%	43-125		1	12/03/18 15:17	12/04/18 23:35	4165-60-0	
2-Fluorobiphenyl (S)	76	%	30-132		1	12/03/18 15:17	12/04/18 23:35	321-60-8	
p-Terphenyl-d14 (S)	82	%	62-125		1	12/03/18 15:17	12/04/18 23:35	1718-51-0	
Phenol-d6 (S)	69	%	48-125		1	12/03/18 15:17	12/04/18 23:35	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/03/18 15:17	12/04/18 23:35	367-12-4	
2,4,6-Tribromophenol (S)	80	%	60-125		1	12/03/18 15:17	12/04/18 23:35	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.24	ug/kg	4.3	0.24	1	03/04/19 09:00	03/04/19 17:36	106-93-4	
Methylene Chloride	<4.0	ug/kg	21.6	4.0	1	03/04/19 09:00	03/04/19 17:36	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	119	%	75-125		1	03/04/19 09:00	03/04/19 17:36	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 17:36	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 17:36	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<374	ug/kg	1200	374	1	12/10/18 10:49	12/10/18 18:33	67-64-1	
Allyl chloride	<50.4	ug/kg	240	50.4	1	12/10/18 10:49	12/10/18 18:33	107-05-1	
Benzene	<3.4	ug/kg	24.0	3.4	1	12/10/18 10:49	12/10/18 18:33	71-43-2	
Bromobenzene	<3.7	ug/kg	60.1	3.7	1	12/10/18 10:49	12/10/18 18:33	108-86-1	
Bromochloromethane	<20.8	ug/kg	60.1	20.8	1	12/10/18 10:49	12/10/18 18:33	74-97-5	
Bromodichloromethane	<20.6	ug/kg	60.1	20.6	1	12/10/18 10:49	12/10/18 18:33	75-27-4	
Bromoform	<91.0	ug/kg	240	91.0	1	12/10/18 10:49	12/10/18 18:33	75-25-2	
Bromomethane	<70.3	ug/kg	601	70.3	1	12/10/18 10:49	12/10/18 18:33	74-83-9	
2-Butanone (MEK)	<32.0	ug/kg	300	32.0	1	12/10/18 10:49	12/10/18 18:33	78-93-3	
n-Butylbenzene	<28.6	ug/kg	60.1	28.6	1	12/10/18 10:49	12/10/18 18:33	104-51-8	
sec-Butylbenzene	<11.5	ug/kg	60.1	11.5	1	12/10/18 10:49	12/10/18 18:33	135-98-8	
tert-Butylbenzene	<11.5	ug/kg	60.1	11.5	1	12/10/18 10:49	12/10/18 18:33	98-06-6	
Carbon tetrachloride	<28.7	ug/kg	60.1	28.7	1	12/10/18 10:49	12/10/18 18:33	56-23-5	
Chlorobenzene	<3.4	ug/kg	60.1	3.4	1	12/10/18 10:49	12/10/18 18:33	108-90-7	
Chloroethane	<31.3	ug/kg	601	31.3	1	12/10/18 10:49	12/10/18 18:33	75-00-3	
Chloroform	<30.0	ug/kg	60.1	30.0	1	12/10/18 10:49	12/10/18 18:33	67-66-3	
Chloromethane	<14.4	ug/kg	240	14.4	1	12/10/18 10:49	12/10/18 18:33	74-87-3	
2-Chlorotoluene	<3.0	ug/kg	60.1	3.0	1	12/10/18 10:49	12/10/18 18:33	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	60.1	3.1	1	12/10/18 10:49	12/10/18 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	<209	ug/kg	601	209	1	12/10/18 10:49	12/10/18 18:33	96-12-8	
Dibromochloromethane	<7.0	ug/kg	240	7.0	1	12/10/18 10:49	12/10/18 18:33	124-48-1	
1,2-Dibromoethane (EDB)	<6.3	ug/kg	60.1	6.3	1	12/10/18 10:49	12/10/18 18:33	106-93-4	
Dibromomethane	<11.0	ug/kg	60.1	11.0	1	12/10/18 10:49	12/10/18 18:33	74-95-3	L2
1,2-Dichlorobenzene	<2.4	ug/kg	60.1	2.4	1	12/10/18 10:49	12/10/18 18:33	95-50-1	
1,3-Dichlorobenzene	<2.2	ug/kg	60.1	2.2	1	12/10/18 10:49	12/10/18 18:33	541-73-1	
1,4-Dichlorobenzene	<3.7	ug/kg	60.1	3.7	1	12/10/18 10:49	12/10/18 18:33	106-46-7	
Dichlorodifluoromethane	<19.5	ug/kg	240	19.5	1	12/10/18 10:49	12/10/18 18:33	75-71-8	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (3)**      **Lab ID: 10457121009**      Collected: 11/27/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<6.7	ug/kg	60.1	6.7	1	12/10/18 10:49	12/10/18 18:33	75-34-3	
1,2-Dichloroethane	<6.6	ug/kg	60.1	6.6	1	12/10/18 10:49	12/10/18 18:33	107-06-2	
1,1-Dichloroethene	<18.0	ug/kg	60.1	18.0	1	12/10/18 10:49	12/10/18 18:33	75-35-4	L2
cis-1,2-Dichloroethene	<10	ug/kg	60.1	10	1	12/10/18 10:49	12/10/18 18:33	156-59-2	
trans-1,2-Dichloroethene	<28.1	ug/kg	60.1	28.1	1	12/10/18 10:49	12/10/18 18:33	156-60-5	
Dichlorofluoromethane	<83.1	ug/kg	601	83.1	1	12/10/18 10:49	12/10/18 18:33	75-43-4	N2
1,2-Dichloropropane	<10.4	ug/kg	60.1	10.4	1	12/10/18 10:49	12/10/18 18:33	78-87-5	
1,3-Dichloropropane	<8.3	ug/kg	60.1	8.3	1	12/10/18 10:49	12/10/18 18:33	142-28-9	
2,2-Dichloropropane	<7.5	ug/kg	240	7.5	1	12/10/18 10:49	12/10/18 18:33	594-20-7	
1,1-Dichloropropene	<27.8	ug/kg	60.1	27.8	1	12/10/18 10:49	12/10/18 18:33	563-58-6	
cis-1,3-Dichloropropene	<8.6	ug/kg	60.1	8.6	1	12/10/18 10:49	12/10/18 18:33	10061-01-5	
trans-1,3-Dichloropropene	<8.4	ug/kg	60.1	8.4	1	12/10/18 10:49	12/10/18 18:33	10061-02-6	
Diethyl ether (Ethyl ether)	<36.8	ug/kg	240	36.8	1	12/10/18 10:49	12/10/18 18:33	60-29-7	
Ethylbenzene	<3.3	ug/kg	60.1	3.3	1	12/10/18 10:49	12/10/18 18:33	100-41-4	
Hexachloro-1,3-butadiene	<14.7	ug/kg	300	14.7	1	12/10/18 10:49	12/10/18 18:33	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	60.1	2.7	1	12/10/18 10:49	12/10/18 18:33	98-82-8	
p-Isopropyltoluene	<18.3	ug/kg	60.1	18.3	1	12/10/18 10:49	12/10/18 18:33	99-87-6	
Methylene Chloride	<113	ug/kg	240	113	1	12/10/18 10:49	12/10/18 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.5	ug/kg	300	12.5	1	12/10/18 10:49	12/10/18 18:33	108-10-1	
Methyl-tert-butyl ether	<7.2	ug/kg	60.1	7.2	1	12/10/18 10:49	12/10/18 18:33	1634-04-4	
Naphthalene	<56.3	ug/kg	240	56.3	1	12/10/18 10:49	12/10/18 18:33	91-20-3	
n-Propylbenzene	<3.2	ug/kg	60.1	3.2	1	12/10/18 10:49	12/10/18 18:33	103-65-1	
Styrene	<2.7	ug/kg	60.1	2.7	1	12/10/18 10:49	12/10/18 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	<18.9	ug/kg	60.1	18.9	1	12/10/18 10:49	12/10/18 18:33	630-20-6	
1,1,1,2,2-Tetrachloroethane	<10.6	ug/kg	60.1	10.6	1	12/10/18 10:49	12/10/18 18:33	79-34-5	
Tetrachloroethene	<21.2	ug/kg	60.1	21.2	1	12/10/18 10:49	12/10/18 18:33	127-18-4	L2
Tetrahydrofuran	<87.4	ug/kg	2400	87.4	1	12/10/18 10:49	12/10/18 18:33	109-99-9	
Toluene	<14.7	ug/kg	60.1	14.7	1	12/10/18 10:49	12/10/18 18:33	108-88-3	
1,2,3-Trichlorobenzene	<9.6	ug/kg	60.1	9.6	1	12/10/18 10:49	12/10/18 18:33	87-61-6	
1,2,4-Trichlorobenzene	<13.3	ug/kg	60.1	13.3	1	12/10/18 10:49	12/10/18 18:33	120-82-1	
1,1,1-Trichloroethane	<28.0	ug/kg	60.1	28.0	1	12/10/18 10:49	12/10/18 18:33	71-55-6	
1,1,2-Trichloroethane	<7.2	ug/kg	60.1	7.2	1	12/10/18 10:49	12/10/18 18:33	79-00-5	
Trichloroethene	<9.3	ug/kg	60.1	9.3	1	12/10/18 10:49	12/10/18 18:33	79-01-6	L2
Trichlorofluoromethane	<105	ug/kg	240	105	1	12/10/18 10:49	12/10/18 18:33	75-69-4	
1,2,3-Trichloropropane	<15.7	ug/kg	240	15.7	1	12/10/18 10:49	12/10/18 18:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<69.7	ug/kg	240	69.7	1	12/10/18 10:49	12/10/18 18:33	76-13-1	
1,2,4-Trimethylbenzene	<12.0	ug/kg	60.1	12.0	1	12/10/18 10:49	12/10/18 18:33	95-63-6	
1,3,5-Trimethylbenzene	<9.6	ug/kg	60.1	9.6	1	12/10/18 10:49	12/10/18 18:33	108-67-8	
Vinyl chloride	<11.8	ug/kg	24.0	11.8	1	12/10/18 10:49	12/10/18 18:33	75-01-4	
Xylene (Total)	<13.9	ug/kg	180	13.9	1	12/10/18 10:49	12/10/18 18:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/10/18 10:49	12/10/18 18:33	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/10/18 10:49	12/10/18 18:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 18:33	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (6)**      **Lab ID: 10457121010**      Collected: 11/27/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.19	ug/kg	1.8	0.19	1	12/05/18 13:42	12/12/18 02:22	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 02:22	319-84-6	
beta-BHC	<0.25	ug/kg	1.8	0.25	1	12/05/18 13:42	12/12/18 02:22	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:22	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 02:22	58-89-9	
Chlordane (Technical)	<3.4	ug/kg	18.4	3.4	1	12/05/18 13:42	12/12/18 02:22	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:22	5103-71-9	
gamma-Chlordane	<0.42	ug/kg	1.8	0.42	1	12/05/18 13:42	12/12/18 02:22	5103-74-2	
4,4'-DDD	<0.33	ug/kg	3.7	0.33	1	12/05/18 13:42	12/12/18 02:22	72-54-8	
4,4'-DDE	<0.27	ug/kg	3.7	0.27	1	12/05/18 13:42	12/12/18 02:22	72-55-9	
4,4'-DDT	<0.46	ug/kg	3.7	0.46	1	12/05/18 13:42	12/12/18 02:22	50-29-3	
Dieldrin	<0.35	ug/kg	3.7	0.35	1	12/05/18 13:42	12/12/18 02:22	60-57-1	
Endosulfan I	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 02:22	959-98-8	
Endosulfan II	<0.37	ug/kg	3.7	0.37	1	12/05/18 13:42	12/12/18 02:22	33213-65-9	
Endosulfan sulfate	<0.38	ug/kg	3.7	0.38	1	12/05/18 13:42	12/12/18 02:22	1031-07-8	
Endrin	<0.33	ug/kg	3.7	0.33	1	12/05/18 13:42	12/12/18 02:22	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.7	1.1	1	12/05/18 13:42	12/12/18 02:22	7421-93-4	
Endrin ketone	<0.43	ug/kg	3.7	0.43	1	12/05/18 13:42	12/12/18 02:22	53494-70-5	
Heptachlor	<0.20	ug/kg	1.8	0.20	1	12/05/18 13:42	12/12/18 02:22	76-44-8	
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 02:22	1024-57-3	
Methoxychlor	<2.8	ug/kg	18.4	2.8	1	12/05/18 13:42	12/12/18 02:22	72-43-5	
Toxaphene	<8.7	ug/kg	55.1	8.7	1	12/05/18 13:42	12/12/18 02:22	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	105	%	30-150		1	12/05/18 13:42	12/12/18 02:22	877-09-8	
Decachlorobiphenyl (S)	89	%	30-150		1	12/05/18 13:42	12/12/18 02:22	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.1	ug/kg	36.4	10.1	1	12/05/18 09:53	12/10/18 20:27	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.8	ug/kg	36.4	12.8	1	12/05/18 09:53	12/10/18 20:27	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.5	ug/kg	36.4	14.5	1	12/05/18 09:53	12/10/18 20:27	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.3	ug/kg	36.4	12.3	1	12/05/18 09:53	12/10/18 20:27	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.9	ug/kg	36.4	10.9	1	12/05/18 09:53	12/10/18 20:27	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.7	ug/kg	36.4	10.7	1	12/05/18 09:53	12/10/18 20:27	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.7	ug/kg	36.4	8.7	1	12/05/18 09:53	12/10/18 20:27	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	48-125		1	12/05/18 09:53	12/10/18 20:27	877-09-8	
Decachlorobiphenyl (S)	109	%	30-134		1	12/05/18 09:53	12/10/18 20:27	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.7	mg/kg	16.6	2.7	1	12/04/18 18:01	12/12/18 15:16	68334-30-5	
Motor Oil Range	<4.8	mg/kg	11.0	4.8	1	12/04/18 18:01	12/12/18 15:16		
<b>Surrogates</b>									
n-Triacontane (S)	110	%	50-150		1	12/04/18 18:01	12/12/18 15:16	638-68-6	
o-Terphenyl (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 15:16	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (6)**      **Lab ID: 10457121010**      Collected: 11/27/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<0.76	mg/kg	5.8	0.76	1	12/10/18 16:17	12/11/18 00:06		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/10/18 16:17	12/11/18 00:06	98-08-8	
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<0.41	mg/kg	1.1	0.41	1	12/06/18 14:27	12/07/18 18:59	7440-36-0	
Arsenic	1.1J	mg/kg	1.1	0.22	1	12/06/18 14:27	12/07/18 18:59	7440-38-2	
Beryllium	0.38	mg/kg	0.27	0.015	1	12/06/18 14:27	12/07/18 18:59	7440-41-7	
Cadmium	<0.022	mg/kg	0.16	0.022	1	12/06/18 14:27	12/07/18 18:59	7440-43-9	
Chromium	4.8	mg/kg	0.55	0.094	1	12/06/18 14:27	12/07/18 18:59	7440-47-3	
Copper	10.7	mg/kg	0.55	0.061	1	12/06/18 14:27	12/07/18 18:59	7440-50-8	
Lead	3.6	mg/kg	0.55	0.12	1	12/06/18 14:27	12/07/18 18:59	7439-92-1	
Nickel	3.3	mg/kg	1.1	0.069	1	12/06/18 14:27	12/07/18 18:59	7440-02-0	
Selenium	<0.36	mg/kg	1.1	0.36	1	12/06/18 14:27	12/07/18 18:59	7782-49-2	
Silver	<0.040	mg/kg	0.55	0.040	1	12/06/18 14:27	12/07/18 18:59	7440-22-4	
Thallium	<0.25	mg/kg	1.1	0.25	1	12/06/18 14:27	12/07/18 18:59	7440-28-0	
Zinc	35.1	mg/kg	1.1	0.48	1	12/06/18 14:27	12/07/18 18:59	7440-66-6	
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	0.015J	mg/kg	0.019	0.0076	1	12/06/18 14:29	12/12/18 15:42	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	9.6	%	0.10	0.10	1		12/12/18 10:23		
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
Acenaphthene	<38.9	ug/kg	365	38.9	1	12/03/18 15:17	12/05/18 00:04	83-32-9	
Acenaphthylene	<46.6	ug/kg	365	46.6	1	12/03/18 15:17	12/05/18 00:04	208-96-8	
Anthracene	<42.8	ug/kg	365	42.8	1	12/03/18 15:17	12/05/18 00:04	120-12-7	
Benzo(a)anthracene	<37.5	ug/kg	365	37.5	1	12/03/18 15:17	12/05/18 00:04	56-55-3	
Benzo(a)pyrene	<41.4	ug/kg	365	41.4	1	12/03/18 15:17	12/05/18 00:04	50-32-8	
Benzo(b)fluoranthene	<35.7	ug/kg	365	35.7	1	12/03/18 15:17	12/05/18 00:04	205-99-2	
Benzo(g,h,i)perylene	<39.0	ug/kg	365	39.0	1	12/03/18 15:17	12/05/18 00:04	191-24-2	
Benzo(k)fluoranthene	<45.6	ug/kg	365	45.6	1	12/03/18 15:17	12/05/18 00:04	207-08-9	
4-Bromophenylphenyl ether	<43.5	ug/kg	365	43.5	1	12/03/18 15:17	12/05/18 00:04	101-55-3	
Butylbenzylphthalate	<33.4	ug/kg	365	33.4	1	12/03/18 15:17	12/05/18 00:04	85-68-7	
Carbazole	<30.3	ug/kg	365	30.3	1	12/03/18 15:17	12/05/18 00:04	86-74-8	
4-Chloro-3-methylphenol	<58.4	ug/kg	365	58.4	1	12/03/18 15:17	12/05/18 00:04	59-50-7	
4-Chloroaniline	<97.2	ug/kg	365	97.2	1	12/03/18 15:17	12/05/18 00:04	106-47-8	
bis(2-Chloroethoxy)methane	<37.4	ug/kg	365	37.4	1	12/03/18 15:17	12/05/18 00:04	111-91-1	
bis(2-Chloroethyl) ether	<28.9	ug/kg	365	28.9	1	12/03/18 15:17	12/05/18 00:04	111-44-4	
bis(2-Chloroisopropyl) ether	<37.6	ug/kg	365	37.6	1	12/03/18 15:17	12/05/18 00:04	108-60-1	
2-Chloronaphthalene	<32.3	ug/kg	365	32.3	1	12/03/18 15:17	12/05/18 00:04	91-58-7	
2-Chlorophenol	<41.6	ug/kg	365	41.6	1	12/03/18 15:17	12/05/18 00:04	95-57-8	
4-Chlorophenylphenyl ether	<45.2	ug/kg	365	45.2	1	12/03/18 15:17	12/05/18 00:04	7005-72-3	
Chrysene	<38.5	ug/kg	365	38.5	1	12/03/18 15:17	12/05/18 00:04	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (6)**      **Lab ID: 10457121010**      Collected: 11/27/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<38.8	ug/kg	365	38.8	1	12/03/18 15:17	12/05/18 00:04	53-70-3	
Dibenzofuran	<46.2	ug/kg	365	46.2	1	12/03/18 15:17	12/05/18 00:04	132-64-9	
1,2-Dichlorobenzene	<38.3	ug/kg	365	38.3	1	12/03/18 15:17	12/05/18 00:04	95-50-1	
1,3-Dichlorobenzene	<25.0	ug/kg	365	25.0	1	12/03/18 15:17	12/05/18 00:04	541-73-1	
1,4-Dichlorobenzene	<40.6	ug/kg	365	40.6	1	12/03/18 15:17	12/05/18 00:04	106-46-7	
3,3'-Dichlorobenzidine	<123	ug/kg	365	123	1	12/03/18 15:17	12/05/18 00:04	91-94-1	
2,4-Dichlorophenol	<60.9	ug/kg	365	60.9	1	12/03/18 15:17	12/05/18 00:04	120-83-2	
Diethylphthalate	<32.5	ug/kg	365	32.5	1	12/03/18 15:17	12/05/18 00:04	84-66-2	
2,4-Dimethylphenol	<143	ug/kg	365	143	1	12/03/18 15:17	12/05/18 00:04	105-67-9	
Dimethylphthalate	<49.6	ug/kg	365	49.6	1	12/03/18 15:17	12/05/18 00:04	131-11-3	
Di-n-butylphthalate	<50.0	ug/kg	365	50.0	1	12/03/18 15:17	12/05/18 00:04	84-74-2	
4,6-Dinitro-2-methylphenol	<362	ug/kg	1880	362	1	12/03/18 15:17	12/05/18 00:04	534-52-1	
2,4-Dinitrophenol	<170	ug/kg	365	170	1	12/03/18 15:17	12/05/18 00:04	51-28-5	
2,4-Dinitrotoluene	<46.5	ug/kg	365	46.5	1	12/03/18 15:17	12/05/18 00:04	121-14-2	
2,6-Dinitrotoluene	<48.3	ug/kg	365	48.3	1	12/03/18 15:17	12/05/18 00:04	606-20-2	
Di-n-octylphthalate	<42.4	ug/kg	365	42.4	1	12/03/18 15:17	12/05/18 00:04	117-84-0	
1,2-Diphenylhydrazine	<44.8	ug/kg	365	44.8	1	12/03/18 15:17	12/05/18 00:04	122-66-7	
bis(2-Ethylhexyl)phthalate	<76.1	ug/kg	365	76.1	1	12/03/18 15:17	12/05/18 00:04	117-81-7	
Fluoranthene	<41.9	ug/kg	365	41.9	1	12/03/18 15:17	12/05/18 00:04	206-44-0	
Fluorene	<167	ug/kg	365	167	1	12/03/18 15:17	12/05/18 00:04	86-73-7	
Hexachloro-1,3-butadiene	<55.5	ug/kg	365	55.5	1	12/03/18 15:17	12/05/18 00:04	87-68-3	
Hexachlorobenzene	<59.5	ug/kg	365	59.5	1	12/03/18 15:17	12/05/18 00:04	118-74-1	
Hexachloroethane	<47.5	ug/kg	365	47.5	1	12/03/18 15:17	12/05/18 00:04	67-72-1	
Indeno(1,2,3-cd)pyrene	<22.0	ug/kg	365	22.0	1	12/03/18 15:17	12/05/18 00:04	193-39-5	
Isophorone	<28.1	ug/kg	365	28.1	1	12/03/18 15:17	12/05/18 00:04	78-59-1	
1-Methylnaphthalene	<33.7	ug/kg	365	33.7	1	12/03/18 15:17	12/05/18 00:04	90-12-0	
2-Methylnaphthalene	<33.0	ug/kg	365	33.0	1	12/03/18 15:17	12/05/18 00:04	91-57-6	
2-Methylphenol(o-Cresol)	<22.8	ug/kg	365	22.8	1	12/03/18 15:17	12/05/18 00:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.6	ug/kg	730	20.6	1	12/03/18 15:17	12/05/18 00:04		
Naphthalene	<28.1	ug/kg	365	28.1	1	12/03/18 15:17	12/05/18 00:04	91-20-3	
2-Nitroaniline	<91.6	ug/kg	365	91.6	1	12/03/18 15:17	12/05/18 00:04	88-74-4	
3-Nitroaniline	<39.8	ug/kg	365	39.8	1	12/03/18 15:17	12/05/18 00:04	99-09-2	
4-Nitroaniline	<53.3	ug/kg	365	53.3	1	12/03/18 15:17	12/05/18 00:04	100-01-6	
Nitrobenzene	<40.2	ug/kg	365	40.2	1	12/03/18 15:17	12/05/18 00:04	98-95-3	
2-Nitrophenol	<44.5	ug/kg	365	44.5	1	12/03/18 15:17	12/05/18 00:04	88-75-5	
4-Nitrophenol	<70.8	ug/kg	365	70.8	1	12/03/18 15:17	12/05/18 00:04	100-02-7	
N-Nitrosodimethylamine	<44.8	ug/kg	365	44.8	1	12/03/18 15:17	12/05/18 00:04	62-75-9	
N-Nitroso-di-n-propylamine	<167	ug/kg	365	167	1	12/03/18 15:17	12/05/18 00:04	621-64-7	
N-Nitrosodiphenylamine	<23.7	ug/kg	365	23.7	1	12/03/18 15:17	12/05/18 00:04	86-30-6	
Pentachlorophenol	<213	ug/kg	741	213	1	12/03/18 15:17	12/05/18 00:04	87-86-5	
Phenanthrene	<42.5	ug/kg	365	42.5	1	12/03/18 15:17	12/05/18 00:04	85-01-8	
Phenol	<23.9	ug/kg	365	23.9	1	12/03/18 15:17	12/05/18 00:04	108-95-2	
Pyrene	<27.8	ug/kg	365	27.8	1	12/03/18 15:17	12/05/18 00:04	129-00-0	
1,2,4-Trichlorobenzene	<40.0	ug/kg	365	40.0	1	12/03/18 15:17	12/05/18 00:04	120-82-1	
2,4,5-Trichlorophenol	<47.0	ug/kg	365	47.0	1	12/03/18 15:17	12/05/18 00:04	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (6)**      **Lab ID: 10457121010**      Collected: 11/27/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<56.5	ug/kg	365	56.5	1	12/03/18 15:17	12/05/18 00:04	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	61	%	43-125		1	12/03/18 15:17	12/05/18 00:04	4165-60-0	
2-Fluorobiphenyl (S)	62	%	30-132		1	12/03/18 15:17	12/05/18 00:04	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/03/18 15:17	12/05/18 00:04	1718-51-0	
Phenol-d6 (S)	63	%	48-125		1	12/03/18 15:17	12/05/18 00:04	13127-88-3	
2-Fluorophenol (S)	58	%	40-125		1	12/03/18 15:17	12/05/18 00:04	367-12-4	
2,4,6-Tribromophenol (S)	73	%	60-125		1	12/03/18 15:17	12/05/18 00:04	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.4	0.25	1	03/04/19 09:00	03/04/19 17:55	106-93-4	
Methylene Chloride	<4.0	ug/kg	21.9	4.0	1	03/04/19 09:00	03/04/19 17:55	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 17:55	17060-07-0	3M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 17:55	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/04/19 09:00	03/04/19 17:55	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<18.1	ug/kg	57.8	18.1	1	12/10/18 10:49	12/10/18 18:50	630-20-6	
1,1,1-Trichloroethane	<26.9	ug/kg	57.8	26.9	1	12/10/18 10:49	12/10/18 18:50	71-55-6	
1,1,2,2-Tetrachloroethane	<10.2	ug/kg	57.8	10.2	1	12/10/18 10:49	12/10/18 18:50	79-34-5	
1,1,2-Trichloroethane	<6.9	ug/kg	57.8	6.9	1	12/10/18 10:49	12/10/18 18:50	79-00-5	
1,1,2-Trichlorotrifluoroethane	<67.0	ug/kg	231	67.0	1	12/10/18 10:49	12/10/18 18:50	76-13-1	
1,1-Dichloroethane	<6.5	ug/kg	57.8	6.5	1	12/10/18 10:49	12/10/18 18:50	75-34-3	
1,1-Dichloroethene	<17.3	ug/kg	57.8	17.3	1	12/10/18 10:49	12/10/18 18:50	75-35-4	L2
1,1-Dichloropropene	<26.7	ug/kg	57.8	26.7	1	12/10/18 10:49	12/10/18 18:50	563-58-6	
1,2,3-Trichlorobenzene	<9.2	ug/kg	57.8	9.2	1	12/10/18 10:49	12/10/18 18:50	87-61-6	
1,2,3-Trichloropropane	<15.1	ug/kg	231	15.1	1	12/10/18 10:49	12/10/18 18:50	96-18-4	
1,2,4-Trichlorobenzene	<12.8	ug/kg	57.8	12.8	1	12/10/18 10:49	12/10/18 18:50	120-82-1	
1,2,4-Trimethylbenzene	<11.6	ug/kg	57.8	11.6	1	12/10/18 10:49	12/10/18 18:50	95-63-6	
1,2-Dibromo-3-chloropropane	<201	ug/kg	578	201	1	12/10/18 10:49	12/10/18 18:50	96-12-8	
1,2-Dibromoethane (EDB)	<6.1	ug/kg	57.8	6.1	1	12/10/18 10:49	12/10/18 18:50	106-93-4	
1,2-Dichlorobenzene	<2.3	ug/kg	57.8	2.3	1	12/10/18 10:49	12/10/18 18:50	95-50-1	
1,2-Dichloroethane	<6.4	ug/kg	57.8	6.4	1	12/10/18 10:49	12/10/18 18:50	107-06-2	
1,2-Dichloropropane	<10	ug/kg	57.8	10	1	12/10/18 10:49	12/10/18 18:50	78-87-5	
1,3,5-Trimethylbenzene	<9.2	ug/kg	57.8	9.2	1	12/10/18 10:49	12/10/18 18:50	108-67-8	
1,3-Dichlorobenzene	<2.1	ug/kg	57.8	2.1	1	12/10/18 10:49	12/10/18 18:50	541-73-1	
1,3-Dichloropropane	<8.0	ug/kg	57.8	8.0	1	12/10/18 10:49	12/10/18 18:50	142-28-9	
1,4-Dichlorobenzene	<3.6	ug/kg	57.8	3.6	1	12/10/18 10:49	12/10/18 18:50	106-46-7	
2,2-Dichloropropane	<7.2	ug/kg	231	7.2	1	12/10/18 10:49	12/10/18 18:50	594-20-7	
2-Butanone (MEK)	<30.7	ug/kg	289	30.7	1	12/10/18 10:49	12/10/18 18:50	78-93-3	
2-Chlorotoluene	<2.8	ug/kg	57.8	2.8	1	12/10/18 10:49	12/10/18 18:50	95-49-8	
4-Chlorotoluene	<3.0	ug/kg	57.8	3.0	1	12/10/18 10:49	12/10/18 18:50	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.0	ug/kg	289	12.0	1	12/10/18 10:49	12/10/18 18:50	108-10-1	
Acetone	<359	ug/kg	1160	359	1	12/10/18 10:49	12/10/18 18:50	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-5 (6)**      **Lab ID: 10457121010**      Collected: 11/27/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Allyl chloride	<48.4	ug/kg	231	48.4	1	12/10/18 10:49	12/10/18 18:50	107-05-1	
Benzene	<3.3	ug/kg	23.1	3.3	1	12/10/18 10:49	12/10/18 18:50	71-43-2	
Bromobenzene	<3.5	ug/kg	57.8	3.5	1	12/10/18 10:49	12/10/18 18:50	108-86-1	
Bromochloromethane	<20.0	ug/kg	57.8	20.0	1	12/10/18 10:49	12/10/18 18:50	74-97-5	
Bromodichloromethane	<19.8	ug/kg	57.8	19.8	1	12/10/18 10:49	12/10/18 18:50	75-27-4	
Bromoform	<87.5	ug/kg	231	87.5	1	12/10/18 10:49	12/10/18 18:50	75-25-2	
Bromomethane	<67.6	ug/kg	578	67.6	1	12/10/18 10:49	12/10/18 18:50	74-83-9	
Carbon tetrachloride	<27.6	ug/kg	57.8	27.6	1	12/10/18 10:49	12/10/18 18:50	56-23-5	
Chlorobenzene	<3.3	ug/kg	57.8	3.3	1	12/10/18 10:49	12/10/18 18:50	108-90-7	
Chloroethane	<30.0	ug/kg	578	30.0	1	12/10/18 10:49	12/10/18 18:50	75-00-3	
Chloroform	<28.9	ug/kg	57.8	28.9	1	12/10/18 10:49	12/10/18 18:50	67-66-3	
Chloromethane	<13.9	ug/kg	231	13.9	1	12/10/18 10:49	12/10/18 18:50	74-87-3	
Dibromochloromethane	<6.7	ug/kg	231	6.7	1	12/10/18 10:49	12/10/18 18:50	124-48-1	
Dibromomethane	<10.6	ug/kg	57.8	10.6	1	12/10/18 10:49	12/10/18 18:50	74-95-3	L2
Dichlorodifluoromethane	<18.7	ug/kg	231	18.7	1	12/10/18 10:49	12/10/18 18:50	75-71-8	
Dichlorofluoromethane	<79.8	ug/kg	578	79.8	1	12/10/18 10:49	12/10/18 18:50	75-43-4	N2
Diethyl ether (Ethyl ether)	<35.4	ug/kg	231	35.4	1	12/10/18 10:49	12/10/18 18:50	60-29-7	
Ethylbenzene	<3.1	ug/kg	57.8	3.1	1	12/10/18 10:49	12/10/18 18:50	100-41-4	
Hexachloro-1,3-butadiene	<14.1	ug/kg	289	14.1	1	12/10/18 10:49	12/10/18 18:50	87-68-3	
Isopropylbenzene (Cumene)	<2.6	ug/kg	57.8	2.6	1	12/10/18 10:49	12/10/18 18:50	98-82-8	
Methyl-tert-butyl ether	<6.9	ug/kg	57.8	6.9	1	12/10/18 10:49	12/10/18 18:50	1634-04-4	
Methylene Chloride	<109	ug/kg	231	109	1	12/10/18 10:49	12/10/18 18:50	75-09-2	
Naphthalene	<54.1	ug/kg	231	54.1	1	12/10/18 10:49	12/10/18 18:50	91-20-3	
Styrene	<2.6	ug/kg	57.8	2.6	1	12/10/18 10:49	12/10/18 18:50	100-42-5	
Tetrachloroethene	<20.3	ug/kg	57.8	20.3	1	12/10/18 10:49	12/10/18 18:50	127-18-4	L2
Tetrahydrofuran	<84.0	ug/kg	2310	84.0	1	12/10/18 10:49	12/10/18 18:50	109-99-9	
Toluene	<14.1	ug/kg	57.8	14.1	1	12/10/18 10:49	12/10/18 18:50	108-88-3	
Trichloroethene	<8.9	ug/kg	57.8	8.9	1	12/10/18 10:49	12/10/18 18:50	79-01-6	L2
Trichlorofluoromethane	<101	ug/kg	231	101	1	12/10/18 10:49	12/10/18 18:50	75-69-4	
Vinyl chloride	<11.4	ug/kg	23.1	11.4	1	12/10/18 10:49	12/10/18 18:50	75-01-4	
Xylene (Total)	<13.4	ug/kg	173	13.4	1	12/10/18 10:49	12/10/18 18:50	1330-20-7	
cis-1,2-Dichloroethene	<9.6	ug/kg	57.8	9.6	1	12/10/18 10:49	12/10/18 18:50	156-59-2	
cis-1,3-Dichloropropene	<8.3	ug/kg	57.8	8.3	1	12/10/18 10:49	12/10/18 18:50	10061-01-5	
n-Butylbenzene	<27.5	ug/kg	57.8	27.5	1	12/10/18 10:49	12/10/18 18:50	104-51-8	
n-Propylbenzene	<3.1	ug/kg	57.8	3.1	1	12/10/18 10:49	12/10/18 18:50	103-65-1	
p-Isopropyltoluene	<17.6	ug/kg	57.8	17.6	1	12/10/18 10:49	12/10/18 18:50	99-87-6	
sec-Butylbenzene	<11.1	ug/kg	57.8	11.1	1	12/10/18 10:49	12/10/18 18:50	135-98-8	
tert-Butylbenzene	<11.1	ug/kg	57.8	11.1	1	12/10/18 10:49	12/10/18 18:50	98-06-6	
trans-1,2-Dichloroethene	<27.0	ug/kg	57.8	27.0	1	12/10/18 10:49	12/10/18 18:50	156-60-5	
trans-1,3-Dichloropropene	<8.0	ug/kg	57.8	8.0	1	12/10/18 10:49	12/10/18 18:50	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1	12/10/18 10:49	12/10/18 18:50	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 10:49	12/10/18 18:50	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 18:50	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (2)**      **Lab ID: 10457121011**      Collected: 11/27/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.42	ug/kg	4.2	0.42	2	12/05/18 13:42	12/11/18 07:08	309-00-2	
alpha-BHC	<0.30	ug/kg	4.2	0.30	2	12/05/18 13:42	12/11/18 07:08	319-84-6	
beta-BHC	<0.56	ug/kg	4.2	0.56	2	12/05/18 13:42	12/11/18 07:08	319-85-7	
delta-BHC	<0.34	ug/kg	4.2	0.34	2	12/05/18 13:42	12/11/18 07:08	319-86-8	
gamma-BHC (Lindane)	<0.35	ug/kg	4.2	0.35	2	12/05/18 13:42	12/11/18 07:08	58-89-9	
Chlordane (Technical)	<7.6	ug/kg	41.7	7.6	2	12/05/18 13:42	12/11/18 07:08	57-74-9	
alpha-Chlordane	0.35J	ug/kg	4.2	0.34	2	12/05/18 13:42	12/11/18 07:08	5103-71-9	
gamma-Chlordane	<0.96	ug/kg	4.2	0.96	2	12/05/18 13:42	12/11/18 07:08	5103-74-2	
4,4'-DDD	<0.76	ug/kg	8.3	0.76	2	12/05/18 13:42	12/11/18 07:08	72-54-8	
4,4'-DDE	4.0J	ug/kg	8.3	0.62	2	12/05/18 13:42	12/11/18 07:08	72-55-9	CH
4,4'-DDT	<1.0	ug/kg	8.3	1.0	2	12/05/18 13:42	12/11/18 07:08	50-29-3	
Dieldrin	<0.80	ug/kg	8.3	0.80	2	12/05/18 13:42	12/11/18 07:08	60-57-1	
Endosulfan I	<0.37	ug/kg	4.2	0.37	2	12/05/18 13:42	12/11/18 07:08	959-98-8	
Endosulfan II	<0.84	ug/kg	8.3	0.84	2	12/05/18 13:42	12/11/18 07:08	33213-65-9	
Endosulfan sulfate	2.1J	ug/kg	8.3	0.86	2	12/05/18 13:42	12/11/18 07:08	1031-07-8	
Endrin	<0.74	ug/kg	8.3	0.74	2	12/05/18 13:42	12/11/18 07:08	72-20-8	
Endrin aldehyde	<2.6	ug/kg	8.3	2.6	2	12/05/18 13:42	12/11/18 07:08	7421-93-4	
Endrin ketone	<0.98	ug/kg	8.3	0.98	2	12/05/18 13:42	12/11/18 07:08	53494-70-5	
Heptachlor	<0.45	ug/kg	4.2	0.45	2	12/05/18 13:42	12/11/18 07:08	76-44-8	
Heptachlor epoxide	<0.39	ug/kg	4.2	0.39	2	12/05/18 13:42	12/11/18 07:08	1024-57-3	
Methoxychlor	11.2J	ug/kg	41.7	6.3	2	12/05/18 13:42	12/11/18 07:08	72-43-5	
Toxaphene	<19.7	ug/kg	125	19.7	2	12/05/18 13:42	12/11/18 07:08	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	30-150		2	12/05/18 13:42	12/11/18 07:08	877-09-8	5M, CH, D3
Decachlorobiphenyl (S)	81	%	30-150		2	12/05/18 13:42	12/11/18 07:08	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.5	ug/kg	41.1	11.5	1	12/05/18 09:53	12/10/18 21:15	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.5	ug/kg	41.1	14.5	1	12/05/18 09:53	12/10/18 21:15	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.5	ug/kg	41.1	16.5	1	12/05/18 09:53	12/10/18 21:15	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.0	ug/kg	41.1	14.0	1	12/05/18 09:53	12/10/18 21:15	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.3	ug/kg	41.1	12.3	1	12/05/18 09:53	12/10/18 21:15	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.1	ug/kg	41.1	12.1	1	12/05/18 09:53	12/10/18 21:15	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.8	ug/kg	41.1	9.8	1	12/05/18 09:53	12/10/18 21:15	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	85	%	48-125		1	12/05/18 09:53	12/10/18 21:15	877-09-8	
Decachlorobiphenyl (S)	101	%	30-134		1	12/05/18 09:53	12/10/18 21:15	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	15.8J	mg/kg	18.5	3.0	1	12/04/18 18:01	12/12/18 15:27	68334-30-5	
Motor Oil Range	38.2	mg/kg	12.4	5.4	1	12/04/18 18:01	12/12/18 15:27		
<b>Surrogates</b>									
n-Triacontane (S)	88	%	50-150		1	12/04/18 18:01	12/12/18 15:27	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/04/18 18:01	12/12/18 15:27	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (2)**      **Lab ID: 10457121011**      Collected: 11/27/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.85	mg/kg	6.4	0.85	1	12/10/18 16:17	12/11/18 00:23		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/10/18 16:17	12/11/18 00:23	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.47	mg/kg	1.3	0.47	1	12/06/18 14:27	12/07/18 19:07	7440-36-0	
Arsenic	2.0	mg/kg	1.3	0.26	1	12/06/18 14:27	12/07/18 19:07	7440-38-2	
Beryllium	0.45	mg/kg	0.31	0.017	1	12/06/18 14:27	12/07/18 19:07	7440-41-7	
Cadmium	0.13J	mg/kg	0.19	0.025	1	12/06/18 14:27	12/07/18 19:07	7440-43-9	
Chromium	9.1	mg/kg	0.63	0.11	1	12/06/18 14:27	12/07/18 19:07	7440-47-3	
Copper	15.9	mg/kg	0.63	0.069	1	12/06/18 14:27	12/07/18 19:07	7440-50-8	
Lead	21.4	mg/kg	0.63	0.14	1	12/06/18 14:27	12/07/18 19:07	7439-92-1	
Nickel	7.8	mg/kg	1.3	0.079	1	12/06/18 14:27	12/07/18 19:07	7440-02-0	
Selenium	<0.41	mg/kg	1.3	0.41	1	12/06/18 14:27	12/07/18 19:07	7782-49-2	
Silver	0.065J	mg/kg	0.63	0.045	1	12/06/18 14:27	12/07/18 19:07	7440-22-4	
Thallium	<0.29	mg/kg	1.3	0.29	1	12/06/18 14:27	12/07/18 19:07	7440-28-0	
Zinc	73.0	mg/kg	1.3	0.55	1	12/06/18 14:27	12/07/18 19:07	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.10	mg/kg	0.024	0.0097	1	12/06/18 14:29	12/12/18 15:45	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.1	%	0.10	0.10	1		12/12/18 10:23		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<44.0	ug/kg	413	44.0	1	12/03/18 15:17	12/05/18 00:33	83-32-9	
Acenaphthylene	<52.6	ug/kg	413	52.6	1	12/03/18 15:17	12/05/18 00:33	208-96-8	
Anthracene	59.8J	ug/kg	413	48.4	1	12/03/18 15:17	12/05/18 00:33	120-12-7	
Benzo(a)anthracene	379J	ug/kg	413	42.4	1	12/03/18 15:17	12/05/18 00:33	56-55-3	
Benzo(a)pyrene	412J	ug/kg	413	46.8	1	12/03/18 15:17	12/05/18 00:33	50-32-8	
Benzo(b)fluoranthene	438	ug/kg	413	40.4	1	12/03/18 15:17	12/05/18 00:33	205-99-2	
Benzo(g,h,i)perylene	263J	ug/kg	413	44.1	1	12/03/18 15:17	12/05/18 00:33	191-24-2	
Benzo(k)fluoranthene	188J	ug/kg	413	51.5	1	12/03/18 15:17	12/05/18 00:33	207-08-9	
4-Bromophenylphenyl ether	<49.1	ug/kg	413	49.1	1	12/03/18 15:17	12/05/18 00:33	101-55-3	
Butylbenzylphthalate	<37.8	ug/kg	413	37.8	1	12/03/18 15:17	12/05/18 00:33	85-68-7	
Carbazole	<34.3	ug/kg	413	34.3	1	12/03/18 15:17	12/05/18 00:33	86-74-8	
4-Chloro-3-methylphenol	<66.0	ug/kg	413	66.0	1	12/03/18 15:17	12/05/18 00:33	59-50-7	
4-Chloroaniline	<110	ug/kg	413	110	1	12/03/18 15:17	12/05/18 00:33	106-47-8	
bis(2-Chloroethoxy)methane	<42.3	ug/kg	413	42.3	1	12/03/18 15:17	12/05/18 00:33	111-91-1	
bis(2-Chloroethyl) ether	<32.6	ug/kg	413	32.6	1	12/03/18 15:17	12/05/18 00:33	111-44-4	
bis(2-Chloroisopropyl) ether	<42.5	ug/kg	413	42.5	1	12/03/18 15:17	12/05/18 00:33	108-60-1	
2-Chloronaphthalene	<36.5	ug/kg	413	36.5	1	12/03/18 15:17	12/05/18 00:33	91-58-7	
2-Chlorophenol	<47.0	ug/kg	413	47.0	1	12/03/18 15:17	12/05/18 00:33	95-57-8	
4-Chlorophenylphenyl ether	<51.1	ug/kg	413	51.1	1	12/03/18 15:17	12/05/18 00:33	7005-72-3	
Chrysene	412J	ug/kg	413	43.5	1	12/03/18 15:17	12/05/18 00:33	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (2)**      **Lab ID: 10457121011**      Collected: 11/27/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<43.9	ug/kg	413	43.9	1	12/03/18 15:17	12/05/18 00:33	53-70-3	
Dibenzofuran	<52.3	ug/kg	413	52.3	1	12/03/18 15:17	12/05/18 00:33	132-64-9	
1,2-Dichlorobenzene	<43.3	ug/kg	413	43.3	1	12/03/18 15:17	12/05/18 00:33	95-50-1	
1,3-Dichlorobenzene	<28.3	ug/kg	413	28.3	1	12/03/18 15:17	12/05/18 00:33	541-73-1	
1,4-Dichlorobenzene	<45.9	ug/kg	413	45.9	1	12/03/18 15:17	12/05/18 00:33	106-46-7	
3,3'-Dichlorobenzidine	<139	ug/kg	413	139	1	12/03/18 15:17	12/05/18 00:33	91-94-1	
2,4-Dichlorophenol	<68.9	ug/kg	413	68.9	1	12/03/18 15:17	12/05/18 00:33	120-83-2	
Diethylphthalate	<36.8	ug/kg	413	36.8	1	12/03/18 15:17	12/05/18 00:33	84-66-2	
2,4-Dimethylphenol	<161	ug/kg	413	161	1	12/03/18 15:17	12/05/18 00:33	105-67-9	
Dimethylphthalate	<56.0	ug/kg	413	56.0	1	12/03/18 15:17	12/05/18 00:33	131-11-3	
Di-n-butylphthalate	<56.5	ug/kg	413	56.5	1	12/03/18 15:17	12/05/18 00:33	84-74-2	
4,6-Dinitro-2-methylphenol	<409	ug/kg	2130	409	1	12/03/18 15:17	12/05/18 00:33	534-52-1	
2,4-Dinitrophenol	<193	ug/kg	413	193	1	12/03/18 15:17	12/05/18 00:33	51-28-5	
2,4-Dinitrotoluene	<52.5	ug/kg	413	52.5	1	12/03/18 15:17	12/05/18 00:33	121-14-2	
2,6-Dinitrotoluene	<54.6	ug/kg	413	54.6	1	12/03/18 15:17	12/05/18 00:33	606-20-2	
Di-n-octylphthalate	<47.9	ug/kg	413	47.9	1	12/03/18 15:17	12/05/18 00:33	117-84-0	
1,2-Diphenylhydrazine	<50.6	ug/kg	413	50.6	1	12/03/18 15:17	12/05/18 00:33	122-66-7	
bis(2-Ethylhexyl)phthalate	<86.0	ug/kg	413	86.0	1	12/03/18 15:17	12/05/18 00:33	117-81-7	
Fluoranthene	632	ug/kg	413	47.4	1	12/03/18 15:17	12/05/18 00:33	206-44-0	
Fluorene	<189	ug/kg	413	189	1	12/03/18 15:17	12/05/18 00:33	86-73-7	
Hexachloro-1,3-butadiene	<62.8	ug/kg	413	62.8	1	12/03/18 15:17	12/05/18 00:33	87-68-3	
Hexachlorobenzene	<67.3	ug/kg	413	67.3	1	12/03/18 15:17	12/05/18 00:33	118-74-1	
Hexachloroethane	<53.6	ug/kg	413	53.6	1	12/03/18 15:17	12/05/18 00:33	67-72-1	
Indeno(1,2,3-cd)pyrene	230J	ug/kg	413	24.9	1	12/03/18 15:17	12/05/18 00:33	193-39-5	
Isophorone	<31.8	ug/kg	413	31.8	1	12/03/18 15:17	12/05/18 00:33	78-59-1	
1-Methylnaphthalene	<38.1	ug/kg	413	38.1	1	12/03/18 15:17	12/05/18 00:33	90-12-0	
2-Methylnaphthalene	<37.3	ug/kg	413	37.3	1	12/03/18 15:17	12/05/18 00:33	91-57-6	
2-Methylphenol(o-Cresol)	<25.8	ug/kg	413	25.8	1	12/03/18 15:17	12/05/18 00:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.3	ug/kg	825	23.3	1	12/03/18 15:17	12/05/18 00:33		
Naphthalene	<31.8	ug/kg	413	31.8	1	12/03/18 15:17	12/05/18 00:33	91-20-3	
2-Nitroaniline	<104	ug/kg	413	104	1	12/03/18 15:17	12/05/18 00:33	88-74-4	
3-Nitroaniline	<45.0	ug/kg	413	45.0	1	12/03/18 15:17	12/05/18 00:33	99-09-2	
4-Nitroaniline	<60.3	ug/kg	413	60.3	1	12/03/18 15:17	12/05/18 00:33	100-01-6	
Nitrobenzene	<45.4	ug/kg	413	45.4	1	12/03/18 15:17	12/05/18 00:33	98-95-3	
2-Nitrophenol	<50.3	ug/kg	413	50.3	1	12/03/18 15:17	12/05/18 00:33	88-75-5	
4-Nitrophenol	<80.0	ug/kg	413	80.0	1	12/03/18 15:17	12/05/18 00:33	100-02-7	
N-Nitrosodimethylamine	<50.6	ug/kg	413	50.6	1	12/03/18 15:17	12/05/18 00:33	62-75-9	
N-Nitroso-di-n-propylamine	<189	ug/kg	413	189	1	12/03/18 15:17	12/05/18 00:33	621-64-7	
N-Nitrosodiphenylamine	<26.8	ug/kg	413	26.8	1	12/03/18 15:17	12/05/18 00:33	86-30-6	
Pentachlorophenol	<241	ug/kg	838	241	1	12/03/18 15:17	12/05/18 00:33	87-86-5	
Phenanthrene	119J	ug/kg	413	48.0	1	12/03/18 15:17	12/05/18 00:33	85-01-8	
Phenol	<27.0	ug/kg	413	27.0	1	12/03/18 15:17	12/05/18 00:33	108-95-2	
Pyrene	684	ug/kg	413	31.4	1	12/03/18 15:17	12/05/18 00:33	129-00-0	
1,2,4-Trichlorobenzene	<45.3	ug/kg	413	45.3	1	12/03/18 15:17	12/05/18 00:33	120-82-1	
2,4,5-Trichlorophenol	<53.1	ug/kg	413	53.1	1	12/03/18 15:17	12/05/18 00:33	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (2)**      **Lab ID: 10457121011**      Collected: 11/27/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<63.9	ug/kg	413	63.9	1	12/03/18 15:17	12/05/18 00:33	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	43-125		1	12/03/18 15:17	12/05/18 00:33	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-132		1	12/03/18 15:17	12/05/18 00:33	321-60-8	
p-Terphenyl-d14 (S)	75	%	62-125		1	12/03/18 15:17	12/05/18 00:33	1718-51-0	
Phenol-d6 (S)	57	%	48-125		1	12/03/18 15:17	12/05/18 00:33	13127-88-3	
2-Fluorophenol (S)	52	%	40-125		1	12/03/18 15:17	12/05/18 00:33	367-12-4	
2,4,6-Tribromophenol (S)	65	%	60-125		1	12/03/18 15:17	12/05/18 00:33	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/04/19 09:00	03/04/19 18:14	106-93-4	
Methylene Chloride	<4.4	ug/kg	23.9	4.4	1	03/04/19 09:00	03/04/19 18:14	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	124	%	75-125		1	03/04/19 09:00	03/04/19 18:14	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 18:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 18:14	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<387	ug/kg	1240	387	1	12/10/18 10:49	12/10/18 13:37	67-64-1	
Allyl chloride	<52.2	ug/kg	249	52.2	1	12/10/18 10:49	12/10/18 13:37	107-05-1	
Benzene	8.0J	ug/kg	24.9	3.5	1	12/10/18 10:49	12/10/18 13:37	71-43-2	
Bromobenzene	<3.8	ug/kg	62.2	3.8	1	12/10/18 10:49	12/10/18 13:37	108-86-1	
Bromochloromethane	<21.5	ug/kg	62.2	21.5	1	12/10/18 10:49	12/10/18 13:37	74-97-5	
Bromodichloromethane	<21.3	ug/kg	62.2	21.3	1	12/10/18 10:49	12/10/18 13:37	75-27-4	
Bromoform	<94.2	ug/kg	249	94.2	1	12/10/18 10:49	12/10/18 13:37	75-25-2	
Bromomethane	<72.8	ug/kg	622	72.8	1	12/10/18 10:49	12/10/18 13:37	74-83-9	
2-Butanone (MEK)	<33.1	ug/kg	311	33.1	1	12/10/18 10:49	12/10/18 13:37	78-93-3	
n-Butylbenzene	<29.6	ug/kg	62.2	29.6	1	12/10/18 10:49	12/10/18 13:37	104-51-8	
sec-Butylbenzene	<11.9	ug/kg	62.2	11.9	1	12/10/18 10:49	12/10/18 13:37	135-98-8	
tert-Butylbenzene	<11.9	ug/kg	62.2	11.9	1	12/10/18 10:49	12/10/18 13:37	98-06-6	
Carbon tetrachloride	<29.7	ug/kg	62.2	29.7	1	12/10/18 10:49	12/10/18 13:37	56-23-5	
Chlorobenzene	<3.5	ug/kg	62.2	3.5	1	12/10/18 10:49	12/10/18 13:37	108-90-7	
Chloroethane	<32.4	ug/kg	622	32.4	1	12/10/18 10:49	12/10/18 13:37	75-00-3	
Chloroform	<31.1	ug/kg	62.2	31.1	1	12/10/18 10:49	12/10/18 13:37	67-66-3	
Chloromethane	<14.9	ug/kg	249	14.9	1	12/10/18 10:49	12/10/18 13:37	74-87-3	
2-Chlorotoluene	<3.1	ug/kg	62.2	3.1	1	12/10/18 10:49	12/10/18 13:37	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	62.2	3.2	1	12/10/18 10:49	12/10/18 13:37	106-43-4	
1,2-Dibromo-3-chloropropane	<217	ug/kg	622	217	1	12/10/18 10:49	12/10/18 13:37	96-12-8	
Dibromochloromethane	<7.2	ug/kg	249	7.2	1	12/10/18 10:49	12/10/18 13:37	124-48-1	
1,2-Dibromoethane (EDB)	<6.5	ug/kg	62.2	6.5	1	12/10/18 10:49	12/10/18 13:37	106-93-4	
Dibromomethane	<11.4	ug/kg	62.2	11.4	1	12/10/18 10:49	12/10/18 13:37	74-95-3	L2
1,2-Dichlorobenzene	<2.5	ug/kg	62.2	2.5	1	12/10/18 10:49	12/10/18 13:37	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/kg	62.2	2.3	1	12/10/18 10:49	12/10/18 13:37	541-73-1	
1,4-Dichlorobenzene	<3.9	ug/kg	62.2	3.9	1	12/10/18 10:49	12/10/18 13:37	106-46-7	
Dichlorodifluoromethane	<20.2	ug/kg	249	20.2	1	12/10/18 10:49	12/10/18 13:37	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample:** TP-6 (2)      **Lab ID:** 10457121011      **Collected:** 11/27/18 11:00      **Received:** 11/30/18 09:55      **Matrix:** Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<7.0	ug/kg	62.2	7.0	1	12/10/18 10:49	12/10/18 13:37	75-34-3	
1,2-Dichloroethane	9.3J	ug/kg	62.2	6.8	1	12/10/18 10:49	12/10/18 13:37	107-06-2	
1,1-Dichloroethene	<18.7	ug/kg	62.2	18.7	1	12/10/18 10:49	12/10/18 13:37	75-35-4	L2
cis-1,2-Dichloroethene	<10.3	ug/kg	62.2	10.3	1	12/10/18 10:49	12/10/18 13:37	156-59-2	
trans-1,2-Dichloroethene	<29.1	ug/kg	62.2	29.1	1	12/10/18 10:49	12/10/18 13:37	156-60-5	
Dichlorofluoromethane	<86.0	ug/kg	622	86.0	1	12/10/18 10:49	12/10/18 13:37	75-43-4	N2
1,2-Dichloropropane	<10.7	ug/kg	62.2	10.7	1	12/10/18 10:49	12/10/18 13:37	78-87-5	
1,3-Dichloropropane	<8.6	ug/kg	62.2	8.6	1	12/10/18 10:49	12/10/18 13:37	142-28-9	
2,2-Dichloropropane	<7.8	ug/kg	249	7.8	1	12/10/18 10:49	12/10/18 13:37	594-20-7	
1,1-Dichloropropene	<28.8	ug/kg	62.2	28.8	1	12/10/18 10:49	12/10/18 13:37	563-58-6	
cis-1,3-Dichloropropene	<8.9	ug/kg	62.2	8.9	1	12/10/18 10:49	12/10/18 13:37	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/kg	62.2	8.7	1	12/10/18 10:49	12/10/18 13:37	10061-02-6	
Diethyl ether (Ethyl ether)	<38.1	ug/kg	249	38.1	1	12/10/18 10:49	12/10/18 13:37	60-29-7	
Ethylbenzene	<3.4	ug/kg	62.2	3.4	1	12/10/18 10:49	12/10/18 13:37	100-41-4	
Hexachloro-1,3-butadiene	<15.2	ug/kg	311	15.2	1	12/10/18 10:49	12/10/18 13:37	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	62.2	2.8	1	12/10/18 10:49	12/10/18 13:37	98-82-8	
p-Isopropyltoluene	<18.9	ug/kg	62.2	18.9	1	12/10/18 10:49	12/10/18 13:37	99-87-6	
Methylene Chloride	<117	ug/kg	249	117	1	12/10/18 10:49	12/10/18 13:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.9	ug/kg	311	12.9	1	12/10/18 10:49	12/10/18 13:37	108-10-1	
Methyl-tert-butyl ether	<7.4	ug/kg	62.2	7.4	1	12/10/18 10:49	12/10/18 13:37	1634-04-4	
Naphthalene	<58.3	ug/kg	249	58.3	1	12/10/18 10:49	12/10/18 13:37	91-20-3	
n-Propylbenzene	<3.3	ug/kg	62.2	3.3	1	12/10/18 10:49	12/10/18 13:37	103-65-1	
Styrene	<2.8	ug/kg	62.2	2.8	1	12/10/18 10:49	12/10/18 13:37	100-42-5	
1,1,1,2-Tetrachloroethane	<19.5	ug/kg	62.2	19.5	1	12/10/18 10:49	12/10/18 13:37	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.0	ug/kg	62.2	11.0	1	12/10/18 10:49	12/10/18 13:37	79-34-5	
Tetrachloroethene	<21.9	ug/kg	62.2	21.9	1	12/10/18 10:49	12/10/18 13:37	127-18-4	L2
Tetrahydrofuran	<90.5	ug/kg	2490	90.5	1	12/10/18 10:49	12/10/18 13:37	109-99-9	
Toluene	<15.2	ug/kg	62.2	15.2	1	12/10/18 10:49	12/10/18 13:37	108-88-3	
1,2,3-Trichlorobenzene	<9.9	ug/kg	62.2	9.9	1	12/10/18 10:49	12/10/18 13:37	87-61-6	
1,2,4-Trichlorobenzene	<13.8	ug/kg	62.2	13.8	1	12/10/18 10:49	12/10/18 13:37	120-82-1	
1,1,1-Trichloroethane	<29.0	ug/kg	62.2	29.0	1	12/10/18 10:49	12/10/18 13:37	71-55-6	
1,1,2-Trichloroethane	<7.4	ug/kg	62.2	7.4	1	12/10/18 10:49	12/10/18 13:37	79-00-5	
Trichloroethene	<9.6	ug/kg	62.2	9.6	1	12/10/18 10:49	12/10/18 13:37	79-01-6	L2
Trichlorofluoromethane	<109	ug/kg	249	109	1	12/10/18 10:49	12/10/18 13:37	75-69-4	
1,2,3-Trichloropropane	<16.3	ug/kg	249	16.3	1	12/10/18 10:49	12/10/18 13:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	<72.2	ug/kg	249	72.2	1	12/10/18 10:49	12/10/18 13:37	76-13-1	
1,2,4-Trimethylbenzene	<12.4	ug/kg	62.2	12.4	1	12/10/18 10:49	12/10/18 13:37	95-63-6	
1,3,5-Trimethylbenzene	<9.9	ug/kg	62.2	9.9	1	12/10/18 10:49	12/10/18 13:37	108-67-8	
Vinyl chloride	<12.2	ug/kg	24.9	12.2	1	12/10/18 10:49	12/10/18 13:37	75-01-4	
Xylene (Total)	<14.4	ug/kg	187	14.4	1	12/10/18 10:49	12/10/18 13:37	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	89	%	75-125		1	12/10/18 10:49	12/10/18 13:37	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 10:49	12/10/18 13:37	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/10/18 10:49	12/10/18 13:37	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (5)**      **Lab ID: 10457121012**      Collected: 11/27/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.19	ug/kg	1.9	0.19	1	12/05/18 13:42	12/11/18 08:21	309-00-2	
alpha-BHC	<0.14	ug/kg	1.9	0.14	1	12/05/18 13:42	12/11/18 08:21	319-84-6	
beta-BHC	<0.25	ug/kg	1.9	0.25	1	12/05/18 13:42	12/11/18 08:21	319-85-7	
delta-BHC	<0.16	ug/kg	1.9	0.16	1	12/05/18 13:42	12/11/18 08:21	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.9	0.16	1	12/05/18 13:42	12/11/18 08:21	58-89-9	
Chlordane (Technical)	<3.4	ug/kg	18.9	3.4	1	12/05/18 13:42	12/11/18 08:21	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.9	0.15	1	12/05/18 13:42	12/11/18 08:21	5103-71-9	
gamma-Chlordane	<0.43	ug/kg	1.9	0.43	1	12/05/18 13:42	12/11/18 08:21	5103-74-2	
4,4'-DDD	<0.34	ug/kg	3.8	0.34	1	12/05/18 13:42	12/11/18 08:21	72-54-8	
4,4'-DDE	0.86J	ug/kg	3.8	0.28	1	12/05/18 13:42	12/11/18 08:21	72-55-9	CH
4,4'-DDT	0.89J	ug/kg	3.8	0.47	1	12/05/18 13:42	12/11/18 08:21	50-29-3	
Dieldrin	<0.36	ug/kg	3.8	0.36	1	12/05/18 13:42	12/11/18 08:21	60-57-1	
Endosulfan I	<0.17	ug/kg	1.9	0.17	1	12/05/18 13:42	12/11/18 08:21	959-98-8	
Endosulfan II	<0.38	ug/kg	3.8	0.38	1	12/05/18 13:42	12/11/18 08:21	33213-65-9	
Endosulfan sulfate	<0.39	ug/kg	3.8	0.39	1	12/05/18 13:42	12/11/18 08:21	1031-07-8	
Endrin	<0.34	ug/kg	3.8	0.34	1	12/05/18 13:42	12/11/18 08:21	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.8	1.2	1	12/05/18 13:42	12/11/18 08:21	7421-93-4	
Endrin ketone	<0.45	ug/kg	3.8	0.45	1	12/05/18 13:42	12/11/18 08:21	53494-70-5	
Heptachlor	<0.20	ug/kg	1.9	0.20	1	12/05/18 13:42	12/11/18 08:21	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	1.9	0.18	1	12/05/18 13:42	12/11/18 08:21	1024-57-3	
Methoxychlor	<2.8	ug/kg	18.9	2.8	1	12/05/18 13:42	12/11/18 08:21	72-43-5	
Toxaphene	<8.9	ug/kg	56.6	8.9	1	12/05/18 13:42	12/11/18 08:21	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	97	%	30-150		1	12/05/18 13:42	12/11/18 08:21	877-09-8	CH
Decachlorobiphenyl (S)	81	%	30-150		1	12/05/18 13:42	12/11/18 08:21	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.4	ug/kg	37.5	10.4	1	12/05/18 09:53	12/10/18 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.2	ug/kg	37.5	13.2	1	12/05/18 09:53	12/10/18 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.0	ug/kg	37.5	15.0	1	12/05/18 09:53	12/10/18 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.7	ug/kg	37.5	12.7	1	12/05/18 09:53	12/10/18 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.2	ug/kg	37.5	11.2	1	12/05/18 09:53	12/10/18 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.0	ug/kg	37.5	11.0	1	12/05/18 09:53	12/10/18 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.0	ug/kg	37.5	9.0	1	12/05/18 09:53	12/10/18 21:30	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	95	%	48-125		1	12/05/18 09:53	12/10/18 21:30	877-09-8	
Decachlorobiphenyl (S)	113	%	30-134		1	12/05/18 09:53	12/10/18 21:30	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	2.9J	mg/kg	16.9	2.7	1	12/04/18 18:01	12/12/18 15:39	68334-30-5	
Motor Oil Range	10.8J	mg/kg	11.3	4.9	1	12/04/18 18:01	12/12/18 15:39		
<b>Surrogates</b>									
n-Triacontane (S)	104	%	50-150		1	12/04/18 18:01	12/12/18 15:39	638-68-6	
o-Terphenyl (S)	97	%	50-150		1	12/04/18 18:01	12/12/18 15:39	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (5)**      **Lab ID: 10457121012**      Collected: 11/27/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>2.0J</b>	mg/kg	5.7	0.74	1	12/10/18 16:17	12/11/18 00:40		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/10/18 16:17	12/11/18 00:40	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.39</b>	mg/kg	1.0	0.39	1	12/06/18 14:27	12/07/18 19:10	7440-36-0	
Arsenic	<b>1.2</b>	mg/kg	1.0	0.21	1	12/06/18 14:27	12/07/18 19:10	7440-38-2	
Beryllium	<b>0.30</b>	mg/kg	0.26	0.014	1	12/06/18 14:27	12/07/18 19:10	7440-41-7	
Cadmium	<b>0.068J</b>	mg/kg	0.16	0.021	1	12/06/18 14:27	12/07/18 19:10	7440-43-9	
Chromium	<b>3.5</b>	mg/kg	0.52	0.089	1	12/06/18 14:27	12/07/18 19:10	7440-47-3	
Copper	<b>18.0</b>	mg/kg	0.52	0.057	1	12/06/18 14:27	12/07/18 19:10	7440-50-8	
Lead	<b>9.6</b>	mg/kg	0.52	0.12	1	12/06/18 14:27	12/07/18 19:10	7439-92-1	
Nickel	<b>3.0</b>	mg/kg	1.0	0.065	1	12/06/18 14:27	12/07/18 19:10	7440-02-0	
Selenium	<b>&lt;0.34</b>	mg/kg	1.0	0.34	1	12/06/18 14:27	12/07/18 19:10	7782-49-2	
Silver	<b>&lt;0.038</b>	mg/kg	0.52	0.038	1	12/06/18 14:27	12/07/18 19:10	7440-22-4	
Thallium	<b>&lt;0.24</b>	mg/kg	1.0	0.24	1	12/06/18 14:27	12/07/18 19:10	7440-28-0	
Zinc	<b>53.6</b>	mg/kg	1.0	0.45	1	12/06/18 14:27	12/07/18 19:10	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.084</b>	mg/kg	0.023	0.0091	1	12/06/18 14:29	12/12/18 15:47	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>12.1</b>	%	0.10	0.10	1		12/12/18 10:23		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;39.9</b>	ug/kg	374	39.9	1	12/03/18 15:17	12/05/18 01:03	83-32-9	
Acenaphthylene	<b>&lt;47.7</b>	ug/kg	374	47.7	1	12/03/18 15:17	12/05/18 01:03	208-96-8	
Anthracene	<b>&lt;43.9</b>	ug/kg	374	43.9	1	12/03/18 15:17	12/05/18 01:03	120-12-7	
Benzo(a)anthracene	<b>&lt;38.4</b>	ug/kg	374	38.4	1	12/03/18 15:17	12/05/18 01:03	56-55-3	
Benzo(a)pyrene	<b>&lt;42.4</b>	ug/kg	374	42.4	1	12/03/18 15:17	12/05/18 01:03	50-32-8	
Benzo(b)fluoranthene	<b>&lt;36.6</b>	ug/kg	374	36.6	1	12/03/18 15:17	12/05/18 01:03	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;40.0</b>	ug/kg	374	40.0	1	12/03/18 15:17	12/05/18 01:03	191-24-2	
Benzo(k)fluoranthene	<b>&lt;46.7</b>	ug/kg	374	46.7	1	12/03/18 15:17	12/05/18 01:03	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;44.5</b>	ug/kg	374	44.5	1	12/03/18 15:17	12/05/18 01:03	101-55-3	
Butylbenzylphthalate	<b>&lt;34.2</b>	ug/kg	374	34.2	1	12/03/18 15:17	12/05/18 01:03	85-68-7	
Carbazole	<b>&lt;31.1</b>	ug/kg	374	31.1	1	12/03/18 15:17	12/05/18 01:03	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;59.8</b>	ug/kg	374	59.8	1	12/03/18 15:17	12/05/18 01:03	59-50-7	
4-Chloroaniline	<b>&lt;99.6</b>	ug/kg	374	99.6	1	12/03/18 15:17	12/05/18 01:03	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;38.3</b>	ug/kg	374	38.3	1	12/03/18 15:17	12/05/18 01:03	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;29.6</b>	ug/kg	374	29.6	1	12/03/18 15:17	12/05/18 01:03	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;38.5</b>	ug/kg	374	38.5	1	12/03/18 15:17	12/05/18 01:03	108-60-1	
2-Chloronaphthalene	<b>&lt;33.1</b>	ug/kg	374	33.1	1	12/03/18 15:17	12/05/18 01:03	91-58-7	
2-Chlorophenol	<b>&lt;42.6</b>	ug/kg	374	42.6	1	12/03/18 15:17	12/05/18 01:03	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;46.4</b>	ug/kg	374	46.4	1	12/03/18 15:17	12/05/18 01:03	7005-72-3	
Chrysene	<b>&lt;39.4</b>	ug/kg	374	39.4	1	12/03/18 15:17	12/05/18 01:03	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (5)**      **Lab ID: 10457121012**      Collected: 11/27/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<39.8	ug/kg	374	39.8	1	12/03/18 15:17	12/05/18 01:03	53-70-3	
Dibenzofuran	<47.4	ug/kg	374	47.4	1	12/03/18 15:17	12/05/18 01:03	132-64-9	
1,2-Dichlorobenzene	<39.2	ug/kg	374	39.2	1	12/03/18 15:17	12/05/18 01:03	95-50-1	
1,3-Dichlorobenzene	<25.6	ug/kg	374	25.6	1	12/03/18 15:17	12/05/18 01:03	541-73-1	
1,4-Dichlorobenzene	<41.6	ug/kg	374	41.6	1	12/03/18 15:17	12/05/18 01:03	106-46-7	
3,3'-Dichlorobenzidine	<126	ug/kg	374	126	1	12/03/18 15:17	12/05/18 01:03	91-94-1	
2,4-Dichlorophenol	<62.4	ug/kg	374	62.4	1	12/03/18 15:17	12/05/18 01:03	120-83-2	
Diethylphthalate	<33.3	ug/kg	374	33.3	1	12/03/18 15:17	12/05/18 01:03	84-66-2	
2,4-Dimethylphenol	<146	ug/kg	374	146	1	12/03/18 15:17	12/05/18 01:03	105-67-9	
Dimethylphthalate	<50.8	ug/kg	374	50.8	1	12/03/18 15:17	12/05/18 01:03	131-11-3	
Di-n-butylphthalate	<51.2	ug/kg	374	51.2	1	12/03/18 15:17	12/05/18 01:03	84-74-2	
4,6-Dinitro-2-methylphenol	<371	ug/kg	1930	371	1	12/03/18 15:17	12/05/18 01:03	534-52-1	
2,4-Dinitrophenol	<175	ug/kg	374	175	1	12/03/18 15:17	12/05/18 01:03	51-28-5	
2,4-Dinitrotoluene	<47.6	ug/kg	374	47.6	1	12/03/18 15:17	12/05/18 01:03	121-14-2	
2,6-Dinitrotoluene	<49.5	ug/kg	374	49.5	1	12/03/18 15:17	12/05/18 01:03	606-20-2	
Di-n-octylphthalate	<43.4	ug/kg	374	43.4	1	12/03/18 15:17	12/05/18 01:03	117-84-0	
1,2-Diphenylhydrazine	<45.9	ug/kg	374	45.9	1	12/03/18 15:17	12/05/18 01:03	122-66-7	
bis(2-Ethylhexyl)phthalate	<78.0	ug/kg	374	78.0	1	12/03/18 15:17	12/05/18 01:03	117-81-7	
Fluoranthene	<43.0	ug/kg	374	43.0	1	12/03/18 15:17	12/05/18 01:03	206-44-0	
Fluorene	<171	ug/kg	374	171	1	12/03/18 15:17	12/05/18 01:03	86-73-7	
Hexachloro-1,3-butadiene	<56.9	ug/kg	374	56.9	1	12/03/18 15:17	12/05/18 01:03	87-68-3	
Hexachlorobenzene	<61.0	ug/kg	374	61.0	1	12/03/18 15:17	12/05/18 01:03	118-74-1	
Hexachloroethane	<48.6	ug/kg	374	48.6	1	12/03/18 15:17	12/05/18 01:03	67-72-1	
Indeno(1,2,3-cd)pyrene	<22.6	ug/kg	374	22.6	1	12/03/18 15:17	12/05/18 01:03	193-39-5	
Isophorone	<28.8	ug/kg	374	28.8	1	12/03/18 15:17	12/05/18 01:03	78-59-1	
1-Methylnaphthalene	<34.6	ug/kg	374	34.6	1	12/03/18 15:17	12/05/18 01:03	90-12-0	
2-Methylnaphthalene	<33.8	ug/kg	374	33.8	1	12/03/18 15:17	12/05/18 01:03	91-57-6	
2-Methylphenol(o-Cresol)	<23.3	ug/kg	374	23.3	1	12/03/18 15:17	12/05/18 01:03	95-48-7	
3&4-Methylphenol(m&p Cresol)	<21.1	ug/kg	748	21.1	1	12/03/18 15:17	12/05/18 01:03		
Naphthalene	<28.8	ug/kg	374	28.8	1	12/03/18 15:17	12/05/18 01:03	91-20-3	
2-Nitroaniline	<93.8	ug/kg	374	93.8	1	12/03/18 15:17	12/05/18 01:03	88-74-4	
3-Nitroaniline	<40.8	ug/kg	374	40.8	1	12/03/18 15:17	12/05/18 01:03	99-09-2	
4-Nitroaniline	<54.6	ug/kg	374	54.6	1	12/03/18 15:17	12/05/18 01:03	100-01-6	
Nitrobenzene	<41.1	ug/kg	374	41.1	1	12/03/18 15:17	12/05/18 01:03	98-95-3	
2-Nitrophenol	<45.6	ug/kg	374	45.6	1	12/03/18 15:17	12/05/18 01:03	88-75-5	
4-Nitrophenol	<72.5	ug/kg	374	72.5	1	12/03/18 15:17	12/05/18 01:03	100-02-7	
N-Nitrosodimethylamine	<45.9	ug/kg	374	45.9	1	12/03/18 15:17	12/05/18 01:03	62-75-9	
N-Nitroso-di-n-propylamine	<171	ug/kg	374	171	1	12/03/18 15:17	12/05/18 01:03	621-64-7	
N-Nitrosodiphenylamine	<24.3	ug/kg	374	24.3	1	12/03/18 15:17	12/05/18 01:03	86-30-6	
Pentachlorophenol	<219	ug/kg	759	219	1	12/03/18 15:17	12/05/18 01:03	87-86-5	
Phenanthrene	<43.5	ug/kg	374	43.5	1	12/03/18 15:17	12/05/18 01:03	85-01-8	
Phenol	<24.5	ug/kg	374	24.5	1	12/03/18 15:17	12/05/18 01:03	108-95-2	
Pyrene	40.7J	ug/kg	374	28.4	1	12/03/18 15:17	12/05/18 01:03	129-00-0	
1,2,4-Trichlorobenzene	<41.0	ug/kg	374	41.0	1	12/03/18 15:17	12/05/18 01:03	120-82-1	
2,4,5-Trichlorophenol	<48.2	ug/kg	374	48.2	1	12/03/18 15:17	12/05/18 01:03	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (5)**      **Lab ID: 10457121012**      Collected: 11/27/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<57.9	ug/kg	374	57.9	1	12/03/18 15:17	12/05/18 01:03	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	71	%	43-125		1	12/03/18 15:17	12/05/18 01:03	4165-60-0	
2-Fluorobiphenyl (S)	73	%	30-132		1	12/03/18 15:17	12/05/18 01:03	321-60-8	
p-Terphenyl-d14 (S)	82	%	62-125		1	12/03/18 15:17	12/05/18 01:03	1718-51-0	
Phenol-d6 (S)	70	%	48-125		1	12/03/18 15:17	12/05/18 01:03	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/03/18 15:17	12/05/18 01:03	367-12-4	
2,4,6-Tribromophenol (S)	81	%	60-125		1	12/03/18 15:17	12/05/18 01:03	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.4	0.25	1	03/04/19 09:00	03/04/19 18:33	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.2	4.1	1	03/04/19 09:00	03/04/19 18:33	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 18:33	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 18:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 18:33	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<354	ug/kg	1140	354	1	12/10/18 10:49	12/10/18 19:07	67-64-1	
Allyl chloride	<47.7	ug/kg	228	47.7	1	12/10/18 10:49	12/10/18 19:07	107-05-1	
Benzene	<3.2	ug/kg	22.8	3.2	1	12/10/18 10:49	12/10/18 19:07	71-43-2	
Bromobenzene	<3.5	ug/kg	57.0	3.5	1	12/10/18 10:49	12/10/18 19:07	108-86-1	
Bromochloromethane	<19.7	ug/kg	57.0	19.7	1	12/10/18 10:49	12/10/18 19:07	74-97-5	
Bromodichloromethane	<19.5	ug/kg	57.0	19.5	1	12/10/18 10:49	12/10/18 19:07	75-27-4	
Bromoform	<86.2	ug/kg	228	86.2	1	12/10/18 10:49	12/10/18 19:07	75-25-2	
Bromomethane	<66.6	ug/kg	570	66.6	1	12/10/18 10:49	12/10/18 19:07	74-83-9	
2-Butanone (MEK)	<30.3	ug/kg	285	30.3	1	12/10/18 10:49	12/10/18 19:07	78-93-3	
n-Butylbenzene	<27.1	ug/kg	57.0	27.1	1	12/10/18 10:49	12/10/18 19:07	104-51-8	
sec-Butylbenzene	<10.9	ug/kg	57.0	10.9	1	12/10/18 10:49	12/10/18 19:07	135-98-8	
tert-Butylbenzene	<10.9	ug/kg	57.0	10.9	1	12/10/18 10:49	12/10/18 19:07	98-06-6	
Carbon tetrachloride	<27.2	ug/kg	57.0	27.2	1	12/10/18 10:49	12/10/18 19:07	56-23-5	
Chlorobenzene	<3.2	ug/kg	57.0	3.2	1	12/10/18 10:49	12/10/18 19:07	108-90-7	
Chloroethane	<29.6	ug/kg	570	29.6	1	12/10/18 10:49	12/10/18 19:07	75-00-3	
Chloroform	<28.5	ug/kg	57.0	28.5	1	12/10/18 10:49	12/10/18 19:07	67-66-3	
Chloromethane	<13.7	ug/kg	228	13.7	1	12/10/18 10:49	12/10/18 19:07	74-87-3	
2-Chlorotoluene	<2.8	ug/kg	57.0	2.8	1	12/10/18 10:49	12/10/18 19:07	95-49-8	
4-Chlorotoluene	<2.9	ug/kg	57.0	2.9	1	12/10/18 10:49	12/10/18 19:07	106-43-4	
1,2-Dibromo-3-chloropropane	<198	ug/kg	570	198	1	12/10/18 10:49	12/10/18 19:07	96-12-8	
Dibromochloromethane	<6.6	ug/kg	228	6.6	1	12/10/18 10:49	12/10/18 19:07	124-48-1	
1,2-Dibromoethane (EDB)	<6.0	ug/kg	57.0	6.0	1	12/10/18 10:49	12/10/18 19:07	106-93-4	
Dibromomethane	<10.4	ug/kg	57.0	10.4	1	12/10/18 10:49	12/10/18 19:07	74-95-3	L2
1,2-Dichlorobenzene	<2.3	ug/kg	57.0	2.3	1	12/10/18 10:49	12/10/18 19:07	95-50-1	
1,3-Dichlorobenzene	<2.1	ug/kg	57.0	2.1	1	12/10/18 10:49	12/10/18 19:07	541-73-1	
1,4-Dichlorobenzene	<3.5	ug/kg	57.0	3.5	1	12/10/18 10:49	12/10/18 19:07	106-46-7	
Dichlorodifluoromethane	<18.5	ug/kg	228	18.5	1	12/10/18 10:49	12/10/18 19:07	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-6 (5)**      **Lab ID: 10457121012**      Collected: 11/27/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<6.4	ug/kg	57.0	6.4	1	12/10/18 10:49	12/10/18 19:07	75-34-3	
1,2-Dichloroethane	<6.3	ug/kg	57.0	6.3	1	12/10/18 10:49	12/10/18 19:07	107-06-2	
1,1-Dichloroethene	<17.1	ug/kg	57.0	17.1	1	12/10/18 10:49	12/10/18 19:07	75-35-4	L2
cis-1,2-Dichloroethene	<9.4	ug/kg	57.0	9.4	1	12/10/18 10:49	12/10/18 19:07	156-59-2	
trans-1,2-Dichloroethene	<26.7	ug/kg	57.0	26.7	1	12/10/18 10:49	12/10/18 19:07	156-60-5	
Dichlorofluoromethane	<78.7	ug/kg	570	78.7	1	12/10/18 10:49	12/10/18 19:07	75-43-4	N2
1,2-Dichloropropane	<9.8	ug/kg	57.0	9.8	1	12/10/18 10:49	12/10/18 19:07	78-87-5	
1,3-Dichloropropane	<7.9	ug/kg	57.0	7.9	1	12/10/18 10:49	12/10/18 19:07	142-28-9	
2,2-Dichloropropane	<7.1	ug/kg	228	7.1	1	12/10/18 10:49	12/10/18 19:07	594-20-7	
1,1-Dichloropropene	<26.3	ug/kg	57.0	26.3	1	12/10/18 10:49	12/10/18 19:07	563-58-6	
cis-1,3-Dichloropropene	<8.2	ug/kg	57.0	8.2	1	12/10/18 10:49	12/10/18 19:07	10061-01-5	
trans-1,3-Dichloropropene	<7.9	ug/kg	57.0	7.9	1	12/10/18 10:49	12/10/18 19:07	10061-02-6	
Diethyl ether (Ethyl ether)	<34.9	ug/kg	228	34.9	1	12/10/18 10:49	12/10/18 19:07	60-29-7	
Ethylbenzene	<3.1	ug/kg	57.0	3.1	1	12/10/18 10:49	12/10/18 19:07	100-41-4	
Hexachloro-1,3-butadiene	<13.9	ug/kg	285	13.9	1	12/10/18 10:49	12/10/18 19:07	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/kg	57.0	2.5	1	12/10/18 10:49	12/10/18 19:07	98-82-8	
p-Isopropyltoluene	<17.3	ug/kg	57.0	17.3	1	12/10/18 10:49	12/10/18 19:07	99-87-6	
Methylene Chloride	130J	ug/kg	228	107	1	12/10/18 10:49	12/10/18 19:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	<11.8	ug/kg	285	11.8	1	12/10/18 10:49	12/10/18 19:07	108-10-1	
Methyl-tert-butyl ether	<6.8	ug/kg	57.0	6.8	1	12/10/18 10:49	12/10/18 19:07	1634-04-4	
Naphthalene	<53.3	ug/kg	228	53.3	1	12/10/18 10:49	12/10/18 19:07	91-20-3	
n-Propylbenzene	<3.0	ug/kg	57.0	3.0	1	12/10/18 10:49	12/10/18 19:07	103-65-1	
Styrene	<2.6	ug/kg	57.0	2.6	1	12/10/18 10:49	12/10/18 19:07	100-42-5	
1,1,1,2-Tetrachloroethane	<17.9	ug/kg	57.0	17.9	1	12/10/18 10:49	12/10/18 19:07	630-20-6	
1,1,1,2,2-Tetrachloroethane	<10.0	ug/kg	57.0	10.0	1	12/10/18 10:49	12/10/18 19:07	79-34-5	
Tetrachloroethene	<20.0	ug/kg	57.0	20.0	1	12/10/18 10:49	12/10/18 19:07	127-18-4	L2
Tetrahydrofuran	<82.8	ug/kg	2280	82.8	1	12/10/18 10:49	12/10/18 19:07	109-99-9	
Toluene	<13.9	ug/kg	57.0	13.9	1	12/10/18 10:49	12/10/18 19:07	108-88-3	
1,2,3-Trichlorobenzene	<9.1	ug/kg	57.0	9.1	1	12/10/18 10:49	12/10/18 19:07	87-61-6	
1,2,4-Trichlorobenzene	<12.6	ug/kg	57.0	12.6	1	12/10/18 10:49	12/10/18 19:07	120-82-1	
1,1,1-Trichloroethane	<26.5	ug/kg	57.0	26.5	1	12/10/18 10:49	12/10/18 19:07	71-55-6	
1,1,2-Trichloroethane	<6.8	ug/kg	57.0	6.8	1	12/10/18 10:49	12/10/18 19:07	79-00-5	
Trichloroethene	<8.8	ug/kg	57.0	8.8	1	12/10/18 10:49	12/10/18 19:07	79-01-6	L2
Trichlorofluoromethane	<99.3	ug/kg	228	99.3	1	12/10/18 10:49	12/10/18 19:07	75-69-4	
1,2,3-Trichloropropane	<14.9	ug/kg	228	14.9	1	12/10/18 10:49	12/10/18 19:07	96-18-4	
1,1,2-Trichlorotrifluoroethane	<66.1	ug/kg	228	66.1	1	12/10/18 10:49	12/10/18 19:07	76-13-1	
1,2,4-Trimethylbenzene	<11.4	ug/kg	57.0	11.4	1	12/10/18 10:49	12/10/18 19:07	95-63-6	
1,3,5-Trimethylbenzene	<9.1	ug/kg	57.0	9.1	1	12/10/18 10:49	12/10/18 19:07	108-67-8	
Vinyl chloride	<11.2	ug/kg	22.8	11.2	1	12/10/18 10:49	12/10/18 19:07	75-01-4	
Xylene (Total)	<13.2	ug/kg	171	13.2	1	12/10/18 10:49	12/10/18 19:07	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1	12/10/18 10:49	12/10/18 19:07	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/10/18 10:49	12/10/18 19:07	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 10:49	12/10/18 19:07	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (2)**      **Lab ID: 10457121013**      Collected: 11/27/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	1.1J	ug/kg	5.2	0.53	2	12/05/18 13:42	12/12/18 05:25	309-00-2	
alpha-BHC	<0.38	ug/kg	5.2	0.38	2	12/05/18 13:42	12/12/18 05:25	319-84-6	
beta-BHC	1.8J	ug/kg	5.2	0.70	2	12/05/18 13:42	12/12/18 05:25	319-85-7	
delta-BHC	<0.43	ug/kg	5.2	0.43	2	12/05/18 13:42	12/12/18 05:25	319-86-8	
gamma-BHC (Lindane)	<0.45	ug/kg	5.2	0.45	2	12/05/18 13:42	12/12/18 05:25	58-89-9	
Chlordane (Technical)	<9.6	ug/kg	52.5	9.6	2	12/05/18 13:42	12/12/18 05:25	57-74-9	
alpha-Chlordane	1.7J	ug/kg	5.2	0.42	2	12/05/18 13:42	12/12/18 05:25	5103-71-9	
gamma-Chlordane	4.5J	ug/kg	5.2	1.2	2	12/05/18 13:42	12/12/18 05:25	5103-74-2	
4,4'-DDD	8.1J	ug/kg	10.5	0.95	2	12/05/18 13:42	12/12/18 05:25	72-54-8	
4,4'-DDE	32.4	ug/kg	10.5	0.78	2	12/05/18 13:42	12/12/18 05:25	72-55-9	
4,4'-DDT	6.8J	ug/kg	10.5	1.3	2	12/05/18 13:42	12/12/18 05:25	50-29-3	
Dieldrin	5.7J	ug/kg	10.5	1.0	2	12/05/18 13:42	12/12/18 05:25	60-57-1	
Endosulfan I	0.84J	ug/kg	5.2	0.47	2	12/05/18 13:42	12/12/18 05:25	959-98-8	
Endosulfan II	2.7J	ug/kg	10.5	1.1	2	12/05/18 13:42	12/12/18 05:25	33213-65-9	
Endosulfan sulfate	2.7J	ug/kg	10.5	1.1	2	12/05/18 13:42	12/12/18 05:25	1031-07-8	
Endrin	<0.93	ug/kg	10.5	0.93	2	12/05/18 13:42	12/12/18 05:25	72-20-8	
Endrin aldehyde	5.1J	ug/kg	10.5	3.3	2	12/05/18 13:42	12/12/18 05:25	7421-93-4	
Endrin ketone	<1.2	ug/kg	10.5	1.2	2	12/05/18 13:42	12/12/18 05:25	53494-70-5	
Heptachlor	<0.57	ug/kg	5.2	0.57	2	12/05/18 13:42	12/12/18 05:25	76-44-8	
Heptachlor epoxide	1.5J	ug/kg	5.2	0.49	2	12/05/18 13:42	12/12/18 05:25	1024-57-3	
Methoxychlor	<7.9	ug/kg	52.5	7.9	2	12/05/18 13:42	12/12/18 05:25	72-43-5	
Toxaphene	183	ug/kg	157	24.9	2	12/05/18 13:42	12/13/18 10:36	8001-35-2	5M, D4
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	93	%	30-150		2	12/05/18 13:42	12/12/18 05:25	877-09-8	5M, D4
Decachlorobiphenyl (S)	75	%	30-150		2	12/05/18 13:42	12/12/18 05:25	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<14.5	ug/kg	52.1	14.5	1	12/05/18 09:53	12/10/18 21:46	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.3	ug/kg	52.1	18.3	1	12/05/18 09:53	12/10/18 21:46	11104-28-2	
PCB-1232 (Aroclor 1232)	<20.8	ug/kg	52.1	20.8	1	12/05/18 09:53	12/10/18 21:46	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.7	ug/kg	52.1	17.7	1	12/05/18 09:53	12/10/18 21:46	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.6	ug/kg	52.1	15.6	1	12/05/18 09:53	12/10/18 21:46	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.3	ug/kg	52.1	15.3	1	12/05/18 09:53	12/10/18 21:46	11097-69-1	
PCB-1260 (Aroclor 1260)	360	ug/kg	52.1	12.4	1	12/05/18 09:53	12/10/18 21:46	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	115	%	48-125		1	12/05/18 09:53	12/10/18 21:46	877-09-8	
Decachlorobiphenyl (S)	97	%	30-134		1	12/05/18 09:53	12/10/18 21:46	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	14.2J	mg/kg	23.5	3.8	1	12/04/18 18:01	12/12/18 15:50	68334-30-5	
Motor Oil Range	85.4	mg/kg	15.7	6.8	1	12/04/18 18:01	12/12/18 15:50		D6
<b>Surrogates</b>									
n-Triacontane (S)	102	%	50-150		1	12/04/18 18:01	12/12/18 15:50	638-68-6	
o-Terphenyl (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 15:50	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (2)**      **Lab ID: 10457121013**      Collected: 11/27/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>4.0J</b>	mg/kg	9.0	1.2	1	12/10/18 16:17	12/11/18 01:13		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	96	%	50-150		1	12/10/18 16:17	12/11/18 01:13	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.55</b>	mg/kg	1.5	0.55	1	12/06/18 14:27	12/07/18 19:13	7440-36-0	
Arsenic	<b>2.2</b>	mg/kg	1.5	0.30	1	12/06/18 14:27	12/07/18 19:13	7440-38-2	
Beryllium	<b>0.57</b>	mg/kg	0.37	0.020	1	12/06/18 14:27	12/07/18 19:13	7440-41-7	
Cadmium	<b>0.23</b>	mg/kg	0.22	0.029	1	12/06/18 14:27	12/07/18 19:13	7440-43-9	
Chromium	<b>9.4</b>	mg/kg	0.73	0.13	1	12/06/18 14:27	12/07/18 19:13	7440-47-3	
Copper	<b>21.1</b>	mg/kg	0.73	0.081	1	12/06/18 14:27	12/07/18 19:13	7440-50-8	
Lead	<b>45.4</b>	mg/kg	0.73	0.17	1	12/06/18 14:27	12/07/18 19:13	7439-92-1	
Nickel	<b>7.0</b>	mg/kg	1.5	0.092	1	12/06/18 14:27	12/07/18 19:13	7440-02-0	
Selenium	<b>&lt;0.48</b>	mg/kg	1.5	0.48	1	12/06/18 14:27	12/07/18 19:13	7782-49-2	
Silver	<b>0.056J</b>	mg/kg	0.73	0.053	1	12/06/18 14:27	12/07/18 19:13	7440-22-4	
Thallium	<b>&lt;0.34</b>	mg/kg	1.5	0.34	1	12/06/18 14:27	12/07/18 19:13	7440-28-0	
Zinc	<b>107</b>	mg/kg	1.5	0.64	1	12/06/18 14:27	12/07/18 19:13	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.11</b>	mg/kg	0.030	0.012	1	12/06/18 14:29	12/12/18 15:54	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>36.7</b>	%	0.10	0.10	1		12/12/18 12:01		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;55.2</b>	ug/kg	518	55.2	1	12/03/18 15:17	12/05/18 01:32	83-32-9	
Acenaphthylene	<b>&lt;66.1</b>	ug/kg	518	66.1	1	12/03/18 15:17	12/05/18 01:32	208-96-8	
Anthracene	<b>&lt;60.7</b>	ug/kg	518	60.7	1	12/03/18 15:17	12/05/18 01:32	120-12-7	
Benzo(a)anthracene	<b>&lt;53.2</b>	ug/kg	518	53.2	1	12/03/18 15:17	12/05/18 01:32	56-55-3	
Benzo(a)pyrene	<b>&lt;58.7</b>	ug/kg	518	58.7	1	12/03/18 15:17	12/05/18 01:32	50-32-8	
Benzo(b)fluoranthene	<b>&lt;50.7</b>	ug/kg	518	50.7	1	12/03/18 15:17	12/05/18 01:32	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;55.4</b>	ug/kg	518	55.4	1	12/03/18 15:17	12/05/18 01:32	191-24-2	
Benzo(k)fluoranthene	<b>&lt;64.7</b>	ug/kg	518	64.7	1	12/03/18 15:17	12/05/18 01:32	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;61.7</b>	ug/kg	518	61.7	1	12/03/18 15:17	12/05/18 01:32	101-55-3	
Butylbenzylphthalate	<b>&lt;47.4</b>	ug/kg	518	47.4	1	12/03/18 15:17	12/05/18 01:32	85-68-7	
Carbazole	<b>&lt;43.0</b>	ug/kg	518	43.0	1	12/03/18 15:17	12/05/18 01:32	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;82.9</b>	ug/kg	518	82.9	1	12/03/18 15:17	12/05/18 01:32	59-50-7	
4-Chloroaniline	<b>&lt;138</b>	ug/kg	518	138	1	12/03/18 15:17	12/05/18 01:32	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;53.0</b>	ug/kg	518	53.0	1	12/03/18 15:17	12/05/18 01:32	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;41.0</b>	ug/kg	518	41.0	1	12/03/18 15:17	12/05/18 01:32	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;53.4</b>	ug/kg	518	53.4	1	12/03/18 15:17	12/05/18 01:32	108-60-1	
2-Chloronaphthalene	<b>&lt;45.8</b>	ug/kg	518	45.8	1	12/03/18 15:17	12/05/18 01:32	91-58-7	
2-Chlorophenol	<b>&lt;59.0</b>	ug/kg	518	59.0	1	12/03/18 15:17	12/05/18 01:32	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;64.2</b>	ug/kg	518	64.2	1	12/03/18 15:17	12/05/18 01:32	7005-72-3	
Chrysene	<b>&lt;54.6</b>	ug/kg	518	54.6	1	12/03/18 15:17	12/05/18 01:32	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (2)**      **Lab ID: 10457121013**      Collected: 11/27/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<55.1	ug/kg	518	55.1	1	12/03/18 15:17	12/05/18 01:32	53-70-3	
Dibenzofuran	<65.6	ug/kg	518	65.6	1	12/03/18 15:17	12/05/18 01:32	132-64-9	
1,2-Dichlorobenzene	<54.3	ug/kg	518	54.3	1	12/03/18 15:17	12/05/18 01:32	95-50-1	
1,3-Dichlorobenzene	<35.5	ug/kg	518	35.5	1	12/03/18 15:17	12/05/18 01:32	541-73-1	
1,4-Dichlorobenzene	<57.6	ug/kg	518	57.6	1	12/03/18 15:17	12/05/18 01:32	106-46-7	
3,3'-Dichlorobenzidine	<174	ug/kg	518	174	1	12/03/18 15:17	12/05/18 01:32	91-94-1	
2,4-Dichlorophenol	<86.5	ug/kg	518	86.5	1	12/03/18 15:17	12/05/18 01:32	120-83-2	
Diethylphthalate	<46.1	ug/kg	518	46.1	1	12/03/18 15:17	12/05/18 01:32	84-66-2	
2,4-Dimethylphenol	<202	ug/kg	518	202	1	12/03/18 15:17	12/05/18 01:32	105-67-9	
Dimethylphthalate	<70.3	ug/kg	518	70.3	1	12/03/18 15:17	12/05/18 01:32	131-11-3	
Di-n-butylphthalate	<70.9	ug/kg	518	70.9	1	12/03/18 15:17	12/05/18 01:32	84-74-2	
4,6-Dinitro-2-methylphenol	<513	ug/kg	2670	513	1	12/03/18 15:17	12/05/18 01:32	534-52-1	
2,4-Dinitrophenol	<242	ug/kg	518	242	1	12/03/18 15:17	12/05/18 01:32	51-28-5	
2,4-Dinitrotoluene	<65.9	ug/kg	518	65.9	1	12/03/18 15:17	12/05/18 01:32	121-14-2	
2,6-Dinitrotoluene	<68.6	ug/kg	518	68.6	1	12/03/18 15:17	12/05/18 01:32	606-20-2	
Di-n-octylphthalate	<60.1	ug/kg	518	60.1	1	12/03/18 15:17	12/05/18 01:32	117-84-0	
1,2-Diphenylhydrazine	<63.6	ug/kg	518	63.6	1	12/03/18 15:17	12/05/18 01:32	122-66-7	
bis(2-Ethylhexyl)phthalate	<108	ug/kg	518	108	1	12/03/18 15:17	12/05/18 01:32	117-81-7	
Fluoranthene	60.2J	ug/kg	518	59.5	1	12/03/18 15:17	12/05/18 01:32	206-44-0	
Fluorene	<237	ug/kg	518	237	1	12/03/18 15:17	12/05/18 01:32	86-73-7	
Hexachloro-1,3-butadiene	<78.8	ug/kg	518	78.8	1	12/03/18 15:17	12/05/18 01:32	87-68-3	
Hexachlorobenzene	<84.4	ug/kg	518	84.4	1	12/03/18 15:17	12/05/18 01:32	118-74-1	
Hexachloroethane	<67.3	ug/kg	518	67.3	1	12/03/18 15:17	12/05/18 01:32	67-72-1	
Indeno(1,2,3-cd)pyrene	<31.2	ug/kg	518	31.2	1	12/03/18 15:17	12/05/18 01:32	193-39-5	
Isophorone	<39.9	ug/kg	518	39.9	1	12/03/18 15:17	12/05/18 01:32	78-59-1	
1-Methylnaphthalene	<47.9	ug/kg	518	47.9	1	12/03/18 15:17	12/05/18 01:32	90-12-0	
2-Methylnaphthalene	<46.8	ug/kg	518	46.8	1	12/03/18 15:17	12/05/18 01:32	91-57-6	
2-Methylphenol(o-Cresol)	<32.3	ug/kg	518	32.3	1	12/03/18 15:17	12/05/18 01:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	<29.2	ug/kg	1040	29.2	1	12/03/18 15:17	12/05/18 01:32		
Naphthalene	<39.9	ug/kg	518	39.9	1	12/03/18 15:17	12/05/18 01:32	91-20-3	
2-Nitroaniline	<130	ug/kg	518	130	1	12/03/18 15:17	12/05/18 01:32	88-74-4	
3-Nitroaniline	<56.5	ug/kg	518	56.5	1	12/03/18 15:17	12/05/18 01:32	99-09-2	
4-Nitroaniline	<75.6	ug/kg	518	75.6	1	12/03/18 15:17	12/05/18 01:32	100-01-6	
Nitrobenzene	<57.0	ug/kg	518	57.0	1	12/03/18 15:17	12/05/18 01:32	98-95-3	
2-Nitrophenol	<63.1	ug/kg	518	63.1	1	12/03/18 15:17	12/05/18 01:32	88-75-5	
4-Nitrophenol	<100	ug/kg	518	100	1	12/03/18 15:17	12/05/18 01:32	100-02-7	
N-Nitrosodimethylamine	<63.6	ug/kg	518	63.6	1	12/03/18 15:17	12/05/18 01:32	62-75-9	
N-Nitroso-di-n-propylamine	<237	ug/kg	518	237	1	12/03/18 15:17	12/05/18 01:32	621-64-7	
N-Nitrosodiphenylamine	<33.6	ug/kg	518	33.6	1	12/03/18 15:17	12/05/18 01:32	86-30-6	
Pentachlorophenol	<303	ug/kg	1050	303	1	12/03/18 15:17	12/05/18 01:32	87-86-5	
Phenanthrene	<60.3	ug/kg	518	60.3	1	12/03/18 15:17	12/05/18 01:32	85-01-8	
Phenol	<33.9	ug/kg	518	33.9	1	12/03/18 15:17	12/05/18 01:32	108-95-2	
Pyrene	63.7J	ug/kg	518	39.4	1	12/03/18 15:17	12/05/18 01:32	129-00-0	
1,2,4-Trichlorobenzene	<56.8	ug/kg	518	56.8	1	12/03/18 15:17	12/05/18 01:32	120-82-1	
2,4,5-Trichlorophenol	<66.7	ug/kg	518	66.7	1	12/03/18 15:17	12/05/18 01:32	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (2)**      **Lab ID: 10457121013**      Collected: 11/27/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<80.2	ug/kg	518	80.2	1	12/03/18 15:17	12/05/18 01:32	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	43-125		1	12/03/18 15:17	12/05/18 01:32	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-132		1	12/03/18 15:17	12/05/18 01:32	321-60-8	
p-Terphenyl-d14 (S)	65	%	62-125		1	12/03/18 15:17	12/05/18 01:32	1718-51-0	
Phenol-d6 (S)	62	%	48-125		1	12/03/18 15:17	12/05/18 01:32	13127-88-3	
2-Fluorophenol (S)	55	%	40-125		1	12/03/18 15:17	12/05/18 01:32	367-12-4	
2,4,6-Tribromophenol (S)	68	%	60-125		1	12/03/18 15:17	12/05/18 01:32	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.36	ug/kg	6.3	0.36	1	03/04/19 09:00	03/04/19 18:52	106-93-4	
Methylene Chloride	<5.8	ug/kg	31.5	5.8	1	03/04/19 09:00	03/04/19 18:52	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 18:52	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 18:52	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/04/19 09:00	03/04/19 18:52	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<550	ug/kg	1770	550	1	12/10/18 15:39	12/10/18 21:43	67-64-1	
Allyl chloride	<74.1	ug/kg	354	74.1	1	12/10/18 15:39	12/10/18 21:43	107-05-1	
Benzene	<5.0	ug/kg	35.4	5.0	1	12/10/18 15:39	12/10/18 21:43	71-43-2	
Bromobenzene	<5.4	ug/kg	88.4	5.4	1	12/10/18 15:39	12/10/18 21:43	108-86-1	
Bromochloromethane	<30.6	ug/kg	88.4	30.6	1	12/10/18 15:39	12/10/18 21:43	74-97-5	
Bromodichloromethane	<30.2	ug/kg	88.4	30.2	1	12/10/18 15:39	12/10/18 21:43	75-27-4	
Bromoform	<134	ug/kg	354	134	1	12/10/18 15:39	12/10/18 21:43	75-25-2	
Bromomethane	<103	ug/kg	884	103	1	12/10/18 15:39	12/10/18 21:43	74-83-9	
2-Butanone (MEK)	<47.1	ug/kg	442	47.1	1	12/10/18 15:39	12/10/18 21:43	78-93-3	
n-Butylbenzene	<42.1	ug/kg	88.4	42.1	1	12/10/18 15:39	12/10/18 21:43	104-51-8	
sec-Butylbenzene	<16.9	ug/kg	88.4	16.9	1	12/10/18 15:39	12/10/18 21:43	135-98-8	
tert-Butylbenzene	<17.0	ug/kg	88.4	17.0	1	12/10/18 15:39	12/10/18 21:43	98-06-6	
Carbon tetrachloride	<42.3	ug/kg	88.4	42.3	1	12/10/18 15:39	12/10/18 21:43	56-23-5	
Chlorobenzene	<5.0	ug/kg	88.4	5.0	1	12/10/18 15:39	12/10/18 21:43	108-90-7	
Chloroethane	<46.0	ug/kg	884	46.0	1	12/10/18 15:39	12/10/18 21:43	75-00-3	
Chloroform	<44.2	ug/kg	88.4	44.2	1	12/10/18 15:39	12/10/18 21:43	67-66-3	
Chloromethane	<21.2	ug/kg	354	21.2	1	12/10/18 15:39	12/10/18 21:43	74-87-3	
2-Chlorotoluene	<4.4	ug/kg	88.4	4.4	1	12/10/18 15:39	12/10/18 21:43	95-49-8	
4-Chlorotoluene	<4.5	ug/kg	88.4	4.5	1	12/10/18 15:39	12/10/18 21:43	106-43-4	
1,2-Dibromo-3-chloropropane	<308	ug/kg	884	308	1	12/10/18 15:39	12/10/18 21:43	96-12-8	
Dibromochloromethane	<10.3	ug/kg	354	10.3	1	12/10/18 15:39	12/10/18 21:43	124-48-1	
1,2-Dibromoethane (EDB)	<9.3	ug/kg	88.4	9.3	1	12/10/18 15:39	12/10/18 21:43	106-93-4	
Dibromomethane	<16.2	ug/kg	88.4	16.2	1	12/10/18 15:39	12/10/18 21:43	74-95-3	
1,2-Dichlorobenzene	<3.6	ug/kg	88.4	3.6	1	12/10/18 15:39	12/10/18 21:43	95-50-1	
1,3-Dichlorobenzene	<3.2	ug/kg	88.4	3.2	1	12/10/18 15:39	12/10/18 21:43	541-73-1	
1,4-Dichlorobenzene	<5.5	ug/kg	88.4	5.5	1	12/10/18 15:39	12/10/18 21:43	106-46-7	
Dichlorodifluoromethane	<28.7	ug/kg	354	28.7	1	12/10/18 15:39	12/10/18 21:43	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (2)**      **Lab ID: 10457121013**      Collected: 11/27/18 11:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<9.9	ug/kg	88.4	9.9	1	12/10/18 15:39	12/10/18 21:43	75-34-3	
1,2-Dichloroethane	<9.7	ug/kg	88.4	9.7	1	12/10/18 15:39	12/10/18 21:43	107-06-2	
1,1-Dichloroethene	<26.5	ug/kg	88.4	26.5	1	12/10/18 15:39	12/10/18 21:43	75-35-4	
cis-1,2-Dichloroethene	<14.7	ug/kg	88.4	14.7	1	12/10/18 15:39	12/10/18 21:43	156-59-2	
trans-1,2-Dichloroethene	<41.4	ug/kg	88.4	41.4	1	12/10/18 15:39	12/10/18 21:43	156-60-5	
Dichlorofluoromethane	<122	ug/kg	884	122	1	12/10/18 15:39	12/10/18 21:43	75-43-4	N2
1,2-Dichloropropane	<15.2	ug/kg	88.4	15.2	1	12/10/18 15:39	12/10/18 21:43	78-87-5	
1,3-Dichloropropane	<12.2	ug/kg	88.4	12.2	1	12/10/18 15:39	12/10/18 21:43	142-28-9	
2,2-Dichloropropane	<11.0	ug/kg	354	11.0	1	12/10/18 15:39	12/10/18 21:43	594-20-7	
1,1-Dichloropropene	<40.9	ug/kg	88.4	40.9	1	12/10/18 15:39	12/10/18 21:43	563-58-6	
cis-1,3-Dichloropropene	<12.7	ug/kg	88.4	12.7	1	12/10/18 15:39	12/10/18 21:43	10061-01-5	
trans-1,3-Dichloropropene	<12.3	ug/kg	88.4	12.3	1	12/10/18 15:39	12/10/18 21:43	10061-02-6	
Diethyl ether (Ethyl ether)	<54.1	ug/kg	354	54.1	1	12/10/18 15:39	12/10/18 21:43	60-29-7	
Ethylbenzene	<4.8	ug/kg	88.4	4.8	1	12/10/18 15:39	12/10/18 21:43	100-41-4	
Hexachloro-1,3-butadiene	<21.6	ug/kg	442	21.6	1	12/10/18 15:39	12/10/18 21:43	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/kg	88.4	3.9	1	12/10/18 15:39	12/10/18 21:43	98-82-8	
p-Isopropyltoluene	<26.9	ug/kg	88.4	26.9	1	12/10/18 15:39	12/10/18 21:43	99-87-6	
Methylene Chloride	<166	ug/kg	354	166	1	12/10/18 15:39	12/10/18 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	<18.4	ug/kg	442	18.4	1	12/10/18 15:39	12/10/18 21:43	108-10-1	
Methyl-tert-butyl ether	<10.5	ug/kg	88.4	10.5	1	12/10/18 15:39	12/10/18 21:43	1634-04-4	
Naphthalene	<82.8	ug/kg	354	82.8	1	12/10/18 15:39	12/10/18 21:43	91-20-3	
n-Propylbenzene	<4.7	ug/kg	88.4	4.7	1	12/10/18 15:39	12/10/18 21:43	103-65-1	
Styrene	<4.0	ug/kg	88.4	4.0	1	12/10/18 15:39	12/10/18 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	<27.8	ug/kg	88.4	27.8	1	12/10/18 15:39	12/10/18 21:43	630-20-6	
1,1,1,2,2-Tetrachloroethane	<15.6	ug/kg	88.4	15.6	1	12/10/18 15:39	12/10/18 21:43	79-34-5	
Tetrachloroethene	<31.1	ug/kg	88.4	31.1	1	12/10/18 15:39	12/10/18 21:43	127-18-4	
Tetrahydrofuran	<129	ug/kg	3540	129	1	12/10/18 15:39	12/10/18 21:43	109-99-9	
Toluene	<21.6	ug/kg	88.4	21.6	1	12/10/18 15:39	12/10/18 21:43	108-88-3	
1,2,3-Trichlorobenzene	<14.1	ug/kg	88.4	14.1	1	12/10/18 15:39	12/10/18 21:43	87-61-6	
1,2,4-Trichlorobenzene	<19.6	ug/kg	88.4	19.6	1	12/10/18 15:39	12/10/18 21:43	120-82-1	
1,1,1-Trichloroethane	<41.2	ug/kg	88.4	41.2	1	12/10/18 15:39	12/10/18 21:43	71-55-6	
1,1,2-Trichloroethane	<10.6	ug/kg	88.4	10.6	1	12/10/18 15:39	12/10/18 21:43	79-00-5	
Trichloroethene	<13.6	ug/kg	88.4	13.6	1	12/10/18 15:39	12/10/18 21:43	79-01-6	
Trichlorofluoromethane	<154	ug/kg	354	154	1	12/10/18 15:39	12/10/18 21:43	75-69-4	L2
1,2,3-Trichloropropane	<23.2	ug/kg	354	23.2	1	12/10/18 15:39	12/10/18 21:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	<103	ug/kg	354	103	1	12/10/18 15:39	12/10/18 21:43	76-13-1	
1,2,4-Trimethylbenzene	<17.7	ug/kg	88.4	17.7	1	12/10/18 15:39	12/10/18 21:43	95-63-6	
1,3,5-Trimethylbenzene	<14.1	ug/kg	88.4	14.1	1	12/10/18 15:39	12/10/18 21:43	108-67-8	
Vinyl chloride	<17.4	ug/kg	35.4	17.4	1	12/10/18 15:39	12/10/18 21:43	75-01-4	
Xylene (Total)	<20.5	ug/kg	265	20.5	1	12/10/18 15:39	12/10/18 21:43	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1	12/10/18 15:39	12/10/18 21:43	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 15:39	12/10/18 21:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	12/10/18 15:39	12/10/18 21:43	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (5)**      **Lab ID: 10457121014**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.37	ug/kg	3.7	0.37	2	12/05/18 13:42	12/11/18 07:45	309-00-2	
alpha-BHC	<0.27	ug/kg	3.7	0.27	2	12/05/18 13:42	12/11/18 07:45	319-84-6	
beta-BHC	<0.49	ug/kg	3.7	0.49	2	12/05/18 13:42	12/11/18 07:45	319-85-7	
delta-BHC	<0.30	ug/kg	3.7	0.30	2	12/05/18 13:42	12/11/18 07:45	319-86-8	
gamma-BHC (Lindane)	<0.31	ug/kg	3.7	0.31	2	12/05/18 13:42	12/11/18 07:45	58-89-9	
Chlordane (Technical)	<6.7	ug/kg	36.7	6.7	2	12/05/18 13:42	12/11/18 07:45	57-74-9	
alpha-Chlordane	<0.30	ug/kg	3.7	0.30	2	12/05/18 13:42	12/11/18 07:45	5103-71-9	
gamma-Chlordane	<0.84	ug/kg	3.7	0.84	2	12/05/18 13:42	12/11/18 07:45	5103-74-2	
4,4'-DDD	0.87J	ug/kg	7.3	0.67	2	12/05/18 13:42	12/11/18 07:45	72-54-8	
4,4'-DDE	0.93J	ug/kg	7.3	0.55	2	12/05/18 13:42	12/11/18 07:45	72-55-9	CH
4,4'-DDT	<0.92	ug/kg	7.3	0.92	2	12/05/18 13:42	12/11/18 07:45	50-29-3	
Dieldrin	<0.71	ug/kg	7.3	0.71	2	12/05/18 13:42	12/11/18 07:45	60-57-1	
Endosulfan I	<0.33	ug/kg	3.7	0.33	2	12/05/18 13:42	12/11/18 07:45	959-98-8	
Endosulfan II	<0.74	ug/kg	7.3	0.74	2	12/05/18 13:42	12/11/18 07:45	33213-65-9	
Endosulfan sulfate	<0.75	ug/kg	7.3	0.75	2	12/05/18 13:42	12/11/18 07:45	1031-07-8	
Endrin	<0.65	ug/kg	7.3	0.65	2	12/05/18 13:42	12/11/18 07:45	72-20-8	
Endrin aldehyde	<2.3	ug/kg	7.3	2.3	2	12/05/18 13:42	12/11/18 07:45	7421-93-4	
Endrin ketone	<0.87	ug/kg	7.3	0.87	2	12/05/18 13:42	12/11/18 07:45	53494-70-5	
Heptachlor	<0.40	ug/kg	3.7	0.40	2	12/05/18 13:42	12/11/18 07:45	76-44-8	
Heptachlor epoxide	<0.35	ug/kg	3.7	0.35	2	12/05/18 13:42	12/11/18 07:45	1024-57-3	
Methoxychlor	<5.5	ug/kg	36.7	5.5	2	12/05/18 13:42	12/11/18 07:45	72-43-5	
Toxaphene	<17.4	ug/kg	110	17.4	2	12/05/18 13:42	12/11/18 07:45	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	30-150		2	12/05/18 13:42	12/11/18 07:45	877-09-8	5M, CH, D3
Decachlorobiphenyl (S)	75	%	30-150		2	12/05/18 13:42	12/11/18 07:45	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.0	ug/kg	36.1	10.0	1	12/05/18 09:53	12/10/18 22:02	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.7	ug/kg	36.1	12.7	1	12/05/18 09:53	12/10/18 22:02	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.4	ug/kg	36.1	14.4	1	12/05/18 09:53	12/10/18 22:02	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.2	ug/kg	36.1	12.2	1	12/05/18 09:53	12/10/18 22:02	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.8	ug/kg	36.1	10.8	1	12/05/18 09:53	12/10/18 22:02	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.6	ug/kg	36.1	10.6	1	12/05/18 09:53	12/10/18 22:02	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.6	ug/kg	36.1	8.6	1	12/05/18 09:53	12/10/18 22:02	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	86	%	48-125		1	12/05/18 09:53	12/10/18 22:02	877-09-8	
Decachlorobiphenyl (S)	102	%	30-134		1	12/05/18 09:53	12/10/18 22:02	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	4.2J	mg/kg	16.5	2.7	1	12/04/18 18:01	12/12/18 16:13	68334-30-5	
Motor Oil Range	20.0	mg/kg	11.0	4.8	1	12/04/18 18:01	12/12/18 16:13		
<b>Surrogates</b>									
n-Triacontane (S)	109	%	50-150		1	12/04/18 18:01	12/12/18 16:13	638-68-6	
o-Terphenyl (S)	104	%	50-150		1	12/04/18 18:01	12/12/18 16:13	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (5)**      **Lab ID: 10457121014**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<0.71	mg/kg	5.4	0.71	1	12/10/18 16:17	12/11/18 01:30		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	108	%	50-150		1	12/10/18 16:17	12/11/18 01:30	98-08-8	
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<0.40	mg/kg	1.1	0.40	1	12/06/18 14:27	12/07/18 19:16	7440-36-0	
Arsenic	0.84J	mg/kg	1.1	0.22	1	12/06/18 14:27	12/07/18 19:16	7440-38-2	
Beryllium	0.30	mg/kg	0.27	0.014	1	12/06/18 14:27	12/07/18 19:16	7440-41-7	
Cadmium	0.024J	mg/kg	0.16	0.021	1	12/06/18 14:27	12/07/18 19:16	7440-43-9	
Chromium	3.5	mg/kg	0.54	0.092	1	12/06/18 14:27	12/07/18 19:16	7440-47-3	
Copper	10.7	mg/kg	0.54	0.059	1	12/06/18 14:27	12/07/18 19:16	7440-50-8	
Lead	34.3	mg/kg	0.54	0.12	1	12/06/18 14:27	12/07/18 19:16	7439-92-1	
Nickel	2.9	mg/kg	1.1	0.067	1	12/06/18 14:27	12/07/18 19:16	7440-02-0	
Selenium	<0.35	mg/kg	1.1	0.35	1	12/06/18 14:27	12/07/18 19:16	7782-49-2	
Silver	<0.039	mg/kg	0.54	0.039	1	12/06/18 14:27	12/07/18 19:16	7440-22-4	
Thallium	<0.25	mg/kg	1.1	0.25	1	12/06/18 14:27	12/07/18 19:16	7440-28-0	
Zinc	46.8	mg/kg	1.1	0.47	1	12/06/18 14:27	12/07/18 19:16	7440-66-6	
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	0.035	mg/kg	0.021	0.0086	1	12/06/18 14:29	12/12/18 15:56	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	9.4	%	0.10	0.10	1		12/12/18 12:01		
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
Acenaphthene	<38.7	ug/kg	363	38.7	1	12/03/18 15:17	12/05/18 02:02	83-32-9	
Acenaphthylene	<46.3	ug/kg	363	46.3	1	12/03/18 15:17	12/05/18 02:02	208-96-8	
Anthracene	53.5J	ug/kg	363	42.5	1	12/03/18 15:17	12/05/18 02:02	120-12-7	
Benzo(a)anthracene	133J	ug/kg	363	37.3	1	12/03/18 15:17	12/05/18 02:02	56-55-3	
Benzo(a)pyrene	141J	ug/kg	363	41.1	1	12/03/18 15:17	12/05/18 02:02	50-32-8	
Benzo(b)fluoranthene	135J	ug/kg	363	35.5	1	12/03/18 15:17	12/05/18 02:02	205-99-2	
Benzo(g,h,i)perylene	88.2J	ug/kg	363	38.8	1	12/03/18 15:17	12/05/18 02:02	191-24-2	
Benzo(k)fluoranthene	61.1J	ug/kg	363	45.3	1	12/03/18 15:17	12/05/18 02:02	207-08-9	
4-Bromophenylphenyl ether	<43.2	ug/kg	363	43.2	1	12/03/18 15:17	12/05/18 02:02	101-55-3	
Butylbenzylphthalate	<33.2	ug/kg	363	33.2	1	12/03/18 15:17	12/05/18 02:02	85-68-7	
Carbazole	<30.1	ug/kg	363	30.1	1	12/03/18 15:17	12/05/18 02:02	86-74-8	
4-Chloro-3-methylphenol	<58.1	ug/kg	363	58.1	1	12/03/18 15:17	12/05/18 02:02	59-50-7	
4-Chloroaniline	<96.6	ug/kg	363	96.6	1	12/03/18 15:17	12/05/18 02:02	106-47-8	
bis(2-Chloroethoxy)methane	<37.2	ug/kg	363	37.2	1	12/03/18 15:17	12/05/18 02:02	111-91-1	
bis(2-Chloroethyl) ether	<28.7	ug/kg	363	28.7	1	12/03/18 15:17	12/05/18 02:02	111-44-4	
bis(2-Chloroisopropyl) ether	<37.4	ug/kg	363	37.4	1	12/03/18 15:17	12/05/18 02:02	108-60-1	
2-Chloronaphthalene	<32.1	ug/kg	363	32.1	1	12/03/18 15:17	12/05/18 02:02	91-58-7	
2-Chlorophenol	<41.3	ug/kg	363	41.3	1	12/03/18 15:17	12/05/18 02:02	95-57-8	
4-Chlorophenylphenyl ether	<45.0	ug/kg	363	45.0	1	12/03/18 15:17	12/05/18 02:02	7005-72-3	
Chrysene	120J	ug/kg	363	38.3	1	12/03/18 15:17	12/05/18 02:02	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (5)**      **Lab ID: 10457121014**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<38.6	ug/kg	363	38.6	1	12/03/18 15:17	12/05/18 02:02	53-70-3	
Dibenzofuran	<46.0	ug/kg	363	46.0	1	12/03/18 15:17	12/05/18 02:02	132-64-9	
1,2-Dichlorobenzene	<38.0	ug/kg	363	38.0	1	12/03/18 15:17	12/05/18 02:02	95-50-1	
1,3-Dichlorobenzene	<24.8	ug/kg	363	24.8	1	12/03/18 15:17	12/05/18 02:02	541-73-1	
1,4-Dichlorobenzene	<40.4	ug/kg	363	40.4	1	12/03/18 15:17	12/05/18 02:02	106-46-7	
3,3'-Dichlorobenzidine	<122	ug/kg	363	122	1	12/03/18 15:17	12/05/18 02:02	91-94-1	
2,4-Dichlorophenol	<60.6	ug/kg	363	60.6	1	12/03/18 15:17	12/05/18 02:02	120-83-2	
Diethylphthalate	<32.3	ug/kg	363	32.3	1	12/03/18 15:17	12/05/18 02:02	84-66-2	
2,4-Dimethylphenol	<142	ug/kg	363	142	1	12/03/18 15:17	12/05/18 02:02	105-67-9	
Dimethylphthalate	<49.3	ug/kg	363	49.3	1	12/03/18 15:17	12/05/18 02:02	131-11-3	
Di-n-butylphthalate	<49.7	ug/kg	363	49.7	1	12/03/18 15:17	12/05/18 02:02	84-74-2	
4,6-Dinitro-2-methylphenol	<360	ug/kg	1870	360	1	12/03/18 15:17	12/05/18 02:02	534-52-1	
2,4-Dinitrophenol	<169	ug/kg	363	169	1	12/03/18 15:17	12/05/18 02:02	51-28-5	
2,4-Dinitrotoluene	<46.2	ug/kg	363	46.2	1	12/03/18 15:17	12/05/18 02:02	121-14-2	
2,6-Dinitrotoluene	<48.0	ug/kg	363	48.0	1	12/03/18 15:17	12/05/18 02:02	606-20-2	
Di-n-octylphthalate	<42.1	ug/kg	363	42.1	1	12/03/18 15:17	12/05/18 02:02	117-84-0	
1,2-Diphenylhydrazine	<44.5	ug/kg	363	44.5	1	12/03/18 15:17	12/05/18 02:02	122-66-7	
bis(2-Ethylhexyl)phthalate	<75.6	ug/kg	363	75.6	1	12/03/18 15:17	12/05/18 02:02	117-81-7	
Fluoranthene	261J	ug/kg	363	41.7	1	12/03/18 15:17	12/05/18 02:02	206-44-0	
Fluorene	<166	ug/kg	363	166	1	12/03/18 15:17	12/05/18 02:02	86-73-7	
Hexachloro-1,3-butadiene	<55.2	ug/kg	363	55.2	1	12/03/18 15:17	12/05/18 02:02	87-68-3	
Hexachlorobenzene	<59.2	ug/kg	363	59.2	1	12/03/18 15:17	12/05/18 02:02	118-74-1	
Hexachloroethane	<47.2	ug/kg	363	47.2	1	12/03/18 15:17	12/05/18 02:02	67-72-1	
Indeno(1,2,3-cd)pyrene	72.5J	ug/kg	363	21.9	1	12/03/18 15:17	12/05/18 02:02	193-39-5	
Isophorone	<27.9	ug/kg	363	27.9	1	12/03/18 15:17	12/05/18 02:02	78-59-1	
1-Methylnaphthalene	<33.5	ug/kg	363	33.5	1	12/03/18 15:17	12/05/18 02:02	90-12-0	
2-Methylnaphthalene	<32.8	ug/kg	363	32.8	1	12/03/18 15:17	12/05/18 02:02	91-57-6	
2-Methylphenol(o-Cresol)	<22.6	ug/kg	363	22.6	1	12/03/18 15:17	12/05/18 02:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.5	ug/kg	726	20.5	1	12/03/18 15:17	12/05/18 02:02		
Naphthalene	<27.9	ug/kg	363	27.9	1	12/03/18 15:17	12/05/18 02:02	91-20-3	
2-Nitroaniline	<91.0	ug/kg	363	91.0	1	12/03/18 15:17	12/05/18 02:02	88-74-4	
3-Nitroaniline	<39.6	ug/kg	363	39.6	1	12/03/18 15:17	12/05/18 02:02	99-09-2	
4-Nitroaniline	<53.0	ug/kg	363	53.0	1	12/03/18 15:17	12/05/18 02:02	100-01-6	
Nitrobenzene	<39.9	ug/kg	363	39.9	1	12/03/18 15:17	12/05/18 02:02	98-95-3	
2-Nitrophenol	<44.2	ug/kg	363	44.2	1	12/03/18 15:17	12/05/18 02:02	88-75-5	
4-Nitrophenol	<70.4	ug/kg	363	70.4	1	12/03/18 15:17	12/05/18 02:02	100-02-7	
N-Nitrosodimethylamine	<44.5	ug/kg	363	44.5	1	12/03/18 15:17	12/05/18 02:02	62-75-9	
N-Nitroso-di-n-propylamine	<166	ug/kg	363	166	1	12/03/18 15:17	12/05/18 02:02	621-64-7	
N-Nitrosodiphenylamine	<23.5	ug/kg	363	23.5	1	12/03/18 15:17	12/05/18 02:02	86-30-6	
Pentachlorophenol	<212	ug/kg	737	212	1	12/03/18 15:17	12/05/18 02:02	87-86-5	
Phenanthrene	102J	ug/kg	363	42.2	1	12/03/18 15:17	12/05/18 02:02	85-01-8	
Phenol	<23.7	ug/kg	363	23.7	1	12/03/18 15:17	12/05/18 02:02	108-95-2	
Pyrene	278J	ug/kg	363	27.6	1	12/03/18 15:17	12/05/18 02:02	129-00-0	
1,2,4-Trichlorobenzene	<39.8	ug/kg	363	39.8	1	12/03/18 15:17	12/05/18 02:02	120-82-1	
2,4,5-Trichlorophenol	<46.7	ug/kg	363	46.7	1	12/03/18 15:17	12/05/18 02:02	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (5)**      **Lab ID: 10457121014**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<56.2	ug/kg	363	56.2	1	12/03/18 15:17	12/05/18 02:02	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	59	%	43-125		1	12/03/18 15:17	12/05/18 02:02	4165-60-0	
2-Fluorobiphenyl (S)	71	%	30-132		1	12/03/18 15:17	12/05/18 02:02	321-60-8	
p-Terphenyl-d14 (S)	84	%	62-125		1	12/03/18 15:17	12/05/18 02:02	1718-51-0	
Phenol-d6 (S)	68	%	48-125		1	12/03/18 15:17	12/05/18 02:02	13127-88-3	
2-Fluorophenol (S)	61	%	40-125		1	12/03/18 15:17	12/05/18 02:02	367-12-4	
2,4,6-Tribromophenol (S)	83	%	60-125		1	12/03/18 15:17	12/05/18 02:02	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.24	ug/kg	4.3	0.24	1	03/04/19 09:00	03/04/19 19:11	106-93-4	
Methylene Chloride	<3.9	ug/kg	21.4	3.9	1	03/04/19 09:00	03/04/19 19:11	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	121	%	75-125		1	03/04/19 09:00	03/04/19 19:11	17060-07-0	3M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 19:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	03/04/19 09:00	03/04/19 19:11	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<342	ug/kg	1100	342	1	12/10/18 15:39	12/10/18 22:01	67-64-1	
Allyl chloride	<46.1	ug/kg	220	46.1	1	12/10/18 15:39	12/10/18 22:01	107-05-1	
Benzene	<3.1	ug/kg	22.0	3.1	1	12/10/18 15:39	12/10/18 22:01	71-43-2	
Bromobenzene	<3.4	ug/kg	55.0	3.4	1	12/10/18 15:39	12/10/18 22:01	108-86-1	
Bromochloromethane	<19.0	ug/kg	55.0	19.0	1	12/10/18 15:39	12/10/18 22:01	74-97-5	
Bromodichloromethane	<18.8	ug/kg	55.0	18.8	1	12/10/18 15:39	12/10/18 22:01	75-27-4	
Bromoform	<83.3	ug/kg	220	83.3	1	12/10/18 15:39	12/10/18 22:01	75-25-2	
Bromomethane	<64.4	ug/kg	550	64.4	1	12/10/18 15:39	12/10/18 22:01	74-83-9	
2-Butanone (MEK)	<29.3	ug/kg	275	29.3	1	12/10/18 15:39	12/10/18 22:01	78-93-3	
n-Butylbenzene	<26.2	ug/kg	55.0	26.2	1	12/10/18 15:39	12/10/18 22:01	104-51-8	
sec-Butylbenzene	<10.5	ug/kg	55.0	10.5	1	12/10/18 15:39	12/10/18 22:01	135-98-8	
tert-Butylbenzene	<10.6	ug/kg	55.0	10.6	1	12/10/18 15:39	12/10/18 22:01	98-06-6	
Carbon tetrachloride	<26.3	ug/kg	55.0	26.3	1	12/10/18 15:39	12/10/18 22:01	56-23-5	
Chlorobenzene	<3.1	ug/kg	55.0	3.1	1	12/10/18 15:39	12/10/18 22:01	108-90-7	
Chloroethane	<28.6	ug/kg	550	28.6	1	12/10/18 15:39	12/10/18 22:01	75-00-3	
Chloroform	<27.5	ug/kg	55.0	27.5	1	12/10/18 15:39	12/10/18 22:01	67-66-3	
Chloromethane	<13.2	ug/kg	220	13.2	1	12/10/18 15:39	12/10/18 22:01	74-87-3	
2-Chlorotoluene	<2.7	ug/kg	55.0	2.7	1	12/10/18 15:39	12/10/18 22:01	95-49-8	
4-Chlorotoluene	<2.8	ug/kg	55.0	2.8	1	12/10/18 15:39	12/10/18 22:01	106-43-4	
1,2-Dibromo-3-chloropropane	<192	ug/kg	550	192	1	12/10/18 15:39	12/10/18 22:01	96-12-8	
Dibromochloromethane	<6.4	ug/kg	220	6.4	1	12/10/18 15:39	12/10/18 22:01	124-48-1	
1,2-Dibromoethane (EDB)	<5.8	ug/kg	55.0	5.8	1	12/10/18 15:39	12/10/18 22:01	106-93-4	
Dibromomethane	<10.1	ug/kg	55.0	10.1	1	12/10/18 15:39	12/10/18 22:01	74-95-3	
1,2-Dichlorobenzene	<2.2	ug/kg	55.0	2.2	1	12/10/18 15:39	12/10/18 22:01	95-50-1	
1,3-Dichlorobenzene	<2.0	ug/kg	55.0	2.0	1	12/10/18 15:39	12/10/18 22:01	541-73-1	
1,4-Dichlorobenzene	<3.4	ug/kg	55.0	3.4	1	12/10/18 15:39	12/10/18 22:01	106-46-7	
Dichlorodifluoromethane	<17.8	ug/kg	220	17.8	1	12/10/18 15:39	12/10/18 22:01	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-7 (5)**      **Lab ID: 10457121014**      Collected: 11/27/18 12:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<6.2	ug/kg	55.0	6.2	1	12/10/18 15:39	12/10/18 22:01	75-34-3	
1,2-Dichloroethane	<6.1	ug/kg	55.0	6.1	1	12/10/18 15:39	12/10/18 22:01	107-06-2	
1,1-Dichloroethene	<16.5	ug/kg	55.0	16.5	1	12/10/18 15:39	12/10/18 22:01	75-35-4	
cis-1,2-Dichloroethene	<9.1	ug/kg	55.0	9.1	1	12/10/18 15:39	12/10/18 22:01	156-59-2	
trans-1,2-Dichloroethene	<25.8	ug/kg	55.0	25.8	1	12/10/18 15:39	12/10/18 22:01	156-60-5	
Dichlorofluoromethane	<76.1	ug/kg	550	76.1	1	12/10/18 15:39	12/10/18 22:01	75-43-4	N2
1,2-Dichloropropane	<9.5	ug/kg	55.0	9.5	1	12/10/18 15:39	12/10/18 22:01	78-87-5	
1,3-Dichloropropane	<7.6	ug/kg	55.0	7.6	1	12/10/18 15:39	12/10/18 22:01	142-28-9	
2,2-Dichloropropane	<6.9	ug/kg	220	6.9	1	12/10/18 15:39	12/10/18 22:01	594-20-7	
1,1-Dichloropropene	<25.4	ug/kg	55.0	25.4	1	12/10/18 15:39	12/10/18 22:01	563-58-6	
cis-1,3-Dichloropropene	<7.9	ug/kg	55.0	7.9	1	12/10/18 15:39	12/10/18 22:01	10061-01-5	
trans-1,3-Dichloropropene	<7.7	ug/kg	55.0	7.7	1	12/10/18 15:39	12/10/18 22:01	10061-02-6	
Diethyl ether (Ethyl ether)	<33.7	ug/kg	220	33.7	1	12/10/18 15:39	12/10/18 22:01	60-29-7	
Ethylbenzene	<3.0	ug/kg	55.0	3.0	1	12/10/18 15:39	12/10/18 22:01	100-41-4	
Hexachloro-1,3-butadiene	<13.4	ug/kg	275	13.4	1	12/10/18 15:39	12/10/18 22:01	87-68-3	
Isopropylbenzene (Cumene)	<2.4	ug/kg	55.0	2.4	1	12/10/18 15:39	12/10/18 22:01	98-82-8	
p-Isopropyltoluene	<16.7	ug/kg	55.0	16.7	1	12/10/18 15:39	12/10/18 22:01	99-87-6	
Methylene Chloride	117J	ug/kg	220	104	1	12/10/18 15:39	12/10/18 22:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<11.4	ug/kg	275	11.4	1	12/10/18 15:39	12/10/18 22:01	108-10-1	
Methyl-tert-butyl ether	<6.5	ug/kg	55.0	6.5	1	12/10/18 15:39	12/10/18 22:01	1634-04-4	
Naphthalene	<51.5	ug/kg	220	51.5	1	12/10/18 15:39	12/10/18 22:01	91-20-3	
n-Propylbenzene	<2.9	ug/kg	55.0	2.9	1	12/10/18 15:39	12/10/18 22:01	103-65-1	
Styrene	<2.5	ug/kg	55.0	2.5	1	12/10/18 15:39	12/10/18 22:01	100-42-5	
1,1,1,2-Tetrachloroethane	<17.3	ug/kg	55.0	17.3	1	12/10/18 15:39	12/10/18 22:01	630-20-6	
1,1,1,2,2-Tetrachloroethane	<9.7	ug/kg	55.0	9.7	1	12/10/18 15:39	12/10/18 22:01	79-34-5	
Tetrachloroethene	<19.4	ug/kg	55.0	19.4	1	12/10/18 15:39	12/10/18 22:01	127-18-4	
Tetrahydrofuran	<80.0	ug/kg	2200	80.0	1	12/10/18 15:39	12/10/18 22:01	109-99-9	
Toluene	<13.4	ug/kg	55.0	13.4	1	12/10/18 15:39	12/10/18 22:01	108-88-3	
1,2,3-Trichlorobenzene	<8.8	ug/kg	55.0	8.8	1	12/10/18 15:39	12/10/18 22:01	87-61-6	
1,2,4-Trichlorobenzene	<12.2	ug/kg	55.0	12.2	1	12/10/18 15:39	12/10/18 22:01	120-82-1	
1,1,1-Trichloroethane	<25.6	ug/kg	55.0	25.6	1	12/10/18 15:39	12/10/18 22:01	71-55-6	
1,1,2-Trichloroethane	<6.6	ug/kg	55.0	6.6	1	12/10/18 15:39	12/10/18 22:01	79-00-5	
Trichloroethene	<8.5	ug/kg	55.0	8.5	1	12/10/18 15:39	12/10/18 22:01	79-01-6	
Trichlorofluoromethane	<96.0	ug/kg	220	96.0	1	12/10/18 15:39	12/10/18 22:01	75-69-4	L2
1,2,3-Trichloropropane	<14.4	ug/kg	220	14.4	1	12/10/18 15:39	12/10/18 22:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	<63.8	ug/kg	220	63.8	1	12/10/18 15:39	12/10/18 22:01	76-13-1	
1,2,4-Trimethylbenzene	<11.0	ug/kg	55.0	11.0	1	12/10/18 15:39	12/10/18 22:01	95-63-6	
1,3,5-Trimethylbenzene	<8.8	ug/kg	55.0	8.8	1	12/10/18 15:39	12/10/18 22:01	108-67-8	
Vinyl chloride	<10.8	ug/kg	22.0	10.8	1	12/10/18 15:39	12/10/18 22:01	75-01-4	
Xylene (Total)	<12.8	ug/kg	165	12.8	1	12/10/18 15:39	12/10/18 22:01	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1	12/10/18 15:39	12/10/18 22:01	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 15:39	12/10/18 22:01	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 15:39	12/10/18 22:01	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-8 (7)**      **Lab ID: 10457121015**      Collected: 11/27/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 02:40	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 02:40	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 02:40	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:40	319-86-8	
gamma-BHC (Lindane)	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:40	58-89-9	
Chlordane (Technical)	<3.3	ug/kg	18.2	3.3	1	12/05/18 13:42	12/12/18 02:40	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 02:40	5103-71-9	
gamma-Chlordane	<0.42	ug/kg	1.8	0.42	1	12/05/18 13:42	12/12/18 02:40	5103-74-2	
4,4'-DDD	<0.33	ug/kg	3.6	0.33	1	12/05/18 13:42	12/12/18 02:40	72-54-8	
4,4'-DDE	<0.27	ug/kg	3.6	0.27	1	12/05/18 13:42	12/12/18 02:40	72-55-9	
4,4'-DDT	<0.46	ug/kg	3.6	0.46	1	12/05/18 13:42	12/12/18 02:40	50-29-3	
Dieldrin	<0.35	ug/kg	3.6	0.35	1	12/05/18 13:42	12/12/18 02:40	60-57-1	
Endosulfan I	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 02:40	959-98-8	
Endosulfan II	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 02:40	33213-65-9	
Endosulfan sulfate	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 02:40	1031-07-8	
Endrin	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 02:40	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.6	1.1	1	12/05/18 13:42	12/12/18 02:40	7421-93-4	
Endrin ketone	<0.43	ug/kg	3.6	0.43	1	12/05/18 13:42	12/12/18 02:40	53494-70-5	
Heptachlor	<0.20	ug/kg	1.8	0.20	1	12/05/18 13:42	12/12/18 02:40	76-44-8	
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 02:40	1024-57-3	
Methoxychlor	<2.7	ug/kg	18.2	2.7	1	12/05/18 13:42	12/12/18 02:40	72-43-5	
Toxaphene	<8.6	ug/kg	54.5	8.6	1	12/05/18 13:42	12/12/18 02:40	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	102	%	30-150		1	12/05/18 13:42	12/12/18 02:40	877-09-8	
Decachlorobiphenyl (S)	91	%	30-150		1	12/05/18 13:42	12/12/18 02:40	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.0	ug/kg	35.9	10.0	1	12/05/18 09:53	12/10/18 22:18	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.6	ug/kg	35.9	12.6	1	12/05/18 09:53	12/10/18 22:18	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.4	ug/kg	35.9	14.4	1	12/05/18 09:53	12/10/18 22:18	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.2	ug/kg	35.9	12.2	1	12/05/18 09:53	12/10/18 22:18	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.8	ug/kg	35.9	10.8	1	12/05/18 09:53	12/10/18 22:18	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.6	ug/kg	35.9	10.6	1	12/05/18 09:53	12/10/18 22:18	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.6	ug/kg	35.9	8.6	1	12/05/18 09:53	12/10/18 22:18	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	48-125		1	12/05/18 09:53	12/10/18 22:18	877-09-8	
Decachlorobiphenyl (S)	109	%	30-134		1	12/05/18 09:53	12/10/18 22:18	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	7.6J	mg/kg	15.8	2.6	1	12/04/18 18:01	12/12/18 16:24	68334-30-5	
Motor Oil Range	<4.6	mg/kg	10.5	4.6	1	12/04/18 18:01	12/12/18 16:24		
<b>Surrogates</b>									
n-Triacontane (S)	104	%	50-150		1	12/04/18 18:01	12/12/18 16:24	638-68-6	
o-Terphenyl (S)	102	%	50-150		1	12/04/18 18:01	12/12/18 16:24	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-8 (7)**      **Lab ID: 10457121015**      Collected: 11/27/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.70	mg/kg	5.3	0.70	1	12/10/18 16:17	12/11/18 02:20		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/10/18 16:17	12/11/18 02:20	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.40	mg/kg	1.1	0.40	1	12/06/18 14:27	12/07/18 19:19	7440-36-0	
Arsenic	1.1J	mg/kg	1.1	0.22	1	12/06/18 14:27	12/07/18 19:19	7440-38-2	
Beryllium	0.37	mg/kg	0.26	0.014	1	12/06/18 14:27	12/07/18 19:19	7440-41-7	
Cadmium	0.047J	mg/kg	0.16	0.021	1	12/06/18 14:27	12/07/18 19:19	7440-43-9	
Chromium	3.7	mg/kg	0.53	0.090	1	12/06/18 14:27	12/07/18 19:19	7440-47-3	
Copper	10.9	mg/kg	0.53	0.058	1	12/06/18 14:27	12/07/18 19:19	7440-50-8	
Lead	6.6	mg/kg	0.53	0.12	1	12/06/18 14:27	12/07/18 19:19	7439-92-1	
Nickel	2.9	mg/kg	1.1	0.066	1	12/06/18 14:27	12/07/18 19:19	7440-02-0	
Selenium	<0.35	mg/kg	1.1	0.35	1	12/06/18 14:27	12/07/18 19:19	7782-49-2	
Silver	<0.038	mg/kg	0.53	0.038	1	12/06/18 14:27	12/07/18 19:19	7440-22-4	
Thallium	<0.24	mg/kg	1.1	0.24	1	12/06/18 14:27	12/07/18 19:19	7440-28-0	
Zinc	35.6	mg/kg	1.1	0.46	1	12/06/18 14:27	12/07/18 19:19	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.023	mg/kg	0.021	0.0082	1	12/06/18 14:29	12/12/18 15:58	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	8.6	%	0.10	0.10	1		12/12/18 12:01		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<38.4	ug/kg	360	38.4	1	12/03/18 15:17	12/05/18 02:31	83-32-9	
Acenaphthylene	<45.9	ug/kg	360	45.9	1	12/03/18 15:17	12/05/18 02:31	208-96-8	
Anthracene	<42.2	ug/kg	360	42.2	1	12/03/18 15:17	12/05/18 02:31	120-12-7	
Benzo(a)anthracene	<37.0	ug/kg	360	37.0	1	12/03/18 15:17	12/05/18 02:31	56-55-3	
Benzo(a)pyrene	<40.8	ug/kg	360	40.8	1	12/03/18 15:17	12/05/18 02:31	50-32-8	
Benzo(b)fluoranthene	<35.2	ug/kg	360	35.2	1	12/03/18 15:17	12/05/18 02:31	205-99-2	
Benzo(g,h,i)perylene	<38.5	ug/kg	360	38.5	1	12/03/18 15:17	12/05/18 02:31	191-24-2	
Benzo(k)fluoranthene	<44.9	ug/kg	360	44.9	1	12/03/18 15:17	12/05/18 02:31	207-08-9	
4-Bromophenylphenyl ether	<42.9	ug/kg	360	42.9	1	12/03/18 15:17	12/05/18 02:31	101-55-3	
Butylbenzylphthalate	<32.9	ug/kg	360	32.9	1	12/03/18 15:17	12/05/18 02:31	85-68-7	
Carbazole	<29.9	ug/kg	360	29.9	1	12/03/18 15:17	12/05/18 02:31	86-74-8	
4-Chloro-3-methylphenol	<57.6	ug/kg	360	57.6	1	12/03/18 15:17	12/05/18 02:31	59-50-7	
4-Chloroaniline	<95.9	ug/kg	360	95.9	1	12/03/18 15:17	12/05/18 02:31	106-47-8	
bis(2-Chloroethoxy)methane	<36.9	ug/kg	360	36.9	1	12/03/18 15:17	12/05/18 02:31	111-91-1	
bis(2-Chloroethyl) ether	<28.5	ug/kg	360	28.5	1	12/03/18 15:17	12/05/18 02:31	111-44-4	
bis(2-Chloroisopropyl) ether	<37.1	ug/kg	360	37.1	1	12/03/18 15:17	12/05/18 02:31	108-60-1	
2-Chloronaphthalene	<31.8	ug/kg	360	31.8	1	12/03/18 15:17	12/05/18 02:31	91-58-7	
2-Chlorophenol	<41.0	ug/kg	360	41.0	1	12/03/18 15:17	12/05/18 02:31	95-57-8	
4-Chlorophenylphenyl ether	<44.6	ug/kg	360	44.6	1	12/03/18 15:17	12/05/18 02:31	7005-72-3	
Chrysene	<38.0	ug/kg	360	38.0	1	12/03/18 15:17	12/05/18 02:31	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-8 (7)**      **Lab ID: 10457121015**      Collected: 11/27/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<38.3	ug/kg	360	38.3	1	12/03/18 15:17	12/05/18 02:31	53-70-3	
Dibenzofuran	<45.6	ug/kg	360	45.6	1	12/03/18 15:17	12/05/18 02:31	132-64-9	
1,2-Dichlorobenzene	<37.7	ug/kg	360	37.7	1	12/03/18 15:17	12/05/18 02:31	95-50-1	
1,3-Dichlorobenzene	<24.6	ug/kg	360	24.6	1	12/03/18 15:17	12/05/18 02:31	541-73-1	
1,4-Dichlorobenzene	<40.0	ug/kg	360	40.0	1	12/03/18 15:17	12/05/18 02:31	106-46-7	
3,3'-Dichlorobenzidine	<121	ug/kg	360	121	1	12/03/18 15:17	12/05/18 02:31	91-94-1	
2,4-Dichlorophenol	<60.1	ug/kg	360	60.1	1	12/03/18 15:17	12/05/18 02:31	120-83-2	
Diethylphthalate	<32.1	ug/kg	360	32.1	1	12/03/18 15:17	12/05/18 02:31	84-66-2	
2,4-Dimethylphenol	<141	ug/kg	360	141	1	12/03/18 15:17	12/05/18 02:31	105-67-9	
Dimethylphthalate	<48.9	ug/kg	360	48.9	1	12/03/18 15:17	12/05/18 02:31	131-11-3	
Di-n-butylphthalate	<49.3	ug/kg	360	49.3	1	12/03/18 15:17	12/05/18 02:31	84-74-2	
4,6-Dinitro-2-methylphenol	<357	ug/kg	1850	357	1	12/03/18 15:17	12/05/18 02:31	534-52-1	
2,4-Dinitrophenol	<168	ug/kg	360	168	1	12/03/18 15:17	12/05/18 02:31	51-28-5	
2,4-Dinitrotoluene	<45.8	ug/kg	360	45.8	1	12/03/18 15:17	12/05/18 02:31	121-14-2	
2,6-Dinitrotoluene	<47.7	ug/kg	360	47.7	1	12/03/18 15:17	12/05/18 02:31	606-20-2	
Di-n-octylphthalate	<41.8	ug/kg	360	41.8	1	12/03/18 15:17	12/05/18 02:31	117-84-0	
1,2-Diphenylhydrazine	<44.2	ug/kg	360	44.2	1	12/03/18 15:17	12/05/18 02:31	122-66-7	
bis(2-Ethylhexyl)phthalate	<75.0	ug/kg	360	75.0	1	12/03/18 15:17	12/05/18 02:31	117-81-7	
Fluoranthene	<41.3	ug/kg	360	41.3	1	12/03/18 15:17	12/05/18 02:31	206-44-0	
Fluorene	<165	ug/kg	360	165	1	12/03/18 15:17	12/05/18 02:31	86-73-7	
Hexachloro-1,3-butadiene	<54.7	ug/kg	360	54.7	1	12/03/18 15:17	12/05/18 02:31	87-68-3	
Hexachlorobenzene	<58.7	ug/kg	360	58.7	1	12/03/18 15:17	12/05/18 02:31	118-74-1	
Hexachloroethane	<46.8	ug/kg	360	46.8	1	12/03/18 15:17	12/05/18 02:31	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.7	ug/kg	360	21.7	1	12/03/18 15:17	12/05/18 02:31	193-39-5	
Isophorone	<27.7	ug/kg	360	27.7	1	12/03/18 15:17	12/05/18 02:31	78-59-1	
1-Methylnaphthalene	<33.3	ug/kg	360	33.3	1	12/03/18 15:17	12/05/18 02:31	90-12-0	
2-Methylnaphthalene	<32.5	ug/kg	360	32.5	1	12/03/18 15:17	12/05/18 02:31	91-57-6	
2-Methylphenol(o-Cresol)	<22.5	ug/kg	360	22.5	1	12/03/18 15:17	12/05/18 02:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.3	ug/kg	720	20.3	1	12/03/18 15:17	12/05/18 02:31		
Naphthalene	<27.7	ug/kg	360	27.7	1	12/03/18 15:17	12/05/18 02:31	91-20-3	
2-Nitroaniline	<90.3	ug/kg	360	90.3	1	12/03/18 15:17	12/05/18 02:31	88-74-4	
3-Nitroaniline	<39.3	ug/kg	360	39.3	1	12/03/18 15:17	12/05/18 02:31	99-09-2	
4-Nitroaniline	<52.6	ug/kg	360	52.6	1	12/03/18 15:17	12/05/18 02:31	100-01-6	
Nitrobenzene	<39.6	ug/kg	360	39.6	1	12/03/18 15:17	12/05/18 02:31	98-95-3	
2-Nitrophenol	<43.8	ug/kg	360	43.8	1	12/03/18 15:17	12/05/18 02:31	88-75-5	
4-Nitrophenol	<69.8	ug/kg	360	69.8	1	12/03/18 15:17	12/05/18 02:31	100-02-7	
N-Nitrosodimethylamine	<44.2	ug/kg	360	44.2	1	12/03/18 15:17	12/05/18 02:31	62-75-9	
N-Nitroso-di-n-propylamine	<165	ug/kg	360	165	1	12/03/18 15:17	12/05/18 02:31	621-64-7	
N-Nitrosodiphenylamine	<23.3	ug/kg	360	23.3	1	12/03/18 15:17	12/05/18 02:31	86-30-6	
Pentachlorophenol	<210	ug/kg	731	210	1	12/03/18 15:17	12/05/18 02:31	87-86-5	
Phenanthrene	<41.9	ug/kg	360	41.9	1	12/03/18 15:17	12/05/18 02:31	85-01-8	
Phenol	<23.6	ug/kg	360	23.6	1	12/03/18 15:17	12/05/18 02:31	108-95-2	
Pyrene	<27.4	ug/kg	360	27.4	1	12/03/18 15:17	12/05/18 02:31	129-00-0	
1,2,4-Trichlorobenzene	<39.5	ug/kg	360	39.5	1	12/03/18 15:17	12/05/18 02:31	120-82-1	
2,4,5-Trichlorophenol	<46.4	ug/kg	360	46.4	1	12/03/18 15:17	12/05/18 02:31	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-8 (7)**      **Lab ID: 10457121015**      Collected: 11/27/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<55.7	ug/kg	360	55.7	1	12/03/18 15:17	12/05/18 02:31	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	63	%	43-125		1	12/03/18 15:17	12/05/18 02:31	4165-60-0	
2-Fluorobiphenyl (S)	75	%	30-132		1	12/03/18 15:17	12/05/18 02:31	321-60-8	
p-Terphenyl-d14 (S)	85	%	62-125		1	12/03/18 15:17	12/05/18 02:31	1718-51-0	
Phenol-d6 (S)	74	%	48-125		1	12/03/18 15:17	12/05/18 02:31	13127-88-3	
2-Fluorophenol (S)	68	%	40-125		1	12/03/18 15:17	12/05/18 02:31	367-12-4	
2,4,6-Tribromophenol (S)	82	%	60-125		1	12/03/18 15:17	12/05/18 02:31	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.23	ug/kg	4.0	0.23	1	03/04/19 09:00	03/04/19 19:31	106-93-4	
Methylene Chloride	<3.7	ug/kg	19.9	3.7	1	03/04/19 09:00	03/04/19 19:31	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	117	%	75-125		1	03/04/19 09:00	03/04/19 19:31	17060-07-0	3M,H3
Toluene-d8 (S)	100	%	75-125		1	03/04/19 09:00	03/04/19 19:31	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 19:31	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<17.7	ug/kg	56.3	17.7	1	12/10/18 15:39	12/11/18 00:37	630-20-6	
1,1,1-Trichloroethane	<26.2	ug/kg	56.3	26.2	1	12/10/18 15:39	12/11/18 00:37	71-55-6	
1,1,2,2-Tetrachloroethane	<9.9	ug/kg	56.3	9.9	1	12/10/18 15:39	12/11/18 00:37	79-34-5	
1,1,2-Trichloroethane	<6.7	ug/kg	56.3	6.7	1	12/10/18 15:39	12/11/18 00:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	<65.3	ug/kg	225	65.3	1	12/10/18 15:39	12/11/18 00:37	76-13-1	
1,1-Dichloroethane	<6.3	ug/kg	56.3	6.3	1	12/10/18 15:39	12/11/18 00:37	75-34-3	
1,1-Dichloroethene	<16.9	ug/kg	56.3	16.9	1	12/10/18 15:39	12/11/18 00:37	75-35-4	
1,1-Dichloropropene	<26.0	ug/kg	56.3	26.0	1	12/10/18 15:39	12/11/18 00:37	563-58-6	
1,2,3-Trichlorobenzene	<9.0	ug/kg	56.3	9.0	1	12/10/18 15:39	12/11/18 00:37	87-61-6	
1,2,3-Trichloropropane	<14.8	ug/kg	225	14.8	1	12/10/18 15:39	12/11/18 00:37	96-18-4	
1,2,4-Trichlorobenzene	<12.5	ug/kg	56.3	12.5	1	12/10/18 15:39	12/11/18 00:37	120-82-1	
1,2,4-Trimethylbenzene	<11.3	ug/kg	56.3	11.3	1	12/10/18 15:39	12/11/18 00:37	95-63-6	
1,2-Dibromo-3-chloropropane	<196	ug/kg	563	196	1	12/10/18 15:39	12/11/18 00:37	96-12-8	
1,2-Dibromoethane (EDB)	<5.9	ug/kg	56.3	5.9	1	12/10/18 15:39	12/11/18 00:37	106-93-4	
1,2-Dichlorobenzene	<2.3	ug/kg	56.3	2.3	1	12/10/18 15:39	12/11/18 00:37	95-50-1	
1,2-Dichloroethane	<6.2	ug/kg	56.3	6.2	1	12/10/18 15:39	12/11/18 00:37	107-06-2	
1,2-Dichloropropane	<9.7	ug/kg	56.3	9.7	1	12/10/18 15:39	12/11/18 00:37	78-87-5	
1,3,5-Trimethylbenzene	<9.0	ug/kg	56.3	9.0	1	12/10/18 15:39	12/11/18 00:37	108-67-8	
1,3-Dichlorobenzene	<2.0	ug/kg	56.3	2.0	1	12/10/18 15:39	12/11/18 00:37	541-73-1	
1,3-Dichloropropane	<7.8	ug/kg	56.3	7.8	1	12/10/18 15:39	12/11/18 00:37	142-28-9	
1,4-Dichlorobenzene	<3.5	ug/kg	56.3	3.5	1	12/10/18 15:39	12/11/18 00:37	106-46-7	
2,2-Dichloropropane	<7.0	ug/kg	225	7.0	1	12/10/18 15:39	12/11/18 00:37	594-20-7	
2-Butanone (MEK)	<30.0	ug/kg	282	30.0	1	12/10/18 15:39	12/11/18 00:37	78-93-3	
2-Chlorotoluene	<2.8	ug/kg	56.3	2.8	1	12/10/18 15:39	12/11/18 00:37	95-49-8	
4-Chlorotoluene	<2.9	ug/kg	56.3	2.9	1	12/10/18 15:39	12/11/18 00:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	<11.7	ug/kg	282	11.7	1	12/10/18 15:39	12/11/18 00:37	108-10-1	
Acetone	<350	ug/kg	1130	350	1	12/10/18 15:39	12/11/18 00:37	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-8 (7)**      **Lab ID: 10457121015**      Collected: 11/27/18 12:30      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<47.2	ug/kg	225	47.2	1	12/10/18 15:39	12/11/18 00:37	107-05-1	
Benzene	<b>3.8J</b>	ug/kg	22.5	3.2	1	12/10/18 15:39	12/11/18 00:37	71-43-2	B
Bromobenzene	<3.5	ug/kg	56.3	3.5	1	12/10/18 15:39	12/11/18 00:37	108-86-1	
Bromochloromethane	<19.5	ug/kg	56.3	19.5	1	12/10/18 15:39	12/11/18 00:37	74-97-5	
Bromodichloromethane	<19.3	ug/kg	56.3	19.3	1	12/10/18 15:39	12/11/18 00:37	75-27-4	
Bromoform	<85.3	ug/kg	225	85.3	1	12/10/18 15:39	12/11/18 00:37	75-25-2	
Bromomethane	<65.9	ug/kg	563	65.9	1	12/10/18 15:39	12/11/18 00:37	74-83-9	
Carbon tetrachloride	<26.9	ug/kg	56.3	26.9	1	12/10/18 15:39	12/11/18 00:37	56-23-5	
Chlorobenzene	<3.2	ug/kg	56.3	3.2	1	12/10/18 15:39	12/11/18 00:37	108-90-7	
Chloroethane	<29.3	ug/kg	563	29.3	1	12/10/18 15:39	12/11/18 00:37	75-00-3	
Chloroform	<28.2	ug/kg	56.3	28.2	1	12/10/18 15:39	12/11/18 00:37	67-66-3	
Chloromethane	<13.5	ug/kg	225	13.5	1	12/10/18 15:39	12/11/18 00:37	74-87-3	
Dibromochloromethane	<6.5	ug/kg	225	6.5	1	12/10/18 15:39	12/11/18 00:37	124-48-1	
Dibromomethane	<10.3	ug/kg	56.3	10.3	1	12/10/18 15:39	12/11/18 00:37	74-95-3	
Dichlorodifluoromethane	<18.2	ug/kg	225	18.2	1	12/10/18 15:39	12/11/18 00:37	75-71-8	
Dichlorofluoromethane	<77.8	ug/kg	563	77.8	1	12/10/18 15:39	12/11/18 00:37	75-43-4	N2
Diethyl ether (Ethyl ether)	<34.5	ug/kg	225	34.5	1	12/10/18 15:39	12/11/18 00:37	60-29-7	
Ethylbenzene	<3.1	ug/kg	56.3	3.1	1	12/10/18 15:39	12/11/18 00:37	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/kg	282	13.7	1	12/10/18 15:39	12/11/18 00:37	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/kg	56.3	2.5	1	12/10/18 15:39	12/11/18 00:37	98-82-8	
Methyl-tert-butyl ether	<6.7	ug/kg	56.3	6.7	1	12/10/18 15:39	12/11/18 00:37	1634-04-4	
Methylene Chloride	<b>137J</b>	ug/kg	225	106	1	12/10/18 15:39	12/11/18 00:37	75-09-2	
Naphthalene	<52.7	ug/kg	225	52.7	1	12/10/18 15:39	12/11/18 00:37	91-20-3	
Styrene	<2.6	ug/kg	56.3	2.6	1	12/10/18 15:39	12/11/18 00:37	100-42-5	
Tetrachloroethene	<19.8	ug/kg	56.3	19.8	1	12/10/18 15:39	12/11/18 00:37	127-18-4	
Tetrahydrofuran	<81.9	ug/kg	2250	81.9	1	12/10/18 15:39	12/11/18 00:37	109-99-9	
Toluene	<13.7	ug/kg	56.3	13.7	1	12/10/18 15:39	12/11/18 00:37	108-88-3	
Trichloroethene	<8.7	ug/kg	56.3	8.7	1	12/10/18 15:39	12/11/18 00:37	79-01-6	
Trichlorofluoromethane	<98.2	ug/kg	225	98.2	1	12/10/18 15:39	12/11/18 00:37	75-69-4	L2
Vinyl chloride	<11.1	ug/kg	22.5	11.1	1	12/10/18 15:39	12/11/18 00:37	75-01-4	
Xylene (Total)	<13.1	ug/kg	169	13.1	1	12/10/18 15:39	12/11/18 00:37	1330-20-7	
cis-1,2-Dichloroethene	<9.3	ug/kg	56.3	9.3	1	12/10/18 15:39	12/11/18 00:37	156-59-2	
cis-1,3-Dichloropropene	<8.1	ug/kg	56.3	8.1	1	12/10/18 15:39	12/11/18 00:37	10061-01-5	
n-Butylbenzene	<26.8	ug/kg	56.3	26.8	1	12/10/18 15:39	12/11/18 00:37	104-51-8	
n-Propylbenzene	<3.0	ug/kg	56.3	3.0	1	12/10/18 15:39	12/11/18 00:37	103-65-1	
p-Isopropyltoluene	<17.1	ug/kg	56.3	17.1	1	12/10/18 15:39	12/11/18 00:37	99-87-6	
sec-Butylbenzene	<10.8	ug/kg	56.3	10.8	1	12/10/18 15:39	12/11/18 00:37	135-98-8	
tert-Butylbenzene	<10.8	ug/kg	56.3	10.8	1	12/10/18 15:39	12/11/18 00:37	98-06-6	
trans-1,2-Dichloroethene	<26.4	ug/kg	56.3	26.4	1	12/10/18 15:39	12/11/18 00:37	156-60-5	
trans-1,3-Dichloropropene	<7.8	ug/kg	56.3	7.8	1	12/10/18 15:39	12/11/18 00:37	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1	12/10/18 15:39	12/11/18 00:37	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 15:39	12/11/18 00:37	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 15:39	12/11/18 00:37	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (6)**      **Lab ID: 10457121016**      Collected: 11/27/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<b>0.87J</b>	ug/kg	2.5	0.25	1	12/05/18 13:42	12/12/18 02:59	309-00-2	
alpha-BHC	<b>0.51J</b>	ug/kg	2.5	0.18	1	12/05/18 13:42	12/12/18 02:59	319-84-6	
beta-BHC	<b>&lt;0.33</b>	ug/kg	2.5	0.33	1	12/05/18 13:42	12/12/18 02:59	319-85-7	
delta-BHC	<b>&lt;0.20</b>	ug/kg	2.5	0.20	1	12/05/18 13:42	12/12/18 02:59	319-86-8	
gamma-BHC (Lindane)	<b>&lt;0.21</b>	ug/kg	2.5	0.21	1	12/05/18 13:42	12/12/18 02:59	58-89-9	
Chlordane (Technical)	<b>&lt;4.5</b>	ug/kg	24.6	4.5	1	12/05/18 13:42	12/12/18 02:59	57-74-9	
alpha-Chlordane	<b>&lt;0.20</b>	ug/kg	2.5	0.20	1	12/05/18 13:42	12/12/18 02:59	5103-71-9	
gamma-Chlordane	<b>&lt;0.57</b>	ug/kg	2.5	0.57	1	12/05/18 13:42	12/12/18 02:59	5103-74-2	
4,4'-DDD	<b>&lt;0.45</b>	ug/kg	4.9	0.45	1	12/05/18 13:42	12/12/18 02:59	72-54-8	
4,4'-DDE	<b>&lt;0.37</b>	ug/kg	4.9	0.37	1	12/05/18 13:42	12/12/18 02:59	72-55-9	
4,4'-DDT	<b>&lt;0.62</b>	ug/kg	4.9	0.62	1	12/05/18 13:42	12/12/18 02:59	50-29-3	
Dieldrin	<b>&lt;0.47</b>	ug/kg	4.9	0.47	1	12/05/18 13:42	12/12/18 02:59	60-57-1	
Endosulfan I	<b>&lt;0.22</b>	ug/kg	2.5	0.22	1	12/05/18 13:42	12/12/18 02:59	959-98-8	
Endosulfan II	<b>&lt;0.50</b>	ug/kg	4.9	0.50	1	12/05/18 13:42	12/12/18 02:59	33213-65-9	
Endosulfan sulfate	<b>&lt;0.51</b>	ug/kg	4.9	0.51	1	12/05/18 13:42	12/12/18 02:59	1031-07-8	
Endrin	<b>&lt;0.44</b>	ug/kg	4.9	0.44	1	12/05/18 13:42	12/12/18 02:59	72-20-8	
Endrin aldehyde	<b>&lt;1.5</b>	ug/kg	4.9	1.5	1	12/05/18 13:42	12/12/18 02:59	7421-93-4	
Endrin ketone	<b>&lt;0.58</b>	ug/kg	4.9	0.58	1	12/05/18 13:42	12/12/18 02:59	53494-70-5	
Heptachlor	<b>0.58J</b>	ug/kg	2.5	0.27	1	12/05/18 13:42	12/12/18 02:59	76-44-8	
Heptachlor epoxide	<b>&lt;0.23</b>	ug/kg	2.5	0.23	1	12/05/18 13:42	12/12/18 02:59	1024-57-3	
Methoxychlor	<b>&lt;3.7</b>	ug/kg	24.6	3.7	1	12/05/18 13:42	12/12/18 02:59	72-43-5	
Toxaphene	<b>&lt;11.7</b>	ug/kg	73.7	11.7	1	12/05/18 13:42	12/12/18 02:59	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	88	%	30-150		1	12/05/18 13:42	12/12/18 02:59	877-09-8	
Decachlorobiphenyl (S)	68	%	30-150		1	12/05/18 13:42	12/12/18 02:59	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<b>&lt;13.6</b>	ug/kg	48.9	13.6	1	12/05/18 09:53	12/10/18 22:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<b>&lt;17.2</b>	ug/kg	48.9	17.2	1	12/05/18 09:53	12/10/18 22:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<b>&lt;19.6</b>	ug/kg	48.9	19.6	1	12/05/18 09:53	12/10/18 22:34	11141-16-5	
PCB-1242 (Aroclor 1242)	<b>&lt;16.6</b>	ug/kg	48.9	16.6	1	12/05/18 09:53	12/10/18 22:34	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>&lt;14.7</b>	ug/kg	48.9	14.7	1	12/05/18 09:53	12/10/18 22:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>&lt;14.4</b>	ug/kg	48.9	14.4	1	12/05/18 09:53	12/10/18 22:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>&lt;11.7</b>	ug/kg	48.9	11.7	1	12/05/18 09:53	12/10/18 22:34	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	92	%	48-125		1	12/05/18 09:53	12/10/18 22:34	877-09-8	
Decachlorobiphenyl (S)	110	%	30-134		1	12/05/18 09:53	12/10/18 22:34	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<b>&lt;3.6</b>	mg/kg	22.1	3.6	1	12/04/18 18:01	12/12/18 16:35	68334-30-5	
Motor Oil Range	<b>8.1J</b>	mg/kg	14.7	6.4	1	12/04/18 18:01	12/12/18 16:35		
<b>Surrogates</b>									
n-Triacontane (S)	123	%	50-150		1	12/04/18 18:01	12/12/18 16:35	638-68-6	
o-Terphenyl (S)	116	%	50-150		1	12/04/18 18:01	12/12/18 16:35	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (6)**      **Lab ID: 10457121016**      Collected: 11/27/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.94	mg/kg	7.1	0.94	1	12/10/18 16:17	12/11/18 02:54		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	108	%	50-150		1	12/10/18 16:17	12/11/18 02:54	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.51	mg/kg	1.4	0.51	1	12/06/18 14:27	12/07/18 19:22	7440-36-0	
Arsenic	1.1J	mg/kg	1.4	0.28	1	12/06/18 14:27	12/07/18 19:22	7440-38-2	
Beryllium	0.51	mg/kg	0.34	0.018	1	12/06/18 14:27	12/07/18 19:22	7440-41-7	
Cadmium	0.085J	mg/kg	0.20	0.027	1	12/06/18 14:27	12/07/18 19:22	7440-43-9	
Chromium	6.8	mg/kg	0.68	0.12	1	12/06/18 14:27	12/07/18 19:22	7440-47-3	
Copper	12.6	mg/kg	0.68	0.076	1	12/06/18 14:27	12/07/18 19:22	7440-50-8	
Lead	2.7	mg/kg	0.68	0.15	1	12/06/18 14:27	12/07/18 19:22	7439-92-1	
Nickel	4.2	mg/kg	1.4	0.086	1	12/06/18 14:27	12/07/18 19:22	7440-02-0	
Selenium	<0.45	mg/kg	1.4	0.45	1	12/06/18 14:27	12/07/18 19:22	7782-49-2	
Silver	<0.050	mg/kg	0.68	0.050	1	12/06/18 14:27	12/07/18 19:22	7440-22-4	
Thallium	<0.31	mg/kg	1.4	0.31	1	12/06/18 14:27	12/07/18 19:22	7440-28-0	
Zinc	53.2	mg/kg	1.4	0.60	1	12/06/18 14:27	12/07/18 19:22	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.011	mg/kg	0.028	0.011	1	12/06/18 14:29	12/12/18 16:01	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	32.8	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<52.0	ug/kg	488	52.0	1	12/03/18 15:17	12/05/18 03:00	83-32-9	
Acenaphthylene	<62.2	ug/kg	488	62.2	1	12/03/18 15:17	12/05/18 03:00	208-96-8	
Anthracene	<57.2	ug/kg	488	57.2	1	12/03/18 15:17	12/05/18 03:00	120-12-7	
Benzo(a)anthracene	<50.1	ug/kg	488	50.1	1	12/03/18 15:17	12/05/18 03:00	56-55-3	
Benzo(a)pyrene	<55.3	ug/kg	488	55.3	1	12/03/18 15:17	12/05/18 03:00	50-32-8	
Benzo(b)fluoranthene	<47.7	ug/kg	488	47.7	1	12/03/18 15:17	12/05/18 03:00	205-99-2	
Benzo(g,h,i)perylene	<52.2	ug/kg	488	52.2	1	12/03/18 15:17	12/05/18 03:00	191-24-2	
Benzo(k)fluoranthene	<60.9	ug/kg	488	60.9	1	12/03/18 15:17	12/05/18 03:00	207-08-9	
4-Bromophenylphenyl ether	<58.1	ug/kg	488	58.1	1	12/03/18 15:17	12/05/18 03:00	101-55-3	
Butylbenzylphthalate	<44.6	ug/kg	488	44.6	1	12/03/18 15:17	12/05/18 03:00	85-68-7	
Carbazole	<40.5	ug/kg	488	40.5	1	12/03/18 15:17	12/05/18 03:00	86-74-8	
4-Chloro-3-methylphenol	<78.0	ug/kg	488	78.0	1	12/03/18 15:17	12/05/18 03:00	59-50-7	
4-Chloroaniline	<130	ug/kg	488	130	1	12/03/18 15:17	12/05/18 03:00	106-47-8	
bis(2-Chloroethoxy)methane	<49.9	ug/kg	488	49.9	1	12/03/18 15:17	12/05/18 03:00	111-91-1	
bis(2-Chloroethyl) ether	<38.6	ug/kg	488	38.6	1	12/03/18 15:17	12/05/18 03:00	111-44-4	
bis(2-Chloroisopropyl) ether	<50.2	ug/kg	488	50.2	1	12/03/18 15:17	12/05/18 03:00	108-60-1	
2-Chloronaphthalene	<43.1	ug/kg	488	43.1	1	12/03/18 15:17	12/05/18 03:00	91-58-7	
2-Chlorophenol	<55.6	ug/kg	488	55.6	1	12/03/18 15:17	12/05/18 03:00	95-57-8	
4-Chlorophenylphenyl ether	<60.4	ug/kg	488	60.4	1	12/03/18 15:17	12/05/18 03:00	7005-72-3	
Chrysene	<51.4	ug/kg	488	51.4	1	12/03/18 15:17	12/05/18 03:00	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (6)**      **Lab ID: 10457121016**      Collected: 11/27/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<51.9	ug/kg	488	51.9	1	12/03/18 15:17	12/05/18 03:00	53-70-3	
Dibenzofuran	<61.8	ug/kg	488	61.8	1	12/03/18 15:17	12/05/18 03:00	132-64-9	
1,2-Dichlorobenzene	<51.1	ug/kg	488	51.1	1	12/03/18 15:17	12/05/18 03:00	95-50-1	
1,3-Dichlorobenzene	<33.4	ug/kg	488	33.4	1	12/03/18 15:17	12/05/18 03:00	541-73-1	
1,4-Dichlorobenzene	<54.2	ug/kg	488	54.2	1	12/03/18 15:17	12/05/18 03:00	106-46-7	
3,3'-Dichlorobenzidine	<164	ug/kg	488	164	1	12/03/18 15:17	12/05/18 03:00	91-94-1	
2,4-Dichlorophenol	<81.4	ug/kg	488	81.4	1	12/03/18 15:17	12/05/18 03:00	120-83-2	
Diethylphthalate	<43.4	ug/kg	488	43.4	1	12/03/18 15:17	12/05/18 03:00	84-66-2	
2,4-Dimethylphenol	<191	ug/kg	488	191	1	12/03/18 15:17	12/05/18 03:00	105-67-9	
Dimethylphthalate	<66.2	ug/kg	488	66.2	1	12/03/18 15:17	12/05/18 03:00	131-11-3	
Di-n-butylphthalate	<66.8	ug/kg	488	66.8	1	12/03/18 15:17	12/05/18 03:00	84-74-2	
4,6-Dinitro-2-methylphenol	<483	ug/kg	2510	483	1	12/03/18 15:17	12/05/18 03:00	534-52-1	
2,4-Dinitrophenol	<228	ug/kg	488	228	1	12/03/18 15:17	12/05/18 03:00	51-28-5	
2,4-Dinitrotoluene	<62.1	ug/kg	488	62.1	1	12/03/18 15:17	12/05/18 03:00	121-14-2	
2,6-Dinitrotoluene	<64.6	ug/kg	488	64.6	1	12/03/18 15:17	12/05/18 03:00	606-20-2	
Di-n-octylphthalate	<56.6	ug/kg	488	56.6	1	12/03/18 15:17	12/05/18 03:00	117-84-0	
1,2-Diphenylhydrazine	<59.8	ug/kg	488	59.8	1	12/03/18 15:17	12/05/18 03:00	122-66-7	
bis(2-Ethylhexyl)phthalate	<102	ug/kg	488	102	1	12/03/18 15:17	12/05/18 03:00	117-81-7	
Fluoranthene	<56.0	ug/kg	488	56.0	1	12/03/18 15:17	12/05/18 03:00	206-44-0	
Fluorene	<223	ug/kg	488	223	1	12/03/18 15:17	12/05/18 03:00	86-73-7	
Hexachloro-1,3-butadiene	<74.2	ug/kg	488	74.2	1	12/03/18 15:17	12/05/18 03:00	87-68-3	
Hexachlorobenzene	<79.5	ug/kg	488	79.5	1	12/03/18 15:17	12/05/18 03:00	118-74-1	
Hexachloroethane	<63.4	ug/kg	488	63.4	1	12/03/18 15:17	12/05/18 03:00	67-72-1	
Indeno(1,2,3-cd)pyrene	<29.4	ug/kg	488	29.4	1	12/03/18 15:17	12/05/18 03:00	193-39-5	
Isophorone	<37.5	ug/kg	488	37.5	1	12/03/18 15:17	12/05/18 03:00	78-59-1	
1-Methylnaphthalene	<45.1	ug/kg	488	45.1	1	12/03/18 15:17	12/05/18 03:00	90-12-0	
2-Methylnaphthalene	<44.0	ug/kg	488	44.0	1	12/03/18 15:17	12/05/18 03:00	91-57-6	
2-Methylphenol(o-Cresol)	<30.4	ug/kg	488	30.4	1	12/03/18 15:17	12/05/18 03:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	<27.5	ug/kg	975	27.5	1	12/03/18 15:17	12/05/18 03:00		
Naphthalene	<37.5	ug/kg	488	37.5	1	12/03/18 15:17	12/05/18 03:00	91-20-3	
2-Nitroaniline	<122	ug/kg	488	122	1	12/03/18 15:17	12/05/18 03:00	88-74-4	
3-Nitroaniline	<53.2	ug/kg	488	53.2	1	12/03/18 15:17	12/05/18 03:00	99-09-2	
4-Nitroaniline	<71.2	ug/kg	488	71.2	1	12/03/18 15:17	12/05/18 03:00	100-01-6	
Nitrobenzene	<53.6	ug/kg	488	53.6	1	12/03/18 15:17	12/05/18 03:00	98-95-3	
2-Nitrophenol	<59.4	ug/kg	488	59.4	1	12/03/18 15:17	12/05/18 03:00	88-75-5	
4-Nitrophenol	<94.6	ug/kg	488	94.6	1	12/03/18 15:17	12/05/18 03:00	100-02-7	
N-Nitrosodimethylamine	<59.8	ug/kg	488	59.8	1	12/03/18 15:17	12/05/18 03:00	62-75-9	
N-Nitroso-di-n-propylamine	<223	ug/kg	488	223	1	12/03/18 15:17	12/05/18 03:00	621-64-7	
N-Nitrosodiphenylamine	<31.6	ug/kg	488	31.6	1	12/03/18 15:17	12/05/18 03:00	86-30-6	
Pentachlorophenol	<285	ug/kg	990	285	1	12/03/18 15:17	12/05/18 03:00	87-86-5	
Phenanthrene	<56.7	ug/kg	488	56.7	1	12/03/18 15:17	12/05/18 03:00	85-01-8	
Phenol	<31.9	ug/kg	488	31.9	1	12/03/18 15:17	12/05/18 03:00	108-95-2	
Pyrene	<37.1	ug/kg	488	37.1	1	12/03/18 15:17	12/05/18 03:00	129-00-0	
1,2,4-Trichlorobenzene	<53.5	ug/kg	488	53.5	1	12/03/18 15:17	12/05/18 03:00	120-82-1	
2,4,5-Trichlorophenol	<62.8	ug/kg	488	62.8	1	12/03/18 15:17	12/05/18 03:00	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (6)**      **Lab ID: 10457121016**      Collected: 11/27/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<75.5	ug/kg	488	75.5	1	12/03/18 15:17	12/05/18 03:00	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	43	%	43-125		1	12/03/18 15:17	12/05/18 03:00	4165-60-0	
2-Fluorobiphenyl (S)	66	%	30-132		1	12/03/18 15:17	12/05/18 03:00	321-60-8	
p-Terphenyl-d14 (S)	82	%	62-125		1	12/03/18 15:17	12/05/18 03:00	1718-51-0	
Phenol-d6 (S)	53	%	48-125		1	12/03/18 15:17	12/05/18 03:00	13127-88-3	
2-Fluorophenol (S)	41	%	40-125		1	12/03/18 15:17	12/05/18 03:00	367-12-4	
2,4,6-Tribromophenol (S)	82	%	60-125		1	12/03/18 15:17	12/05/18 03:00	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.32	ug/kg	5.7	0.32	1	03/04/19 09:00	03/04/19 19:50	106-93-4	
Methylene Chloride	<5.2	ug/kg	28.4	5.2	1	03/04/19 09:00	03/04/19 19:50	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	123	%	75-125		1	03/04/19 09:00	03/04/19 19:50	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/04/19 09:00	03/04/19 19:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/04/19 09:00	03/04/19 19:50	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<444	ug/kg	1430	444	1	12/10/18 15:39	12/11/18 00:54	67-64-1	
Allyl chloride	<59.9	ug/kg	286	59.9	1	12/10/18 15:39	12/11/18 00:54	107-05-1	
Benzene	<4.0	ug/kg	28.6	4.0	1	12/10/18 15:39	12/11/18 00:54	71-43-2	
Bromobenzene	<4.4	ug/kg	71.4	4.4	1	12/10/18 15:39	12/11/18 00:54	108-86-1	
Bromochloromethane	<24.7	ug/kg	71.4	24.7	1	12/10/18 15:39	12/11/18 00:54	74-97-5	
Bromodichloromethane	<24.4	ug/kg	71.4	24.4	1	12/10/18 15:39	12/11/18 00:54	75-27-4	
Bromoform	<108	ug/kg	286	108	1	12/10/18 15:39	12/11/18 00:54	75-25-2	
Bromomethane	<83.6	ug/kg	714	83.6	1	12/10/18 15:39	12/11/18 00:54	74-83-9	
2-Butanone (MEK)	<38.0	ug/kg	357	38.0	1	12/10/18 15:39	12/11/18 00:54	78-93-3	
n-Butylbenzene	<34.0	ug/kg	71.4	34.0	1	12/10/18 15:39	12/11/18 00:54	104-51-8	
sec-Butylbenzene	<13.7	ug/kg	71.4	13.7	1	12/10/18 15:39	12/11/18 00:54	135-98-8	
tert-Butylbenzene	<13.7	ug/kg	71.4	13.7	1	12/10/18 15:39	12/11/18 00:54	98-06-6	
Carbon tetrachloride	<34.2	ug/kg	71.4	34.2	1	12/10/18 15:39	12/11/18 00:54	56-23-5	
Chlorobenzene	<4.0	ug/kg	71.4	4.0	1	12/10/18 15:39	12/11/18 00:54	108-90-7	
Chloroethane	<37.2	ug/kg	714	37.2	1	12/10/18 15:39	12/11/18 00:54	75-00-3	
Chloroform	<35.7	ug/kg	71.4	35.7	1	12/10/18 15:39	12/11/18 00:54	67-66-3	
Chloromethane	<17.1	ug/kg	286	17.1	1	12/10/18 15:39	12/11/18 00:54	74-87-3	
2-Chlorotoluene	<3.5	ug/kg	71.4	3.5	1	12/10/18 15:39	12/11/18 00:54	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	71.4	3.7	1	12/10/18 15:39	12/11/18 00:54	106-43-4	
1,2-Dibromo-3-chloropropane	<249	ug/kg	714	249	1	12/10/18 15:39	12/11/18 00:54	96-12-8	
Dibromochloromethane	<8.3	ug/kg	286	8.3	1	12/10/18 15:39	12/11/18 00:54	124-48-1	
1,2-Dibromoethane (EDB)	<7.5	ug/kg	71.4	7.5	1	12/10/18 15:39	12/11/18 00:54	106-93-4	
Dibromomethane	<13.1	ug/kg	71.4	13.1	1	12/10/18 15:39	12/11/18 00:54	74-95-3	
1,2-Dichlorobenzene	<2.9	ug/kg	71.4	2.9	1	12/10/18 15:39	12/11/18 00:54	95-50-1	
1,3-Dichlorobenzene	<2.6	ug/kg	71.4	2.6	1	12/10/18 15:39	12/11/18 00:54	541-73-1	
1,4-Dichlorobenzene	<4.4	ug/kg	71.4	4.4	1	12/10/18 15:39	12/11/18 00:54	106-46-7	
Dichlorodifluoromethane	<23.1	ug/kg	286	23.1	1	12/10/18 15:39	12/11/18 00:54	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (6)**      **Lab ID: 10457121016**      Collected: 11/27/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<8.0	ug/kg	71.4	8.0	1	12/10/18 15:39	12/11/18 00:54	75-34-3	
1,2-Dichloroethane	<7.9	ug/kg	71.4	7.9	1	12/10/18 15:39	12/11/18 00:54	107-06-2	
1,1-Dichloroethene	<21.4	ug/kg	71.4	21.4	1	12/10/18 15:39	12/11/18 00:54	75-35-4	
cis-1,2-Dichloroethene	<11.8	ug/kg	71.4	11.8	1	12/10/18 15:39	12/11/18 00:54	156-59-2	
trans-1,2-Dichloroethene	<33.4	ug/kg	71.4	33.4	1	12/10/18 15:39	12/11/18 00:54	156-60-5	
Dichlorofluoromethane	<98.7	ug/kg	714	98.7	1	12/10/18 15:39	12/11/18 00:54	75-43-4	N2
1,2-Dichloropropane	<12.3	ug/kg	71.4	12.3	1	12/10/18 15:39	12/11/18 00:54	78-87-5	
1,3-Dichloropropane	<9.9	ug/kg	71.4	9.9	1	12/10/18 15:39	12/11/18 00:54	142-28-9	
2,2-Dichloropropane	<8.9	ug/kg	286	8.9	1	12/10/18 15:39	12/11/18 00:54	594-20-7	
1,1-Dichloropropene	<33.0	ug/kg	71.4	33.0	1	12/10/18 15:39	12/11/18 00:54	563-58-6	
cis-1,3-Dichloropropene	<10.2	ug/kg	71.4	10.2	1	12/10/18 15:39	12/11/18 00:54	10061-01-5	
trans-1,3-Dichloropropene	<9.9	ug/kg	71.4	9.9	1	12/10/18 15:39	12/11/18 00:54	10061-02-6	
Diethyl ether (Ethyl ether)	<43.7	ug/kg	286	43.7	1	12/10/18 15:39	12/11/18 00:54	60-29-7	
Ethylbenzene	<3.9	ug/kg	71.4	3.9	1	12/10/18 15:39	12/11/18 00:54	100-41-4	
Hexachloro-1,3-butadiene	<17.4	ug/kg	357	17.4	1	12/10/18 15:39	12/11/18 00:54	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	71.4	3.2	1	12/10/18 15:39	12/11/18 00:54	98-82-8	
p-Isopropyltoluene	<21.7	ug/kg	71.4	21.7	1	12/10/18 15:39	12/11/18 00:54	99-87-6	
Methylene Chloride	<134	ug/kg	286	134	1	12/10/18 15:39	12/11/18 00:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<14.9	ug/kg	357	14.9	1	12/10/18 15:39	12/11/18 00:54	108-10-1	
Methyl-tert-butyl ether	<8.5	ug/kg	71.4	8.5	1	12/10/18 15:39	12/11/18 00:54	1634-04-4	
Naphthalene	<66.9	ug/kg	286	66.9	1	12/10/18 15:39	12/11/18 00:54	91-20-3	
n-Propylbenzene	<3.8	ug/kg	71.4	3.8	1	12/10/18 15:39	12/11/18 00:54	103-65-1	
Styrene	<3.3	ug/kg	71.4	3.3	1	12/10/18 15:39	12/11/18 00:54	100-42-5	
1,1,1,2-Tetrachloroethane	<22.4	ug/kg	71.4	22.4	1	12/10/18 15:39	12/11/18 00:54	630-20-6	
1,1,1,2,2-Tetrachloroethane	<12.6	ug/kg	71.4	12.6	1	12/10/18 15:39	12/11/18 00:54	79-34-5	
Tetrachloroethene	<25.1	ug/kg	71.4	25.1	1	12/10/18 15:39	12/11/18 00:54	127-18-4	
Tetrahydrofuran	<104	ug/kg	2860	104	1	12/10/18 15:39	12/11/18 00:54	109-99-9	
Toluene	<17.4	ug/kg	71.4	17.4	1	12/10/18 15:39	12/11/18 00:54	108-88-3	
1,2,3-Trichlorobenzene	<11.4	ug/kg	71.4	11.4	1	12/10/18 15:39	12/11/18 00:54	87-61-6	
1,2,4-Trichlorobenzene	<15.9	ug/kg	71.4	15.9	1	12/10/18 15:39	12/11/18 00:54	120-82-1	
1,1,1-Trichloroethane	<33.3	ug/kg	71.4	33.3	1	12/10/18 15:39	12/11/18 00:54	71-55-6	
1,1,2-Trichloroethane	<8.5	ug/kg	71.4	8.5	1	12/10/18 15:39	12/11/18 00:54	79-00-5	
Trichloroethene	<11.0	ug/kg	71.4	11.0	1	12/10/18 15:39	12/11/18 00:54	79-01-6	
Trichlorofluoromethane	<125	ug/kg	286	125	1	12/10/18 15:39	12/11/18 00:54	75-69-4	L2
1,2,3-Trichloropropane	<18.7	ug/kg	286	18.7	1	12/10/18 15:39	12/11/18 00:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<82.9	ug/kg	286	82.9	1	12/10/18 15:39	12/11/18 00:54	76-13-1	
1,2,4-Trimethylbenzene	<14.3	ug/kg	71.4	14.3	1	12/10/18 15:39	12/11/18 00:54	95-63-6	
1,3,5-Trimethylbenzene	<11.4	ug/kg	71.4	11.4	1	12/10/18 15:39	12/11/18 00:54	108-67-8	
Vinyl chloride	<14.1	ug/kg	28.6	14.1	1	12/10/18 15:39	12/11/18 00:54	75-01-4	
Xylene (Total)	<16.6	ug/kg	214	16.6	1	12/10/18 15:39	12/11/18 00:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1	12/10/18 15:39	12/11/18 00:54	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/10/18 15:39	12/11/18 00:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/10/18 15:39	12/11/18 00:54	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (8)**      **Lab ID: 10457121017**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.27	ug/kg	2.7	0.27	1	12/05/18 13:42	12/12/18 03:17	309-00-2	
alpha-BHC	<0.20	ug/kg	2.7	0.20	1	12/05/18 13:42	12/12/18 03:17	319-84-6	
beta-BHC	0.90J	ug/kg	2.7	0.36	1	12/05/18 13:42	12/12/18 03:17	319-85-7	
delta-BHC	<0.23	ug/kg	2.7	0.23	1	12/05/18 13:42	12/12/18 03:17	319-86-8	
gamma-BHC (Lindane)	<0.23	ug/kg	2.7	0.23	1	12/05/18 13:42	12/12/18 03:17	58-89-9	
Chlordane (Technical)	<5.0	ug/kg	27.3	5.0	1	12/05/18 13:42	12/12/18 03:17	57-74-9	
alpha-Chlordane	<0.22	ug/kg	2.7	0.22	1	12/05/18 13:42	12/12/18 03:17	5103-71-9	
gamma-Chlordane	<0.63	ug/kg	2.7	0.63	1	12/05/18 13:42	12/12/18 03:17	5103-74-2	
4,4'-DDD	2.0J	ug/kg	5.4	0.49	1	12/05/18 13:42	12/12/18 03:17	72-54-8	
4,4'-DDE	3.8J	ug/kg	5.4	0.40	1	12/05/18 13:42	12/12/18 03:17	72-55-9	
4,4'-DDT	3.2J	ug/kg	5.4	0.68	1	12/05/18 13:42	12/12/18 03:17	50-29-3	
Dieldrin	<0.53	ug/kg	5.4	0.53	1	12/05/18 13:42	12/12/18 03:17	60-57-1	
Endosulfan I	<0.24	ug/kg	2.7	0.24	1	12/05/18 13:42	12/12/18 03:17	959-98-8	
Endosulfan II	<0.55	ug/kg	5.4	0.55	1	12/05/18 13:42	12/12/18 03:17	33213-65-9	
Endosulfan sulfate	<0.56	ug/kg	5.4	0.56	1	12/05/18 13:42	12/12/18 03:17	1031-07-8	
Endrin	<0.48	ug/kg	5.4	0.48	1	12/05/18 13:42	12/12/18 03:17	72-20-8	
Endrin aldehyde	<1.7	ug/kg	5.4	1.7	1	12/05/18 13:42	12/12/18 03:17	7421-93-4	
Endrin ketone	<0.64	ug/kg	5.4	0.64	1	12/05/18 13:42	12/12/18 03:17	53494-70-5	
Heptachlor	<0.29	ug/kg	2.7	0.29	1	12/05/18 13:42	12/12/18 03:17	76-44-8	
Heptachlor epoxide	<0.26	ug/kg	2.7	0.26	1	12/05/18 13:42	12/12/18 03:17	1024-57-3	
Methoxychlor	<4.1	ug/kg	27.3	4.1	1	12/05/18 13:42	12/12/18 03:17	72-43-5	
Toxaphene	<12.9	ug/kg	81.6	12.9	1	12/05/18 13:42	12/12/18 03:17	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	98	%	30-150		1	12/05/18 13:42	12/12/18 03:17	877-09-8	
Decachlorobiphenyl (S)	84	%	30-150		1	12/05/18 13:42	12/12/18 03:17	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<15.0	ug/kg	53.7	15.0	1	12/05/18 09:53	12/10/18 22:50	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.9	ug/kg	53.7	18.9	1	12/05/18 09:53	12/10/18 22:50	11104-28-2	
PCB-1232 (Aroclor 1232)	<21.5	ug/kg	53.7	21.5	1	12/05/18 09:53	12/10/18 22:50	11141-16-5	
PCB-1242 (Aroclor 1242)	194	ug/kg	53.7	18.2	1	12/05/18 09:53	12/10/18 22:50	53469-21-9	
PCB-1248 (Aroclor 1248)	<16.1	ug/kg	53.7	16.1	1	12/05/18 09:53	12/10/18 22:50	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.8	ug/kg	53.7	15.8	1	12/05/18 09:53	12/10/18 22:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<12.8	ug/kg	53.7	12.8	1	12/05/18 09:53	12/10/18 22:50	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	48-125		1	12/05/18 09:53	12/10/18 22:50	877-09-8	
Decachlorobiphenyl (S)	98	%	30-134		1	12/05/18 09:53	12/10/18 22:50	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	180	mg/kg	23.9	3.9	1	12/04/18 18:01	12/12/18 16:47	68334-30-5	
Motor Oil Range	184	mg/kg	16.0	6.9	1	12/04/18 18:01	12/12/18 16:47		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 16:47	638-68-6	
o-Terphenyl (S)	107	%	50-150		1	12/04/18 18:01	12/12/18 16:47	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (8)**      **Lab ID: 10457121017**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	9.4	1.2	1	12/10/18 16:17	12/11/18 03:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/10/18 16:17	12/11/18 03:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.57	mg/kg	1.5	0.57	1	12/06/18 14:27	12/07/18 19:25	7440-36-0	
Arsenic	1.1J	mg/kg	1.5	0.31	1	12/06/18 14:27	12/07/18 19:25	7440-38-2	
Beryllium	0.42	mg/kg	0.38	0.020	1	12/06/18 14:27	12/07/18 19:25	7440-41-7	
Cadmium	0.033J	mg/kg	0.23	0.030	1	12/06/18 14:27	12/07/18 19:25	7440-43-9	
Chromium	6.4	mg/kg	0.75	0.13	1	12/06/18 14:27	12/07/18 19:25	7440-47-3	
Copper	12.2	mg/kg	0.75	0.083	1	12/06/18 14:27	12/07/18 19:25	7440-50-8	
Lead	3.4	mg/kg	0.75	0.17	1	12/06/18 14:27	12/07/18 19:25	7439-92-1	
Nickel	3.9	mg/kg	1.5	0.094	1	12/06/18 14:27	12/07/18 19:25	7440-02-0	
Selenium	<0.49	mg/kg	1.5	0.49	1	12/06/18 14:27	12/07/18 19:25	7782-49-2	
Silver	<0.054	mg/kg	0.75	0.054	1	12/06/18 14:27	12/07/18 19:25	7440-22-4	
Thallium	<0.35	mg/kg	1.5	0.35	1	12/06/18 14:27	12/07/18 19:25	7440-28-0	
Zinc	47.7	mg/kg	1.5	0.66	1	12/06/18 14:27	12/07/18 19:25	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.012	mg/kg	0.030	0.012	1	12/06/18 14:29	12/12/18 16:03	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	38.9	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<57.2	ug/kg	536	57.2	1	12/03/18 15:17	12/05/18 03:29	83-32-9	
Acenaphthylene	<68.4	ug/kg	536	68.4	1	12/03/18 15:17	12/05/18 03:29	208-96-8	
Anthracene	<62.9	ug/kg	536	62.9	1	12/03/18 15:17	12/05/18 03:29	120-12-7	
Benzo(a)anthracene	<55.1	ug/kg	536	55.1	1	12/03/18 15:17	12/05/18 03:29	56-55-3	
Benzo(a)pyrene	<60.8	ug/kg	536	60.8	1	12/03/18 15:17	12/05/18 03:29	50-32-8	
Benzo(b)fluoranthene	<52.5	ug/kg	536	52.5	1	12/03/18 15:17	12/05/18 03:29	205-99-2	
Benzo(g,h,i)perylene	<57.4	ug/kg	536	57.4	1	12/03/18 15:17	12/05/18 03:29	191-24-2	
Benzo(k)fluoranthene	<67.0	ug/kg	536	67.0	1	12/03/18 15:17	12/05/18 03:29	207-08-9	
4-Bromophenylphenyl ether	<63.9	ug/kg	536	63.9	1	12/03/18 15:17	12/05/18 03:29	101-55-3	
Butylbenzylphthalate	<49.1	ug/kg	536	49.1	1	12/03/18 15:17	12/05/18 03:29	85-68-7	
Carbazole	<44.5	ug/kg	536	44.5	1	12/03/18 15:17	12/05/18 03:29	86-74-8	
4-Chloro-3-methylphenol	<85.8	ug/kg	536	85.8	1	12/03/18 15:17	12/05/18 03:29	59-50-7	
4-Chloroaniline	<143	ug/kg	536	143	1	12/03/18 15:17	12/05/18 03:29	106-47-8	
bis(2-Chloroethoxy)methane	<54.9	ug/kg	536	54.9	1	12/03/18 15:17	12/05/18 03:29	111-91-1	
bis(2-Chloroethyl) ether	<42.4	ug/kg	536	42.4	1	12/03/18 15:17	12/05/18 03:29	111-44-4	
bis(2-Chloroisopropyl) ether	<55.3	ug/kg	536	55.3	1	12/03/18 15:17	12/05/18 03:29	108-60-1	
2-Chloronaphthalene	<47.5	ug/kg	536	47.5	1	12/03/18 15:17	12/05/18 03:29	91-58-7	
2-Chlorophenol	<61.1	ug/kg	536	61.1	1	12/03/18 15:17	12/05/18 03:29	95-57-8	
4-Chlorophenylphenyl ether	<66.5	ug/kg	536	66.5	1	12/03/18 15:17	12/05/18 03:29	7005-72-3	
Chrysene	<56.6	ug/kg	536	56.6	1	12/03/18 15:17	12/05/18 03:29	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (8)**      **Lab ID: 10457121017**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<57.0	ug/kg	536	57.0	1	12/03/18 15:17	12/05/18 03:29	53-70-3	
Dibenzofuran	<67.9	ug/kg	536	67.9	1	12/03/18 15:17	12/05/18 03:29	132-64-9	
1,2-Dichlorobenzene	<56.2	ug/kg	536	56.2	1	12/03/18 15:17	12/05/18 03:29	95-50-1	
1,3-Dichlorobenzene	<36.7	ug/kg	536	36.7	1	12/03/18 15:17	12/05/18 03:29	541-73-1	
1,4-Dichlorobenzene	<59.7	ug/kg	536	59.7	1	12/03/18 15:17	12/05/18 03:29	106-46-7	
3,3'-Dichlorobenzidine	<180	ug/kg	536	180	1	12/03/18 15:17	12/05/18 03:29	91-94-1	
2,4-Dichlorophenol	<89.6	ug/kg	536	89.6	1	12/03/18 15:17	12/05/18 03:29	120-83-2	
Diethylphthalate	<47.8	ug/kg	536	47.8	1	12/03/18 15:17	12/05/18 03:29	84-66-2	
2,4-Dimethylphenol	<210	ug/kg	536	210	1	12/03/18 15:17	12/05/18 03:29	105-67-9	
Dimethylphthalate	<72.8	ug/kg	536	72.8	1	12/03/18 15:17	12/05/18 03:29	131-11-3	
Di-n-butylphthalate	<73.5	ug/kg	536	73.5	1	12/03/18 15:17	12/05/18 03:29	84-74-2	
4,6-Dinitro-2-methylphenol	<531	ug/kg	2760	531	1	12/03/18 15:17	12/05/18 03:29	534-52-1	
2,4-Dinitrophenol	<250	ug/kg	536	250	1	12/03/18 15:17	12/05/18 03:29	51-28-5	
2,4-Dinitrotoluene	<68.3	ug/kg	536	68.3	1	12/03/18 15:17	12/05/18 03:29	121-14-2	
2,6-Dinitrotoluene	<71.0	ug/kg	536	71.0	1	12/03/18 15:17	12/05/18 03:29	606-20-2	
Di-n-octylphthalate	<62.3	ug/kg	536	62.3	1	12/03/18 15:17	12/05/18 03:29	117-84-0	
1,2-Diphenylhydrazine	<65.8	ug/kg	536	65.8	1	12/03/18 15:17	12/05/18 03:29	122-66-7	
bis(2-Ethylhexyl)phthalate	<112	ug/kg	536	112	1	12/03/18 15:17	12/05/18 03:29	117-81-7	
Fluoranthene	<61.6	ug/kg	536	61.6	1	12/03/18 15:17	12/05/18 03:29	206-44-0	
Fluorene	<245	ug/kg	536	245	1	12/03/18 15:17	12/05/18 03:29	86-73-7	
Hexachloro-1,3-butadiene	<81.6	ug/kg	536	81.6	1	12/03/18 15:17	12/05/18 03:29	87-68-3	
Hexachlorobenzene	<87.4	ug/kg	536	87.4	1	12/03/18 15:17	12/05/18 03:29	118-74-1	
Hexachloroethane	<69.7	ug/kg	536	69.7	1	12/03/18 15:17	12/05/18 03:29	67-72-1	
Indeno(1,2,3-cd)pyrene	<32.3	ug/kg	536	32.3	1	12/03/18 15:17	12/05/18 03:29	193-39-5	
Isophorone	<41.3	ug/kg	536	41.3	1	12/03/18 15:17	12/05/18 03:29	78-59-1	
1-Methylnaphthalene	<49.6	ug/kg	536	49.6	1	12/03/18 15:17	12/05/18 03:29	90-12-0	
2-Methylnaphthalene	<48.4	ug/kg	536	48.4	1	12/03/18 15:17	12/05/18 03:29	91-57-6	
2-Methylphenol(o-Cresol)	<33.5	ug/kg	536	33.5	1	12/03/18 15:17	12/05/18 03:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	<30.2	ug/kg	1070	30.2	1	12/03/18 15:17	12/05/18 03:29		
Naphthalene	<41.3	ug/kg	536	41.3	1	12/03/18 15:17	12/05/18 03:29	91-20-3	
2-Nitroaniline	<135	ug/kg	536	135	1	12/03/18 15:17	12/05/18 03:29	88-74-4	
3-Nitroaniline	<58.5	ug/kg	536	58.5	1	12/03/18 15:17	12/05/18 03:29	99-09-2	
4-Nitroaniline	<78.3	ug/kg	536	78.3	1	12/03/18 15:17	12/05/18 03:29	100-01-6	
Nitrobenzene	<59.0	ug/kg	536	59.0	1	12/03/18 15:17	12/05/18 03:29	98-95-3	
2-Nitrophenol	<65.3	ug/kg	536	65.3	1	12/03/18 15:17	12/05/18 03:29	88-75-5	
4-Nitrophenol	<104	ug/kg	536	104	1	12/03/18 15:17	12/05/18 03:29	100-02-7	
N-Nitrosodimethylamine	<65.8	ug/kg	536	65.8	1	12/03/18 15:17	12/05/18 03:29	62-75-9	
N-Nitroso-di-n-propylamine	<245	ug/kg	536	245	1	12/03/18 15:17	12/05/18 03:29	621-64-7	
N-Nitrosodiphenylamine	<34.8	ug/kg	536	34.8	1	12/03/18 15:17	12/05/18 03:29	86-30-6	
Pentachlorophenol	<314	ug/kg	1090	314	1	12/03/18 15:17	12/05/18 03:29	87-86-5	
Phenanthrene	<62.4	ug/kg	536	62.4	1	12/03/18 15:17	12/05/18 03:29	85-01-8	
Phenol	<35.1	ug/kg	536	35.1	1	12/03/18 15:17	12/05/18 03:29	108-95-2	
Pyrene	<40.8	ug/kg	536	40.8	1	12/03/18 15:17	12/05/18 03:29	129-00-0	
1,2,4-Trichlorobenzene	<58.8	ug/kg	536	58.8	1	12/03/18 15:17	12/05/18 03:29	120-82-1	
2,4,5-Trichlorophenol	<69.1	ug/kg	536	69.1	1	12/03/18 15:17	12/05/18 03:29	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (8)**      **Lab ID: 10457121017**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<83.1	ug/kg	536	83.1	1	12/03/18 15:17	12/05/18 03:29	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	43-125		1	12/03/18 15:17	12/05/18 03:29	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-132		1	12/03/18 15:17	12/05/18 03:29	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/03/18 15:17	12/05/18 03:29	1718-51-0	
Phenol-d6 (S)	66	%	48-125		1	12/03/18 15:17	12/05/18 03:29	13127-88-3	
2-Fluorophenol (S)	59	%	40-125		1	12/03/18 15:17	12/05/18 03:29	367-12-4	
2,4,6-Tribromophenol (S)	77	%	60-125		1	12/03/18 15:17	12/05/18 03:29	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.35	ug/kg	6.1	0.35	1	03/05/19 10:30	03/05/19 14:51	106-93-4	
Methylene Chloride	<5.6	ug/kg	30.7	5.6	1	03/05/19 10:30	03/05/19 14:51	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/05/19 10:30	03/05/19 14:51	17060-07-0	3M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 14:51	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	03/05/19 10:30	03/05/19 14:51	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<29.5	ug/kg	93.9	29.5	1	12/10/18 15:39	12/11/18 01:12	630-20-6	
1,1,1-Trichloroethane	<43.8	ug/kg	93.9	43.8	1	12/10/18 15:39	12/11/18 01:12	71-55-6	
1,1,2,2-Tetrachloroethane	<16.5	ug/kg	93.9	16.5	1	12/10/18 15:39	12/11/18 01:12	79-34-5	
1,1,2-Trichloroethane	<11.2	ug/kg	93.9	11.2	1	12/10/18 15:39	12/11/18 01:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	<109	ug/kg	376	109	1	12/10/18 15:39	12/11/18 01:12	76-13-1	
1,1-Dichloroethane	<10.5	ug/kg	93.9	10.5	1	12/10/18 15:39	12/11/18 01:12	75-34-3	
1,1-Dichloroethene	<28.2	ug/kg	93.9	28.2	1	12/10/18 15:39	12/11/18 01:12	75-35-4	
1,1-Dichloropropene	<43.4	ug/kg	93.9	43.4	1	12/10/18 15:39	12/11/18 01:12	563-58-6	
1,2,3-Trichlorobenzene	<15.0	ug/kg	93.9	15.0	1	12/10/18 15:39	12/11/18 01:12	87-61-6	
1,2,3-Trichloropropane	<24.6	ug/kg	376	24.6	1	12/10/18 15:39	12/11/18 01:12	96-18-4	
1,2,4-Trichlorobenzene	<20.9	ug/kg	93.9	20.9	1	12/10/18 15:39	12/11/18 01:12	120-82-1	
1,2,4-Trimethylbenzene	<18.8	ug/kg	93.9	18.8	1	12/10/18 15:39	12/11/18 01:12	95-63-6	
1,2-Dibromo-3-chloropropane	<327	ug/kg	939	327	1	12/10/18 15:39	12/11/18 01:12	96-12-8	
1,2-Dibromoethane (EDB)	<9.9	ug/kg	93.9	9.9	1	12/10/18 15:39	12/11/18 01:12	106-93-4	
1,2-Dichlorobenzene	<3.8	ug/kg	93.9	3.8	1	12/10/18 15:39	12/11/18 01:12	95-50-1	
1,2-Dichloroethane	<10.3	ug/kg	93.9	10.3	1	12/10/18 15:39	12/11/18 01:12	107-06-2	
1,2-Dichloropropane	<16.2	ug/kg	93.9	16.2	1	12/10/18 15:39	12/11/18 01:12	78-87-5	
1,3,5-Trimethylbenzene	<15.0	ug/kg	93.9	15.0	1	12/10/18 15:39	12/11/18 01:12	108-67-8	
1,3-Dichlorobenzene	<3.4	ug/kg	93.9	3.4	1	12/10/18 15:39	12/11/18 01:12	541-73-1	
1,3-Dichloropropane	<13.0	ug/kg	93.9	13.0	1	12/10/18 15:39	12/11/18 01:12	142-28-9	
1,4-Dichlorobenzene	<5.8	ug/kg	93.9	5.8	1	12/10/18 15:39	12/11/18 01:12	106-46-7	
2,2-Dichloropropane	<11.7	ug/kg	376	11.7	1	12/10/18 15:39	12/11/18 01:12	594-20-7	
2-Butanone (MEK)	<50.0	ug/kg	470	50.0	1	12/10/18 15:39	12/11/18 01:12	78-93-3	
2-Chlorotoluene	<4.6	ug/kg	93.9	4.6	1	12/10/18 15:39	12/11/18 01:12	95-49-8	
4-Chlorotoluene	<4.8	ug/kg	93.9	4.8	1	12/10/18 15:39	12/11/18 01:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	<19.5	ug/kg	470	19.5	1	12/10/18 15:39	12/11/18 01:12	108-10-1	
Acetone	<584	ug/kg	1880	584	1	12/10/18 15:39	12/11/18 01:12	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-9 (8)**      **Lab ID: 10457121017**      Collected: 11/27/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Allyl chloride	<78.7	ug/kg	376	78.7	1	12/10/18 15:39	12/11/18 01:12	107-05-1	
Benzene	<5.3	ug/kg	37.6	5.3	1	12/10/18 15:39	12/11/18 01:12	71-43-2	
Bromobenzene	<5.8	ug/kg	93.9	5.8	1	12/10/18 15:39	12/11/18 01:12	108-86-1	
Bromochloromethane	<32.5	ug/kg	93.9	32.5	1	12/10/18 15:39	12/11/18 01:12	74-97-5	
Bromodichloromethane	<32.1	ug/kg	93.9	32.1	1	12/10/18 15:39	12/11/18 01:12	75-27-4	
Bromoform	<142	ug/kg	376	142	1	12/10/18 15:39	12/11/18 01:12	75-25-2	
Bromomethane	<110	ug/kg	939	110	1	12/10/18 15:39	12/11/18 01:12	74-83-9	
Carbon tetrachloride	<44.9	ug/kg	93.9	44.9	1	12/10/18 15:39	12/11/18 01:12	56-23-5	
Chlorobenzene	<5.3	ug/kg	93.9	5.3	1	12/10/18 15:39	12/11/18 01:12	108-90-7	
Chloroethane	<48.8	ug/kg	939	48.8	1	12/10/18 15:39	12/11/18 01:12	75-00-3	
Chloroform	<47.0	ug/kg	93.9	47.0	1	12/10/18 15:39	12/11/18 01:12	67-66-3	
Chloromethane	<22.5	ug/kg	376	22.5	1	12/10/18 15:39	12/11/18 01:12	74-87-3	
Dibromochloromethane	<10.9	ug/kg	376	10.9	1	12/10/18 15:39	12/11/18 01:12	124-48-1	
Dibromomethane	<17.2	ug/kg	93.9	17.2	1	12/10/18 15:39	12/11/18 01:12	74-95-3	
Dichlorodifluoromethane	<30.4	ug/kg	376	30.4	1	12/10/18 15:39	12/11/18 01:12	75-71-8	
Dichlorofluoromethane	<130	ug/kg	939	130	1	12/10/18 15:39	12/11/18 01:12	75-43-4	N2
Diethyl ether (Ethyl ether)	<57.5	ug/kg	376	57.5	1	12/10/18 15:39	12/11/18 01:12	60-29-7	
Ethylbenzene	<5.1	ug/kg	93.9	5.1	1	12/10/18 15:39	12/11/18 01:12	100-41-4	
Hexachloro-1,3-butadiene	<22.9	ug/kg	470	22.9	1	12/10/18 15:39	12/11/18 01:12	87-68-3	
Isopropylbenzene (Cumene)	<4.2	ug/kg	93.9	4.2	1	12/10/18 15:39	12/11/18 01:12	98-82-8	
Methyl-tert-butyl ether	<11.2	ug/kg	93.9	11.2	1	12/10/18 15:39	12/11/18 01:12	1634-04-4	
Methylene Chloride	<177	ug/kg	376	177	1	12/10/18 15:39	12/11/18 01:12	75-09-2	
Naphthalene	<87.9	ug/kg	376	87.9	1	12/10/18 15:39	12/11/18 01:12	91-20-3	
Styrene	<4.3	ug/kg	93.9	4.3	1	12/10/18 15:39	12/11/18 01:12	100-42-5	
Tetrachloroethene	<33.1	ug/kg	93.9	33.1	1	12/10/18 15:39	12/11/18 01:12	127-18-4	
Tetrahydrofuran	<137	ug/kg	3760	137	1	12/10/18 15:39	12/11/18 01:12	109-99-9	
Toluene	<22.9	ug/kg	93.9	22.9	1	12/10/18 15:39	12/11/18 01:12	108-88-3	
Trichloroethene	<14.5	ug/kg	93.9	14.5	1	12/10/18 15:39	12/11/18 01:12	79-01-6	
Trichlorofluoromethane	<164	ug/kg	376	164	1	12/10/18 15:39	12/11/18 01:12	75-69-4	L2
Vinyl chloride	<18.5	ug/kg	37.6	18.5	1	12/10/18 15:39	12/11/18 01:12	75-01-4	
Xylene (Total)	<21.8	ug/kg	282	21.8	1	12/10/18 15:39	12/11/18 01:12	1330-20-7	
cis-1,2-Dichloroethene	<15.6	ug/kg	93.9	15.6	1	12/10/18 15:39	12/11/18 01:12	156-59-2	
cis-1,3-Dichloropropene	<13.5	ug/kg	93.9	13.5	1	12/10/18 15:39	12/11/18 01:12	10061-01-5	
n-Butylbenzene	<44.7	ug/kg	93.9	44.7	1	12/10/18 15:39	12/11/18 01:12	104-51-8	
n-Propylbenzene	<5.0	ug/kg	93.9	5.0	1	12/10/18 15:39	12/11/18 01:12	103-65-1	
p-Isopropyltoluene	<28.6	ug/kg	93.9	28.6	1	12/10/18 15:39	12/11/18 01:12	99-87-6	
sec-Butylbenzene	<18.0	ug/kg	93.9	18.0	1	12/10/18 15:39	12/11/18 01:12	135-98-8	
tert-Butylbenzene	<18.0	ug/kg	93.9	18.0	1	12/10/18 15:39	12/11/18 01:12	98-06-6	
trans-1,2-Dichloroethene	<44.0	ug/kg	93.9	44.0	1	12/10/18 15:39	12/11/18 01:12	156-60-5	
trans-1,3-Dichloropropene	<13.1	ug/kg	93.9	13.1	1	12/10/18 15:39	12/11/18 01:12	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1	12/10/18 15:39	12/11/18 01:12	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 15:39	12/11/18 01:12	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/10/18 15:39	12/11/18 01:12	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (3)**      **Lab ID: 10457121018**      Collected: 11/27/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.20	ug/kg	2.0	0.20	1	12/05/18 13:42	12/12/18 03:35	309-00-2	
alpha-BHC	<0.15	ug/kg	2.0	0.15	1	12/05/18 13:42	12/12/18 03:35	319-84-6	
beta-BHC	<0.27	ug/kg	2.0	0.27	1	12/05/18 13:42	12/12/18 03:35	319-85-7	
delta-BHC	<0.17	ug/kg	2.0	0.17	1	12/05/18 13:42	12/12/18 03:35	319-86-8	
gamma-BHC (Lindane)	<0.17	ug/kg	2.0	0.17	1	12/05/18 13:42	12/12/18 03:35	58-89-9	
Chlordane (Technical)	<3.6	ug/kg	20.0	3.6	1	12/05/18 13:42	12/12/18 03:35	57-74-9	
alpha-Chlordane	<0.16	ug/kg	2.0	0.16	1	12/05/18 13:42	12/12/18 03:35	5103-71-9	
gamma-Chlordane	<0.46	ug/kg	2.0	0.46	1	12/05/18 13:42	12/12/18 03:35	5103-74-2	
4,4'-DDD	<0.36	ug/kg	4.0	0.36	1	12/05/18 13:42	12/12/18 03:35	72-54-8	
4,4'-DDE	<0.30	ug/kg	4.0	0.30	1	12/05/18 13:42	12/12/18 03:35	72-55-9	
4,4'-DDT	<0.50	ug/kg	4.0	0.50	1	12/05/18 13:42	12/12/18 03:35	50-29-3	
Dieldrin	<0.39	ug/kg	4.0	0.39	1	12/05/18 13:42	12/12/18 03:35	60-57-1	
Endosulfan I	<0.18	ug/kg	2.0	0.18	1	12/05/18 13:42	12/12/18 03:35	959-98-8	
Endosulfan II	<0.40	ug/kg	4.0	0.40	1	12/05/18 13:42	12/12/18 03:35	33213-65-9	
Endosulfan sulfate	<0.41	ug/kg	4.0	0.41	1	12/05/18 13:42	12/12/18 03:35	1031-07-8	
Endrin	<0.36	ug/kg	4.0	0.36	1	12/05/18 13:42	12/12/18 03:35	72-20-8	
Endrin aldehyde	<1.2	ug/kg	4.0	1.2	1	12/05/18 13:42	12/12/18 03:35	7421-93-4	
Endrin ketone	<0.47	ug/kg	4.0	0.47	1	12/05/18 13:42	12/12/18 03:35	53494-70-5	
Heptachlor	<0.22	ug/kg	2.0	0.22	1	12/05/18 13:42	12/12/18 03:35	76-44-8	
Heptachlor epoxide	<0.19	ug/kg	2.0	0.19	1	12/05/18 13:42	12/12/18 03:35	1024-57-3	
Methoxychlor	<3.0	ug/kg	20.0	3.0	1	12/05/18 13:42	12/12/18 03:35	72-43-5	
Toxaphene	<9.5	ug/kg	60.0	9.5	1	12/05/18 13:42	12/12/18 03:35	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	97	%	30-150		1	12/05/18 13:42	12/12/18 03:35	877-09-8	
Decachlorobiphenyl (S)	81	%	30-150		1	12/05/18 13:42	12/12/18 03:35	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.0	ug/kg	39.5	11.0	1	12/05/18 09:53	12/10/18 23:05	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.9	ug/kg	39.5	13.9	1	12/05/18 09:53	12/10/18 23:05	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.8	ug/kg	39.5	15.8	1	12/05/18 09:53	12/10/18 23:05	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.4	ug/kg	39.5	13.4	1	12/05/18 09:53	12/10/18 23:05	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.9	ug/kg	39.5	11.9	1	12/05/18 09:53	12/10/18 23:05	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.6	ug/kg	39.5	11.6	1	12/05/18 09:53	12/10/18 23:05	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.5	ug/kg	39.5	9.5	1	12/05/18 09:53	12/10/18 23:05	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	93	%	48-125		1	12/05/18 09:53	12/10/18 23:05	877-09-8	
Decachlorobiphenyl (S)	111	%	30-134		1	12/05/18 09:53	12/10/18 23:05	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	17.9	2.9	1	12/04/18 18:01	12/12/18 16:58	68334-30-5	
Motor Oil Range	<5.2	mg/kg	11.9	5.2	1	12/04/18 18:01	12/12/18 16:58		
<b>Surrogates</b>									
n-Triacontane (S)	112	%	50-150		1	12/04/18 18:01	12/12/18 16:58	638-68-6	
o-Terphenyl (S)	107	%	50-150		1	12/04/18 18:01	12/12/18 16:58	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (3)**      **Lab ID: 10457121018**      Collected: 11/27/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.2	mg/kg	9.3	1.2	1	12/10/18 16:17	12/11/18 03:28		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/10/18 16:17	12/11/18 03:28	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.45	mg/kg	1.2	0.45	1	12/06/18 14:27	12/07/18 19:28	7440-36-0	
Arsenic	7.6	mg/kg	1.2	0.24	1	12/06/18 14:27	12/07/18 19:28	7440-38-2	
Beryllium	0.89	mg/kg	0.30	0.016	1	12/06/18 14:27	12/07/18 19:28	7440-41-7	
Cadmium	0.077J	mg/kg	0.18	0.024	1	12/06/18 14:27	12/07/18 19:28	7440-43-9	
Chromium	8.5	mg/kg	0.60	0.10	1	12/06/18 14:27	12/07/18 19:28	7440-47-3	
Copper	21.8	mg/kg	0.60	0.066	1	12/06/18 14:27	12/07/18 19:28	7440-50-8	
Lead	3.9	mg/kg	0.60	0.13	1	12/06/18 14:27	12/07/18 19:28	7439-92-1	
Nickel	14.0	mg/kg	1.2	0.075	1	12/06/18 14:27	12/07/18 19:28	7440-02-0	
Selenium	<0.39	mg/kg	1.2	0.39	1	12/06/18 14:27	12/07/18 19:28	7782-49-2	
Silver	0.12J	mg/kg	0.60	0.043	1	12/06/18 14:27	12/07/18 19:28	7440-22-4	
Thallium	<0.27	mg/kg	1.2	0.27	1	12/06/18 14:27	12/07/18 19:28	7440-28-0	
Zinc	44.0	mg/kg	1.2	0.52	1	12/06/18 14:27	12/07/18 19:28	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.020J	mg/kg	0.022	0.0088	1	12/06/18 14:29	12/12/18 16:05	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	16.9	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<42.2	ug/kg	396	42.2	1	12/03/18 15:17	12/05/18 03:59	83-32-9	
Acenaphthylene	<50.5	ug/kg	396	50.5	1	12/03/18 15:17	12/05/18 03:59	208-96-8	
Anthracene	<46.4	ug/kg	396	46.4	1	12/03/18 15:17	12/05/18 03:59	120-12-7	
Benzo(a)anthracene	<40.6	ug/kg	396	40.6	1	12/03/18 15:17	12/05/18 03:59	56-55-3	
Benzo(a)pyrene	<44.8	ug/kg	396	44.8	1	12/03/18 15:17	12/05/18 03:59	50-32-8	
Benzo(b)fluoranthene	<38.7	ug/kg	396	38.7	1	12/03/18 15:17	12/05/18 03:59	205-99-2	
Benzo(g,h,i)perylene	<42.3	ug/kg	396	42.3	1	12/03/18 15:17	12/05/18 03:59	191-24-2	
Benzo(k)fluoranthene	<49.4	ug/kg	396	49.4	1	12/03/18 15:17	12/05/18 03:59	207-08-9	
4-Bromophenylphenyl ether	<47.1	ug/kg	396	47.1	1	12/03/18 15:17	12/05/18 03:59	101-55-3	
Butylbenzylphthalate	<36.2	ug/kg	396	36.2	1	12/03/18 15:17	12/05/18 03:59	85-68-7	
Carbazole	<32.8	ug/kg	396	32.8	1	12/03/18 15:17	12/05/18 03:59	86-74-8	
4-Chloro-3-methylphenol	<63.3	ug/kg	396	63.3	1	12/03/18 15:17	12/05/18 03:59	59-50-7	
4-Chloroaniline	<105	ug/kg	396	105	1	12/03/18 15:17	12/05/18 03:59	106-47-8	
bis(2-Chloroethoxy)methane	<40.5	ug/kg	396	40.5	1	12/03/18 15:17	12/05/18 03:59	111-91-1	
bis(2-Chloroethyl) ether	<31.3	ug/kg	396	31.3	1	12/03/18 15:17	12/05/18 03:59	111-44-4	
bis(2-Chloroisopropyl) ether	<40.8	ug/kg	396	40.8	1	12/03/18 15:17	12/05/18 03:59	108-60-1	
2-Chloronaphthalene	<35.0	ug/kg	396	35.0	1	12/03/18 15:17	12/05/18 03:59	91-58-7	
2-Chlorophenol	<45.1	ug/kg	396	45.1	1	12/03/18 15:17	12/05/18 03:59	95-57-8	
4-Chlorophenylphenyl ether	<49.0	ug/kg	396	49.0	1	12/03/18 15:17	12/05/18 03:59	7005-72-3	
Chrysene	<41.7	ug/kg	396	41.7	1	12/03/18 15:17	12/05/18 03:59	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (3)**      **Lab ID: 10457121018**      Collected: 11/27/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<42.1	ug/kg	396	42.1	1	12/03/18 15:17	12/05/18 03:59	53-70-3	
Dibenzofuran	<50.1	ug/kg	396	50.1	1	12/03/18 15:17	12/05/18 03:59	132-64-9	
1,2-Dichlorobenzene	<41.5	ug/kg	396	41.5	1	12/03/18 15:17	12/05/18 03:59	95-50-1	
1,3-Dichlorobenzene	<27.1	ug/kg	396	27.1	1	12/03/18 15:17	12/05/18 03:59	541-73-1	
1,4-Dichlorobenzene	<44.0	ug/kg	396	44.0	1	12/03/18 15:17	12/05/18 03:59	106-46-7	
3,3'-Dichlorobenzidine	<133	ug/kg	396	133	1	12/03/18 15:17	12/05/18 03:59	91-94-1	
2,4-Dichlorophenol	<66.0	ug/kg	396	66.0	1	12/03/18 15:17	12/05/18 03:59	120-83-2	
Diethylphthalate	<35.2	ug/kg	396	35.2	1	12/03/18 15:17	12/05/18 03:59	84-66-2	
2,4-Dimethylphenol	<155	ug/kg	396	155	1	12/03/18 15:17	12/05/18 03:59	105-67-9	
Dimethylphthalate	<53.7	ug/kg	396	53.7	1	12/03/18 15:17	12/05/18 03:59	131-11-3	
Di-n-butylphthalate	<54.2	ug/kg	396	54.2	1	12/03/18 15:17	12/05/18 03:59	84-74-2	
4,6-Dinitro-2-methylphenol	<392	ug/kg	2040	392	1	12/03/18 15:17	12/05/18 03:59	534-52-1	
2,4-Dinitrophenol	<185	ug/kg	396	185	1	12/03/18 15:17	12/05/18 03:59	51-28-5	
2,4-Dinitrotoluene	<50.3	ug/kg	396	50.3	1	12/03/18 15:17	12/05/18 03:59	121-14-2	
2,6-Dinitrotoluene	<52.4	ug/kg	396	52.4	1	12/03/18 15:17	12/05/18 03:59	606-20-2	
Di-n-octylphthalate	<45.9	ug/kg	396	45.9	1	12/03/18 15:17	12/05/18 03:59	117-84-0	
1,2-Diphenylhydrazine	<48.5	ug/kg	396	48.5	1	12/03/18 15:17	12/05/18 03:59	122-66-7	
bis(2-Ethylhexyl)phthalate	<82.5	ug/kg	396	82.5	1	12/03/18 15:17	12/05/18 03:59	117-81-7	
Fluoranthene	<45.4	ug/kg	396	45.4	1	12/03/18 15:17	12/05/18 03:59	206-44-0	
Fluorene	<181	ug/kg	396	181	1	12/03/18 15:17	12/05/18 03:59	86-73-7	
Hexachloro-1,3-butadiene	<60.2	ug/kg	396	60.2	1	12/03/18 15:17	12/05/18 03:59	87-68-3	
Hexachlorobenzene	<64.5	ug/kg	396	64.5	1	12/03/18 15:17	12/05/18 03:59	118-74-1	
Hexachloroethane	<51.4	ug/kg	396	51.4	1	12/03/18 15:17	12/05/18 03:59	67-72-1	
Indeno(1,2,3-cd)pyrene	<23.9	ug/kg	396	23.9	1	12/03/18 15:17	12/05/18 03:59	193-39-5	
Isophorone	<30.4	ug/kg	396	30.4	1	12/03/18 15:17	12/05/18 03:59	78-59-1	
1-Methylnaphthalene	<36.6	ug/kg	396	36.6	1	12/03/18 15:17	12/05/18 03:59	90-12-0	
2-Methylnaphthalene	<35.7	ug/kg	396	35.7	1	12/03/18 15:17	12/05/18 03:59	91-57-6	
2-Methylphenol(o-Cresol)	<24.7	ug/kg	396	24.7	1	12/03/18 15:17	12/05/18 03:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.3	ug/kg	791	22.3	1	12/03/18 15:17	12/05/18 03:59		
Naphthalene	<30.4	ug/kg	396	30.4	1	12/03/18 15:17	12/05/18 03:59	91-20-3	
2-Nitroaniline	<99.3	ug/kg	396	99.3	1	12/03/18 15:17	12/05/18 03:59	88-74-4	
3-Nitroaniline	<43.2	ug/kg	396	43.2	1	12/03/18 15:17	12/05/18 03:59	99-09-2	
4-Nitroaniline	<57.8	ug/kg	396	57.8	1	12/03/18 15:17	12/05/18 03:59	100-01-6	
Nitrobenzene	<43.5	ug/kg	396	43.5	1	12/03/18 15:17	12/05/18 03:59	98-95-3	
2-Nitrophenol	<48.2	ug/kg	396	48.2	1	12/03/18 15:17	12/05/18 03:59	88-75-5	
4-Nitrophenol	<76.7	ug/kg	396	76.7	1	12/03/18 15:17	12/05/18 03:59	100-02-7	
N-Nitrosodimethylamine	<48.5	ug/kg	396	48.5	1	12/03/18 15:17	12/05/18 03:59	62-75-9	
N-Nitroso-di-n-propylamine	<181	ug/kg	396	181	1	12/03/18 15:17	12/05/18 03:59	621-64-7	
N-Nitrosodiphenylamine	<25.7	ug/kg	396	25.7	1	12/03/18 15:17	12/05/18 03:59	86-30-6	
Pentachlorophenol	<231	ug/kg	803	231	1	12/03/18 15:17	12/05/18 03:59	87-86-5	
Phenanthrene	<46.0	ug/kg	396	46.0	1	12/03/18 15:17	12/05/18 03:59	85-01-8	
Phenol	<25.9	ug/kg	396	25.9	1	12/03/18 15:17	12/05/18 03:59	108-95-2	
Pyrene	<30.1	ug/kg	396	30.1	1	12/03/18 15:17	12/05/18 03:59	129-00-0	
1,2,4-Trichlorobenzene	<43.4	ug/kg	396	43.4	1	12/03/18 15:17	12/05/18 03:59	120-82-1	
2,4,5-Trichlorophenol	<50.9	ug/kg	396	50.9	1	12/03/18 15:17	12/05/18 03:59	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (3)**      **Lab ID: 10457121018**      Collected: 11/27/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<61.3	ug/kg	396	61.3	1	12/03/18 15:17	12/05/18 03:59	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	61	%	43-125		1	12/03/18 15:17	12/05/18 03:59	4165-60-0	
2-Fluorobiphenyl (S)	68	%	30-132		1	12/03/18 15:17	12/05/18 03:59	321-60-8	
p-Terphenyl-d14 (S)	82	%	62-125		1	12/03/18 15:17	12/05/18 03:59	1718-51-0	
Phenol-d6 (S)	66	%	48-125		1	12/03/18 15:17	12/05/18 03:59	13127-88-3	
2-Fluorophenol (S)	60	%	40-125		1	12/03/18 15:17	12/05/18 03:59	367-12-4	
2,4,6-Tribromophenol (S)	69	%	60-125		1	12/03/18 15:17	12/05/18 03:59	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.7	0.27	1	03/05/19 10:30	03/05/19 15:11	106-93-4	
Methylene Chloride	<4.3	ug/kg	23.6	4.3	1	03/05/19 10:30	03/05/19 15:11	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	03/05/19 10:30	03/05/19 15:11	17060-07-0	3M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 15:11	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	03/05/19 10:30	03/05/19 15:11	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<19.1	ug/kg	60.8	19.1	1	12/10/18 15:39	12/11/18 01:29	630-20-6	
1,1,1-Trichloroethane	<28.4	ug/kg	60.8	28.4	1	12/10/18 15:39	12/11/18 01:29	71-55-6	
1,1,2,2-Tetrachloroethane	<10.7	ug/kg	60.8	10.7	1	12/10/18 15:39	12/11/18 01:29	79-34-5	
1,1,2-Trichloroethane	<7.3	ug/kg	60.8	7.3	1	12/10/18 15:39	12/11/18 01:29	79-00-5	
1,1,2-Trichlorotrifluoroethane	<70.6	ug/kg	243	70.6	1	12/10/18 15:39	12/11/18 01:29	76-13-1	
1,1-Dichloroethane	<6.8	ug/kg	60.8	6.8	1	12/10/18 15:39	12/11/18 01:29	75-34-3	
1,1-Dichloroethene	<18.3	ug/kg	60.8	18.3	1	12/10/18 15:39	12/11/18 01:29	75-35-4	
1,1-Dichloropropene	<28.1	ug/kg	60.8	28.1	1	12/10/18 15:39	12/11/18 01:29	563-58-6	
1,2,3-Trichlorobenzene	<9.7	ug/kg	60.8	9.7	1	12/10/18 15:39	12/11/18 01:29	87-61-6	
1,2,3-Trichloropropane	<15.9	ug/kg	243	15.9	1	12/10/18 15:39	12/11/18 01:29	96-18-4	
1,2,4-Trichlorobenzene	<13.5	ug/kg	60.8	13.5	1	12/10/18 15:39	12/11/18 01:29	120-82-1	
1,2,4-Trimethylbenzene	<12.2	ug/kg	60.8	12.2	1	12/10/18 15:39	12/11/18 01:29	95-63-6	
1,2-Dibromo-3-chloropropane	<212	ug/kg	608	212	1	12/10/18 15:39	12/11/18 01:29	96-12-8	
1,2-Dibromoethane (EDB)	<6.4	ug/kg	60.8	6.4	1	12/10/18 15:39	12/11/18 01:29	106-93-4	
1,2-Dichlorobenzene	<2.5	ug/kg	60.8	2.5	1	12/10/18 15:39	12/11/18 01:29	95-50-1	
1,2-Dichloroethane	<6.7	ug/kg	60.8	6.7	1	12/10/18 15:39	12/11/18 01:29	107-06-2	
1,2-Dichloropropane	<10.5	ug/kg	60.8	10.5	1	12/10/18 15:39	12/11/18 01:29	78-87-5	
1,3,5-Trimethylbenzene	<9.7	ug/kg	60.8	9.7	1	12/10/18 15:39	12/11/18 01:29	108-67-8	
1,3-Dichlorobenzene	<2.2	ug/kg	60.8	2.2	1	12/10/18 15:39	12/11/18 01:29	541-73-1	
1,3-Dichloropropane	<8.4	ug/kg	60.8	8.4	1	12/10/18 15:39	12/11/18 01:29	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/kg	60.8	3.8	1	12/10/18 15:39	12/11/18 01:29	106-46-7	
2,2-Dichloropropane	<7.6	ug/kg	243	7.6	1	12/10/18 15:39	12/11/18 01:29	594-20-7	
2-Butanone (MEK)	<32.4	ug/kg	304	32.4	1	12/10/18 15:39	12/11/18 01:29	78-93-3	
2-Chlorotoluene	<3.0	ug/kg	60.8	3.0	1	12/10/18 15:39	12/11/18 01:29	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	60.8	3.1	1	12/10/18 15:39	12/11/18 01:29	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.7	ug/kg	304	12.7	1	12/10/18 15:39	12/11/18 01:29	108-10-1	
Acetone	<378	ug/kg	1220	378	1	12/10/18 15:39	12/11/18 01:29	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (3)**      **Lab ID: 10457121018**      Collected: 11/27/18 14:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<51.0	ug/kg	243	51.0	1	12/10/18 15:39	12/11/18 01:29	107-05-1	
Benzene	<3.4	ug/kg	24.3	3.4	1	12/10/18 15:39	12/11/18 01:29	71-43-2	
Bromobenzene	<3.7	ug/kg	60.8	3.7	1	12/10/18 15:39	12/11/18 01:29	108-86-1	
Bromochloromethane	<21.1	ug/kg	60.8	21.1	1	12/10/18 15:39	12/11/18 01:29	74-97-5	
Bromodichloromethane	<20.8	ug/kg	60.8	20.8	1	12/10/18 15:39	12/11/18 01:29	75-27-4	
Bromoform	<92.1	ug/kg	243	92.1	1	12/10/18 15:39	12/11/18 01:29	75-25-2	
Bromomethane	<71.2	ug/kg	608	71.2	1	12/10/18 15:39	12/11/18 01:29	74-83-9	
Carbon tetrachloride	<29.1	ug/kg	60.8	29.1	1	12/10/18 15:39	12/11/18 01:29	56-23-5	
Chlorobenzene	<3.4	ug/kg	60.8	3.4	1	12/10/18 15:39	12/11/18 01:29	108-90-7	
Chloroethane	<31.6	ug/kg	608	31.6	1	12/10/18 15:39	12/11/18 01:29	75-00-3	
Chloroform	<30.4	ug/kg	60.8	30.4	1	12/10/18 15:39	12/11/18 01:29	67-66-3	
Chloromethane	<14.6	ug/kg	243	14.6	1	12/10/18 15:39	12/11/18 01:29	74-87-3	
Dibromochloromethane	<7.1	ug/kg	243	7.1	1	12/10/18 15:39	12/11/18 01:29	124-48-1	
Dibromomethane	<11.2	ug/kg	60.8	11.2	1	12/10/18 15:39	12/11/18 01:29	74-95-3	
Dichlorodifluoromethane	<19.7	ug/kg	243	19.7	1	12/10/18 15:39	12/11/18 01:29	75-71-8	
Dichlorofluoromethane	<84.1	ug/kg	608	84.1	1	12/10/18 15:39	12/11/18 01:29	75-43-4	N2
Diethyl ether (Ethyl ether)	<37.2	ug/kg	243	37.2	1	12/10/18 15:39	12/11/18 01:29	60-29-7	
Ethylbenzene	<3.3	ug/kg	60.8	3.3	1	12/10/18 15:39	12/11/18 01:29	100-41-4	
Hexachloro-1,3-butadiene	<14.8	ug/kg	304	14.8	1	12/10/18 15:39	12/11/18 01:29	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	60.8	2.7	1	12/10/18 15:39	12/11/18 01:29	98-82-8	
Methyl-tert-butyl ether	<7.2	ug/kg	60.8	7.2	1	12/10/18 15:39	12/11/18 01:29	1634-04-4	
Methylene Chloride	117J	ug/kg	243	115	1	12/10/18 15:39	12/11/18 01:29	75-09-2	
Naphthalene	<57.0	ug/kg	243	57.0	1	12/10/18 15:39	12/11/18 01:29	91-20-3	
Styrene	<2.8	ug/kg	60.8	2.8	1	12/10/18 15:39	12/11/18 01:29	100-42-5	
Tetrachloroethene	<21.4	ug/kg	60.8	21.4	1	12/10/18 15:39	12/11/18 01:29	127-18-4	
Tetrahydrofuran	<88.5	ug/kg	2430	88.5	1	12/10/18 15:39	12/11/18 01:29	109-99-9	
Toluene	<14.8	ug/kg	60.8	14.8	1	12/10/18 15:39	12/11/18 01:29	108-88-3	
Trichloroethene	<9.4	ug/kg	60.8	9.4	1	12/10/18 15:39	12/11/18 01:29	79-01-6	
Trichlorofluoromethane	<106	ug/kg	243	106	1	12/10/18 15:39	12/11/18 01:29	75-69-4	L2
Vinyl chloride	<12.0	ug/kg	24.3	12.0	1	12/10/18 15:39	12/11/18 01:29	75-01-4	
Xylene (Total)	<14.1	ug/kg	183	14.1	1	12/10/18 15:39	12/11/18 01:29	1330-20-7	
cis-1,2-Dichloroethene	<10.1	ug/kg	60.8	10.1	1	12/10/18 15:39	12/11/18 01:29	156-59-2	
cis-1,3-Dichloropropene	<8.7	ug/kg	60.8	8.7	1	12/10/18 15:39	12/11/18 01:29	10061-01-5	
n-Butylbenzene	<29.0	ug/kg	60.8	29.0	1	12/10/18 15:39	12/11/18 01:29	104-51-8	
n-Propylbenzene	<3.2	ug/kg	60.8	3.2	1	12/10/18 15:39	12/11/18 01:29	103-65-1	
p-Isopropyltoluene	<18.5	ug/kg	60.8	18.5	1	12/10/18 15:39	12/11/18 01:29	99-87-6	
sec-Butylbenzene	<11.7	ug/kg	60.8	11.7	1	12/10/18 15:39	12/11/18 01:29	135-98-8	
tert-Butylbenzene	<11.7	ug/kg	60.8	11.7	1	12/10/18 15:39	12/11/18 01:29	98-06-6	
trans-1,2-Dichloroethene	<28.5	ug/kg	60.8	28.5	1	12/10/18 15:39	12/11/18 01:29	156-60-5	
trans-1,3-Dichloropropene	<8.5	ug/kg	60.8	8.5	1	12/10/18 15:39	12/11/18 01:29	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1	12/10/18 15:39	12/11/18 01:29	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 15:39	12/11/18 01:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	12/10/18 15:39	12/11/18 01:29	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (7)**      **Lab ID: 10457121019**      Collected: 11/27/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.18	ug/kg	1.8	0.18	1	12/05/18 13:42	12/12/18 03:54	309-00-2	
alpha-BHC	<0.13	ug/kg	1.8	0.13	1	12/05/18 13:42	12/12/18 03:54	319-84-6	
beta-BHC	<0.24	ug/kg	1.8	0.24	1	12/05/18 13:42	12/12/18 03:54	319-85-7	
delta-BHC	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 03:54	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 03:54	58-89-9	
Chlordane (Technical)	<3.3	ug/kg	18.3	3.3	1	12/05/18 13:42	12/12/18 03:54	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.8	0.15	1	12/05/18 13:42	12/12/18 03:54	5103-71-9	
gamma-Chlordane	<0.42	ug/kg	1.8	0.42	1	12/05/18 13:42	12/12/18 03:54	5103-74-2	
4,4'-DDD	<0.33	ug/kg	3.6	0.33	1	12/05/18 13:42	12/12/18 03:54	72-54-8	
4,4'-DDE	4.6	ug/kg	3.6	0.27	1	12/05/18 13:42	12/12/18 03:54	72-55-9	
4,4'-DDT	0.83J	ug/kg	3.6	0.46	1	12/05/18 13:42	12/12/18 03:54	50-29-3	
Dieldrin	<0.35	ug/kg	3.6	0.35	1	12/05/18 13:42	12/12/18 03:54	60-57-1	
Endosulfan I	<0.16	ug/kg	1.8	0.16	1	12/05/18 13:42	12/12/18 03:54	959-98-8	
Endosulfan II	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 03:54	33213-65-9	
Endosulfan sulfate	<0.37	ug/kg	3.6	0.37	1	12/05/18 13:42	12/12/18 03:54	1031-07-8	
Endrin	<0.32	ug/kg	3.6	0.32	1	12/05/18 13:42	12/12/18 03:54	72-20-8	
Endrin aldehyde	<1.1	ug/kg	3.6	1.1	1	12/05/18 13:42	12/12/18 03:54	7421-93-4	
Endrin ketone	<0.43	ug/kg	3.6	0.43	1	12/05/18 13:42	12/12/18 03:54	53494-70-5	
Heptachlor	<0.20	ug/kg	1.8	0.20	1	12/05/18 13:42	12/12/18 03:54	76-44-8	
Heptachlor epoxide	<0.17	ug/kg	1.8	0.17	1	12/05/18 13:42	12/12/18 03:54	1024-57-3	
Methoxychlor	<2.7	ug/kg	18.3	2.7	1	12/05/18 13:42	12/12/18 03:54	72-43-5	
Toxaphene	<8.6	ug/kg	54.7	8.6	1	12/05/18 13:42	12/12/18 03:54	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	101	%	30-150		1	12/05/18 13:42	12/12/18 03:54	877-09-8	
Decachlorobiphenyl (S)	87	%	30-150		1	12/05/18 13:42	12/12/18 03:54	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.0	ug/kg	36.0	10.0	1	12/05/18 09:53	12/10/18 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	<12.7	ug/kg	36.0	12.7	1	12/05/18 09:53	12/10/18 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.4	ug/kg	36.0	14.4	1	12/05/18 09:53	12/10/18 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.2	ug/kg	36.0	12.2	1	12/05/18 09:53	12/10/18 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	<10.8	ug/kg	36.0	10.8	1	12/05/18 09:53	12/10/18 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	<10.6	ug/kg	36.0	10.6	1	12/05/18 09:53	12/10/18 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	<8.6	ug/kg	36.0	8.6	1	12/05/18 09:53	12/10/18 23:21	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	98	%	48-125		1	12/05/18 09:53	12/10/18 23:21	877-09-8	
Decachlorobiphenyl (S)	116	%	30-134		1	12/05/18 09:53	12/10/18 23:21	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.7	mg/kg	16.5	2.7	1	12/04/18 18:01	12/12/18 17:09	68334-30-5	
Motor Oil Range	<4.8	mg/kg	11.0	4.8	1	12/04/18 18:01	12/12/18 17:09		
<b>Surrogates</b>									
n-Triacontane (S)	115	%	50-150		1	12/04/18 18:01	12/12/18 17:09	638-68-6	
o-Terphenyl (S)	111	%	50-150		1	12/04/18 18:01	12/12/18 17:09	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (7)**      **Lab ID: 10457121019**      Collected: 11/27/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.75	mg/kg	5.7	0.75	1	12/10/18 16:17	12/11/18 03:44		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/10/18 16:17	12/11/18 03:44	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.41	mg/kg	1.1	0.41	1	12/06/18 14:27	12/07/18 19:31	7440-36-0	
Arsenic	1.5	mg/kg	1.1	0.22	1	12/06/18 14:27	12/07/18 19:31	7440-38-2	
Beryllium	0.35	mg/kg	0.27	0.015	1	12/06/18 14:27	12/07/18 19:31	7440-41-7	
Cadmium	0.039J	mg/kg	0.16	0.022	1	12/06/18 14:27	12/07/18 19:31	7440-43-9	
Chromium	3.8	mg/kg	0.54	0.093	1	12/06/18 14:27	12/07/18 19:31	7440-47-3	
Copper	10.6	mg/kg	0.54	0.060	1	12/06/18 14:27	12/07/18 19:31	7440-50-8	
Lead	2.9	mg/kg	0.54	0.12	1	12/06/18 14:27	12/07/18 19:31	7439-92-1	
Nickel	4.0	mg/kg	1.1	0.068	1	12/06/18 14:27	12/07/18 19:31	7440-02-0	
Selenium	<0.36	mg/kg	1.1	0.36	1	12/06/18 14:27	12/07/18 19:31	7782-49-2	
Silver	<0.039	mg/kg	0.54	0.039	1	12/06/18 14:27	12/07/18 19:31	7440-22-4	
Thallium	<0.25	mg/kg	1.1	0.25	1	12/06/18 14:27	12/07/18 19:31	7440-28-0	
Zinc	32.2	mg/kg	1.1	0.47	1	12/06/18 14:27	12/07/18 19:31	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.013J	mg/kg	0.019	0.0078	1	12/06/18 14:29	12/12/18 16:07	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	9.4	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<38.6	ug/kg	362	38.6	1	12/03/18 15:17	12/06/18 20:32	83-32-9	
Acenaphthylene	<46.2	ug/kg	362	46.2	1	12/03/18 15:17	12/06/18 20:32	208-96-8	
Anthracene	<42.4	ug/kg	362	42.4	1	12/03/18 15:17	12/06/18 20:32	120-12-7	
Benzo(a)anthracene	<37.2	ug/kg	362	37.2	1	12/03/18 15:17	12/06/18 20:32	56-55-3	
Benzo(a)pyrene	<41.0	ug/kg	362	41.0	1	12/03/18 15:17	12/06/18 20:32	50-32-8	
Benzo(b)fluoranthene	<35.4	ug/kg	362	35.4	1	12/03/18 15:17	12/06/18 20:32	205-99-2	
Benzo(g,h,i)perylene	<38.7	ug/kg	362	38.7	1	12/03/18 15:17	12/06/18 20:32	191-24-2	
Benzo(k)fluoranthene	<45.2	ug/kg	362	45.2	1	12/03/18 15:17	12/06/18 20:32	207-08-9	
4-Bromophenylphenyl ether	<43.1	ug/kg	362	43.1	1	12/03/18 15:17	12/06/18 20:32	101-55-3	
Butylbenzylphthalate	<33.1	ug/kg	362	33.1	1	12/03/18 15:17	12/06/18 20:32	85-68-7	
Carbazole	<30.1	ug/kg	362	30.1	1	12/03/18 15:17	12/06/18 20:32	86-74-8	
4-Chloro-3-methylphenol	<57.9	ug/kg	362	57.9	1	12/03/18 15:17	12/06/18 20:32	59-50-7	
4-Chloroaniline	<96.4	ug/kg	362	96.4	1	12/03/18 15:17	12/06/18 20:32	106-47-8	
bis(2-Chloroethoxy)methane	<37.1	ug/kg	362	37.1	1	12/03/18 15:17	12/06/18 20:32	111-91-1	
bis(2-Chloroethyl) ether	<28.6	ug/kg	362	28.6	1	12/03/18 15:17	12/06/18 20:32	111-44-4	
bis(2-Chloroisopropyl) ether	<37.3	ug/kg	362	37.3	1	12/03/18 15:17	12/06/18 20:32	108-60-1	
2-Chloronaphthalene	<32.0	ug/kg	362	32.0	1	12/03/18 15:17	12/06/18 20:32	91-58-7	
2-Chlorophenol	<41.2	ug/kg	362	41.2	1	12/03/18 15:17	12/06/18 20:32	95-57-8	
4-Chlorophenylphenyl ether	<44.9	ug/kg	362	44.9	1	12/03/18 15:17	12/06/18 20:32	7005-72-3	
Chrysene	<38.2	ug/kg	362	38.2	1	12/03/18 15:17	12/06/18 20:32	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (7)**      **Lab ID: 10457121019**      Collected: 11/27/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>		Analytical Method: EPA 8270D Preparation Method: EPA 3550							
Dibenz(a,h)anthracene	<38.5	ug/kg	362	38.5	1	12/03/18 15:17	12/06/18 20:32	53-70-3	
Dibenzofuran	<45.8	ug/kg	362	45.8	1	12/03/18 15:17	12/06/18 20:32	132-64-9	
1,2-Dichlorobenzene	<37.9	ug/kg	362	37.9	1	12/03/18 15:17	12/06/18 20:32	95-50-1	
1,3-Dichlorobenzene	<24.8	ug/kg	362	24.8	1	12/03/18 15:17	12/06/18 20:32	541-73-1	
1,4-Dichlorobenzene	<40.3	ug/kg	362	40.3	1	12/03/18 15:17	12/06/18 20:32	106-46-7	
3,3'-Dichlorobenzidine	<122	ug/kg	362	122	1	12/03/18 15:17	12/06/18 20:32	91-94-1	
2,4-Dichlorophenol	<60.4	ug/kg	362	60.4	1	12/03/18 15:17	12/06/18 20:32	120-83-2	
Diethylphthalate	<32.2	ug/kg	362	32.2	1	12/03/18 15:17	12/06/18 20:32	84-66-2	
2,4-Dimethylphenol	<141	ug/kg	362	141	1	12/03/18 15:17	12/06/18 20:32	105-67-9	
Dimethylphthalate	<49.1	ug/kg	362	49.1	1	12/03/18 15:17	12/06/18 20:32	131-11-3	
Di-n-butylphthalate	<49.6	ug/kg	362	49.6	1	12/03/18 15:17	12/06/18 20:32	84-74-2	
4,6-Dinitro-2-methylphenol	<359	ug/kg	1860	359	1	12/03/18 15:17	12/06/18 20:32	534-52-1	
2,4-Dinitrophenol	<169	ug/kg	362	169	1	12/03/18 15:17	12/06/18 20:32	51-28-5	
2,4-Dinitrotoluene	<46.1	ug/kg	362	46.1	1	12/03/18 15:17	12/06/18 20:32	121-14-2	
2,6-Dinitrotoluene	<47.9	ug/kg	362	47.9	1	12/03/18 15:17	12/06/18 20:32	606-20-2	
Di-n-octylphthalate	<42.0	ug/kg	362	42.0	1	12/03/18 15:17	12/06/18 20:32	117-84-0	
1,2-Diphenylhydrazine	<44.4	ug/kg	362	44.4	1	12/03/18 15:17	12/06/18 20:32	122-66-7	
bis(2-Ethylhexyl)phthalate	<75.5	ug/kg	362	75.5	1	12/03/18 15:17	12/06/18 20:32	117-81-7	
Fluoranthene	<41.6	ug/kg	362	41.6	1	12/03/18 15:17	12/06/18 20:32	206-44-0	
Fluorene	<166	ug/kg	362	166	1	12/03/18 15:17	12/06/18 20:32	86-73-7	
Hexachloro-1,3-butadiene	<55.1	ug/kg	362	55.1	1	12/03/18 15:17	12/06/18 20:32	87-68-3	
Hexachlorobenzene	<59.0	ug/kg	362	59.0	1	12/03/18 15:17	12/06/18 20:32	118-74-1	
Hexachloroethane	<47.1	ug/kg	362	47.1	1	12/03/18 15:17	12/06/18 20:32	67-72-1	
Indeno(1,2,3-cd)pyrene	<21.8	ug/kg	362	21.8	1	12/03/18 15:17	12/06/18 20:32	193-39-5	
Isophorone	<27.9	ug/kg	362	27.9	1	12/03/18 15:17	12/06/18 20:32	78-59-1	
1-Methylnaphthalene	<33.5	ug/kg	362	33.5	1	12/03/18 15:17	12/06/18 20:32	90-12-0	
2-Methylnaphthalene	<32.7	ug/kg	362	32.7	1	12/03/18 15:17	12/06/18 20:32	91-57-6	
2-Methylphenol(o-Cresol)	<22.6	ug/kg	362	22.6	1	12/03/18 15:17	12/06/18 20:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	<20.4	ug/kg	724	20.4	1	12/03/18 15:17	12/06/18 20:32		
Naphthalene	<27.9	ug/kg	362	27.9	1	12/03/18 15:17	12/06/18 20:32	91-20-3	
2-Nitroaniline	<90.8	ug/kg	362	90.8	1	12/03/18 15:17	12/06/18 20:32	88-74-4	
3-Nitroaniline	<39.5	ug/kg	362	39.5	1	12/03/18 15:17	12/06/18 20:32	99-09-2	
4-Nitroaniline	<52.9	ug/kg	362	52.9	1	12/03/18 15:17	12/06/18 20:32	100-01-6	
Nitrobenzene	<39.8	ug/kg	362	39.8	1	12/03/18 15:17	12/06/18 20:32	98-95-3	
2-Nitrophenol	<44.1	ug/kg	362	44.1	1	12/03/18 15:17	12/06/18 20:32	88-75-5	
4-Nitrophenol	<70.2	ug/kg	362	70.2	1	12/03/18 15:17	12/06/18 20:32	100-02-7	
N-Nitrosodimethylamine	<44.4	ug/kg	362	44.4	1	12/03/18 15:17	12/06/18 20:32	62-75-9	
N-Nitroso-di-n-propylamine	<166	ug/kg	362	166	1	12/03/18 15:17	12/06/18 20:32	621-64-7	
N-Nitrosodiphenylamine	<23.5	ug/kg	362	23.5	1	12/03/18 15:17	12/06/18 20:32	86-30-6	
Pentachlorophenol	<212	ug/kg	735	212	1	12/03/18 15:17	12/06/18 20:32	87-86-5	
Phenanthrene	<42.1	ug/kg	362	42.1	1	12/03/18 15:17	12/06/18 20:32	85-01-8	
Phenol	<23.7	ug/kg	362	23.7	1	12/03/18 15:17	12/06/18 20:32	108-95-2	
Pyrene	<27.5	ug/kg	362	27.5	1	12/03/18 15:17	12/06/18 20:32	129-00-0	
1,2,4-Trichlorobenzene	<39.7	ug/kg	362	39.7	1	12/03/18 15:17	12/06/18 20:32	120-82-1	
2,4,5-Trichlorophenol	<46.6	ug/kg	362	46.6	1	12/03/18 15:17	12/06/18 20:32	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (7)**      **Lab ID: 10457121019**      Collected: 11/27/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<56.0	ug/kg	362	56.0	1	12/03/18 15:17	12/06/18 20:32	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	68	%	43-125		1	12/03/18 15:17	12/06/18 20:32	4165-60-0	
2-Fluorobiphenyl (S)	69	%	30-132		1	12/03/18 15:17	12/06/18 20:32	321-60-8	
p-Terphenyl-d14 (S)	84	%	62-125		1	12/03/18 15:17	12/06/18 20:32	1718-51-0	
Phenol-d6 (S)	70	%	48-125		1	12/03/18 15:17	12/06/18 20:32	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/03/18 15:17	12/06/18 20:32	367-12-4	
2,4,6-Tribromophenol (S)	63	%	60-125		1	12/03/18 15:17	12/06/18 20:32	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.24	ug/kg	4.2	0.24	1	03/05/19 10:30	03/05/19 15:30	106-93-4	
Methylene Chloride	<3.8	ug/kg	20.9	3.8	1	03/05/19 10:30	03/05/19 15:30	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/05/19 10:30	03/05/19 15:30	17060-07-0	3M,H3
Toluene-d8 (S)	101	%	75-125		1	03/05/19 10:30	03/05/19 15:30	2037-26-5	
4-Bromofluorobenzene (S)	107	%	75-125		1	03/05/19 10:30	03/05/19 15:30	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<392	ug/kg	1260	392	1	12/10/18 15:39	12/11/18 02:05	67-64-1	
Allyl chloride	<52.7	ug/kg	252	52.7	1	12/10/18 15:39	12/11/18 02:05	107-05-1	
Benzene	<3.6	ug/kg	25.2	3.6	1	12/10/18 15:39	12/11/18 02:05	71-43-2	
Bromobenzene	<3.9	ug/kg	62.9	3.9	1	12/10/18 15:39	12/11/18 02:05	108-86-1	
Bromochloromethane	<21.8	ug/kg	62.9	21.8	1	12/10/18 15:39	12/11/18 02:05	74-97-5	
Bromodichloromethane	<21.5	ug/kg	62.9	21.5	1	12/10/18 15:39	12/11/18 02:05	75-27-4	
Bromoform	<95.3	ug/kg	252	95.3	1	12/10/18 15:39	12/11/18 02:05	75-25-2	
Bromomethane	<73.6	ug/kg	629	73.6	1	12/10/18 15:39	12/11/18 02:05	74-83-9	
2-Butanone (MEK)	<33.5	ug/kg	315	33.5	1	12/10/18 15:39	12/11/18 02:05	78-93-3	
n-Butylbenzene	<30.0	ug/kg	62.9	30.0	1	12/10/18 15:39	12/11/18 02:05	104-51-8	
sec-Butylbenzene	<12.1	ug/kg	62.9	12.1	1	12/10/18 15:39	12/11/18 02:05	135-98-8	
tert-Butylbenzene	<12.1	ug/kg	62.9	12.1	1	12/10/18 15:39	12/11/18 02:05	98-06-6	
Carbon tetrachloride	<30.1	ug/kg	62.9	30.1	1	12/10/18 15:39	12/11/18 02:05	56-23-5	
Chlorobenzene	<3.6	ug/kg	62.9	3.6	1	12/10/18 15:39	12/11/18 02:05	108-90-7	
Chloroethane	<32.7	ug/kg	629	32.7	1	12/10/18 15:39	12/11/18 02:05	75-00-3	
Chloroform	<31.5	ug/kg	62.9	31.5	1	12/10/18 15:39	12/11/18 02:05	67-66-3	
Chloromethane	<15.1	ug/kg	252	15.1	1	12/10/18 15:39	12/11/18 02:05	74-87-3	
2-Chlorotoluene	<3.1	ug/kg	62.9	3.1	1	12/10/18 15:39	12/11/18 02:05	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	62.9	3.2	1	12/10/18 15:39	12/11/18 02:05	106-43-4	
1,2-Dibromo-3-chloropropane	<219	ug/kg	629	219	1	12/10/18 15:39	12/11/18 02:05	96-12-8	
Dibromochloromethane	<7.3	ug/kg	252	7.3	1	12/10/18 15:39	12/11/18 02:05	124-48-1	
1,2-Dibromoethane (EDB)	<6.6	ug/kg	62.9	6.6	1	12/10/18 15:39	12/11/18 02:05	106-93-4	
Dibromomethane	<11.5	ug/kg	62.9	11.5	1	12/10/18 15:39	12/11/18 02:05	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/kg	62.9	2.5	1	12/10/18 15:39	12/11/18 02:05	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/kg	62.9	2.3	1	12/10/18 15:39	12/11/18 02:05	541-73-1	
1,4-Dichlorobenzene	<3.9	ug/kg	62.9	3.9	1	12/10/18 15:39	12/11/18 02:05	106-46-7	
Dichlorodifluoromethane	<20.4	ug/kg	252	20.4	1	12/10/18 15:39	12/11/18 02:05	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-10 (7)**      **Lab ID: 10457121019**      Collected: 11/27/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<7.1	ug/kg	62.9	7.1	1	12/10/18 15:39	12/11/18 02:05	75-34-3	
1,2-Dichloroethane	<6.9	ug/kg	62.9	6.9	1	12/10/18 15:39	12/11/18 02:05	107-06-2	
1,1-Dichloroethene	<18.9	ug/kg	62.9	18.9	1	12/10/18 15:39	12/11/18 02:05	75-35-4	
cis-1,2-Dichloroethene	<10.4	ug/kg	62.9	10.4	1	12/10/18 15:39	12/11/18 02:05	156-59-2	
trans-1,2-Dichloroethene	<29.5	ug/kg	62.9	29.5	1	12/10/18 15:39	12/11/18 02:05	156-60-5	
Dichlorofluoromethane	<87.0	ug/kg	629	87.0	1	12/10/18 15:39	12/11/18 02:05	75-43-4	N2
1,2-Dichloropropane	<10.9	ug/kg	62.9	10.9	1	12/10/18 15:39	12/11/18 02:05	78-87-5	
1,3-Dichloropropane	<8.7	ug/kg	62.9	8.7	1	12/10/18 15:39	12/11/18 02:05	142-28-9	
2,2-Dichloropropane	<7.9	ug/kg	252	7.9	1	12/10/18 15:39	12/11/18 02:05	594-20-7	
1,1-Dichloropropene	<29.1	ug/kg	62.9	29.1	1	12/10/18 15:39	12/11/18 02:05	563-58-6	
cis-1,3-Dichloropropene	<9.0	ug/kg	62.9	9.0	1	12/10/18 15:39	12/11/18 02:05	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/kg	62.9	8.7	1	12/10/18 15:39	12/11/18 02:05	10061-02-6	
Diethyl ether (Ethyl ether)	<38.5	ug/kg	252	38.5	1	12/10/18 15:39	12/11/18 02:05	60-29-7	
Ethylbenzene	<3.4	ug/kg	62.9	3.4	1	12/10/18 15:39	12/11/18 02:05	100-41-4	
Hexachloro-1,3-butadiene	<15.4	ug/kg	315	15.4	1	12/10/18 15:39	12/11/18 02:05	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	62.9	2.8	1	12/10/18 15:39	12/11/18 02:05	98-82-8	
p-Isopropyltoluene	<19.1	ug/kg	62.9	19.1	1	12/10/18 15:39	12/11/18 02:05	99-87-6	
Methylene Chloride	125J	ug/kg	252	118	1	12/10/18 15:39	12/11/18 02:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.1	ug/kg	315	13.1	1	12/10/18 15:39	12/11/18 02:05	108-10-1	
Methyl-tert-butyl ether	<7.5	ug/kg	62.9	7.5	1	12/10/18 15:39	12/11/18 02:05	1634-04-4	
Naphthalene	<58.9	ug/kg	252	58.9	1	12/10/18 15:39	12/11/18 02:05	91-20-3	
n-Propylbenzene	<3.4	ug/kg	62.9	3.4	1	12/10/18 15:39	12/11/18 02:05	103-65-1	
Styrene	<2.9	ug/kg	62.9	2.9	1	12/10/18 15:39	12/11/18 02:05	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	62.9	19.8	1	12/10/18 15:39	12/11/18 02:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.1	ug/kg	62.9	11.1	1	12/10/18 15:39	12/11/18 02:05	79-34-5	
Tetrachloroethene	<22.2	ug/kg	62.9	22.2	1	12/10/18 15:39	12/11/18 02:05	127-18-4	
Tetrahydrofuran	<91.5	ug/kg	2520	91.5	1	12/10/18 15:39	12/11/18 02:05	109-99-9	
Toluene	<15.4	ug/kg	62.9	15.4	1	12/10/18 15:39	12/11/18 02:05	108-88-3	
1,2,3-Trichlorobenzene	<10.1	ug/kg	62.9	10.1	1	12/10/18 15:39	12/11/18 02:05	87-61-6	
1,2,4-Trichlorobenzene	<14.0	ug/kg	62.9	14.0	1	12/10/18 15:39	12/11/18 02:05	120-82-1	
1,1,1-Trichloroethane	<29.3	ug/kg	62.9	29.3	1	12/10/18 15:39	12/11/18 02:05	71-55-6	
1,1,2-Trichloroethane	<7.5	ug/kg	62.9	7.5	1	12/10/18 15:39	12/11/18 02:05	79-00-5	
Trichloroethene	<9.7	ug/kg	62.9	9.7	1	12/10/18 15:39	12/11/18 02:05	79-01-6	
Trichlorofluoromethane	<110	ug/kg	252	110	1	12/10/18 15:39	12/11/18 02:05	75-69-4	L2
1,2,3-Trichloropropane	<16.5	ug/kg	252	16.5	1	12/10/18 15:39	12/11/18 02:05	96-18-4	
1,1,2-Trichlorotrifluoroethane	<73.0	ug/kg	252	73.0	1	12/10/18 15:39	12/11/18 02:05	76-13-1	
1,2,4-Trimethylbenzene	<12.6	ug/kg	62.9	12.6	1	12/10/18 15:39	12/11/18 02:05	95-63-6	
1,3,5-Trimethylbenzene	<10.0	ug/kg	62.9	10.0	1	12/10/18 15:39	12/11/18 02:05	108-67-8	
Vinyl chloride	<12.4	ug/kg	25.2	12.4	1	12/10/18 15:39	12/11/18 02:05	75-01-4	
Xylene (Total)	<14.6	ug/kg	189	14.6	1	12/10/18 15:39	12/11/18 02:05	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1	12/10/18 15:39	12/11/18 02:05	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	12/10/18 15:39	12/11/18 02:05	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 15:39	12/11/18 02:05	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (3)**      **Lab ID: 10457121020**      Collected: 11/27/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.43	ug/kg	4.2	0.43	2	12/05/18 16:14	12/12/18 05:43	309-00-2	
alpha-BHC	<0.31	ug/kg	4.2	0.31	2	12/05/18 16:14	12/12/18 05:43	319-84-6	
beta-BHC	<0.57	ug/kg	4.2	0.57	2	12/05/18 16:14	12/12/18 05:43	319-85-7	
delta-BHC	<0.35	ug/kg	4.2	0.35	2	12/05/18 16:14	12/12/18 05:43	319-86-8	
gamma-BHC (Lindane)	<0.36	ug/kg	4.2	0.36	2	12/05/18 16:14	12/12/18 05:43	58-89-9	
Chlordane (Technical)	<7.7	ug/kg	42.3	7.7	2	12/05/18 16:14	12/12/18 05:43	57-74-9	
alpha-Chlordane	0.49J	ug/kg	4.2	0.34	2	12/05/18 16:14	12/12/18 05:43	5103-71-9	
gamma-Chlordane	1.7J	ug/kg	4.2	0.97	2	12/05/18 16:14	12/12/18 05:43	5103-74-2	
4,4'-DDD	3.3J	ug/kg	8.4	0.77	2	12/05/18 16:14	12/12/18 05:43	72-54-8	
4,4'-DDE	93.9	ug/kg	8.4	0.63	2	12/05/18 16:14	12/12/18 05:43	72-55-9	
4,4'-DDT	31.0	ug/kg	8.4	1.1	2	12/05/18 16:14	12/12/18 05:43	50-29-3	
Dieldrin	<0.82	ug/kg	8.4	0.82	2	12/05/18 16:14	12/12/18 05:43	60-57-1	
Endosulfan I	<0.38	ug/kg	4.2	0.38	2	12/05/18 16:14	12/12/18 05:43	959-98-8	
Endosulfan II	<0.85	ug/kg	8.4	0.85	2	12/05/18 16:14	12/12/18 05:43	33213-65-9	
Endosulfan sulfate	<0.87	ug/kg	8.4	0.87	2	12/05/18 16:14	12/12/18 05:43	1031-07-8	
Endrin	<0.75	ug/kg	8.4	0.75	2	12/05/18 16:14	12/12/18 05:43	72-20-8	
Endrin aldehyde	<2.6	ug/kg	8.4	2.6	2	12/05/18 16:14	12/12/18 05:43	7421-93-4	
Endrin ketone	<1.0	ug/kg	8.4	1.0	2	12/05/18 16:14	12/12/18 05:43	53494-70-5	
Heptachlor	<0.46	ug/kg	4.2	0.46	2	12/05/18 16:14	12/12/18 05:43	76-44-8	
Heptachlor epoxide	2.0J	ug/kg	4.2	0.40	2	12/05/18 16:14	12/12/18 05:43	1024-57-3	
Methoxychlor	<6.4	ug/kg	42.3	6.4	2	12/05/18 16:14	12/12/18 05:43	72-43-5	
Toxaphene	<20.1	ug/kg	127	20.1	2	12/05/18 16:14	12/12/18 05:43	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	30-150		2	12/05/18 16:14	12/12/18 05:43	877-09-8	5M,D4
Decachlorobiphenyl (S)	80	%	30-150		2	12/05/18 16:14	12/12/18 05:43	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	41.9	11.7	1	12/05/18 14:01	12/07/18 16:51	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.9	14.7	1	12/05/18 14:01	12/07/18 16:51	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.8	ug/kg	41.9	16.8	1	12/05/18 14:01	12/07/18 16:51	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.2	ug/kg	41.9	14.2	1	12/05/18 14:01	12/07/18 16:51	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	41.9	12.6	1	12/05/18 14:01	12/07/18 16:51	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.9	12.3	1	12/05/18 14:01	12/07/18 16:51	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.0	ug/kg	41.9	10.0	1	12/05/18 14:01	12/07/18 16:51	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	72	%	48-125		1	12/05/18 14:01	12/07/18 16:51	877-09-8	
Decachlorobiphenyl (S)	71	%	30-134		1	12/05/18 14:01	12/07/18 16:51	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.6	3.0	1	12/04/18 18:01	12/12/18 17:21	68334-30-5	
Motor Oil Range	10.5J	mg/kg	12.4	5.4	1	12/04/18 18:01	12/12/18 17:21		
<b>Surrogates</b>									
n-Triacontane (S)	102	%	50-150		1	12/04/18 18:01	12/12/18 17:21	638-68-6	
o-Terphenyl (S)	99	%	50-150		1	12/04/18 18:01	12/12/18 17:21	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (3)**      **Lab ID: 10457121020**      Collected: 11/27/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.4	1.1	1	12/10/18 16:17	12/11/18 04:01		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/10/18 16:17	12/11/18 04:01	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.47	mg/kg	1.2	0.47	1	12/06/18 14:27	12/07/18 19:34	7440-36-0	
Arsenic	1.7	mg/kg	1.2	0.25	1	12/06/18 14:27	12/07/18 19:34	7440-38-2	
Beryllium	0.52	mg/kg	0.31	0.017	1	12/06/18 14:27	12/07/18 19:34	7440-41-7	
Cadmium	0.10J	mg/kg	0.19	0.025	1	12/06/18 14:27	12/07/18 19:34	7440-43-9	
Chromium	7.2	mg/kg	0.62	0.11	1	12/06/18 14:27	12/07/18 19:34	7440-47-3	
Copper	16.4	mg/kg	0.62	0.069	1	12/06/18 14:27	12/07/18 19:34	7440-50-8	
Lead	17.7	mg/kg	0.62	0.14	1	12/06/18 14:27	12/07/18 19:34	7439-92-1	
Nickel	5.4	mg/kg	1.2	0.078	1	12/06/18 14:27	12/07/18 19:34	7440-02-0	
Selenium	<0.41	mg/kg	1.2	0.41	1	12/06/18 14:27	12/07/18 19:34	7782-49-2	
Silver	0.064J	mg/kg	0.62	0.045	1	12/06/18 14:27	12/07/18 19:34	7440-22-4	
Thallium	<0.28	mg/kg	1.2	0.28	1	12/06/18 14:27	12/07/18 19:34	7440-28-0	
Zinc	64.4	mg/kg	1.2	0.54	1	12/06/18 14:27	12/07/18 19:34	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.057	mg/kg	0.023	0.0093	1	12/06/18 14:29	12/12/18 16:10	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.5	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<44.7	ug/kg	419	44.7	1	12/03/18 15:17	12/06/18 21:01	83-32-9	
Acenaphthylene	<53.5	ug/kg	419	53.5	1	12/03/18 15:17	12/06/18 21:01	208-96-8	
Anthracene	<49.2	ug/kg	419	49.2	1	12/03/18 15:17	12/06/18 21:01	120-12-7	
Benzo(a)anthracene	<43.1	ug/kg	419	43.1	1	12/03/18 15:17	12/06/18 21:01	56-55-3	
Benzo(a)pyrene	<47.5	ug/kg	419	47.5	1	12/03/18 15:17	12/06/18 21:01	50-32-8	
Benzo(b)fluoranthene	59.8J	ug/kg	419	41.0	1	12/03/18 15:17	12/06/18 21:01	205-99-2	
Benzo(g,h,i)perylene	<44.8	ug/kg	419	44.8	1	12/03/18 15:17	12/06/18 21:01	191-24-2	
Benzo(k)fluoranthene	<52.3	ug/kg	419	52.3	1	12/03/18 15:17	12/06/18 21:01	207-08-9	
4-Bromophenylphenyl ether	<49.9	ug/kg	419	49.9	1	12/03/18 15:17	12/06/18 21:01	101-55-3	
Butylbenzylphthalate	<38.4	ug/kg	419	38.4	1	12/03/18 15:17	12/06/18 21:01	85-68-7	
Carbazole	<34.8	ug/kg	419	34.8	1	12/03/18 15:17	12/06/18 21:01	86-74-8	
4-Chloro-3-methylphenol	<67.1	ug/kg	419	67.1	1	12/03/18 15:17	12/06/18 21:01	59-50-7	
4-Chloroaniline	<112	ug/kg	419	112	1	12/03/18 15:17	12/06/18 21:01	106-47-8	
bis(2-Chloroethoxy)methane	<42.9	ug/kg	419	42.9	1	12/03/18 15:17	12/06/18 21:01	111-91-1	
bis(2-Chloroethyl) ether	<33.2	ug/kg	419	33.2	1	12/03/18 15:17	12/06/18 21:01	111-44-4	
bis(2-Chloroisopropyl) ether	<43.2	ug/kg	419	43.2	1	12/03/18 15:17	12/06/18 21:01	108-60-1	
2-Chloronaphthalene	<37.1	ug/kg	419	37.1	1	12/03/18 15:17	12/06/18 21:01	91-58-7	
2-Chlorophenol	<47.8	ug/kg	419	47.8	1	12/03/18 15:17	12/06/18 21:01	95-57-8	
4-Chlorophenylphenyl ether	<52.0	ug/kg	419	52.0	1	12/03/18 15:17	12/06/18 21:01	7005-72-3	
Chrysene	<44.2	ug/kg	419	44.2	1	12/03/18 15:17	12/06/18 21:01	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (3)**      **Lab ID: 10457121020**      Collected: 11/27/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.6	ug/kg	419	44.6	1	12/03/18 15:17	12/06/18 21:01	53-70-3	
Dibenzofuran	<53.1	ug/kg	419	53.1	1	12/03/18 15:17	12/06/18 21:01	132-64-9	
1,2-Dichlorobenzene	<44.0	ug/kg	419	44.0	1	12/03/18 15:17	12/06/18 21:01	95-50-1	
1,3-Dichlorobenzene	<28.7	ug/kg	419	28.7	1	12/03/18 15:17	12/06/18 21:01	541-73-1	
1,4-Dichlorobenzene	<46.6	ug/kg	419	46.6	1	12/03/18 15:17	12/06/18 21:01	106-46-7	
3,3'-Dichlorobenzidine	<141	ug/kg	419	141	1	12/03/18 15:17	12/06/18 21:01	91-94-1	
2,4-Dichlorophenol	<70.0	ug/kg	419	70.0	1	12/03/18 15:17	12/06/18 21:01	120-83-2	
Diethylphthalate	<37.4	ug/kg	419	37.4	1	12/03/18 15:17	12/06/18 21:01	84-66-2	
2,4-Dimethylphenol	<164	ug/kg	419	164	1	12/03/18 15:17	12/06/18 21:01	105-67-9	
Dimethylphthalate	<56.9	ug/kg	419	56.9	1	12/03/18 15:17	12/06/18 21:01	131-11-3	
Di-n-butylphthalate	<57.4	ug/kg	419	57.4	1	12/03/18 15:17	12/06/18 21:01	84-74-2	
4,6-Dinitro-2-methylphenol	<415	ug/kg	2160	415	1	12/03/18 15:17	12/06/18 21:01	534-52-1	
2,4-Dinitrophenol	<196	ug/kg	419	196	1	12/03/18 15:17	12/06/18 21:01	51-28-5	
2,4-Dinitrotoluene	<53.4	ug/kg	419	53.4	1	12/03/18 15:17	12/06/18 21:01	121-14-2	
2,6-Dinitrotoluene	<55.5	ug/kg	419	55.5	1	12/03/18 15:17	12/06/18 21:01	606-20-2	
Di-n-octylphthalate	<48.7	ug/kg	419	48.7	1	12/03/18 15:17	12/06/18 21:01	117-84-0	
1,2-Diphenylhydrazine	<51.5	ug/kg	419	51.5	1	12/03/18 15:17	12/06/18 21:01	122-66-7	
bis(2-Ethylhexyl)phthalate	<87.4	ug/kg	419	87.4	1	12/03/18 15:17	12/06/18 21:01	117-81-7	
Fluoranthene	82.7J	ug/kg	419	48.1	1	12/03/18 15:17	12/06/18 21:01	206-44-0	
Fluorene	<192	ug/kg	419	192	1	12/03/18 15:17	12/06/18 21:01	86-73-7	
Hexachloro-1,3-butadiene	<63.8	ug/kg	419	63.8	1	12/03/18 15:17	12/06/18 21:01	87-68-3	
Hexachlorobenzene	<68.3	ug/kg	419	68.3	1	12/03/18 15:17	12/06/18 21:01	118-74-1	
Hexachloroethane	<54.5	ug/kg	419	54.5	1	12/03/18 15:17	12/06/18 21:01	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.3	ug/kg	419	25.3	1	12/03/18 15:17	12/06/18 21:01	193-39-5	
Isophorone	<32.3	ug/kg	419	32.3	1	12/03/18 15:17	12/06/18 21:01	78-59-1	
1-Methylnaphthalene	<38.7	ug/kg	419	38.7	1	12/03/18 15:17	12/06/18 21:01	90-12-0	
2-Methylnaphthalene	<37.9	ug/kg	419	37.9	1	12/03/18 15:17	12/06/18 21:01	91-57-6	
2-Methylphenol(o-Cresol)	<26.2	ug/kg	419	26.2	1	12/03/18 15:17	12/06/18 21:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.6	ug/kg	838	23.6	1	12/03/18 15:17	12/06/18 21:01		
Naphthalene	<32.3	ug/kg	419	32.3	1	12/03/18 15:17	12/06/18 21:01	91-20-3	
2-Nitroaniline	<105	ug/kg	419	105	1	12/03/18 15:17	12/06/18 21:01	88-74-4	
3-Nitroaniline	<45.7	ug/kg	419	45.7	1	12/03/18 15:17	12/06/18 21:01	99-09-2	
4-Nitroaniline	<61.2	ug/kg	419	61.2	1	12/03/18 15:17	12/06/18 21:01	100-01-6	
Nitrobenzene	<46.1	ug/kg	419	46.1	1	12/03/18 15:17	12/06/18 21:01	98-95-3	
2-Nitrophenol	<51.1	ug/kg	419	51.1	1	12/03/18 15:17	12/06/18 21:01	88-75-5	
4-Nitrophenol	<81.3	ug/kg	419	81.3	1	12/03/18 15:17	12/06/18 21:01	100-02-7	
N-Nitrosodimethylamine	<51.5	ug/kg	419	51.5	1	12/03/18 15:17	12/06/18 21:01	62-75-9	
N-Nitroso-di-n-propylamine	<192	ug/kg	419	192	1	12/03/18 15:17	12/06/18 21:01	621-64-7	
N-Nitrosodiphenylamine	<27.2	ug/kg	419	27.2	1	12/03/18 15:17	12/06/18 21:01	86-30-6	
Pentachlorophenol	<245	ug/kg	851	245	1	12/03/18 15:17	12/06/18 21:01	87-86-5	
Phenanthrene	53.0J	ug/kg	419	48.8	1	12/03/18 15:17	12/06/18 21:01	85-01-8	
Phenol	<27.4	ug/kg	419	27.4	1	12/03/18 15:17	12/06/18 21:01	108-95-2	
Pyrene	88.9J	ug/kg	419	31.9	1	12/03/18 15:17	12/06/18 21:01	129-00-0	
1,2,4-Trichlorobenzene	<46.0	ug/kg	419	46.0	1	12/03/18 15:17	12/06/18 21:01	120-82-1	
2,4,5-Trichlorophenol	<54.0	ug/kg	419	54.0	1	12/03/18 15:17	12/06/18 21:01	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (3)**      **Lab ID: 10457121020**      Collected: 11/27/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.9	ug/kg	419	64.9	1	12/03/18 15:17	12/06/18 21:01	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	53	%	43-125		1	12/03/18 15:17	12/06/18 21:01	4165-60-0	
2-Fluorobiphenyl (S)	54	%	30-132		1	12/03/18 15:17	12/06/18 21:01	321-60-8	
p-Terphenyl-d14 (S)	73	%	62-125		1	12/03/18 15:17	12/06/18 21:01	1718-51-0	
Phenol-d6 (S)	57	%	48-125		1	12/03/18 15:17	12/06/18 21:01	13127-88-3	
2-Fluorophenol (S)	51	%	40-125		1	12/03/18 15:17	12/06/18 21:01	367-12-4	
2,4,6-Tribromophenol (S)	59	%	60-125		1	12/03/18 15:17	12/06/18 21:01	118-79-6	S0
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 15:49	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.2	4.4	1	03/05/19 10:30	03/05/19 15:49	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/05/19 10:30	03/05/19 15:49	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 15:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 15:49	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<403	ug/kg	1290	403	1	12/10/18 15:39	12/10/18 21:08	67-64-1	
Allyl chloride	<54.3	ug/kg	259	54.3	1	12/10/18 15:39	12/10/18 21:08	107-05-1	
Benzene	<3.7	ug/kg	25.9	3.7	1	12/10/18 15:39	12/10/18 21:08	71-43-2	
Bromobenzene	<4.0	ug/kg	64.7	4.0	1	12/10/18 15:39	12/10/18 21:08	108-86-1	
Bromochloromethane	<22.4	ug/kg	64.7	22.4	1	12/10/18 15:39	12/10/18 21:08	74-97-5	
Bromodichloromethane	<22.1	ug/kg	64.7	22.1	1	12/10/18 15:39	12/10/18 21:08	75-27-4	
Bromoform	<98.0	ug/kg	259	98.0	1	12/10/18 15:39	12/10/18 21:08	75-25-2	
Bromomethane	<75.8	ug/kg	647	75.8	1	12/10/18 15:39	12/10/18 21:08	74-83-9	
2-Butanone (MEK)	<34.4	ug/kg	324	34.4	1	12/10/18 15:39	12/10/18 21:08	78-93-3	
n-Butylbenzene	<30.8	ug/kg	64.7	30.8	1	12/10/18 15:39	12/10/18 21:08	104-51-8	M1
sec-Butylbenzene	<12.4	ug/kg	64.7	12.4	1	12/10/18 15:39	12/10/18 21:08	135-98-8	M1
tert-Butylbenzene	<12.4	ug/kg	64.7	12.4	1	12/10/18 15:39	12/10/18 21:08	98-06-6	M1
Carbon tetrachloride	<30.9	ug/kg	64.7	30.9	1	12/10/18 15:39	12/10/18 21:08	56-23-5	
Chlorobenzene	<3.7	ug/kg	64.7	3.7	1	12/10/18 15:39	12/10/18 21:08	108-90-7	
Chloroethane	<33.7	ug/kg	647	33.7	1	12/10/18 15:39	12/10/18 21:08	75-00-3	
Chloroform	<32.4	ug/kg	64.7	32.4	1	12/10/18 15:39	12/10/18 21:08	67-66-3	
Chloromethane	<15.5	ug/kg	259	15.5	1	12/10/18 15:39	12/10/18 21:08	74-87-3	
2-Chlorotoluene	<3.2	ug/kg	64.7	3.2	1	12/10/18 15:39	12/10/18 21:08	95-49-8	
4-Chlorotoluene	<3.3	ug/kg	64.7	3.3	1	12/10/18 15:39	12/10/18 21:08	106-43-4	M1
1,2-Dibromo-3-chloropropane	<225	ug/kg	647	225	1	12/10/18 15:39	12/10/18 21:08	96-12-8	
Dibromochloromethane	<7.5	ug/kg	259	7.5	1	12/10/18 15:39	12/10/18 21:08	124-48-1	
1,2-Dibromoethane (EDB)	<6.8	ug/kg	64.7	6.8	1	12/10/18 15:39	12/10/18 21:08	106-93-4	
Dibromomethane	<11.9	ug/kg	64.7	11.9	1	12/10/18 15:39	12/10/18 21:08	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	64.7	2.6	1	12/10/18 15:39	12/10/18 21:08	95-50-1	
1,3-Dichlorobenzene	<2.4	ug/kg	64.7	2.4	1	12/10/18 15:39	12/10/18 21:08	541-73-1	
1,4-Dichlorobenzene	<4.0	ug/kg	64.7	4.0	1	12/10/18 15:39	12/10/18 21:08	106-46-7	
Dichlorodifluoromethane	<21.0	ug/kg	259	21.0	1	12/10/18 15:39	12/10/18 21:08	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (3)**      **Lab ID: 10457121020**      Collected: 11/27/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<7.3	ug/kg	64.7	7.3	1	12/10/18 15:39	12/10/18 21:08	75-34-3	
1,2-Dichloroethane	<7.1	ug/kg	64.7	7.1	1	12/10/18 15:39	12/10/18 21:08	107-06-2	
1,1-Dichloroethene	<19.4	ug/kg	64.7	19.4	1	12/10/18 15:39	12/10/18 21:08	75-35-4	
cis-1,2-Dichloroethene	<10.7	ug/kg	64.7	10.7	1	12/10/18 15:39	12/10/18 21:08	156-59-2	
trans-1,2-Dichloroethene	<30.3	ug/kg	64.7	30.3	1	12/10/18 15:39	12/10/18 21:08	156-60-5	
Dichlorofluoromethane	<89.5	ug/kg	647	89.5	1	12/10/18 15:39	12/10/18 21:08	75-43-4	N2
1,2-Dichloropropane	<11.2	ug/kg	64.7	11.2	1	12/10/18 15:39	12/10/18 21:08	78-87-5	
1,3-Dichloropropane	<9.0	ug/kg	64.7	9.0	1	12/10/18 15:39	12/10/18 21:08	142-28-9	M1
2,2-Dichloropropane	<8.1	ug/kg	259	8.1	1	12/10/18 15:39	12/10/18 21:08	594-20-7	
1,1-Dichloropropene	<29.9	ug/kg	64.7	29.9	1	12/10/18 15:39	12/10/18 21:08	563-58-6	
cis-1,3-Dichloropropene	<9.3	ug/kg	64.7	9.3	1	12/10/18 15:39	12/10/18 21:08	10061-01-5	
trans-1,3-Dichloropropene	<9.0	ug/kg	64.7	9.0	1	12/10/18 15:39	12/10/18 21:08	10061-02-6	
Diethyl ether (Ethyl ether)	<39.6	ug/kg	259	39.6	1	12/10/18 15:39	12/10/18 21:08	60-29-7	
Ethylbenzene	<3.5	ug/kg	64.7	3.5	1	12/10/18 15:39	12/10/18 21:08	100-41-4	
Hexachloro-1,3-butadiene	<15.8	ug/kg	324	15.8	1	12/10/18 15:39	12/10/18 21:08	87-68-3	M1
Isopropylbenzene (Cumene)	<2.9	ug/kg	64.7	2.9	1	12/10/18 15:39	12/10/18 21:08	98-82-8	
p-Isopropyltoluene	<19.7	ug/kg	64.7	19.7	1	12/10/18 15:39	12/10/18 21:08	99-87-6	
Methylene Chloride	133J	ug/kg	259	122	1	12/10/18 15:39	12/10/18 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.5	ug/kg	324	13.5	1	12/10/18 15:39	12/10/18 21:08	108-10-1	
Methyl-tert-butyl ether	<7.7	ug/kg	64.7	7.7	1	12/10/18 15:39	12/10/18 21:08	1634-04-4	
Naphthalene	<60.6	ug/kg	259	60.6	1	12/10/18 15:39	12/10/18 21:08	91-20-3	M1
n-Propylbenzene	<3.5	ug/kg	64.7	3.5	1	12/10/18 15:39	12/10/18 21:08	103-65-1	
Styrene	<3.0	ug/kg	64.7	3.0	1	12/10/18 15:39	12/10/18 21:08	100-42-5	M1
1,1,1,2-Tetrachloroethane	<20.3	ug/kg	64.7	20.3	1	12/10/18 15:39	12/10/18 21:08	630-20-6	
1,1,2,2-Tetrachloroethane	<11.4	ug/kg	64.7	11.4	1	12/10/18 15:39	12/10/18 21:08	79-34-5	M1
Tetrachloroethene	<22.8	ug/kg	64.7	22.8	1	12/10/18 15:39	12/10/18 21:08	127-18-4	
Tetrahydrofuran	<94.1	ug/kg	2590	94.1	1	12/10/18 15:39	12/10/18 21:08	109-99-9	
Toluene	<15.8	ug/kg	64.7	15.8	1	12/10/18 15:39	12/10/18 21:08	108-88-3	
1,2,3-Trichlorobenzene	<10.3	ug/kg	64.7	10.3	1	12/10/18 15:39	12/10/18 21:08	87-61-6	
1,2,4-Trichlorobenzene	<14.4	ug/kg	64.7	14.4	1	12/10/18 15:39	12/10/18 21:08	120-82-1	
1,1,1-Trichloroethane	<30.2	ug/kg	64.7	30.2	1	12/10/18 15:39	12/10/18 21:08	71-55-6	
1,1,2-Trichloroethane	<7.7	ug/kg	64.7	7.7	1	12/10/18 15:39	12/10/18 21:08	79-00-5	
Trichloroethene	<10	ug/kg	64.7	10	1	12/10/18 15:39	12/10/18 21:08	79-01-6	
Trichlorofluoromethane	<113	ug/kg	259	113	1	12/10/18 15:39	12/10/18 21:08	75-69-4	L2
1,2,3-Trichloropropane	<17.0	ug/kg	259	17.0	1	12/10/18 15:39	12/10/18 21:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	<75.1	ug/kg	259	75.1	1	12/10/18 15:39	12/10/18 21:08	76-13-1	
1,2,4-Trimethylbenzene	<12.9	ug/kg	64.7	12.9	1	12/10/18 15:39	12/10/18 21:08	95-63-6	
1,3,5-Trimethylbenzene	<10.3	ug/kg	64.7	10.3	1	12/10/18 15:39	12/10/18 21:08	108-67-8	
Vinyl chloride	<12.7	ug/kg	25.9	12.7	1	12/10/18 15:39	12/10/18 21:08	75-01-4	
Xylene (Total)	<15.0	ug/kg	194	15.0	1	12/10/18 15:39	12/10/18 21:08	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		1	12/10/18 15:39	12/10/18 21:08	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/10/18 15:39	12/10/18 21:08	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	12/10/18 15:39	12/10/18 21:08	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (6)**      **Lab ID: 10457121021**      Collected: 11/27/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 07:15	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 07:15	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 07:15	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 07:15	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 07:15	58-89-9	
Chlordane (Technical)	<3.9	ug/kg	21.2	3.9	1	12/05/18 16:14	12/12/18 07:15	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 07:15	5103-71-9	
gamma-Chlordane	<0.49	ug/kg	2.1	0.49	1	12/05/18 16:14	12/12/18 07:15	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 07:15	72-54-8	
4,4'-DDE	1.0J	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 07:15	72-55-9	
4,4'-DDT	<0.53	ug/kg	4.2	0.53	1	12/05/18 16:14	12/12/18 07:15	50-29-3	
Dieldrin	<0.41	ug/kg	4.2	0.41	1	12/05/18 16:14	12/12/18 07:15	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 07:15	959-98-8	
Endosulfan II	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 07:15	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 07:15	1031-07-8	
Endrin	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 07:15	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 07:15	7421-93-4	
Endrin ketone	<0.50	ug/kg	4.2	0.50	1	12/05/18 16:14	12/12/18 07:15	53494-70-5	
Heptachlor	<0.23	ug/kg	2.1	0.23	1	12/05/18 16:14	12/12/18 07:15	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 07:15	1024-57-3	
Methoxychlor	<3.2	ug/kg	21.2	3.2	1	12/05/18 16:14	12/12/18 07:15	72-43-5	
Toxaphene	<10.0	ug/kg	63.4	10.0	1	12/05/18 16:14	12/12/18 07:15	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	93	%	30-150		1	12/05/18 16:14	12/12/18 07:15	877-09-8	
Decachlorobiphenyl (S)	75	%	30-150		1	12/05/18 16:14	12/12/18 07:15	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	41.8	11.7	1	12/05/18 14:01	12/07/18 17:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.8	14.7	1	12/05/18 14:01	12/07/18 17:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.8	16.7	1	12/05/18 14:01	12/07/18 17:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.2	ug/kg	41.8	14.2	1	12/05/18 14:01	12/07/18 17:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	41.8	12.6	1	12/05/18 14:01	12/07/18 17:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.8	12.3	1	12/05/18 14:01	12/07/18 17:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.0	ug/kg	41.8	10.0	1	12/05/18 14:01	12/07/18 17:39	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	48-125		1	12/05/18 14:01	12/07/18 17:39	877-09-8	
Decachlorobiphenyl (S)	84	%	30-134		1	12/05/18 14:01	12/07/18 17:39	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.0	3.1	1	12/04/18 18:01	12/12/18 17:32	68334-30-5	
Motor Oil Range	<5.5	mg/kg	12.7	5.5	1	12/04/18 18:01	12/12/18 17:32		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/04/18 18:01	12/12/18 17:32	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/04/18 18:01	12/12/18 17:32	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (6)**      **Lab ID: 10457121021**      Collected: 11/27/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.2	1.1	1	12/10/18 16:17	12/11/18 04:18		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/10/18 16:17	12/11/18 04:18	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.3	mg/kg	6.1	2.3	5	12/07/18 10:11	12/11/18 11:09	7440-36-0	D3,M1
Arsenic	<1.3	mg/kg	6.1	1.3	5	12/07/18 10:11	12/11/18 11:09	7440-38-2	D3,M1
Beryllium	0.79J	mg/kg	1.5	0.082	5	12/07/18 10:11	12/11/18 11:09	7440-41-7	D3
Cadmium	<0.12	mg/kg	0.92	0.12	5	12/07/18 10:11	12/11/18 11:09	7440-43-9	D3
Chromium	7.6	mg/kg	3.1	0.52	5	12/07/18 10:11	12/11/18 11:09	7440-47-3	
Copper	16.8	mg/kg	3.1	0.34	5	12/07/18 10:11	12/11/18 11:09	7440-50-8	
Lead	6.2	mg/kg	3.1	0.69	5	12/07/18 10:11	12/11/18 11:09	7439-92-1	
Nickel	5.6J	mg/kg	6.1	0.38	5	12/07/18 10:11	12/11/18 11:09	7440-02-0	D3
Selenium	<2.0	mg/kg	6.1	2.0	5	12/07/18 10:11	12/11/18 11:09	7782-49-2	D3,M1
Silver	<0.22	mg/kg	3.1	0.22	5	12/07/18 10:11	12/11/18 11:09	7440-22-4	D3
Thallium	<1.4	mg/kg	6.1	1.4	5	12/07/18 10:11	12/11/18 11:09	7440-28-0	D3,M1
Zinc	88.6	mg/kg	6.1	2.7	5	12/07/18 10:11	12/11/18 11:09	7440-66-6	M1
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.040	mg/kg	0.022	0.0090	1	12/07/18 10:13	12/11/18 12:05	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.2	%	0.10	0.10	1		12/12/18 12:02		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<44.6	ug/kg	418	44.6	1	12/04/18 17:03	12/07/18 16:00	83-32-9	
Acenaphthylene	<53.3	ug/kg	418	53.3	1	12/04/18 17:03	12/07/18 16:00	208-96-8	
Anthracene	<49.0	ug/kg	418	49.0	1	12/04/18 17:03	12/07/18 16:00	120-12-7	
Benzo(a)anthracene	<43.0	ug/kg	418	43.0	1	12/04/18 17:03	12/07/18 16:00	56-55-3	
Benzo(a)pyrene	<47.4	ug/kg	418	47.4	1	12/04/18 17:03	12/07/18 16:00	50-32-8	
Benzo(b)fluoranthene	<40.9	ug/kg	418	40.9	1	12/04/18 17:03	12/07/18 16:00	205-99-2	
Benzo(g,h,i)perylene	<44.7	ug/kg	418	44.7	1	12/04/18 17:03	12/07/18 16:00	191-24-2	
Benzo(k)fluoranthene	<52.2	ug/kg	418	52.2	1	12/04/18 17:03	12/07/18 16:00	207-08-9	
4-Bromophenylphenyl ether	<49.8	ug/kg	418	49.8	1	12/04/18 17:03	12/07/18 16:00	101-55-3	
Butylbenzylphthalate	<38.3	ug/kg	418	38.3	1	12/04/18 17:03	12/07/18 16:00	85-68-7	
Carbazole	<34.7	ug/kg	418	34.7	1	12/04/18 17:03	12/07/18 16:00	86-74-8	
4-Chloro-3-methylphenol	<66.9	ug/kg	418	66.9	1	12/04/18 17:03	12/07/18 16:00	59-50-7	
4-Chloroaniline	<111	ug/kg	418	111	1	12/04/18 17:03	12/07/18 16:00	106-47-8	
bis(2-Chloroethoxy)methane	<42.8	ug/kg	418	42.8	1	12/04/18 17:03	12/07/18 16:00	111-91-1	
bis(2-Chloroethyl) ether	<33.1	ug/kg	418	33.1	1	12/04/18 17:03	12/07/18 16:00	111-44-4	
bis(2-Chloroisopropyl) ether	<43.1	ug/kg	418	43.1	1	12/04/18 17:03	12/07/18 16:00	108-60-1	
2-Chloronaphthalene	<37.0	ug/kg	418	37.0	1	12/04/18 17:03	12/07/18 16:00	91-58-7	
2-Chlorophenol	<47.6	ug/kg	418	47.6	1	12/04/18 17:03	12/07/18 16:00	95-57-8	
4-Chlorophenylphenyl ether	<51.8	ug/kg	418	51.8	1	12/04/18 17:03	12/07/18 16:00	7005-72-3	
Chrysene	<44.1	ug/kg	418	44.1	1	12/04/18 17:03	12/07/18 16:00	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (6)**      **Lab ID: 10457121021**      Collected: 11/27/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.5	ug/kg	418	44.5	1	12/04/18 17:03	12/07/18 16:00	53-70-3	
Dibenzofuran	<53.0	ug/kg	418	53.0	1	12/04/18 17:03	12/07/18 16:00	132-64-9	
1,2-Dichlorobenzene	<43.8	ug/kg	418	43.8	1	12/04/18 17:03	12/07/18 16:00	95-50-1	
1,3-Dichlorobenzene	<28.6	ug/kg	418	28.6	1	12/04/18 17:03	12/07/18 16:00	541-73-1	
1,4-Dichlorobenzene	<46.5	ug/kg	418	46.5	1	12/04/18 17:03	12/07/18 16:00	106-46-7	
3,3'-Dichlorobenzidine	<141	ug/kg	418	141	1	12/04/18 17:03	12/07/18 16:00	91-94-1	
2,4-Dichlorophenol	<69.8	ug/kg	418	69.8	1	12/04/18 17:03	12/07/18 16:00	120-83-2	
Diethylphthalate	<37.3	ug/kg	418	37.3	1	12/04/18 17:03	12/07/18 16:00	84-66-2	
2,4-Dimethylphenol	<163	ug/kg	418	163	1	12/04/18 17:03	12/07/18 16:00	105-67-9	
Dimethylphthalate	<56.8	ug/kg	418	56.8	1	12/04/18 17:03	12/07/18 16:00	131-11-3	
Di-n-butylphthalate	<57.3	ug/kg	418	57.3	1	12/04/18 17:03	12/07/18 16:00	84-74-2	
4,6-Dinitro-2-methylphenol	<414	ug/kg	2150	414	1	12/04/18 17:03	12/07/18 16:00	534-52-1	
2,4-Dinitrophenol	<195	ug/kg	418	195	1	12/04/18 17:03	12/07/18 16:00	51-28-5	
2,4-Dinitrotoluene	<53.2	ug/kg	418	53.2	1	12/04/18 17:03	12/07/18 16:00	121-14-2	
2,6-Dinitrotoluene	<55.4	ug/kg	418	55.4	1	12/04/18 17:03	12/07/18 16:00	606-20-2	
Di-n-octylphthalate	<48.5	ug/kg	418	48.5	1	12/04/18 17:03	12/07/18 16:00	117-84-0	
1,2-Diphenylhydrazine	<51.3	ug/kg	418	51.3	1	12/04/18 17:03	12/07/18 16:00	122-66-7	
bis(2-Ethylhexyl)phthalate	<87.2	ug/kg	418	87.2	1	12/04/18 17:03	12/07/18 16:00	117-81-7	
Fluoranthene	<48.0	ug/kg	418	48.0	1	12/04/18 17:03	12/07/18 16:00	206-44-0	
Fluorene	<191	ug/kg	418	191	1	12/04/18 17:03	12/07/18 16:00	86-73-7	
Hexachloro-1,3-butadiene	<63.6	ug/kg	418	63.6	1	12/04/18 17:03	12/07/18 16:00	87-68-3	
Hexachlorobenzene	<68.2	ug/kg	418	68.2	1	12/04/18 17:03	12/07/18 16:00	118-74-1	
Hexachloroethane	<54.4	ug/kg	418	54.4	1	12/04/18 17:03	12/07/18 16:00	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.2	ug/kg	418	25.2	1	12/04/18 17:03	12/07/18 16:00	193-39-5	
Isophorone	<32.2	ug/kg	418	32.2	1	12/04/18 17:03	12/07/18 16:00	78-59-1	
1-Methylnaphthalene	<38.6	ug/kg	418	38.6	1	12/04/18 17:03	12/07/18 16:00	90-12-0	
2-Methylnaphthalene	<37.8	ug/kg	418	37.8	1	12/04/18 17:03	12/07/18 16:00	91-57-6	
2-Methylphenol(o-Cresol)	<26.1	ug/kg	418	26.1	1	12/04/18 17:03	12/07/18 16:00	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.6	ug/kg	836	23.6	1	12/04/18 17:03	12/07/18 16:00		
Naphthalene	<32.2	ug/kg	418	32.2	1	12/04/18 17:03	12/07/18 16:00	91-20-3	
2-Nitroaniline	<105	ug/kg	418	105	1	12/04/18 17:03	12/07/18 16:00	88-74-4	
3-Nitroaniline	<45.6	ug/kg	418	45.6	1	12/04/18 17:03	12/07/18 16:00	99-09-2	
4-Nitroaniline	<61.1	ug/kg	418	61.1	1	12/04/18 17:03	12/07/18 16:00	100-01-6	
Nitrobenzene	<46.0	ug/kg	418	46.0	1	12/04/18 17:03	12/07/18 16:00	98-95-3	
2-Nitrophenol	<50.9	ug/kg	418	50.9	1	12/04/18 17:03	12/07/18 16:00	88-75-5	
4-Nitrophenol	<81.1	ug/kg	418	81.1	1	12/04/18 17:03	12/07/18 16:00	100-02-7	
N-Nitrosodimethylamine	<51.3	ug/kg	418	51.3	1	12/04/18 17:03	12/07/18 16:00	62-75-9	
N-Nitroso-di-n-propylamine	<191	ug/kg	418	191	1	12/04/18 17:03	12/07/18 16:00	621-64-7	
N-Nitrosodiphenylamine	<27.1	ug/kg	418	27.1	1	12/04/18 17:03	12/07/18 16:00	86-30-6	
Pentachlorophenol	<245	ug/kg	849	245	1	12/04/18 17:03	12/07/18 16:00	87-86-5	
Phenanthrene	<48.7	ug/kg	418	48.7	1	12/04/18 17:03	12/07/18 16:00	85-01-8	
Phenol	<27.4	ug/kg	418	27.4	1	12/04/18 17:03	12/07/18 16:00	108-95-2	
Pyrene	<31.8	ug/kg	418	31.8	1	12/04/18 17:03	12/07/18 16:00	129-00-0	
1,2,4-Trichlorobenzene	<45.9	ug/kg	418	45.9	1	12/04/18 17:03	12/07/18 16:00	120-82-1	
2,4,5-Trichlorophenol	<53.9	ug/kg	418	53.9	1	12/04/18 17:03	12/07/18 16:00	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (6)**      **Lab ID: 10457121021**      Collected: 11/27/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.8	ug/kg	418	64.8	1	12/04/18 17:03	12/07/18 16:00	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	46	%	43-125		1	12/04/18 17:03	12/07/18 16:00	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-132		1	12/04/18 17:03	12/07/18 16:00	321-60-8	
p-Terphenyl-d14 (S)	89	%	62-125		1	12/04/18 17:03	12/07/18 16:00	1718-51-0	
Phenol-d6 (S)	76	%	48-125		1	12/04/18 17:03	12/07/18 16:00	13127-88-3	
2-Fluorophenol (S)	74	%	40-125		1	12/04/18 17:03	12/07/18 16:00	367-12-4	
2,4,6-Tribromophenol (S)	54	%	60-125		1	12/04/18 17:03	12/07/18 16:00	118-79-6	S0
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	03/05/19 10:30	03/05/19 16:08	106-93-4	
Methylene Chloride	<4.6	ug/kg	24.9	4.6	1	03/05/19 10:30	03/05/19 16:08	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/05/19 10:30	03/05/19 16:08	17060-07-0	4M,H3
Toluene-d8 (S)	98	%	75-125		1	03/05/19 10:30	03/05/19 16:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 16:08	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<527	ug/kg	1690	527	1	12/10/18 15:39	12/11/18 01:47	67-64-1	
Allyl chloride	<71.0	ug/kg	339	71.0	1	12/10/18 15:39	12/11/18 01:47	107-05-1	
Benzene	<4.8	ug/kg	33.9	4.8	1	12/10/18 15:39	12/11/18 01:47	71-43-2	
Bromobenzene	<5.2	ug/kg	84.7	5.2	1	12/10/18 15:39	12/11/18 01:47	108-86-1	
Bromochloromethane	<29.3	ug/kg	84.7	29.3	1	12/10/18 15:39	12/11/18 01:47	74-97-5	
Bromodichloromethane	<29.0	ug/kg	84.7	29.0	1	12/10/18 15:39	12/11/18 01:47	75-27-4	
Bromoform	<128	ug/kg	339	128	1	12/10/18 15:39	12/11/18 01:47	75-25-2	
Bromomethane	<99.1	ug/kg	847	99.1	1	12/10/18 15:39	12/11/18 01:47	74-83-9	
2-Butanone (MEK)	<45.1	ug/kg	424	45.1	1	12/10/18 15:39	12/11/18 01:47	78-93-3	
n-Butylbenzene	<40.3	ug/kg	84.7	40.3	1	12/10/18 15:39	12/11/18 01:47	104-51-8	
sec-Butylbenzene	<16.2	ug/kg	84.7	16.2	1	12/10/18 15:39	12/11/18 01:47	135-98-8	
tert-Butylbenzene	<16.3	ug/kg	84.7	16.3	1	12/10/18 15:39	12/11/18 01:47	98-06-6	
Carbon tetrachloride	<40.5	ug/kg	84.7	40.5	1	12/10/18 15:39	12/11/18 01:47	56-23-5	
Chlorobenzene	<4.8	ug/kg	84.7	4.8	1	12/10/18 15:39	12/11/18 01:47	108-90-7	
Chloroethane	<44.1	ug/kg	847	44.1	1	12/10/18 15:39	12/11/18 01:47	75-00-3	
Chloroform	<42.4	ug/kg	84.7	42.4	1	12/10/18 15:39	12/11/18 01:47	67-66-3	
Chloromethane	<20.3	ug/kg	339	20.3	1	12/10/18 15:39	12/11/18 01:47	74-87-3	
2-Chlorotoluene	<4.2	ug/kg	84.7	4.2	1	12/10/18 15:39	12/11/18 01:47	95-49-8	
4-Chlorotoluene	<4.3	ug/kg	84.7	4.3	1	12/10/18 15:39	12/11/18 01:47	106-43-4	
1,2-Dibromo-3-chloropropane	<295	ug/kg	847	295	1	12/10/18 15:39	12/11/18 01:47	96-12-8	
Dibromochloromethane	<9.8	ug/kg	339	9.8	1	12/10/18 15:39	12/11/18 01:47	124-48-1	
1,2-Dibromoethane (EDB)	<8.9	ug/kg	84.7	8.9	1	12/10/18 15:39	12/11/18 01:47	106-93-4	
Dibromomethane	<15.5	ug/kg	84.7	15.5	1	12/10/18 15:39	12/11/18 01:47	74-95-3	
1,2-Dichlorobenzene	<3.4	ug/kg	84.7	3.4	1	12/10/18 15:39	12/11/18 01:47	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/kg	84.7	3.1	1	12/10/18 15:39	12/11/18 01:47	541-73-1	
1,4-Dichlorobenzene	<5.3	ug/kg	84.7	5.3	1	12/10/18 15:39	12/11/18 01:47	106-46-7	
Dichlorodifluoromethane	<27.5	ug/kg	339	27.5	1	12/10/18 15:39	12/11/18 01:47	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-11 (6)**      **Lab ID: 10457121021**      Collected: 11/27/18 15:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<9.5	ug/kg	84.7	9.5	1	12/10/18 15:39	12/11/18 01:47	75-34-3	
1,2-Dichloroethane	<9.3	ug/kg	84.7	9.3	1	12/10/18 15:39	12/11/18 01:47	107-06-2	
1,1-Dichloroethene	<25.4	ug/kg	84.7	25.4	1	12/10/18 15:39	12/11/18 01:47	75-35-4	
cis-1,2-Dichloroethene	<14.0	ug/kg	84.7	14.0	1	12/10/18 15:39	12/11/18 01:47	156-59-2	
trans-1,2-Dichloroethene	<39.7	ug/kg	84.7	39.7	1	12/10/18 15:39	12/11/18 01:47	156-60-5	
Dichlorofluoromethane	<117	ug/kg	847	117	1	12/10/18 15:39	12/11/18 01:47	75-43-4	N2
1,2-Dichloropropane	<14.6	ug/kg	84.7	14.6	1	12/10/18 15:39	12/11/18 01:47	78-87-5	
1,3-Dichloropropane	<11.7	ug/kg	84.7	11.7	1	12/10/18 15:39	12/11/18 01:47	142-28-9	
2,2-Dichloropropane	<10.6	ug/kg	339	10.6	1	12/10/18 15:39	12/11/18 01:47	594-20-7	
1,1-Dichloropropene	<39.1	ug/kg	84.7	39.1	1	12/10/18 15:39	12/11/18 01:47	563-58-6	
cis-1,3-Dichloropropene	<12.1	ug/kg	84.7	12.1	1	12/10/18 15:39	12/11/18 01:47	10061-01-5	
trans-1,3-Dichloropropene	<11.8	ug/kg	84.7	11.8	1	12/10/18 15:39	12/11/18 01:47	10061-02-6	
Diethyl ether (Ethyl ether)	<51.9	ug/kg	339	51.9	1	12/10/18 15:39	12/11/18 01:47	60-29-7	
Ethylbenzene	<4.6	ug/kg	84.7	4.6	1	12/10/18 15:39	12/11/18 01:47	100-41-4	
Hexachloro-1,3-butadiene	<20.7	ug/kg	424	20.7	1	12/10/18 15:39	12/11/18 01:47	87-68-3	
Isopropylbenzene (Cumene)	<3.8	ug/kg	84.7	3.8	1	12/10/18 15:39	12/11/18 01:47	98-82-8	
p-Isopropyltoluene	<25.8	ug/kg	84.7	25.8	1	12/10/18 15:39	12/11/18 01:47	99-87-6	
Methylene Chloride	201J	ug/kg	339	159	1	12/10/18 15:39	12/11/18 01:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<17.6	ug/kg	424	17.6	1	12/10/18 15:39	12/11/18 01:47	108-10-1	
Methyl-tert-butyl ether	<10.1	ug/kg	84.7	10.1	1	12/10/18 15:39	12/11/18 01:47	1634-04-4	
Naphthalene	<79.3	ug/kg	339	79.3	1	12/10/18 15:39	12/11/18 01:47	91-20-3	
n-Propylbenzene	<4.5	ug/kg	84.7	4.5	1	12/10/18 15:39	12/11/18 01:47	103-65-1	
Styrene	<3.9	ug/kg	84.7	3.9	1	12/10/18 15:39	12/11/18 01:47	100-42-5	
1,1,1,2-Tetrachloroethane	<26.6	ug/kg	84.7	26.6	1	12/10/18 15:39	12/11/18 01:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.9	ug/kg	84.7	14.9	1	12/10/18 15:39	12/11/18 01:47	79-34-5	
Tetrachloroethene	<29.8	ug/kg	84.7	29.8	1	12/10/18 15:39	12/11/18 01:47	127-18-4	
Tetrahydrofuran	<123	ug/kg	3390	123	1	12/10/18 15:39	12/11/18 01:47	109-99-9	
Toluene	21.4J	ug/kg	84.7	20.7	1	12/10/18 15:39	12/11/18 01:47	108-88-3	
1,2,3-Trichlorobenzene	<13.5	ug/kg	84.7	13.5	1	12/10/18 15:39	12/11/18 01:47	87-61-6	
1,2,4-Trichlorobenzene	<18.8	ug/kg	84.7	18.8	1	12/10/18 15:39	12/11/18 01:47	120-82-1	
1,1,1-Trichloroethane	<39.5	ug/kg	84.7	39.5	1	12/10/18 15:39	12/11/18 01:47	71-55-6	
1,1,2-Trichloroethane	<10.1	ug/kg	84.7	10.1	1	12/10/18 15:39	12/11/18 01:47	79-00-5	
Trichloroethene	<13.1	ug/kg	84.7	13.1	1	12/10/18 15:39	12/11/18 01:47	79-01-6	
Trichlorofluoromethane	<148	ug/kg	339	148	1	12/10/18 15:39	12/11/18 01:47	75-69-4	L2
1,2,3-Trichloropropane	<22.2	ug/kg	339	22.2	1	12/10/18 15:39	12/11/18 01:47	96-18-4	
1,1,2-Trichlorotrifluoroethane	<98.3	ug/kg	339	98.3	1	12/10/18 15:39	12/11/18 01:47	76-13-1	
1,2,4-Trimethylbenzene	<16.9	ug/kg	84.7	16.9	1	12/10/18 15:39	12/11/18 01:47	95-63-6	
1,3,5-Trimethylbenzene	<13.5	ug/kg	84.7	13.5	1	12/10/18 15:39	12/11/18 01:47	108-67-8	
Vinyl chloride	<16.7	ug/kg	33.9	16.7	1	12/10/18 15:39	12/11/18 01:47	75-01-4	
Xylene (Total)	<19.7	ug/kg	254	19.7	1	12/10/18 15:39	12/11/18 01:47	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-125		1	12/10/18 15:39	12/11/18 01:47	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/10/18 15:39	12/11/18 01:47	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	12/10/18 15:39	12/11/18 01:47	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (2)**      **Lab ID: 10457121022**      Collected: 11/28/18 08:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<1.0	ug/kg	10.3	1.0	5	12/05/18 16:14	12/11/18 23:19	309-00-2	
alpha-BHC	2.5J	ug/kg	10.3	0.75	5	12/05/18 16:14	12/11/18 23:19	319-84-6	
beta-BHC	<1.4	ug/kg	10.3	1.4	5	12/05/18 16:14	12/11/18 23:19	319-85-7	
delta-BHC	<0.85	ug/kg	10.3	0.85	5	12/05/18 16:14	12/11/18 23:19	319-86-8	
gamma-BHC (Lindane)	<0.88	ug/kg	10.3	0.88	5	12/05/18 16:14	12/11/18 23:19	58-89-9	
Chlordane (Technical)	<18.8	ug/kg	103	18.8	5	12/05/18 16:14	12/11/18 23:19	57-74-9	
alpha-Chlordane	1.7J	ug/kg	10.3	0.83	5	12/05/18 16:14	12/11/18 23:19	5103-71-9	
gamma-Chlordane	5.1J	ug/kg	10.3	2.4	5	12/05/18 16:14	12/11/18 23:19	5103-74-2	
4,4'-DDD	55.5	ug/kg	20.6	1.9	5	12/05/18 16:14	12/11/18 23:19	72-54-8	M1
4,4'-DDE	318	ug/kg	20.6	1.5	5	12/05/18 16:14	12/11/18 23:19	72-55-9	M1
4,4'-DDT	5.3J	ug/kg	20.6	2.6	5	12/05/18 16:14	12/11/18 23:19	50-29-3	
Dieldrin	3.2J	ug/kg	20.6	2.0	5	12/05/18 16:14	12/11/18 23:19	60-57-1	
Endosulfan I	<0.93	ug/kg	10.3	0.93	5	12/05/18 16:14	12/11/18 23:19	959-98-8	
Endosulfan II	<2.1	ug/kg	20.6	2.1	5	12/05/18 16:14	12/11/18 23:19	33213-65-9	
Endosulfan sulfate	<2.1	ug/kg	20.6	2.1	5	12/05/18 16:14	12/11/18 23:19	1031-07-8	
Endrin	<1.8	ug/kg	20.6	1.8	5	12/05/18 16:14	12/11/18 23:19	72-20-8	
Endrin aldehyde	<6.4	ug/kg	20.6	6.4	5	12/05/18 16:14	12/11/18 23:19	7421-93-4	
Endrin ketone	<2.4	ug/kg	20.6	2.4	5	12/05/18 16:14	12/11/18 23:19	53494-70-5	
Heptachlor	<1.1	ug/kg	10.3	1.1	5	12/05/18 16:14	12/11/18 23:19	76-44-8	
Heptachlor epoxide	12.4	ug/kg	10.3	0.97	5	12/05/18 16:14	12/11/18 23:19	1024-57-3	M1
Methoxychlor	<15.5	ug/kg	103	15.5	5	12/05/18 16:14	12/11/18 23:19	72-43-5	
Toxaphene	<48.9	ug/kg	309	48.9	5	12/05/18 16:14	12/11/18 23:19	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	30-150		5	12/05/18 16:14	12/11/18 23:19	877-09-8	2M,D4
Decachlorobiphenyl (S)	85	%	30-150		5	12/05/18 16:14	12/11/18 23:19	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.4	ug/kg	40.8	11.4	1	12/05/18 14:01	12/07/18 17:55	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.3	ug/kg	40.8	14.3	1	12/05/18 14:01	12/07/18 17:55	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.3	ug/kg	40.8	16.3	1	12/05/18 14:01	12/07/18 17:55	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.8	ug/kg	40.8	13.8	1	12/05/18 14:01	12/07/18 17:55	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.2	ug/kg	40.8	12.2	1	12/05/18 14:01	12/07/18 17:55	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.0	ug/kg	40.8	12.0	1	12/05/18 14:01	12/07/18 17:55	11097-69-1	
PCB-1260 (Aroclor 1260)	134	ug/kg	40.8	9.8	1	12/05/18 14:01	12/07/18 17:55	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	61	%	48-125		1	12/05/18 14:01	12/07/18 17:55	877-09-8	
Decachlorobiphenyl (S)	75	%	30-134		1	12/05/18 14:01	12/07/18 17:55	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	334J	mg/kg	367	59.5	20	12/05/18 15:46	12/13/18 17:47	68334-30-5	M6
Motor Oil Range	525	mg/kg	245	106	20	12/05/18 15:46	12/13/18 17:47		M6
<b>Surrogates</b>									
n-Triacontane (S)	0	%	50-150		20	12/05/18 15:46	12/13/18 17:47	638-68-6	S4
o-Terphenyl (S)	0	%	50-150		20	12/05/18 15:46	12/13/18 17:47	84-15-1	S4

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (2)**      **Lab ID: 10457121022**      Collected: 11/28/18 08:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<b>8.8</b>	mg/kg	7.2	0.95	1	12/11/18 12:55	12/11/18 23:57		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	12/11/18 12:55	12/11/18 23:57	98-08-8	
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<b>&lt;0.44</b>	mg/kg	1.2	0.44	1	12/07/18 10:11	12/10/18 13:01	7440-36-0	
Arsenic	<b>2.8</b>	mg/kg	1.2	0.24	1	12/07/18 10:11	12/10/18 13:01	7440-38-2	
Beryllium	<b>0.51</b>	mg/kg	0.29	0.016	1	12/07/18 10:11	12/10/18 13:01	7440-41-7	
Cadmium	<b>0.28</b>	mg/kg	0.18	0.023	1	12/07/18 10:11	12/10/18 13:01	7440-43-9	
Chromium	<b>7.4</b>	mg/kg	0.58	0.10	1	12/07/18 10:11	12/10/18 13:01	7440-47-3	
Copper	<b>18.5</b>	mg/kg	0.58	0.065	1	12/07/18 10:11	12/10/18 13:01	7440-50-8	
Lead	<b>88.9</b>	mg/kg	0.58	0.13	1	12/07/18 10:11	12/10/18 13:01	7439-92-1	
Nickel	<b>5.7</b>	mg/kg	1.2	0.073	1	12/07/18 10:11	12/10/18 13:01	7440-02-0	
Selenium	<b>&lt;0.38</b>	mg/kg	1.2	0.38	1	12/07/18 10:11	12/10/18 13:01	7782-49-2	
Silver	<b>&lt;0.21</b>	mg/kg	2.9	0.21	5	12/07/18 10:11	12/11/18 12:05	7440-22-4	D3
Thallium	<b>&lt;0.27</b>	mg/kg	1.2	0.27	1	12/07/18 10:11	12/10/18 13:01	7440-28-0	
Zinc	<b>94.7</b>	mg/kg	1.2	0.51	1	12/07/18 10:11	12/10/18 13:01	7440-66-6	
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<b>0.048</b>	mg/kg	0.024	0.0096	1	12/07/18 10:13	12/11/18 12:11	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	<b>19.2</b>	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;43.4</b>	ug/kg	407	43.4	1	12/04/18 17:03	12/07/18 15:31	83-32-9	
Acenaphthylene	<b>&lt;51.9</b>	ug/kg	407	51.9	1	12/04/18 17:03	12/07/18 15:31	208-96-8	
Anthracene	<b>&lt;47.7</b>	ug/kg	407	47.7	1	12/04/18 17:03	12/07/18 15:31	120-12-7	
Benzo(a)anthracene	<b>&lt;41.8</b>	ug/kg	407	41.8	1	12/04/18 17:03	12/07/18 15:31	56-55-3	
Benzo(a)pyrene	<b>&lt;46.1</b>	ug/kg	407	46.1	1	12/04/18 17:03	12/07/18 15:31	50-32-8	
Benzo(b)fluoranthene	<b>&lt;39.8</b>	ug/kg	407	39.8	1	12/04/18 17:03	12/07/18 15:31	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;43.5</b>	ug/kg	407	43.5	1	12/04/18 17:03	12/07/18 15:31	191-24-2	
Benzo(k)fluoranthene	<b>&lt;50.8</b>	ug/kg	407	50.8	1	12/04/18 17:03	12/07/18 15:31	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;48.5</b>	ug/kg	407	48.5	1	12/04/18 17:03	12/07/18 15:31	101-55-3	
Butylbenzylphthalate	<b>&lt;37.2</b>	ug/kg	407	37.2	1	12/04/18 17:03	12/07/18 15:31	85-68-7	
Carbazole	<b>&lt;33.8</b>	ug/kg	407	33.8	1	12/04/18 17:03	12/07/18 15:31	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;65.1</b>	ug/kg	407	65.1	1	12/04/18 17:03	12/07/18 15:31	59-50-7	
4-Chloroaniline	<b>&lt;108</b>	ug/kg	407	108	1	12/04/18 17:03	12/07/18 15:31	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;41.7</b>	ug/kg	407	41.7	1	12/04/18 17:03	12/07/18 15:31	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;32.2</b>	ug/kg	407	32.2	1	12/04/18 17:03	12/07/18 15:31	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;41.9</b>	ug/kg	407	41.9	1	12/04/18 17:03	12/07/18 15:31	108-60-1	
2-Chloronaphthalene	<b>&lt;36.0</b>	ug/kg	407	36.0	1	12/04/18 17:03	12/07/18 15:31	91-58-7	
2-Chlorophenol	<b>&lt;46.4</b>	ug/kg	407	46.4	1	12/04/18 17:03	12/07/18 15:31	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;50.4</b>	ug/kg	407	50.4	1	12/04/18 17:03	12/07/18 15:31	7005-72-3	
Chrysene	<b>&lt;42.9</b>	ug/kg	407	42.9	1	12/04/18 17:03	12/07/18 15:31	218-01-9	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (2)**      **Lab ID: 10457121022**      Collected: 11/28/18 08:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<43.3	ug/kg	407	43.3	1	12/04/18 17:03	12/07/18 15:31	53-70-3	
Dibenzofuran	<51.5	ug/kg	407	51.5	1	12/04/18 17:03	12/07/18 15:31	132-64-9	
1,2-Dichlorobenzene	<42.7	ug/kg	407	42.7	1	12/04/18 17:03	12/07/18 15:31	95-50-1	
1,3-Dichlorobenzene	<27.9	ug/kg	407	27.9	1	12/04/18 17:03	12/07/18 15:31	541-73-1	
1,4-Dichlorobenzene	<45.3	ug/kg	407	45.3	1	12/04/18 17:03	12/07/18 15:31	106-46-7	
3,3'-Dichlorobenzidine	<137	ug/kg	407	137	1	12/04/18 17:03	12/07/18 15:31	91-94-1	
2,4-Dichlorophenol	<67.9	ug/kg	407	67.9	1	12/04/18 17:03	12/07/18 15:31	120-83-2	
Diethylphthalate	<36.2	ug/kg	407	36.2	1	12/04/18 17:03	12/07/18 15:31	84-66-2	
2,4-Dimethylphenol	<159	ug/kg	407	159	1	12/04/18 17:03	12/07/18 15:31	105-67-9	
Dimethylphthalate	<55.2	ug/kg	407	55.2	1	12/04/18 17:03	12/07/18 15:31	131-11-3	
Di-n-butylphthalate	<55.7	ug/kg	407	55.7	1	12/04/18 17:03	12/07/18 15:31	84-74-2	
4,6-Dinitro-2-methylphenol	<403	ug/kg	2100	403	1	12/04/18 17:03	12/07/18 15:31	534-52-1	
2,4-Dinitrophenol	<190	ug/kg	407	190	1	12/04/18 17:03	12/07/18 15:31	51-28-5	
2,4-Dinitrotoluene	<51.8	ug/kg	407	51.8	1	12/04/18 17:03	12/07/18 15:31	121-14-2	
2,6-Dinitrotoluene	<53.9	ug/kg	407	53.9	1	12/04/18 17:03	12/07/18 15:31	606-20-2	
Di-n-octylphthalate	<47.2	ug/kg	407	47.2	1	12/04/18 17:03	12/07/18 15:31	117-84-0	
1,2-Diphenylhydrazine	<49.9	ug/kg	407	49.9	1	12/04/18 17:03	12/07/18 15:31	122-66-7	
bis(2-Ethylhexyl)phthalate	145J	ug/kg	407	84.8	1	12/04/18 17:03	12/07/18 15:31	117-81-7	
Fluoranthene	<46.7	ug/kg	407	46.7	1	12/04/18 17:03	12/07/18 15:31	206-44-0	
Fluorene	<186	ug/kg	407	186	1	12/04/18 17:03	12/07/18 15:31	86-73-7	
Hexachloro-1,3-butadiene	<61.9	ug/kg	407	61.9	1	12/04/18 17:03	12/07/18 15:31	87-68-3	
Hexachlorobenzene	<66.3	ug/kg	407	66.3	1	12/04/18 17:03	12/07/18 15:31	118-74-1	
Hexachloroethane	<52.9	ug/kg	407	52.9	1	12/04/18 17:03	12/07/18 15:31	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.5	ug/kg	407	24.5	1	12/04/18 17:03	12/07/18 15:31	193-39-5	
Isophorone	<31.3	ug/kg	407	31.3	1	12/04/18 17:03	12/07/18 15:31	78-59-1	
1-Methylnaphthalene	<37.6	ug/kg	407	37.6	1	12/04/18 17:03	12/07/18 15:31	90-12-0	
2-Methylnaphthalene	<36.7	ug/kg	407	36.7	1	12/04/18 17:03	12/07/18 15:31	91-57-6	
2-Methylphenol(o-Cresol)	<25.4	ug/kg	407	25.4	1	12/04/18 17:03	12/07/18 15:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.9	ug/kg	814	22.9	1	12/04/18 17:03	12/07/18 15:31		
Naphthalene	<31.3	ug/kg	407	31.3	1	12/04/18 17:03	12/07/18 15:31	91-20-3	
2-Nitroaniline	<102	ug/kg	407	102	1	12/04/18 17:03	12/07/18 15:31	88-74-4	
3-Nitroaniline	<44.4	ug/kg	407	44.4	1	12/04/18 17:03	12/07/18 15:31	99-09-2	
4-Nitroaniline	<59.4	ug/kg	407	59.4	1	12/04/18 17:03	12/07/18 15:31	100-01-6	
Nitrobenzene	<44.8	ug/kg	407	44.8	1	12/04/18 17:03	12/07/18 15:31	98-95-3	
2-Nitrophenol	<49.6	ug/kg	407	49.6	1	12/04/18 17:03	12/07/18 15:31	88-75-5	
4-Nitrophenol	<78.9	ug/kg	407	78.9	1	12/04/18 17:03	12/07/18 15:31	100-02-7	
N-Nitrosodimethylamine	<49.9	ug/kg	407	49.9	1	12/04/18 17:03	12/07/18 15:31	62-75-9	
N-Nitroso-di-n-propylamine	<186	ug/kg	407	186	1	12/04/18 17:03	12/07/18 15:31	621-64-7	
N-Nitrosodiphenylamine	<26.4	ug/kg	407	26.4	1	12/04/18 17:03	12/07/18 15:31	86-30-6	
Pentachlorophenol	<238	ug/kg	826	238	1	12/04/18 17:03	12/07/18 15:31	87-86-5	
Phenanthrene	<47.3	ug/kg	407	47.3	1	12/04/18 17:03	12/07/18 15:31	85-01-8	
Phenol	<26.6	ug/kg	407	26.6	1	12/04/18 17:03	12/07/18 15:31	108-95-2	
Pyrene	<30.9	ug/kg	407	30.9	1	12/04/18 17:03	12/07/18 15:31	129-00-0	
1,2,4-Trichlorobenzene	<44.6	ug/kg	407	44.6	1	12/04/18 17:03	12/07/18 15:31	120-82-1	
2,4,5-Trichlorophenol	<52.4	ug/kg	407	52.4	1	12/04/18 17:03	12/07/18 15:31	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (2)**      **Lab ID: 10457121022**      Collected: 11/28/18 08:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<63.0	ug/kg	407	63.0	1	12/04/18 17:03	12/07/18 15:31	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	69	%	43-125		1	12/04/18 17:03	12/07/18 15:31	4165-60-0	
2-Fluorobiphenyl (S)	79	%	30-132		1	12/04/18 17:03	12/07/18 15:31	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 15:31	1718-51-0	
Phenol-d6 (S)	69	%	48-125		1	12/04/18 17:03	12/07/18 15:31	13127-88-3	
2-Fluorophenol (S)	59	%	40-125		1	12/04/18 17:03	12/07/18 15:31	367-12-4	
2,4,6-Tribromophenol (S)	73	%	60-125		1	12/04/18 17:03	12/07/18 15:31	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 16:27	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.2	4.4	1	03/05/19 10:30	03/05/19 16:27	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	119	%	75-125		1	03/05/19 10:30	03/05/19 16:27	17060-07-0	4M,H3
Toluene-d8 (S)	101	%	75-125		1	03/05/19 10:30	03/05/19 16:27	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 16:27	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<398	ug/kg	1280	398	1	12/11/18 16:21	12/12/18 05:29	67-64-1	
Allyl chloride	<53.7	ug/kg	256	53.7	1	12/11/18 16:21	12/12/18 05:29	107-05-1	
Benzene	<3.6	ug/kg	25.6	3.6	1	12/11/18 16:21	12/12/18 05:29	71-43-2	
Bromobenzene	<3.9	ug/kg	64.0	3.9	1	12/11/18 16:21	12/12/18 05:29	108-86-1	
Bromochloromethane	<22.2	ug/kg	64.0	22.2	1	12/11/18 16:21	12/12/18 05:29	74-97-5	
Bromodichloromethane	<21.9	ug/kg	64.0	21.9	1	12/11/18 16:21	12/12/18 05:29	75-27-4	
Bromoform	<96.9	ug/kg	256	96.9	1	12/11/18 16:21	12/12/18 05:29	75-25-2	
Bromomethane	<74.9	ug/kg	640	74.9	1	12/11/18 16:21	12/12/18 05:29	74-83-9	
2-Butanone (MEK)	<34.1	ug/kg	320	34.1	1	12/11/18 16:21	12/12/18 05:29	78-93-3	
n-Butylbenzene	<30.5	ug/kg	64.0	30.5	1	12/11/18 16:21	12/12/18 05:29	104-51-8	
sec-Butylbenzene	<12.3	ug/kg	64.0	12.3	1	12/11/18 16:21	12/12/18 05:29	135-98-8	
tert-Butylbenzene	<12.3	ug/kg	64.0	12.3	1	12/11/18 16:21	12/12/18 05:29	98-06-6	
Carbon tetrachloride	<30.6	ug/kg	256	30.6	1	12/11/18 16:21	12/12/18 05:29	56-23-5	
Chlorobenzene	<3.6	ug/kg	64.0	3.6	1	12/11/18 16:21	12/12/18 05:29	108-90-7	
Chloroethane	<33.3	ug/kg	640	33.3	1	12/11/18 16:21	12/12/18 05:29	75-00-3	
Chloroform	<32.0	ug/kg	64.0	32.0	1	12/11/18 16:21	12/12/18 05:29	67-66-3	
Chloromethane	<15.4	ug/kg	256	15.4	1	12/11/18 16:21	12/12/18 05:29	74-87-3	
2-Chlorotoluene	<3.2	ug/kg	64.0	3.2	1	12/11/18 16:21	12/12/18 05:29	95-49-8	
4-Chlorotoluene	<3.3	ug/kg	64.0	3.3	1	12/11/18 16:21	12/12/18 05:29	106-43-4	
1,2-Dibromo-3-chloropropane	<223	ug/kg	640	223	1	12/11/18 16:21	12/12/18 05:29	96-12-8	
Dibromochloromethane	<7.4	ug/kg	256	7.4	1	12/11/18 16:21	12/12/18 05:29	124-48-1	
1,2-Dibromoethane (EDB)	<6.7	ug/kg	64.0	6.7	1	12/11/18 16:21	12/12/18 05:29	106-93-4	
Dibromomethane	<11.7	ug/kg	64.0	11.7	1	12/11/18 16:21	12/12/18 05:29	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	64.0	2.6	1	12/11/18 16:21	12/12/18 05:29	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/kg	64.0	2.3	1	12/11/18 16:21	12/12/18 05:29	541-73-1	
1,4-Dichlorobenzene	<4.0	ug/kg	64.0	4.0	1	12/11/18 16:21	12/12/18 05:29	106-46-7	
Dichlorodifluoromethane	<20.7	ug/kg	256	20.7	1	12/11/18 16:21	12/12/18 05:29	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (2)**      **Lab ID: 10457121022**      Collected: 11/28/18 08:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<7.2	ug/kg	64.0	7.2	1	12/11/18 16:21	12/12/18 05:29	75-34-3	
1,2-Dichloroethane	<7.0	ug/kg	64.0	7.0	1	12/11/18 16:21	12/12/18 05:29	107-06-2	
1,1-Dichloroethene	<19.2	ug/kg	64.0	19.2	1	12/11/18 16:21	12/12/18 05:29	75-35-4	
cis-1,2-Dichloroethene	<10.6	ug/kg	64.0	10.6	1	12/11/18 16:21	12/12/18 05:29	156-59-2	
trans-1,2-Dichloroethene	<30.0	ug/kg	64.0	30.0	1	12/11/18 16:21	12/12/18 05:29	156-60-5	
Dichlorofluoromethane	<88.5	ug/kg	640	88.5	1	12/11/18 16:21	12/12/18 05:29	75-43-4	N2
1,2-Dichloropropane	<11.0	ug/kg	64.0	11.0	1	12/11/18 16:21	12/12/18 05:29	78-87-5	
1,3-Dichloropropane	<8.9	ug/kg	64.0	8.9	1	12/11/18 16:21	12/12/18 05:29	142-28-9	
2,2-Dichloropropane	<8.0	ug/kg	256	8.0	1	12/11/18 16:21	12/12/18 05:29	594-20-7	
1,1-Dichloropropene	<29.6	ug/kg	256	29.6	1	12/11/18 16:21	12/12/18 05:29	563-58-6	
cis-1,3-Dichloropropene	<9.2	ug/kg	64.0	9.2	1	12/11/18 16:21	12/12/18 05:29	10061-01-5	
trans-1,3-Dichloropropene	<8.9	ug/kg	64.0	8.9	1	12/11/18 16:21	12/12/18 05:29	10061-02-6	
Diethyl ether (Ethyl ether)	<39.2	ug/kg	256	39.2	1	12/11/18 16:21	12/12/18 05:29	60-29-7	
Ethylbenzene	<3.5	ug/kg	64.0	3.5	1	12/11/18 16:21	12/12/18 05:29	100-41-4	
Hexachloro-1,3-butadiene	<15.6	ug/kg	320	15.6	1	12/11/18 16:21	12/12/18 05:29	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	64.0	2.8	1	12/11/18 16:21	12/12/18 05:29	98-82-8	
p-Isopropyltoluene	<19.5	ug/kg	64.0	19.5	1	12/11/18 16:21	12/12/18 05:29	99-87-6	
Methylene Chloride	<121	ug/kg	256	121	1	12/11/18 16:21	12/12/18 05:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.3	ug/kg	320	13.3	1	12/11/18 16:21	12/12/18 05:29	108-10-1	
Methyl-tert-butyl ether	<7.6	ug/kg	64.0	7.6	1	12/11/18 16:21	12/12/18 05:29	1634-04-4	
Naphthalene	<59.9	ug/kg	256	59.9	1	12/11/18 16:21	12/12/18 05:29	91-20-3	
n-Propylbenzene	<3.4	ug/kg	64.0	3.4	1	12/11/18 16:21	12/12/18 05:29	103-65-1	
Styrene	<2.9	ug/kg	64.0	2.9	1	12/11/18 16:21	12/12/18 05:29	100-42-5	
1,1,1,2-Tetrachloroethane	<20.1	ug/kg	64.0	20.1	1	12/11/18 16:21	12/12/18 05:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.3	ug/kg	64.0	11.3	1	12/11/18 16:21	12/12/18 05:29	79-34-5	
Tetrachloroethene	<22.5	ug/kg	64.0	22.5	1	12/11/18 16:21	12/12/18 05:29	127-18-4	
Tetrahydrofuran	<93.1	ug/kg	2560	93.1	1	12/11/18 16:21	12/12/18 05:29	109-99-9	
Toluene	<15.6	ug/kg	64.0	15.6	1	12/11/18 16:21	12/12/18 05:29	108-88-3	
1,2,3-Trichlorobenzene	<10.2	ug/kg	64.0	10.2	1	12/11/18 16:21	12/12/18 05:29	87-61-6	
1,2,4-Trichlorobenzene	<14.2	ug/kg	64.0	14.2	1	12/11/18 16:21	12/12/18 05:29	120-82-1	
1,1,1-Trichloroethane	<29.8	ug/kg	64.0	29.8	1	12/11/18 16:21	12/12/18 05:29	71-55-6	
1,1,2-Trichloroethane	<7.7	ug/kg	64.0	7.7	1	12/11/18 16:21	12/12/18 05:29	79-00-5	
Trichloroethene	<9.9	ug/kg	64.0	9.9	1	12/11/18 16:21	12/12/18 05:29	79-01-6	
Trichlorofluoromethane	<112	ug/kg	256	112	1	12/11/18 16:21	12/12/18 05:29	75-69-4	
1,2,3-Trichloropropane	<16.8	ug/kg	256	16.8	1	12/11/18 16:21	12/12/18 05:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	<74.3	ug/kg	256	74.3	1	12/11/18 16:21	12/12/18 05:29	76-13-1	
1,2,4-Trimethylbenzene	<12.8	ug/kg	64.0	12.8	1	12/11/18 16:21	12/12/18 05:29	95-63-6	
1,3,5-Trimethylbenzene	<10.2	ug/kg	64.0	10.2	1	12/11/18 16:21	12/12/18 05:29	108-67-8	
Vinyl chloride	<12.6	ug/kg	64.0	12.6	1	12/11/18 16:21	12/12/18 05:29	75-01-4	
Xylene (Total)	<14.9	ug/kg	192	14.9	1	12/11/18 16:21	12/12/18 05:29	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	104	%	75-125		1	12/11/18 16:21	12/12/18 05:29	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1	12/11/18 16:21	12/12/18 05:29	2037-26-5	
4-Bromofluorobenzene (S)	107	%	75-125		1	12/11/18 16:21	12/12/18 05:29	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (5)**      **Lab ID: 10457121023**      Collected: 11/28/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.23	ug/kg	2.3	0.23	1	12/05/18 16:14	12/12/18 07:33	309-00-2	
alpha-BHC	<0.17	ug/kg	2.3	0.17	1	12/05/18 16:14	12/12/18 07:33	319-84-6	
beta-BHC	<0.31	ug/kg	2.3	0.31	1	12/05/18 16:14	12/12/18 07:33	319-85-7	
delta-BHC	<0.19	ug/kg	2.3	0.19	1	12/05/18 16:14	12/12/18 07:33	319-86-8	
gamma-BHC (Lindane)	<0.20	ug/kg	2.3	0.20	1	12/05/18 16:14	12/12/18 07:33	58-89-9	
Chlordane (Technical)	<4.2	ug/kg	23.3	4.2	1	12/05/18 16:14	12/12/18 07:33	57-74-9	
alpha-Chlordane	<0.19	ug/kg	2.3	0.19	1	12/05/18 16:14	12/12/18 07:33	5103-71-9	
gamma-Chlordane	<0.54	ug/kg	2.3	0.54	1	12/05/18 16:14	12/12/18 07:33	5103-74-2	
4,4'-DDD	<0.42	ug/kg	4.6	0.42	1	12/05/18 16:14	12/12/18 07:33	72-54-8	
4,4'-DDE	4.1J	ug/kg	4.6	0.35	1	12/05/18 16:14	12/12/18 07:33	72-55-9	
4,4'-DDT	1.3J	ug/kg	4.6	0.58	1	12/05/18 16:14	12/12/18 07:33	50-29-3	
Dieldrin	<0.45	ug/kg	4.6	0.45	1	12/05/18 16:14	12/12/18 07:33	60-57-1	
Endosulfan I	<0.21	ug/kg	2.3	0.21	1	12/05/18 16:14	12/12/18 07:33	959-98-8	
Endosulfan II	<0.47	ug/kg	4.6	0.47	1	12/05/18 16:14	12/12/18 07:33	33213-65-9	
Endosulfan sulfate	<0.48	ug/kg	4.6	0.48	1	12/05/18 16:14	12/12/18 07:33	1031-07-8	
Endrin	<0.41	ug/kg	4.6	0.41	1	12/05/18 16:14	12/12/18 07:33	72-20-8	
Endrin aldehyde	<1.5	ug/kg	4.6	1.5	1	12/05/18 16:14	12/12/18 07:33	7421-93-4	
Endrin ketone	<0.55	ug/kg	4.6	0.55	1	12/05/18 16:14	12/12/18 07:33	53494-70-5	
Heptachlor	<0.25	ug/kg	2.3	0.25	1	12/05/18 16:14	12/12/18 07:33	76-44-8	
Heptachlor epoxide	<0.22	ug/kg	2.3	0.22	1	12/05/18 16:14	12/12/18 07:33	1024-57-3	
Methoxychlor	<3.5	ug/kg	23.3	3.5	1	12/05/18 16:14	12/12/18 07:33	72-43-5	
Toxaphene	<11.0	ug/kg	69.8	11.0	1	12/05/18 16:14	12/12/18 07:33	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	30-150		1	12/05/18 16:14	12/12/18 07:33	877-09-8	
Decachlorobiphenyl (S)	66	%	30-150		1	12/05/18 16:14	12/12/18 07:33	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.8	ug/kg	46.0	12.8	1	12/05/18 14:01	12/07/18 18:10	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.2	ug/kg	46.0	16.2	1	12/05/18 14:01	12/07/18 18:10	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.4	ug/kg	46.0	18.4	1	12/05/18 14:01	12/07/18 18:10	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	46.0	15.6	1	12/05/18 14:01	12/07/18 18:10	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.8	ug/kg	46.0	13.8	1	12/05/18 14:01	12/07/18 18:10	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.5	ug/kg	46.0	13.5	1	12/05/18 14:01	12/07/18 18:10	11097-69-1	
PCB-1260 (Aroclor 1260)	22.5J	ug/kg	46.0	11.0	1	12/05/18 14:01	12/07/18 18:10	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/05/18 14:01	12/07/18 18:10	877-09-8	
Decachlorobiphenyl (S)	78	%	30-134		1	12/05/18 14:01	12/07/18 18:10	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	162	mg/kg	20.9	3.4	1	12/05/18 15:46	12/13/18 11:00	68334-30-5	
Motor Oil Range	282	mg/kg	13.9	6.1	1	12/05/18 15:46	12/13/18 11:00		
<b>Surrogates</b>									
n-Triacontane (S)	95	%	50-150		1	12/05/18 15:46	12/13/18 11:00	638-68-6	
o-Terphenyl (S)	88	%	50-150		1	12/05/18 15:46	12/13/18 11:00	84-15-1	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (5)**      **Lab ID: 10457121023**      Collected: 11/28/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.98	mg/kg	7.5	0.98	1	12/11/18 12:55	12/12/18 00:14		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 12:55	12/12/18 00:14	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.53	mg/kg	1.4	0.53	1	12/07/18 10:11	12/10/18 13:03	7440-36-0	
Arsenic	1.6	mg/kg	1.4	0.29	1	12/07/18 10:11	12/10/18 13:03	7440-38-2	
Beryllium	0.57	mg/kg	0.35	0.019	1	12/07/18 10:11	12/10/18 13:03	7440-41-7	
Cadmium	0.058J	mg/kg	0.21	0.028	1	12/07/18 10:11	12/10/18 13:03	7440-43-9	
Chromium	7.5	mg/kg	0.70	0.12	1	12/07/18 10:11	12/10/18 13:03	7440-47-3	
Copper	18.7	mg/kg	0.70	0.078	1	12/07/18 10:11	12/10/18 13:03	7440-50-8	
Lead	77.0	mg/kg	0.70	0.16	1	12/07/18 10:11	12/10/18 13:03	7439-92-1	
Nickel	5.2	mg/kg	1.4	0.088	1	12/07/18 10:11	12/10/18 13:03	7440-02-0	
Selenium	<0.46	mg/kg	1.4	0.46	1	12/07/18 10:11	12/10/18 13:03	7782-49-2	
Silver	<0.25	mg/kg	3.5	0.25	5	12/07/18 10:11	12/11/18 12:08	7440-22-4	D3
Thallium	0.40J	mg/kg	1.4	0.32	1	12/07/18 10:11	12/10/18 13:03	7440-28-0	
Zinc	60.6	mg/kg	1.4	0.61	1	12/07/18 10:11	12/10/18 13:03	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.031	mg/kg	0.025	0.010	1	12/07/18 10:13	12/11/18 12:13	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	28.5	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<49.0	ug/kg	460	49.0	1	12/04/18 17:03	12/07/18 16:28	83-32-9	
Acenaphthylene	<58.6	ug/kg	460	58.6	1	12/04/18 17:03	12/07/18 16:28	208-96-8	
Anthracene	<53.9	ug/kg	460	53.9	1	12/04/18 17:03	12/07/18 16:28	120-12-7	
Benzo(a)anthracene	<47.2	ug/kg	460	47.2	1	12/04/18 17:03	12/07/18 16:28	56-55-3	
Benzo(a)pyrene	<52.1	ug/kg	460	52.1	1	12/04/18 17:03	12/07/18 16:28	50-32-8	
Benzo(b)fluoranthene	<45.0	ug/kg	460	45.0	1	12/04/18 17:03	12/07/18 16:28	205-99-2	
Benzo(g,h,i)perylene	<49.2	ug/kg	460	49.2	1	12/04/18 17:03	12/07/18 16:28	191-24-2	
Benzo(k)fluoranthene	<57.4	ug/kg	460	57.4	1	12/04/18 17:03	12/07/18 16:28	207-08-9	
4-Bromophenylphenyl ether	<54.7	ug/kg	460	54.7	1	12/04/18 17:03	12/07/18 16:28	101-55-3	
Butylbenzylphthalate	<42.1	ug/kg	460	42.1	1	12/04/18 17:03	12/07/18 16:28	85-68-7	
Carbazole	<38.2	ug/kg	460	38.2	1	12/04/18 17:03	12/07/18 16:28	86-74-8	
4-Chloro-3-methylphenol	<73.5	ug/kg	460	73.5	1	12/04/18 17:03	12/07/18 16:28	59-50-7	
4-Chloroaniline	<122	ug/kg	460	122	1	12/04/18 17:03	12/07/18 16:28	106-47-8	
bis(2-Chloroethoxy)methane	<47.1	ug/kg	460	47.1	1	12/04/18 17:03	12/07/18 16:28	111-91-1	
bis(2-Chloroethyl) ether	<36.4	ug/kg	460	36.4	1	12/04/18 17:03	12/07/18 16:28	111-44-4	
bis(2-Chloroisopropyl) ether	<47.4	ug/kg	460	47.4	1	12/04/18 17:03	12/07/18 16:28	108-60-1	
2-Chloronaphthalene	<40.7	ug/kg	460	40.7	1	12/04/18 17:03	12/07/18 16:28	91-58-7	
2-Chlorophenol	<52.4	ug/kg	460	52.4	1	12/04/18 17:03	12/07/18 16:28	95-57-8	
4-Chlorophenylphenyl ether	<57.0	ug/kg	460	57.0	1	12/04/18 17:03	12/07/18 16:28	7005-72-3	
Chrysene	<48.5	ug/kg	460	48.5	1	12/04/18 17:03	12/07/18 16:28	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (5)**      **Lab ID: 10457121023**      Collected: 11/28/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<48.9	ug/kg	460	48.9	1	12/04/18 17:03	12/07/18 16:28	53-70-3	
Dibenzofuran	<58.2	ug/kg	460	58.2	1	12/04/18 17:03	12/07/18 16:28	132-64-9	
1,2-Dichlorobenzene	<48.2	ug/kg	460	48.2	1	12/04/18 17:03	12/07/18 16:28	95-50-1	
1,3-Dichlorobenzene	<31.5	ug/kg	460	31.5	1	12/04/18 17:03	12/07/18 16:28	541-73-1	
1,4-Dichlorobenzene	<51.1	ug/kg	460	51.1	1	12/04/18 17:03	12/07/18 16:28	106-46-7	
3,3'-Dichlorobenzidine	<154	ug/kg	460	154	1	12/04/18 17:03	12/07/18 16:28	91-94-1	
2,4-Dichlorophenol	<76.7	ug/kg	460	76.7	1	12/04/18 17:03	12/07/18 16:28	120-83-2	
Diethylphthalate	<40.9	ug/kg	460	40.9	1	12/04/18 17:03	12/07/18 16:28	84-66-2	
2,4-Dimethylphenol	<180	ug/kg	460	180	1	12/04/18 17:03	12/07/18 16:28	105-67-9	
Dimethylphthalate	<62.4	ug/kg	460	62.4	1	12/04/18 17:03	12/07/18 16:28	131-11-3	
Di-n-butylphthalate	<63.0	ug/kg	460	63.0	1	12/04/18 17:03	12/07/18 16:28	84-74-2	
4,6-Dinitro-2-methylphenol	<455	ug/kg	2370	455	1	12/04/18 17:03	12/07/18 16:28	534-52-1	
2,4-Dinitrophenol	<214	ug/kg	460	214	1	12/04/18 17:03	12/07/18 16:28	51-28-5	
2,4-Dinitrotoluene	<58.5	ug/kg	460	58.5	1	12/04/18 17:03	12/07/18 16:28	121-14-2	
2,6-Dinitrotoluene	<60.9	ug/kg	460	60.9	1	12/04/18 17:03	12/07/18 16:28	606-20-2	
Di-n-octylphthalate	<53.3	ug/kg	460	53.3	1	12/04/18 17:03	12/07/18 16:28	117-84-0	
1,2-Diphenylhydrazine	<56.4	ug/kg	460	56.4	1	12/04/18 17:03	12/07/18 16:28	122-66-7	
bis(2-Ethylhexyl)phthalate	<95.8	ug/kg	460	95.8	1	12/04/18 17:03	12/07/18 16:28	117-81-7	
Fluoranthene	<52.8	ug/kg	460	52.8	1	12/04/18 17:03	12/07/18 16:28	206-44-0	
Fluorene	<210	ug/kg	460	210	1	12/04/18 17:03	12/07/18 16:28	86-73-7	
Hexachloro-1,3-butadiene	<69.9	ug/kg	460	69.9	1	12/04/18 17:03	12/07/18 16:28	87-68-3	
Hexachlorobenzene	<74.9	ug/kg	460	74.9	1	12/04/18 17:03	12/07/18 16:28	118-74-1	
Hexachloroethane	<59.7	ug/kg	460	59.7	1	12/04/18 17:03	12/07/18 16:28	67-72-1	
Indeno(1,2,3-cd)pyrene	<27.7	ug/kg	460	27.7	1	12/04/18 17:03	12/07/18 16:28	193-39-5	
Isophorone	<35.4	ug/kg	460	35.4	1	12/04/18 17:03	12/07/18 16:28	78-59-1	
1-Methylnaphthalene	<42.5	ug/kg	460	42.5	1	12/04/18 17:03	12/07/18 16:28	90-12-0	
2-Methylnaphthalene	<41.5	ug/kg	460	41.5	1	12/04/18 17:03	12/07/18 16:28	91-57-6	
2-Methylphenol(o-Cresol)	<28.7	ug/kg	460	28.7	1	12/04/18 17:03	12/07/18 16:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	<25.9	ug/kg	919	25.9	1	12/04/18 17:03	12/07/18 16:28		
Naphthalene	<35.4	ug/kg	460	35.4	1	12/04/18 17:03	12/07/18 16:28	91-20-3	
2-Nitroaniline	<115	ug/kg	460	115	1	12/04/18 17:03	12/07/18 16:28	88-74-4	
3-Nitroaniline	<50.1	ug/kg	460	50.1	1	12/04/18 17:03	12/07/18 16:28	99-09-2	
4-Nitroaniline	<67.1	ug/kg	460	67.1	1	12/04/18 17:03	12/07/18 16:28	100-01-6	
Nitrobenzene	<50.6	ug/kg	460	50.6	1	12/04/18 17:03	12/07/18 16:28	98-95-3	
2-Nitrophenol	<56.0	ug/kg	460	56.0	1	12/04/18 17:03	12/07/18 16:28	88-75-5	
4-Nitrophenol	<89.1	ug/kg	460	89.1	1	12/04/18 17:03	12/07/18 16:28	100-02-7	
N-Nitrosodimethylamine	<56.4	ug/kg	460	56.4	1	12/04/18 17:03	12/07/18 16:28	62-75-9	
N-Nitroso-di-n-propylamine	<210	ug/kg	460	210	1	12/04/18 17:03	12/07/18 16:28	621-64-7	
N-Nitrosodiphenylamine	<29.8	ug/kg	460	29.8	1	12/04/18 17:03	12/07/18 16:28	86-30-6	
Pentachlorophenol	<269	ug/kg	933	269	1	12/04/18 17:03	12/07/18 16:28	87-86-5	
Phenanthrene	<53.5	ug/kg	460	53.5	1	12/04/18 17:03	12/07/18 16:28	85-01-8	
Phenol	<30.1	ug/kg	460	30.1	1	12/04/18 17:03	12/07/18 16:28	108-95-2	
Pyrene	<35.0	ug/kg	460	35.0	1	12/04/18 17:03	12/07/18 16:28	129-00-0	
1,2,4-Trichlorobenzene	<50.4	ug/kg	460	50.4	1	12/04/18 17:03	12/07/18 16:28	120-82-1	
2,4,5-Trichlorophenol	<59.2	ug/kg	460	59.2	1	12/04/18 17:03	12/07/18 16:28	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (5)**      **Lab ID: 10457121023**      Collected: 11/28/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<71.2	ug/kg	460	71.2	1	12/04/18 17:03	12/07/18 16:28	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	58	%	43-125		1	12/04/18 17:03	12/07/18 16:28	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-132		1	12/04/18 17:03	12/07/18 16:28	321-60-8	
p-Terphenyl-d14 (S)	87	%	62-125		1	12/04/18 17:03	12/07/18 16:28	1718-51-0	
Phenol-d6 (S)	68	%	48-125		1	12/04/18 17:03	12/07/18 16:28	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/04/18 17:03	12/07/18 16:28	367-12-4	
2,4,6-Tribromophenol (S)	74	%	60-125		1	12/04/18 17:03	12/07/18 16:28	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/05/19 10:30	03/05/19 16:46	106-93-4	
Methylene Chloride	<4.8	ug/kg	26.0	4.8	1	03/05/19 10:30	03/05/19 16:46	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/05/19 10:30	03/05/19 16:46	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 16:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 16:46	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<527	ug/kg	1700	527	1	12/11/18 16:21	12/12/18 05:51	67-64-1	
Allyl chloride	<71.0	ug/kg	339	71.0	1	12/11/18 16:21	12/12/18 05:51	107-05-1	
Benzene	<4.8	ug/kg	33.9	4.8	1	12/11/18 16:21	12/12/18 05:51	71-43-2	
Bromobenzene	<5.2	ug/kg	84.8	5.2	1	12/11/18 16:21	12/12/18 05:51	108-86-1	
Bromochloromethane	<29.3	ug/kg	84.8	29.3	1	12/11/18 16:21	12/12/18 05:51	74-97-5	
Bromodichloromethane	<29.0	ug/kg	84.8	29.0	1	12/11/18 16:21	12/12/18 05:51	75-27-4	
Bromoform	<128	ug/kg	339	128	1	12/11/18 16:21	12/12/18 05:51	75-25-2	
Bromomethane	<99.2	ug/kg	848	99.2	1	12/11/18 16:21	12/12/18 05:51	74-83-9	
2-Butanone (MEK)	<45.1	ug/kg	424	45.1	1	12/11/18 16:21	12/12/18 05:51	78-93-3	
n-Butylbenzene	<40.4	ug/kg	84.8	40.4	1	12/11/18 16:21	12/12/18 05:51	104-51-8	
sec-Butylbenzene	<16.2	ug/kg	84.8	16.2	1	12/11/18 16:21	12/12/18 05:51	135-98-8	
tert-Butylbenzene	<16.3	ug/kg	84.8	16.3	1	12/11/18 16:21	12/12/18 05:51	98-06-6	
Carbon tetrachloride	<40.5	ug/kg	339	40.5	1	12/11/18 16:21	12/12/18 05:51	56-23-5	
Chlorobenzene	<4.8	ug/kg	84.8	4.8	1	12/11/18 16:21	12/12/18 05:51	108-90-7	
Chloroethane	<44.1	ug/kg	848	44.1	1	12/11/18 16:21	12/12/18 05:51	75-00-3	
Chloroform	<42.4	ug/kg	84.8	42.4	1	12/11/18 16:21	12/12/18 05:51	67-66-3	
Chloromethane	<20.3	ug/kg	339	20.3	1	12/11/18 16:21	12/12/18 05:51	74-87-3	
2-Chlorotoluene	<4.2	ug/kg	84.8	4.2	1	12/11/18 16:21	12/12/18 05:51	95-49-8	
4-Chlorotoluene	<4.3	ug/kg	84.8	4.3	1	12/11/18 16:21	12/12/18 05:51	106-43-4	
1,2-Dibromo-3-chloropropane	<295	ug/kg	848	295	1	12/11/18 16:21	12/12/18 05:51	96-12-8	
Dibromochloromethane	<9.8	ug/kg	339	9.8	1	12/11/18 16:21	12/12/18 05:51	124-48-1	
1,2-Dibromoethane (EDB)	<8.9	ug/kg	84.8	8.9	1	12/11/18 16:21	12/12/18 05:51	106-93-4	
Dibromomethane	<15.5	ug/kg	84.8	15.5	1	12/11/18 16:21	12/12/18 05:51	74-95-3	
1,2-Dichlorobenzene	<3.4	ug/kg	84.8	3.4	1	12/11/18 16:21	12/12/18 05:51	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/kg	84.8	3.1	1	12/11/18 16:21	12/12/18 05:51	541-73-1	
1,4-Dichlorobenzene	<5.3	ug/kg	84.8	5.3	1	12/11/18 16:21	12/12/18 05:51	106-46-7	
Dichlorodifluoromethane	<27.5	ug/kg	339	27.5	1	12/11/18 16:21	12/12/18 05:51	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-12 (5)**      **Lab ID: 10457121023**      Collected: 11/28/18 08:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<9.5	ug/kg	84.8	9.5	1	12/11/18 16:21	12/12/18 05:51	75-34-3	
1,2-Dichloroethane	<9.3	ug/kg	84.8	9.3	1	12/11/18 16:21	12/12/18 05:51	107-06-2	
1,1-Dichloroethene	<25.4	ug/kg	84.8	25.4	1	12/11/18 16:21	12/12/18 05:51	75-35-4	
cis-1,2-Dichloroethene	<14.1	ug/kg	84.8	14.1	1	12/11/18 16:21	12/12/18 05:51	156-59-2	
trans-1,2-Dichloroethene	<39.7	ug/kg	84.8	39.7	1	12/11/18 16:21	12/12/18 05:51	156-60-5	
Dichlorofluoromethane	<117	ug/kg	848	117	1	12/11/18 16:21	12/12/18 05:51	75-43-4	N2
1,2-Dichloropropane	<14.6	ug/kg	84.8	14.6	1	12/11/18 16:21	12/12/18 05:51	78-87-5	
1,3-Dichloropropane	<11.7	ug/kg	84.8	11.7	1	12/11/18 16:21	12/12/18 05:51	142-28-9	
2,2-Dichloropropane	<10.6	ug/kg	339	10.6	1	12/11/18 16:21	12/12/18 05:51	594-20-7	
1,1-Dichloropropene	<39.2	ug/kg	339	39.2	1	12/11/18 16:21	12/12/18 05:51	563-58-6	
cis-1,3-Dichloropropene	<12.1	ug/kg	84.8	12.1	1	12/11/18 16:21	12/12/18 05:51	10061-01-5	
trans-1,3-Dichloropropene	<11.8	ug/kg	84.8	11.8	1	12/11/18 16:21	12/12/18 05:51	10061-02-6	
Diethyl ether (Ethyl ether)	<51.9	ug/kg	339	51.9	1	12/11/18 16:21	12/12/18 05:51	60-29-7	
Ethylbenzene	<4.6	ug/kg	84.8	4.6	1	12/11/18 16:21	12/12/18 05:51	100-41-4	
Hexachloro-1,3-butadiene	<20.7	ug/kg	424	20.7	1	12/11/18 16:21	12/12/18 05:51	87-68-3	
Isopropylbenzene (Cumene)	<3.8	ug/kg	84.8	3.8	1	12/11/18 16:21	12/12/18 05:51	98-82-8	
p-Isopropyltoluene	<25.8	ug/kg	84.8	25.8	1	12/11/18 16:21	12/12/18 05:51	99-87-6	
Methylene Chloride	<160	ug/kg	339	160	1	12/11/18 16:21	12/12/18 05:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<17.6	ug/kg	424	17.6	1	12/11/18 16:21	12/12/18 05:51	108-10-1	
Methyl-tert-butyl ether	<10.1	ug/kg	84.8	10.1	1	12/11/18 16:21	12/12/18 05:51	1634-04-4	
Naphthalene	<79.3	ug/kg	339	79.3	1	12/11/18 16:21	12/12/18 05:51	91-20-3	
n-Propylbenzene	<4.5	ug/kg	84.8	4.5	1	12/11/18 16:21	12/12/18 05:51	103-65-1	
Styrene	<3.9	ug/kg	84.8	3.9	1	12/11/18 16:21	12/12/18 05:51	100-42-5	
1,1,1,2-Tetrachloroethane	<26.6	ug/kg	84.8	26.6	1	12/11/18 16:21	12/12/18 05:51	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.9	ug/kg	84.8	14.9	1	12/11/18 16:21	12/12/18 05:51	79-34-5	
Tetrachloroethene	<29.8	ug/kg	84.8	29.8	1	12/11/18 16:21	12/12/18 05:51	127-18-4	
Tetrahydrofuran	<123	ug/kg	3390	123	1	12/11/18 16:21	12/12/18 05:51	109-99-9	
Toluene	<20.7	ug/kg	84.8	20.7	1	12/11/18 16:21	12/12/18 05:51	108-88-3	
1,2,3-Trichlorobenzene	<13.5	ug/kg	84.8	13.5	1	12/11/18 16:21	12/12/18 05:51	87-61-6	
1,2,4-Trichlorobenzene	<18.8	ug/kg	84.8	18.8	1	12/11/18 16:21	12/12/18 05:51	120-82-1	
1,1,1-Trichloroethane	<39.5	ug/kg	84.8	39.5	1	12/11/18 16:21	12/12/18 05:51	71-55-6	
1,1,2-Trichloroethane	<10.1	ug/kg	84.8	10.1	1	12/11/18 16:21	12/12/18 05:51	79-00-5	
Trichloroethene	<13.1	ug/kg	84.8	13.1	1	12/11/18 16:21	12/12/18 05:51	79-01-6	
Trichlorofluoromethane	<148	ug/kg	339	148	1	12/11/18 16:21	12/12/18 05:51	75-69-4	
1,2,3-Trichloropropane	<22.2	ug/kg	339	22.2	1	12/11/18 16:21	12/12/18 05:51	96-18-4	
1,1,2-Trichlorotrifluoroethane	<98.3	ug/kg	339	98.3	1	12/11/18 16:21	12/12/18 05:51	76-13-1	
1,2,4-Trimethylbenzene	<17.0	ug/kg	84.8	17.0	1	12/11/18 16:21	12/12/18 05:51	95-63-6	
1,3,5-Trimethylbenzene	<13.5	ug/kg	84.8	13.5	1	12/11/18 16:21	12/12/18 05:51	108-67-8	
Vinyl chloride	<16.7	ug/kg	84.8	16.7	1	12/11/18 16:21	12/12/18 05:51	75-01-4	
Xylene (Total)	<19.7	ug/kg	254	19.7	1	12/11/18 16:21	12/12/18 05:51	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	12/11/18 16:21	12/12/18 05:51	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 16:21	12/12/18 05:51	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	12/11/18 16:21	12/12/18 05:51	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (2)**      **Lab ID: 10457121024**      Collected: 11/28/18 09:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 07:51	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 07:51	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 07:51	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 07:51	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 07:51	58-89-9	
Chlordane (Technical)	<3.8	ug/kg	21.1	3.8	1	12/05/18 16:14	12/12/18 07:51	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 07:51	5103-71-9	
gamma-Chlordane	<0.49	ug/kg	2.1	0.49	1	12/05/18 16:14	12/12/18 07:51	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 07:51	72-54-8	
4,4'-DDE	<0.31	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 07:51	72-55-9	
4,4'-DDT	<0.53	ug/kg	4.2	0.53	1	12/05/18 16:14	12/12/18 07:51	50-29-3	
Dieldrin	<0.41	ug/kg	4.2	0.41	1	12/05/18 16:14	12/12/18 07:51	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 07:51	959-98-8	
Endosulfan II	<0.42	ug/kg	4.2	0.42	1	12/05/18 16:14	12/12/18 07:51	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 07:51	1031-07-8	
Endrin	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 07:51	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 07:51	7421-93-4	
Endrin ketone	<0.50	ug/kg	4.2	0.50	1	12/05/18 16:14	12/12/18 07:51	53494-70-5	
Heptachlor	<0.23	ug/kg	2.1	0.23	1	12/05/18 16:14	12/12/18 07:51	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 07:51	1024-57-3	
Methoxychlor	<3.2	ug/kg	21.1	3.2	1	12/05/18 16:14	12/12/18 07:51	72-43-5	
Toxaphene	<10	ug/kg	63.2	10	1	12/05/18 16:14	12/12/18 07:51	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	92	%	30-150		1	12/05/18 16:14	12/12/18 07:51	877-09-8	
Decachlorobiphenyl (S)	75	%	30-150		1	12/05/18 16:14	12/12/18 07:51	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.6	ug/kg	41.7	11.6	1	12/05/18 14:01	12/07/18 18:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.7	14.7	1	12/05/18 14:01	12/07/18 18:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.7	16.7	1	12/05/18 14:01	12/07/18 18:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.1	ug/kg	41.7	14.1	1	12/05/18 14:01	12/07/18 18:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.5	ug/kg	41.7	12.5	1	12/05/18 14:01	12/07/18 18:26	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.7	12.3	1	12/05/18 14:01	12/07/18 18:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<10	ug/kg	41.7	10	1	12/05/18 14:01	12/07/18 18:26	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	48-125		1	12/05/18 14:01	12/07/18 18:26	877-09-8	
Decachlorobiphenyl (S)	85	%	30-134		1	12/05/18 14:01	12/07/18 18:26	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	7.5J	mg/kg	18.8	3.1	1	12/05/18 15:46	12/13/18 11:11	68334-30-5	
Motor Oil Range	13.0	mg/kg	12.6	5.4	1	12/05/18 15:46	12/13/18 11:11		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/05/18 15:46	12/13/18 11:11	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	12/05/18 15:46	12/13/18 11:11	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (2)**      **Lab ID: 10457121024**      Collected: 11/28/18 09:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>4.1J</b>	mg/kg	6.2	0.81	1	12/11/18 12:55	12/12/18 01:21		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	96	%	50-150		1	12/11/18 12:55	12/12/18 01:21	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.3</b>	mg/kg	6.1	2.3	5	12/07/18 10:11	12/11/18 12:10	7440-36-0	D3
Arsenic	<b>1.3J</b>	mg/kg	6.1	1.2	5	12/07/18 10:11	12/11/18 12:10	7440-38-2	D3
Beryllium	<b>0.91J</b>	mg/kg	1.5	0.082	5	12/07/18 10:11	12/11/18 12:10	7440-41-7	D3
Cadmium	<b>&lt;0.12</b>	mg/kg	0.91	0.12	5	12/07/18 10:11	12/11/18 12:10	7440-43-9	D3
Chromium	<b>9.2</b>	mg/kg	3.0	0.52	5	12/07/18 10:11	12/11/18 12:10	7440-47-3	
Copper	<b>16.9</b>	mg/kg	3.0	0.34	5	12/07/18 10:11	12/11/18 12:10	7440-50-8	
Lead	<b>6.0</b>	mg/kg	3.0	0.69	5	12/07/18 10:11	12/11/18 12:10	7439-92-1	
Nickel	<b>7.0</b>	mg/kg	6.1	0.38	5	12/07/18 10:11	12/11/18 12:10	7440-02-0	
Selenium	<b>&lt;2.0</b>	mg/kg	6.1	2.0	5	12/07/18 10:11	12/11/18 12:10	7782-49-2	D3
Silver	<b>&lt;0.22</b>	mg/kg	3.0	0.22	5	12/07/18 10:11	12/11/18 12:10	7440-22-4	D3
Thallium	<b>&lt;1.4</b>	mg/kg	6.1	1.4	5	12/07/18 10:11	12/11/18 12:10	7440-28-0	D3
Zinc	<b>67.6</b>	mg/kg	6.1	2.7	5	12/07/18 10:11	12/11/18 12:10	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.010J</b>	mg/kg	0.023	0.0093	1	12/07/18 10:13	12/11/18 12:15	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>21.1</b>	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;44.6</b>	ug/kg	418	44.6	1	12/04/18 17:03	12/07/18 16:57	83-32-9	
Acenaphthylene	<b>&lt;53.3</b>	ug/kg	418	53.3	1	12/04/18 17:03	12/07/18 16:57	208-96-8	
Anthracene	<b>&lt;49.0</b>	ug/kg	418	49.0	1	12/04/18 17:03	12/07/18 16:57	120-12-7	
Benzo(a)anthracene	<b>&lt;42.9</b>	ug/kg	418	42.9	1	12/04/18 17:03	12/07/18 16:57	56-55-3	
Benzo(a)pyrene	<b>&lt;47.3</b>	ug/kg	418	47.3	1	12/04/18 17:03	12/07/18 16:57	50-32-8	
Benzo(b)fluoranthene	<b>&lt;40.9</b>	ug/kg	418	40.9	1	12/04/18 17:03	12/07/18 16:57	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;44.7</b>	ug/kg	418	44.7	1	12/04/18 17:03	12/07/18 16:57	191-24-2	
Benzo(k)fluoranthene	<b>&lt;52.2</b>	ug/kg	418	52.2	1	12/04/18 17:03	12/07/18 16:57	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;49.8</b>	ug/kg	418	49.8	1	12/04/18 17:03	12/07/18 16:57	101-55-3	
Butylbenzylphthalate	<b>&lt;38.2</b>	ug/kg	418	38.2	1	12/04/18 17:03	12/07/18 16:57	85-68-7	
Carbazole	<b>&lt;34.7</b>	ug/kg	418	34.7	1	12/04/18 17:03	12/07/18 16:57	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;66.8</b>	ug/kg	418	66.8	1	12/04/18 17:03	12/07/18 16:57	59-50-7	
4-Chloroaniline	<b>&lt;111</b>	ug/kg	418	111	1	12/04/18 17:03	12/07/18 16:57	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;42.8</b>	ug/kg	418	42.8	1	12/04/18 17:03	12/07/18 16:57	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;33.0</b>	ug/kg	418	33.0	1	12/04/18 17:03	12/07/18 16:57	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;43.0</b>	ug/kg	418	43.0	1	12/04/18 17:03	12/07/18 16:57	108-60-1	
2-Chloronaphthalene	<b>&lt;37.0</b>	ug/kg	418	37.0	1	12/04/18 17:03	12/07/18 16:57	91-58-7	
2-Chlorophenol	<b>&lt;47.6</b>	ug/kg	418	47.6	1	12/04/18 17:03	12/07/18 16:57	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;51.8</b>	ug/kg	418	51.8	1	12/04/18 17:03	12/07/18 16:57	7005-72-3	
Chrysene	<b>&lt;44.1</b>	ug/kg	418	44.1	1	12/04/18 17:03	12/07/18 16:57	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (2)**      **Lab ID: 10457121024**      Collected: 11/28/18 09:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.4	ug/kg	418	44.4	1	12/04/18 17:03	12/07/18 16:57	53-70-3	
Dibenzofuran	<52.9	ug/kg	418	52.9	1	12/04/18 17:03	12/07/18 16:57	132-64-9	
1,2-Dichlorobenzene	<43.8	ug/kg	418	43.8	1	12/04/18 17:03	12/07/18 16:57	95-50-1	
1,3-Dichlorobenzene	<28.6	ug/kg	418	28.6	1	12/04/18 17:03	12/07/18 16:57	541-73-1	
1,4-Dichlorobenzene	<46.5	ug/kg	418	46.5	1	12/04/18 17:03	12/07/18 16:57	106-46-7	
3,3'-Dichlorobenzidine	<140	ug/kg	418	140	1	12/04/18 17:03	12/07/18 16:57	91-94-1	
2,4-Dichlorophenol	<69.8	ug/kg	418	69.8	1	12/04/18 17:03	12/07/18 16:57	120-83-2	
Diethylphthalate	<37.2	ug/kg	418	37.2	1	12/04/18 17:03	12/07/18 16:57	84-66-2	
2,4-Dimethylphenol	<163	ug/kg	418	163	1	12/04/18 17:03	12/07/18 16:57	105-67-9	
Dimethylphthalate	<56.7	ug/kg	418	56.7	1	12/04/18 17:03	12/07/18 16:57	131-11-3	
Di-n-butylphthalate	<57.2	ug/kg	418	57.2	1	12/04/18 17:03	12/07/18 16:57	84-74-2	
4,6-Dinitro-2-methylphenol	<414	ug/kg	2150	414	1	12/04/18 17:03	12/07/18 16:57	534-52-1	
2,4-Dinitrophenol	<195	ug/kg	418	195	1	12/04/18 17:03	12/07/18 16:57	51-28-5	
2,4-Dinitrotoluene	<53.2	ug/kg	418	53.2	1	12/04/18 17:03	12/07/18 16:57	121-14-2	
2,6-Dinitrotoluene	<55.3	ug/kg	418	55.3	1	12/04/18 17:03	12/07/18 16:57	606-20-2	
Di-n-octylphthalate	<48.5	ug/kg	418	48.5	1	12/04/18 17:03	12/07/18 16:57	117-84-0	
1,2-Diphenylhydrazine	<51.3	ug/kg	418	51.3	1	12/04/18 17:03	12/07/18 16:57	122-66-7	
bis(2-Ethylhexyl)phthalate	<87.1	ug/kg	418	87.1	1	12/04/18 17:03	12/07/18 16:57	117-81-7	
Fluoranthene	<48.0	ug/kg	418	48.0	1	12/04/18 17:03	12/07/18 16:57	206-44-0	
Fluorene	<191	ug/kg	418	191	1	12/04/18 17:03	12/07/18 16:57	86-73-7	
Hexachloro-1,3-butadiene	<63.6	ug/kg	418	63.6	1	12/04/18 17:03	12/07/18 16:57	87-68-3	
Hexachlorobenzene	<68.1	ug/kg	418	68.1	1	12/04/18 17:03	12/07/18 16:57	118-74-1	
Hexachloroethane	<54.3	ug/kg	418	54.3	1	12/04/18 17:03	12/07/18 16:57	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.2	ug/kg	418	25.2	1	12/04/18 17:03	12/07/18 16:57	193-39-5	
Isophorone	<32.2	ug/kg	418	32.2	1	12/04/18 17:03	12/07/18 16:57	78-59-1	
1-Methylnaphthalene	<38.6	ug/kg	418	38.6	1	12/04/18 17:03	12/07/18 16:57	90-12-0	
2-Methylnaphthalene	<37.7	ug/kg	418	37.7	1	12/04/18 17:03	12/07/18 16:57	91-57-6	
2-Methylphenol(o-Cresol)	<26.1	ug/kg	418	26.1	1	12/04/18 17:03	12/07/18 16:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.5	ug/kg	836	23.5	1	12/04/18 17:03	12/07/18 16:57		
Naphthalene	<32.2	ug/kg	418	32.2	1	12/04/18 17:03	12/07/18 16:57	91-20-3	
2-Nitroaniline	<105	ug/kg	418	105	1	12/04/18 17:03	12/07/18 16:57	88-74-4	
3-Nitroaniline	<45.6	ug/kg	418	45.6	1	12/04/18 17:03	12/07/18 16:57	99-09-2	
4-Nitroaniline	<61.0	ug/kg	418	61.0	1	12/04/18 17:03	12/07/18 16:57	100-01-6	
Nitrobenzene	<46.0	ug/kg	418	46.0	1	12/04/18 17:03	12/07/18 16:57	98-95-3	
2-Nitrophenol	<50.9	ug/kg	418	50.9	1	12/04/18 17:03	12/07/18 16:57	88-75-5	
4-Nitrophenol	<81.0	ug/kg	418	81.0	1	12/04/18 17:03	12/07/18 16:57	100-02-7	
N-Nitrosodimethylamine	<51.3	ug/kg	418	51.3	1	12/04/18 17:03	12/07/18 16:57	62-75-9	
N-Nitroso-di-n-propylamine	<191	ug/kg	418	191	1	12/04/18 17:03	12/07/18 16:57	621-64-7	
N-Nitrosodiphenylamine	<27.1	ug/kg	418	27.1	1	12/04/18 17:03	12/07/18 16:57	86-30-6	
Pentachlorophenol	<244	ug/kg	848	244	1	12/04/18 17:03	12/07/18 16:57	87-86-5	
Phenanthrene	<48.6	ug/kg	418	48.6	1	12/04/18 17:03	12/07/18 16:57	85-01-8	
Phenol	<27.3	ug/kg	418	27.3	1	12/04/18 17:03	12/07/18 16:57	108-95-2	
Pyrene	<31.8	ug/kg	418	31.8	1	12/04/18 17:03	12/07/18 16:57	129-00-0	
1,2,4-Trichlorobenzene	<45.8	ug/kg	418	45.8	1	12/04/18 17:03	12/07/18 16:57	120-82-1	
2,4,5-Trichlorophenol	<53.8	ug/kg	418	53.8	1	12/04/18 17:03	12/07/18 16:57	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (2)**      **Lab ID: 10457121024**      Collected: 11/28/18 09:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.7	ug/kg	418	64.7	1	12/04/18 17:03	12/07/18 16:57	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	53	%	43-125		1	12/04/18 17:03	12/07/18 16:57	4165-60-0	
2-Fluorobiphenyl (S)	59	%	30-132		1	12/04/18 17:03	12/07/18 16:57	321-60-8	
p-Terphenyl-d14 (S)	79	%	62-125		1	12/04/18 17:03	12/07/18 16:57	1718-51-0	
Phenol-d6 (S)	68	%	48-125		1	12/04/18 17:03	12/07/18 16:57	13127-88-3	
2-Fluorophenol (S)	67	%	40-125		1	12/04/18 17:03	12/07/18 16:57	367-12-4	
2,4,6-Tribromophenol (S)	63	%	60-125		1	12/04/18 17:03	12/07/18 16:57	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	4.9	0.28	1	03/05/19 10:30	03/05/19 17:05	106-93-4	
Methylene Chloride	<4.5	ug/kg	24.7	4.5	1	03/05/19 10:30	03/05/19 17:05	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/05/19 10:30	03/05/19 17:05	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 17:05	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 17:05	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	627J	ug/kg	1260	393	1	12/11/18 19:12	12/12/18 14:01	67-64-1	B
Allyl chloride	<52.9	ug/kg	253	52.9	1	12/11/18 19:12	12/12/18 14:01	107-05-1	
Benzene	<3.6	ug/kg	25.3	3.6	1	12/11/18 19:12	12/12/18 14:01	71-43-2	
Bromobenzene	<3.9	ug/kg	63.2	3.9	1	12/11/18 19:12	12/12/18 14:01	108-86-1	
Bromochloromethane	<21.9	ug/kg	63.2	21.9	1	12/11/18 19:12	12/12/18 14:01	74-97-5	
Bromodichloromethane	<21.6	ug/kg	63.2	21.6	1	12/11/18 19:12	12/12/18 14:01	75-27-4	
Bromoform	<95.6	ug/kg	253	95.6	1	12/11/18 19:12	12/12/18 14:01	75-25-2	
Bromomethane	<73.9	ug/kg	632	73.9	1	12/11/18 19:12	12/12/18 14:01	74-83-9	
2-Butanone (MEK)	<33.6	ug/kg	316	33.6	1	12/11/18 19:12	12/12/18 14:01	78-93-3	
n-Butylbenzene	<30.1	ug/kg	63.2	30.1	1	12/11/18 19:12	12/12/18 14:01	104-51-8	
sec-Butylbenzene	<12.1	ug/kg	63.2	12.1	1	12/11/18 19:12	12/12/18 14:01	135-98-8	
tert-Butylbenzene	<12.1	ug/kg	63.2	12.1	1	12/11/18 19:12	12/12/18 14:01	98-06-6	
Carbon tetrachloride	<30.2	ug/kg	63.2	30.2	1	12/11/18 19:12	12/12/18 14:01	56-23-5	
Chlorobenzene	<3.6	ug/kg	63.2	3.6	1	12/11/18 19:12	12/12/18 14:01	108-90-7	
Chloroethane	<32.8	ug/kg	632	32.8	1	12/11/18 19:12	12/12/18 14:01	75-00-3	L2
Chloroform	<31.6	ug/kg	63.2	31.6	1	12/11/18 19:12	12/12/18 14:01	67-66-3	
Chloromethane	<15.2	ug/kg	253	15.2	1	12/11/18 19:12	12/12/18 14:01	74-87-3	
2-Chlorotoluene	<3.1	ug/kg	63.2	3.1	1	12/11/18 19:12	12/12/18 14:01	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	63.2	3.2	1	12/11/18 19:12	12/12/18 14:01	106-43-4	
1,2-Dibromo-3-chloropropane	<220	ug/kg	632	220	1	12/11/18 19:12	12/12/18 14:01	96-12-8	
Dibromochloromethane	<7.3	ug/kg	253	7.3	1	12/11/18 19:12	12/12/18 14:01	124-48-1	
1,2-Dibromoethane (EDB)	<6.6	ug/kg	63.2	6.6	1	12/11/18 19:12	12/12/18 14:01	106-93-4	
Dibromomethane	<11.6	ug/kg	63.2	11.6	1	12/11/18 19:12	12/12/18 14:01	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	63.2	2.6	1	12/11/18 19:12	12/12/18 14:01	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/kg	63.2	2.3	1	12/11/18 19:12	12/12/18 14:01	541-73-1	
1,4-Dichlorobenzene	<3.9	ug/kg	63.2	3.9	1	12/11/18 19:12	12/12/18 14:01	106-46-7	
Dichlorodifluoromethane	<20.5	ug/kg	253	20.5	1	12/11/18 19:12	12/12/18 14:01	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (2)**      **Lab ID: 10457121024**      Collected: 11/28/18 09:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<7.1	ug/kg	63.2	7.1	1	12/11/18 19:12	12/12/18 14:01	75-34-3	
1,2-Dichloroethane	<6.9	ug/kg	63.2	6.9	1	12/11/18 19:12	12/12/18 14:01	107-06-2	
1,1-Dichloroethene	<18.9	ug/kg	253	18.9	1	12/11/18 19:12	12/12/18 14:01	75-35-4	
cis-1,2-Dichloroethene	<10.5	ug/kg	63.2	10.5	1	12/11/18 19:12	12/12/18 14:01	156-59-2	
trans-1,2-Dichloroethene	<29.6	ug/kg	63.2	29.6	1	12/11/18 19:12	12/12/18 14:01	156-60-5	
Dichlorofluoromethane	<87.3	ug/kg	632	87.3	1	12/11/18 19:12	12/12/18 14:01	75-43-4	N2
1,2-Dichloropropane	<10.9	ug/kg	63.2	10.9	1	12/11/18 19:12	12/12/18 14:01	78-87-5	
1,3-Dichloropropane	<8.7	ug/kg	63.2	8.7	1	12/11/18 19:12	12/12/18 14:01	142-28-9	
2,2-Dichloropropane	<7.9	ug/kg	253	7.9	1	12/11/18 19:12	12/12/18 14:01	594-20-7	
1,1-Dichloropropene	<29.2	ug/kg	63.2	29.2	1	12/11/18 19:12	12/12/18 14:01	563-58-6	
cis-1,3-Dichloropropene	<9.0	ug/kg	63.2	9.0	1	12/11/18 19:12	12/12/18 14:01	10061-01-5	
trans-1,3-Dichloropropene	<8.8	ug/kg	63.2	8.8	1	12/11/18 19:12	12/12/18 14:01	10061-02-6	
Diethyl ether (Ethyl ether)	<38.6	ug/kg	253	38.6	1	12/11/18 19:12	12/12/18 14:01	60-29-7	
Ethylbenzene	<3.4	ug/kg	63.2	3.4	1	12/11/18 19:12	12/12/18 14:01	100-41-4	
Hexachloro-1,3-butadiene	<15.4	ug/kg	316	15.4	1	12/11/18 19:12	12/12/18 14:01	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	63.2	2.8	1	12/11/18 19:12	12/12/18 14:01	98-82-8	
p-Isopropyltoluene	<19.2	ug/kg	63.2	19.2	1	12/11/18 19:12	12/12/18 14:01	99-87-6	
Methylene Chloride	<119	ug/kg	253	119	1	12/11/18 19:12	12/12/18 14:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.1	ug/kg	316	13.1	1	12/11/18 19:12	12/12/18 14:01	108-10-1	
Methyl-tert-butyl ether	<7.5	ug/kg	63.2	7.5	1	12/11/18 19:12	12/12/18 14:01	1634-04-4	
Naphthalene	<59.1	ug/kg	253	59.1	1	12/11/18 19:12	12/12/18 14:01	91-20-3	
n-Propylbenzene	<3.4	ug/kg	63.2	3.4	1	12/11/18 19:12	12/12/18 14:01	103-65-1	
Styrene	<2.9	ug/kg	63.2	2.9	1	12/11/18 19:12	12/12/18 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	<19.8	ug/kg	63.2	19.8	1	12/11/18 19:12	12/12/18 14:01	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.1	ug/kg	253	11.1	1	12/11/18 19:12	12/12/18 14:01	79-34-5	
Tetrachloroethene	<22.2	ug/kg	63.2	22.2	1	12/11/18 19:12	12/12/18 14:01	127-18-4	
Tetrahydrofuran	<91.8	ug/kg	2530	91.8	1	12/11/18 19:12	12/12/18 14:01	109-99-9	
Toluene	22.2J	ug/kg	63.2	15.4	1	12/11/18 19:12	12/12/18 14:01	108-88-3	
1,2,3-Trichlorobenzene	<10.1	ug/kg	63.2	10.1	1	12/11/18 19:12	12/12/18 14:01	87-61-6	
1,2,4-Trichlorobenzene	<14.0	ug/kg	63.2	14.0	1	12/11/18 19:12	12/12/18 14:01	120-82-1	
1,1,1-Trichloroethane	<29.4	ug/kg	63.2	29.4	1	12/11/18 19:12	12/12/18 14:01	71-55-6	
1,1,2-Trichloroethane	<7.6	ug/kg	63.2	7.6	1	12/11/18 19:12	12/12/18 14:01	79-00-5	
Trichloroethene	<9.7	ug/kg	63.2	9.7	1	12/11/18 19:12	12/12/18 14:01	79-01-6	
Trichlorofluoromethane	<110	ug/kg	253	110	1	12/11/18 19:12	12/12/18 14:01	75-69-4	
1,2,3-Trichloropropane	<16.5	ug/kg	253	16.5	1	12/11/18 19:12	12/12/18 14:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	<73.3	ug/kg	253	73.3	1	12/11/18 19:12	12/12/18 14:01	76-13-1	
1,2,4-Trimethylbenzene	<12.6	ug/kg	63.2	12.6	1	12/11/18 19:12	12/12/18 14:01	95-63-6	
1,3,5-Trimethylbenzene	<10.1	ug/kg	63.2	10.1	1	12/11/18 19:12	12/12/18 14:01	108-67-8	
Vinyl chloride	<12.4	ug/kg	63.2	12.4	1	12/11/18 19:12	12/12/18 14:01	75-01-4	
Xylene (Total)	<14.7	ug/kg	189	14.7	1	12/11/18 19:12	12/12/18 14:01	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/11/18 19:12	12/12/18 14:01	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 14:01	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 14:01	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (5)**      **Lab ID: 10457121025**      Collected: 11/28/18 09:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.19	ug/kg	1.9	0.19	1	12/05/18 16:14	12/12/18 08:10	309-00-2	
alpha-BHC	<0.14	ug/kg	1.9	0.14	1	12/05/18 16:14	12/12/18 08:10	319-84-6	
beta-BHC	<0.26	ug/kg	1.9	0.26	1	12/05/18 16:14	12/12/18 08:10	319-85-7	
delta-BHC	<0.16	ug/kg	1.9	0.16	1	12/05/18 16:14	12/12/18 08:10	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.9	0.16	1	12/05/18 16:14	12/12/18 08:10	58-89-9	
Chlordane (Technical)	<3.5	ug/kg	19.1	3.5	1	12/05/18 16:14	12/12/18 08:10	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.9	0.15	1	12/05/18 16:14	12/12/18 08:10	5103-71-9	
gamma-Chlordane	<0.44	ug/kg	1.9	0.44	1	12/05/18 16:14	12/12/18 08:10	5103-74-2	
4,4'-DDD	<0.35	ug/kg	3.8	0.35	1	12/05/18 16:14	12/12/18 08:10	72-54-8	
4,4'-DDE	<0.28	ug/kg	3.8	0.28	1	12/05/18 16:14	12/12/18 08:10	72-55-9	
4,4'-DDT	<0.48	ug/kg	3.8	0.48	1	12/05/18 16:14	12/12/18 08:10	50-29-3	
Dieldrin	<0.37	ug/kg	3.8	0.37	1	12/05/18 16:14	12/12/18 08:10	60-57-1	
Endosulfan I	<0.17	ug/kg	1.9	0.17	1	12/05/18 16:14	12/12/18 08:10	959-98-8	
Endosulfan II	<0.38	ug/kg	3.8	0.38	1	12/05/18 16:14	12/12/18 08:10	33213-65-9	
Endosulfan sulfate	<0.39	ug/kg	3.8	0.39	1	12/05/18 16:14	12/12/18 08:10	1031-07-8	
Endrin	<0.34	ug/kg	3.8	0.34	1	12/05/18 16:14	12/12/18 08:10	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.8	1.2	1	12/05/18 16:14	12/12/18 08:10	7421-93-4	
Endrin ketone	<0.45	ug/kg	3.8	0.45	1	12/05/18 16:14	12/12/18 08:10	53494-70-5	
Heptachlor	<0.21	ug/kg	1.9	0.21	1	12/05/18 16:14	12/12/18 08:10	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	1.9	0.18	1	12/05/18 16:14	12/12/18 08:10	1024-57-3	
Methoxychlor	<2.9	ug/kg	19.1	2.9	1	12/05/18 16:14	12/12/18 08:10	72-43-5	
Toxaphene	<9.1	ug/kg	57.3	9.1	1	12/05/18 16:14	12/12/18 08:10	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	102	%	30-150		1	12/05/18 16:14	12/12/18 08:10	877-09-8	
Decachlorobiphenyl (S)	85	%	30-150		1	12/05/18 16:14	12/12/18 08:10	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.5	ug/kg	37.8	10.5	1	12/05/18 14:01	12/07/18 18:42	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.3	ug/kg	37.8	13.3	1	12/05/18 14:01	12/07/18 18:42	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.1	ug/kg	37.8	15.1	1	12/05/18 14:01	12/07/18 18:42	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.8	ug/kg	37.8	12.8	1	12/05/18 14:01	12/07/18 18:42	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.3	ug/kg	37.8	11.3	1	12/05/18 14:01	12/07/18 18:42	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.1	ug/kg	37.8	11.1	1	12/05/18 14:01	12/07/18 18:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.0	ug/kg	37.8	9.0	1	12/05/18 14:01	12/07/18 18:42	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	48-125		1	12/05/18 14:01	12/07/18 18:42	877-09-8	
Decachlorobiphenyl (S)	101	%	30-134		1	12/05/18 14:01	12/07/18 18:42	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.8	mg/kg	17.2	2.8	1	12/05/18 15:46	12/13/18 11:23	68334-30-5	
Motor Oil Range	<5.0	mg/kg	11.5	5.0	1	12/05/18 15:46	12/13/18 11:23		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/05/18 15:46	12/13/18 11:23	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/05/18 15:46	12/13/18 11:23	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (5)**      **Lab ID: 10457121025**      Collected: 11/28/18 09:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.72	mg/kg	5.5	0.72	1	12/11/18 12:55	12/12/18 01:38		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	96	%	50-150		1	12/11/18 12:55	12/12/18 01:38	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.0	mg/kg	5.4	2.0	5	12/07/18 10:11	12/11/18 12:13	7440-36-0	D3
Arsenic	1.8J	mg/kg	5.4	1.1	5	12/07/18 10:11	12/11/18 12:13	7440-38-2	D3
Beryllium	0.99J	mg/kg	1.3	0.072	5	12/07/18 10:11	12/11/18 12:13	7440-41-7	D3
Cadmium	<0.11	mg/kg	0.81	0.11	5	12/07/18 10:11	12/11/18 12:13	7440-43-9	D3
Chromium	7.2	mg/kg	2.7	0.46	5	12/07/18 10:11	12/11/18 12:13	7440-47-3	
Copper	19.8	mg/kg	2.7	0.30	5	12/07/18 10:11	12/11/18 12:13	7440-50-8	
Lead	4.8	mg/kg	2.7	0.61	5	12/07/18 10:11	12/11/18 12:13	7439-92-1	
Nickel	5.5	mg/kg	5.4	0.34	5	12/07/18 10:11	12/11/18 12:13	7440-02-0	
Selenium	<1.8	mg/kg	5.4	1.8	5	12/07/18 10:11	12/11/18 12:13	7782-49-2	D3
Silver	<0.19	mg/kg	2.7	0.19	5	12/07/18 10:11	12/11/18 12:13	7440-22-4	D3
Thallium	<1.2	mg/kg	5.4	1.2	5	12/07/18 10:11	12/11/18 12:13	7440-28-0	D3
Zinc	63.4	mg/kg	5.4	2.4	5	12/07/18 10:11	12/11/18 12:13	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0092	mg/kg	0.023	0.0092	1	12/07/18 10:13	12/11/18 12:21	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	13.0	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<40.4	ug/kg	379	40.4	1	12/04/18 17:03	12/07/18 17:26	83-32-9	
Acenaphthylene	<48.4	ug/kg	379	48.4	1	12/04/18 17:03	12/07/18 17:26	208-96-8	
Anthracene	<44.5	ug/kg	379	44.5	1	12/04/18 17:03	12/07/18 17:26	120-12-7	
Benzo(a)anthracene	<39.0	ug/kg	379	39.0	1	12/04/18 17:03	12/07/18 17:26	56-55-3	
Benzo(a)pyrene	<43.0	ug/kg	379	43.0	1	12/04/18 17:03	12/07/18 17:26	50-32-8	
Benzo(b)fluoranthene	<37.1	ug/kg	379	37.1	1	12/04/18 17:03	12/07/18 17:26	205-99-2	
Benzo(g,h,i)perylene	<40.6	ug/kg	379	40.6	1	12/04/18 17:03	12/07/18 17:26	191-24-2	
Benzo(k)fluoranthene	<47.3	ug/kg	379	47.3	1	12/04/18 17:03	12/07/18 17:26	207-08-9	
4-Bromophenylphenyl ether	<45.2	ug/kg	379	45.2	1	12/04/18 17:03	12/07/18 17:26	101-55-3	
Butylbenzylphthalate	<34.7	ug/kg	379	34.7	1	12/04/18 17:03	12/07/18 17:26	85-68-7	
Carbazole	<31.5	ug/kg	379	31.5	1	12/04/18 17:03	12/07/18 17:26	86-74-8	
4-Chloro-3-methylphenol	<60.7	ug/kg	379	60.7	1	12/04/18 17:03	12/07/18 17:26	59-50-7	
4-Chloroaniline	<101	ug/kg	379	101	1	12/04/18 17:03	12/07/18 17:26	106-47-8	
bis(2-Chloroethoxy)methane	<38.8	ug/kg	379	38.8	1	12/04/18 17:03	12/07/18 17:26	111-91-1	
bis(2-Chloroethyl) ether	<30.0	ug/kg	379	30.0	1	12/04/18 17:03	12/07/18 17:26	111-44-4	
bis(2-Chloroisopropyl) ether	<39.1	ug/kg	379	39.1	1	12/04/18 17:03	12/07/18 17:26	108-60-1	
2-Chloronaphthalene	<33.6	ug/kg	379	33.6	1	12/04/18 17:03	12/07/18 17:26	91-58-7	
2-Chlorophenol	<43.2	ug/kg	379	43.2	1	12/04/18 17:03	12/07/18 17:26	95-57-8	
4-Chlorophenylphenyl ether	<47.0	ug/kg	379	47.0	1	12/04/18 17:03	12/07/18 17:26	7005-72-3	
Chrysene	<40.0	ug/kg	379	40.0	1	12/04/18 17:03	12/07/18 17:26	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (5)**      **Lab ID: 10457121025**      Collected: 11/28/18 09:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<40.3	ug/kg	379	40.3	1	12/04/18 17:03	12/07/18 17:26	53-70-3	
Dibenzofuran	<48.0	ug/kg	379	48.0	1	12/04/18 17:03	12/07/18 17:26	132-64-9	
1,2-Dichlorobenzene	<39.8	ug/kg	379	39.8	1	12/04/18 17:03	12/07/18 17:26	95-50-1	
1,3-Dichlorobenzene	<26.0	ug/kg	379	26.0	1	12/04/18 17:03	12/07/18 17:26	541-73-1	
1,4-Dichlorobenzene	<42.2	ug/kg	379	42.2	1	12/04/18 17:03	12/07/18 17:26	106-46-7	
3,3'-Dichlorobenzidine	<127	ug/kg	379	127	1	12/04/18 17:03	12/07/18 17:26	91-94-1	
2,4-Dichlorophenol	<63.3	ug/kg	379	63.3	1	12/04/18 17:03	12/07/18 17:26	120-83-2	
Diethylphthalate	<33.8	ug/kg	379	33.8	1	12/04/18 17:03	12/07/18 17:26	84-66-2	
2,4-Dimethylphenol	<148	ug/kg	379	148	1	12/04/18 17:03	12/07/18 17:26	105-67-9	
Dimethylphthalate	<51.5	ug/kg	379	51.5	1	12/04/18 17:03	12/07/18 17:26	131-11-3	
Di-n-butylphthalate	<51.9	ug/kg	379	51.9	1	12/04/18 17:03	12/07/18 17:26	84-74-2	
4,6-Dinitro-2-methylphenol	<376	ug/kg	1950	376	1	12/04/18 17:03	12/07/18 17:26	534-52-1	
2,4-Dinitrophenol	<177	ug/kg	379	177	1	12/04/18 17:03	12/07/18 17:26	51-28-5	
2,4-Dinitrotoluene	<48.3	ug/kg	379	48.3	1	12/04/18 17:03	12/07/18 17:26	121-14-2	
2,6-Dinitrotoluene	<50.2	ug/kg	379	50.2	1	12/04/18 17:03	12/07/18 17:26	606-20-2	
Di-n-octylphthalate	<44.0	ug/kg	379	44.0	1	12/04/18 17:03	12/07/18 17:26	117-84-0	
1,2-Diphenylhydrazine	<46.5	ug/kg	379	46.5	1	12/04/18 17:03	12/07/18 17:26	122-66-7	
bis(2-Ethylhexyl)phthalate	<79.1	ug/kg	379	79.1	1	12/04/18 17:03	12/07/18 17:26	117-81-7	
Fluoranthene	<43.6	ug/kg	379	43.6	1	12/04/18 17:03	12/07/18 17:26	206-44-0	
Fluorene	<174	ug/kg	379	174	1	12/04/18 17:03	12/07/18 17:26	86-73-7	
Hexachloro-1,3-butadiene	<57.7	ug/kg	379	57.7	1	12/04/18 17:03	12/07/18 17:26	87-68-3	
Hexachlorobenzene	<61.8	ug/kg	379	61.8	1	12/04/18 17:03	12/07/18 17:26	118-74-1	
Hexachloroethane	<49.3	ug/kg	379	49.3	1	12/04/18 17:03	12/07/18 17:26	67-72-1	
Indeno(1,2,3-cd)pyrene	<22.9	ug/kg	379	22.9	1	12/04/18 17:03	12/07/18 17:26	193-39-5	
Isophorone	<29.2	ug/kg	379	29.2	1	12/04/18 17:03	12/07/18 17:26	78-59-1	
1-Methylnaphthalene	<35.0	ug/kg	379	35.0	1	12/04/18 17:03	12/07/18 17:26	90-12-0	
2-Methylnaphthalene	<34.2	ug/kg	379	34.2	1	12/04/18 17:03	12/07/18 17:26	91-57-6	
2-Methylphenol(o-Cresol)	<23.7	ug/kg	379	23.7	1	12/04/18 17:03	12/07/18 17:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	<21.4	ug/kg	758	21.4	1	12/04/18 17:03	12/07/18 17:26		
Naphthalene	<29.2	ug/kg	379	29.2	1	12/04/18 17:03	12/07/18 17:26	91-20-3	
2-Nitroaniline	<95.1	ug/kg	379	95.1	1	12/04/18 17:03	12/07/18 17:26	88-74-4	
3-Nitroaniline	<41.4	ug/kg	379	41.4	1	12/04/18 17:03	12/07/18 17:26	99-09-2	
4-Nitroaniline	<55.4	ug/kg	379	55.4	1	12/04/18 17:03	12/07/18 17:26	100-01-6	
Nitrobenzene	<41.7	ug/kg	379	41.7	1	12/04/18 17:03	12/07/18 17:26	98-95-3	
2-Nitrophenol	<46.2	ug/kg	379	46.2	1	12/04/18 17:03	12/07/18 17:26	88-75-5	
4-Nitrophenol	<73.5	ug/kg	379	73.5	1	12/04/18 17:03	12/07/18 17:26	100-02-7	
N-Nitrosodimethylamine	<46.5	ug/kg	379	46.5	1	12/04/18 17:03	12/07/18 17:26	62-75-9	
N-Nitroso-di-n-propylamine	<174	ug/kg	379	174	1	12/04/18 17:03	12/07/18 17:26	621-64-7	
N-Nitrosodiphenylamine	<24.6	ug/kg	379	24.6	1	12/04/18 17:03	12/07/18 17:26	86-30-6	
Pentachlorophenol	<222	ug/kg	770	222	1	12/04/18 17:03	12/07/18 17:26	87-86-5	
Phenanthrene	<44.1	ug/kg	379	44.1	1	12/04/18 17:03	12/07/18 17:26	85-01-8	
Phenol	<24.8	ug/kg	379	24.8	1	12/04/18 17:03	12/07/18 17:26	108-95-2	
Pyrene	<28.8	ug/kg	379	28.8	1	12/04/18 17:03	12/07/18 17:26	129-00-0	
1,2,4-Trichlorobenzene	<41.6	ug/kg	379	41.6	1	12/04/18 17:03	12/07/18 17:26	120-82-1	
2,4,5-Trichlorophenol	<48.8	ug/kg	379	48.8	1	12/04/18 17:03	12/07/18 17:26	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (5)**      **Lab ID: 10457121025**      Collected: 11/28/18 09:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<58.7	ug/kg	379	58.7	1	12/04/18 17:03	12/07/18 17:26	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	53	%	43-125		1	12/04/18 17:03	12/07/18 17:26	4165-60-0	
2-Fluorobiphenyl (S)	60	%	30-132		1	12/04/18 17:03	12/07/18 17:26	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 17:26	1718-51-0	
Phenol-d6 (S)	66	%	48-125		1	12/04/18 17:03	12/07/18 17:26	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/04/18 17:03	12/07/18 17:26	367-12-4	
2,4,6-Tribromophenol (S)	67	%	60-125		1	12/04/18 17:03	12/07/18 17:26	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/05/19 10:30	03/05/19 17:24	106-93-4	
Methylene Chloride	<4.2	ug/kg	22.8	4.2	1	03/05/19 10:30	03/05/19 17:24	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	116	%	75-125		1	03/05/19 10:30	03/05/19 17:24	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 17:24	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/05/19 10:30	03/05/19 17:24	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<18.2	ug/kg	58.1	18.2	1	12/11/18 19:12	12/12/18 14:19	630-20-6	
1,1,1-Trichloroethane	<27.1	ug/kg	58.1	27.1	1	12/11/18 19:12	12/12/18 14:19	71-55-6	
1,1,2,2-Tetrachloroethane	<10.2	ug/kg	232	10.2	1	12/11/18 19:12	12/12/18 14:19	79-34-5	
1,1,2-Trichloroethane	<6.9	ug/kg	58.1	6.9	1	12/11/18 19:12	12/12/18 14:19	79-00-5	
1,1,2-Trichlorotrifluoroethane	<67.3	ug/kg	232	67.3	1	12/11/18 19:12	12/12/18 14:19	76-13-1	
1,1-Dichloroethane	<6.5	ug/kg	58.1	6.5	1	12/11/18 19:12	12/12/18 14:19	75-34-3	
1,1-Dichloroethene	<17.4	ug/kg	232	17.4	1	12/11/18 19:12	12/12/18 14:19	75-35-4	
1,1-Dichloropropene	<26.8	ug/kg	58.1	26.8	1	12/11/18 19:12	12/12/18 14:19	563-58-6	
1,2,3-Trichlorobenzene	<9.3	ug/kg	58.1	9.3	1	12/11/18 19:12	12/12/18 14:19	87-61-6	
1,2,3-Trichloropropane	<15.2	ug/kg	232	15.2	1	12/11/18 19:12	12/12/18 14:19	96-18-4	
1,2,4-Trichlorobenzene	<12.9	ug/kg	58.1	12.9	1	12/11/18 19:12	12/12/18 14:19	120-82-1	
1,2,4-Trimethylbenzene	<11.6	ug/kg	58.1	11.6	1	12/11/18 19:12	12/12/18 14:19	95-63-6	
1,2-Dibromo-3-chloropropane	<202	ug/kg	581	202	1	12/11/18 19:12	12/12/18 14:19	96-12-8	
1,2-Dibromoethane (EDB)	<6.1	ug/kg	58.1	6.1	1	12/11/18 19:12	12/12/18 14:19	106-93-4	
1,2-Dichlorobenzene	<2.3	ug/kg	58.1	2.3	1	12/11/18 19:12	12/12/18 14:19	95-50-1	
1,2-Dichloroethane	<6.4	ug/kg	58.1	6.4	1	12/11/18 19:12	12/12/18 14:19	107-06-2	
1,2-Dichloropropane	<10.0	ug/kg	58.1	10.0	1	12/11/18 19:12	12/12/18 14:19	78-87-5	
1,3,5-Trimethylbenzene	<9.3	ug/kg	58.1	9.3	1	12/11/18 19:12	12/12/18 14:19	108-67-8	
1,3-Dichlorobenzene	<2.1	ug/kg	58.1	2.1	1	12/11/18 19:12	12/12/18 14:19	541-73-1	
1,3-Dichloropropane	<8.0	ug/kg	58.1	8.0	1	12/11/18 19:12	12/12/18 14:19	142-28-9	
1,4-Dichlorobenzene	<3.6	ug/kg	58.1	3.6	1	12/11/18 19:12	12/12/18 14:19	106-46-7	
2,2-Dichloropropane	<7.2	ug/kg	232	7.2	1	12/11/18 19:12	12/12/18 14:19	594-20-7	
2-Butanone (MEK)	<30.9	ug/kg	290	30.9	1	12/11/18 19:12	12/12/18 14:19	78-93-3	
2-Chlorotoluene	<2.9	ug/kg	58.1	2.9	1	12/11/18 19:12	12/12/18 14:19	95-49-8	
4-Chlorotoluene	<3.0	ug/kg	58.1	3.0	1	12/11/18 19:12	12/12/18 14:19	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.1	ug/kg	290	12.1	1	12/11/18 19:12	12/12/18 14:19	108-10-1	
Acetone	737J	ug/kg	1160	361	1	12/11/18 19:12	12/12/18 14:19	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-13 (5)**      **Lab ID: 10457121025**      Collected: 11/28/18 09:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<48.7	ug/kg	232	48.7	1	12/11/18 19:12	12/12/18 14:19	107-05-1	
Benzene	<3.3	ug/kg	23.2	3.3	1	12/11/18 19:12	12/12/18 14:19	71-43-2	
Bromobenzene	<3.6	ug/kg	58.1	3.6	1	12/11/18 19:12	12/12/18 14:19	108-86-1	
Bromochloromethane	<20.1	ug/kg	58.1	20.1	1	12/11/18 19:12	12/12/18 14:19	74-97-5	
Bromodichloromethane	<19.9	ug/kg	58.1	19.9	1	12/11/18 19:12	12/12/18 14:19	75-27-4	
Bromoform	<87.9	ug/kg	232	87.9	1	12/11/18 19:12	12/12/18 14:19	75-25-2	
Bromomethane	<67.9	ug/kg	581	67.9	1	12/11/18 19:12	12/12/18 14:19	74-83-9	
Carbon tetrachloride	<27.8	ug/kg	58.1	27.8	1	12/11/18 19:12	12/12/18 14:19	56-23-5	
Chlorobenzene	<3.3	ug/kg	58.1	3.3	1	12/11/18 19:12	12/12/18 14:19	108-90-7	
Chloroethane	<30.2	ug/kg	581	30.2	1	12/11/18 19:12	12/12/18 14:19	75-00-3	L2
Chloroform	<29.0	ug/kg	58.1	29.0	1	12/11/18 19:12	12/12/18 14:19	67-66-3	
Chloromethane	14.1J	ug/kg	232	13.9	1	12/11/18 19:12	12/12/18 14:19	74-87-3	
Dibromochloromethane	<6.7	ug/kg	232	6.7	1	12/11/18 19:12	12/12/18 14:19	124-48-1	
Dibromomethane	<10.6	ug/kg	58.1	10.6	1	12/11/18 19:12	12/12/18 14:19	74-95-3	
Dichlorodifluoromethane	<18.8	ug/kg	232	18.8	1	12/11/18 19:12	12/12/18 14:19	75-71-8	
Dichlorofluoromethane	<80.2	ug/kg	581	80.2	1	12/11/18 19:12	12/12/18 14:19	75-43-4	N2
Diethyl ether (Ethyl ether)	<35.5	ug/kg	232	35.5	1	12/11/18 19:12	12/12/18 14:19	60-29-7	
Ethylbenzene	<3.2	ug/kg	58.1	3.2	1	12/11/18 19:12	12/12/18 14:19	100-41-4	
Hexachloro-1,3-butadiene	<14.2	ug/kg	290	14.2	1	12/11/18 19:12	12/12/18 14:19	87-68-3	
Isopropylbenzene (Cumene)	<2.6	ug/kg	58.1	2.6	1	12/11/18 19:12	12/12/18 14:19	98-82-8	
Methyl-tert-butyl ether	<6.9	ug/kg	58.1	6.9	1	12/11/18 19:12	12/12/18 14:19	1634-04-4	
Methylene Chloride	<109	ug/kg	232	109	1	12/11/18 19:12	12/12/18 14:19	75-09-2	
Naphthalene	<54.3	ug/kg	232	54.3	1	12/11/18 19:12	12/12/18 14:19	91-20-3	
Styrene	<2.6	ug/kg	58.1	2.6	1	12/11/18 19:12	12/12/18 14:19	100-42-5	
Tetrachloroethene	<20.4	ug/kg	58.1	20.4	1	12/11/18 19:12	12/12/18 14:19	127-18-4	
Tetrahydrofuran	<84.4	ug/kg	2320	84.4	1	12/11/18 19:12	12/12/18 14:19	109-99-9	
Toluene	<14.2	ug/kg	58.1	14.2	1	12/11/18 19:12	12/12/18 14:19	108-88-3	
Trichloroethene	<9.0	ug/kg	58.1	9.0	1	12/11/18 19:12	12/12/18 14:19	79-01-6	
Trichlorofluoromethane	<101	ug/kg	232	101	1	12/11/18 19:12	12/12/18 14:19	75-69-4	
Vinyl chloride	<11.4	ug/kg	58.1	11.4	1	12/11/18 19:12	12/12/18 14:19	75-01-4	
Xylene (Total)	<13.5	ug/kg	174	13.5	1	12/11/18 19:12	12/12/18 14:19	1330-20-7	
cis-1,2-Dichloroethene	<9.6	ug/kg	58.1	9.6	1	12/11/18 19:12	12/12/18 14:19	156-59-2	
cis-1,3-Dichloropropene	<8.3	ug/kg	58.1	8.3	1	12/11/18 19:12	12/12/18 14:19	10061-01-5	
n-Butylbenzene	<27.6	ug/kg	58.1	27.6	1	12/11/18 19:12	12/12/18 14:19	104-51-8	
n-Propylbenzene	<3.1	ug/kg	58.1	3.1	1	12/11/18 19:12	12/12/18 14:19	103-65-1	
p-Isopropyltoluene	<17.6	ug/kg	58.1	17.6	1	12/11/18 19:12	12/12/18 14:19	99-87-6	
sec-Butylbenzene	<11.1	ug/kg	58.1	11.1	1	12/11/18 19:12	12/12/18 14:19	135-98-8	
tert-Butylbenzene	<11.1	ug/kg	58.1	11.1	1	12/11/18 19:12	12/12/18 14:19	98-06-6	
trans-1,2-Dichloroethene	<27.2	ug/kg	58.1	27.2	1	12/11/18 19:12	12/12/18 14:19	156-60-5	
trans-1,3-Dichloropropene	<8.1	ug/kg	58.1	8.1	1	12/11/18 19:12	12/12/18 14:19	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/11/18 19:12	12/12/18 14:19	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 14:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 14:19	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (3)**      **Lab ID: 10457121026**      Collected: 11/28/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 08:28	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 08:28	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 08:28	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 08:28	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 08:28	58-89-9	
Chlordane (Technical)	<3.8	ug/kg	20.8	3.8	1	12/05/18 16:14	12/12/18 08:28	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 08:28	5103-71-9	
gamma-Chlordane	<0.48	ug/kg	2.1	0.48	1	12/05/18 16:14	12/12/18 08:28	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 08:28	72-54-8	
4,4'-DDE	<0.31	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 08:28	72-55-9	
4,4'-DDT	<0.52	ug/kg	4.2	0.52	1	12/05/18 16:14	12/12/18 08:28	50-29-3	
Dieldrin	<0.40	ug/kg	4.2	0.40	1	12/05/18 16:14	12/12/18 08:28	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 08:28	959-98-8	
Endosulfan II	<0.42	ug/kg	4.2	0.42	1	12/05/18 16:14	12/12/18 08:28	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 08:28	1031-07-8	
Endrin	<0.37	ug/kg	4.2	0.37	1	12/05/18 16:14	12/12/18 08:28	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 08:28	7421-93-4	
Endrin ketone	<0.49	ug/kg	4.2	0.49	1	12/05/18 16:14	12/12/18 08:28	53494-70-5	
Heptachlor	<0.22	ug/kg	2.1	0.22	1	12/05/18 16:14	12/12/18 08:28	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 08:28	1024-57-3	
Methoxychlor	<3.1	ug/kg	20.8	3.1	1	12/05/18 16:14	12/12/18 08:28	72-43-5	
Toxaphene	<9.9	ug/kg	62.4	9.9	1	12/05/18 16:14	12/12/18 08:28	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	96	%	30-150		1	12/05/18 16:14	12/12/18 08:28	877-09-8	
Decachlorobiphenyl (S)	79	%	30-150		1	12/05/18 16:14	12/12/18 08:28	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.4	ug/kg	41.0	11.4	1	12/05/18 14:01	12/07/18 18:58	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.4	ug/kg	41.0	14.4	1	12/05/18 14:01	12/07/18 18:58	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.4	ug/kg	41.0	16.4	1	12/05/18 14:01	12/07/18 18:58	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.9	ug/kg	41.0	13.9	1	12/05/18 14:01	12/07/18 18:58	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.3	ug/kg	41.0	12.3	1	12/05/18 14:01	12/07/18 18:58	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.1	ug/kg	41.0	12.1	1	12/05/18 14:01	12/07/18 18:58	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.8	ug/kg	41.0	9.8	1	12/05/18 14:01	12/07/18 18:58	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/05/18 14:01	12/07/18 18:58	877-09-8	
Decachlorobiphenyl (S)	91	%	30-134		1	12/05/18 14:01	12/07/18 18:58	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.5	3.0	1	12/05/18 15:46	12/13/18 11:34	68334-30-5	
Motor Oil Range	<5.4	mg/kg	12.4	5.4	1	12/05/18 15:46	12/13/18 11:34		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/05/18 15:46	12/13/18 11:34	638-68-6	
o-Terphenyl (S)	77	%	50-150		1	12/05/18 15:46	12/13/18 11:34	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (3)**      **Lab ID: 10457121026**      Collected: 11/28/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
TPH as Gas	<1.1	mg/kg	8.3	1.1	1	12/11/18 12:55	12/12/18 01:55		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	93	%	50-150		1	12/11/18 12:55	12/12/18 01:55	98-08-8	
<b>6010D MET ICP</b> Analytical Method: EPA 6010D      Preparation Method: EPA 3050									
Antimony	<0.45	mg/kg	1.2	0.45	1	12/07/18 10:11	12/10/18 13:12	7440-36-0	
Arsenic	1.7	mg/kg	1.2	0.24	1	12/07/18 10:11	12/10/18 13:12	7440-38-2	
Beryllium	0.54	mg/kg	0.30	0.016	1	12/07/18 10:11	12/10/18 13:12	7440-41-7	
Cadmium	0.037J	mg/kg	0.18	0.024	1	12/07/18 10:11	12/10/18 13:12	7440-43-9	
Chromium	5.6	mg/kg	0.59	0.10	1	12/07/18 10:11	12/10/18 13:12	7440-47-3	
Copper	15.1	mg/kg	0.59	0.066	1	12/07/18 10:11	12/10/18 13:12	7440-50-8	
Lead	3.0	mg/kg	0.59	0.13	1	12/07/18 10:11	12/10/18 13:12	7439-92-1	
Nickel	5.3	mg/kg	1.2	0.075	1	12/07/18 10:11	12/10/18 13:12	7440-02-0	
Selenium	<0.39	mg/kg	1.2	0.39	1	12/07/18 10:11	12/10/18 13:12	7782-49-2	
Silver	<0.22	mg/kg	3.0	0.22	5	12/07/18 10:11	12/11/18 12:32	7440-22-4	D3
Thallium	<0.27	mg/kg	1.2	0.27	1	12/07/18 10:11	12/10/18 13:12	7440-28-0	
Zinc	44.4	mg/kg	1.2	0.52	1	12/07/18 10:11	12/10/18 13:12	7440-66-6	
<b>7471B Mercury</b> Analytical Method: EPA 7471B      Preparation Method: EPA 7471B									
Mercury	<0.0091	mg/kg	0.023	0.0091	1	12/07/18 10:13	12/11/18 12:23	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b> Analytical Method: ASTM D2974									
Percent Moisture	19.9	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
Acenaphthene	<43.7	ug/kg	410	43.7	1	12/04/18 17:03	12/07/18 17:55	83-32-9	
Acenaphthylene	<52.3	ug/kg	410	52.3	1	12/04/18 17:03	12/07/18 17:55	208-96-8	
Anthracene	<48.0	ug/kg	410	48.0	1	12/04/18 17:03	12/07/18 17:55	120-12-7	
Benzo(a)anthracene	<42.1	ug/kg	410	42.1	1	12/04/18 17:03	12/07/18 17:55	56-55-3	
Benzo(a)pyrene	<46.4	ug/kg	410	46.4	1	12/04/18 17:03	12/07/18 17:55	50-32-8	
Benzo(b)fluoranthene	<40.1	ug/kg	410	40.1	1	12/04/18 17:03	12/07/18 17:55	205-99-2	
Benzo(g,h,i)perylene	<43.8	ug/kg	410	43.8	1	12/04/18 17:03	12/07/18 17:55	191-24-2	
Benzo(k)fluoranthene	<51.1	ug/kg	410	51.1	1	12/04/18 17:03	12/07/18 17:55	207-08-9	
4-Bromophenylphenyl ether	<48.8	ug/kg	410	48.8	1	12/04/18 17:03	12/07/18 17:55	101-55-3	
Butylbenzylphthalate	<37.5	ug/kg	410	37.5	1	12/04/18 17:03	12/07/18 17:55	85-68-7	
Carbazole	<34.0	ug/kg	410	34.0	1	12/04/18 17:03	12/07/18 17:55	86-74-8	
4-Chloro-3-methylphenol	<65.5	ug/kg	410	65.5	1	12/04/18 17:03	12/07/18 17:55	59-50-7	
4-Chloroaniline	<109	ug/kg	410	109	1	12/04/18 17:03	12/07/18 17:55	106-47-8	
bis(2-Chloroethoxy)methane	<42.0	ug/kg	410	42.0	1	12/04/18 17:03	12/07/18 17:55	111-91-1	
bis(2-Chloroethyl) ether	<32.4	ug/kg	410	32.4	1	12/04/18 17:03	12/07/18 17:55	111-44-4	
bis(2-Chloroisopropyl) ether	<42.2	ug/kg	410	42.2	1	12/04/18 17:03	12/07/18 17:55	108-60-1	
2-Chloronaphthalene	<36.2	ug/kg	410	36.2	1	12/04/18 17:03	12/07/18 17:55	91-58-7	
2-Chlorophenol	<46.7	ug/kg	410	46.7	1	12/04/18 17:03	12/07/18 17:55	95-57-8	
4-Chlorophenylphenyl ether	<50.8	ug/kg	410	50.8	1	12/04/18 17:03	12/07/18 17:55	7005-72-3	
Chrysene	<43.2	ug/kg	410	43.2	1	12/04/18 17:03	12/07/18 17:55	218-01-9	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (3)**      **Lab ID: 10457121026**      Collected: 11/28/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<43.6	ug/kg	410	43.6	1	12/04/18 17:03	12/07/18 17:55	53-70-3	
Dibenzofuran	<51.9	ug/kg	410	51.9	1	12/04/18 17:03	12/07/18 17:55	132-64-9	
1,2-Dichlorobenzene	<43.0	ug/kg	410	43.0	1	12/04/18 17:03	12/07/18 17:55	95-50-1	
1,3-Dichlorobenzene	<28.1	ug/kg	410	28.1	1	12/04/18 17:03	12/07/18 17:55	541-73-1	
1,4-Dichlorobenzene	<45.6	ug/kg	410	45.6	1	12/04/18 17:03	12/07/18 17:55	106-46-7	
3,3'-Dichlorobenzidine	<138	ug/kg	410	138	1	12/04/18 17:03	12/07/18 17:55	91-94-1	
2,4-Dichlorophenol	<68.4	ug/kg	410	68.4	1	12/04/18 17:03	12/07/18 17:55	120-83-2	
Diethylphthalate	<36.5	ug/kg	410	36.5	1	12/04/18 17:03	12/07/18 17:55	84-66-2	
2,4-Dimethylphenol	<160	ug/kg	410	160	1	12/04/18 17:03	12/07/18 17:55	105-67-9	
Dimethylphthalate	<55.6	ug/kg	410	55.6	1	12/04/18 17:03	12/07/18 17:55	131-11-3	
Di-n-butylphthalate	<56.1	ug/kg	410	56.1	1	12/04/18 17:03	12/07/18 17:55	84-74-2	
4,6-Dinitro-2-methylphenol	<406	ug/kg	2110	406	1	12/04/18 17:03	12/07/18 17:55	534-52-1	
2,4-Dinitrophenol	<191	ug/kg	410	191	1	12/04/18 17:03	12/07/18 17:55	51-28-5	
2,4-Dinitrotoluene	<52.1	ug/kg	410	52.1	1	12/04/18 17:03	12/07/18 17:55	121-14-2	
2,6-Dinitrotoluene	<54.2	ug/kg	410	54.2	1	12/04/18 17:03	12/07/18 17:55	606-20-2	
Di-n-octylphthalate	<47.5	ug/kg	410	47.5	1	12/04/18 17:03	12/07/18 17:55	117-84-0	
1,2-Diphenylhydrazine	<50.3	ug/kg	410	50.3	1	12/04/18 17:03	12/07/18 17:55	122-66-7	
bis(2-Ethylhexyl)phthalate	<85.4	ug/kg	410	85.4	1	12/04/18 17:03	12/07/18 17:55	117-81-7	
Fluoranthene	<47.0	ug/kg	410	47.0	1	12/04/18 17:03	12/07/18 17:55	206-44-0	
Fluorene	<187	ug/kg	410	187	1	12/04/18 17:03	12/07/18 17:55	86-73-7	
Hexachloro-1,3-butadiene	<62.3	ug/kg	410	62.3	1	12/04/18 17:03	12/07/18 17:55	87-68-3	
Hexachlorobenzene	<66.8	ug/kg	410	66.8	1	12/04/18 17:03	12/07/18 17:55	118-74-1	
Hexachloroethane	<53.3	ug/kg	410	53.3	1	12/04/18 17:03	12/07/18 17:55	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.7	ug/kg	410	24.7	1	12/04/18 17:03	12/07/18 17:55	193-39-5	
Isophorone	<31.5	ug/kg	410	31.5	1	12/04/18 17:03	12/07/18 17:55	78-59-1	
1-Methylnaphthalene	<37.9	ug/kg	410	37.9	1	12/04/18 17:03	12/07/18 17:55	90-12-0	
2-Methylnaphthalene	<37.0	ug/kg	410	37.0	1	12/04/18 17:03	12/07/18 17:55	91-57-6	
2-Methylphenol(o-Cresol)	<25.6	ug/kg	410	25.6	1	12/04/18 17:03	12/07/18 17:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.1	ug/kg	819	23.1	1	12/04/18 17:03	12/07/18 17:55		
Naphthalene	<31.5	ug/kg	410	31.5	1	12/04/18 17:03	12/07/18 17:55	91-20-3	
2-Nitroaniline	<103	ug/kg	410	103	1	12/04/18 17:03	12/07/18 17:55	88-74-4	
3-Nitroaniline	<44.7	ug/kg	410	44.7	1	12/04/18 17:03	12/07/18 17:55	99-09-2	
4-Nitroaniline	<59.8	ug/kg	410	59.8	1	12/04/18 17:03	12/07/18 17:55	100-01-6	
Nitrobenzene	<45.1	ug/kg	410	45.1	1	12/04/18 17:03	12/07/18 17:55	98-95-3	
2-Nitrophenol	<49.9	ug/kg	410	49.9	1	12/04/18 17:03	12/07/18 17:55	88-75-5	
4-Nitrophenol	<79.4	ug/kg	410	79.4	1	12/04/18 17:03	12/07/18 17:55	100-02-7	
N-Nitrosodimethylamine	<50.3	ug/kg	410	50.3	1	12/04/18 17:03	12/07/18 17:55	62-75-9	
N-Nitroso-di-n-propylamine	<187	ug/kg	410	187	1	12/04/18 17:03	12/07/18 17:55	621-64-7	
N-Nitrosodiphenylamine	<26.6	ug/kg	410	26.6	1	12/04/18 17:03	12/07/18 17:55	86-30-6	
Pentachlorophenol	<240	ug/kg	832	240	1	12/04/18 17:03	12/07/18 17:55	87-86-5	
Phenanthrene	<47.7	ug/kg	410	47.7	1	12/04/18 17:03	12/07/18 17:55	85-01-8	
Phenol	<26.8	ug/kg	410	26.8	1	12/04/18 17:03	12/07/18 17:55	108-95-2	
Pyrene	<31.2	ug/kg	410	31.2	1	12/04/18 17:03	12/07/18 17:55	129-00-0	
1,2,4-Trichlorobenzene	<44.9	ug/kg	410	44.9	1	12/04/18 17:03	12/07/18 17:55	120-82-1	
2,4,5-Trichlorophenol	<52.8	ug/kg	410	52.8	1	12/04/18 17:03	12/07/18 17:55	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (3)**      **Lab ID: 10457121026**      Collected: 11/28/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<63.4	ug/kg	410	63.4	1	12/04/18 17:03	12/07/18 17:55	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	56	%	43-125		1	12/04/18 17:03	12/07/18 17:55	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-132		1	12/04/18 17:03	12/07/18 17:55	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/04/18 17:03	12/07/18 17:55	1718-51-0	
Phenol-d6 (S)	67	%	48-125		1	12/04/18 17:03	12/07/18 17:55	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/04/18 17:03	12/07/18 17:55	367-12-4	
2,4,6-Tribromophenol (S)	70	%	60-125		1	12/04/18 17:03	12/07/18 17:55	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/05/19 10:30	03/05/19 17:43	106-93-4	
Methylene Chloride	<4.2	ug/kg	23.0	4.2	1	03/05/19 10:30	03/05/19 17:43	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/05/19 10:30	03/05/19 17:43	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 17:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 17:43	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>958J</b>	ug/kg	1650	514	1	12/11/18 19:12	12/12/18 14:38	67-64-1	B
Allyl chloride	<69.2	ug/kg	330	69.2	1	12/11/18 19:12	12/12/18 14:38	107-05-1	
Benzene	<4.7	ug/kg	33.0	4.7	1	12/11/18 19:12	12/12/18 14:38	71-43-2	
Bromobenzene	<5.1	ug/kg	82.6	5.1	1	12/11/18 19:12	12/12/18 14:38	108-86-1	
Bromochloromethane	<28.6	ug/kg	82.6	28.6	1	12/11/18 19:12	12/12/18 14:38	74-97-5	
Bromodichloromethane	<28.2	ug/kg	82.6	28.2	1	12/11/18 19:12	12/12/18 14:38	75-27-4	
Bromoform	<125	ug/kg	330	125	1	12/11/18 19:12	12/12/18 14:38	75-25-2	
Bromomethane	<96.6	ug/kg	826	96.6	1	12/11/18 19:12	12/12/18 14:38	74-83-9	
2-Butanone (MEK)	<43.9	ug/kg	413	43.9	1	12/11/18 19:12	12/12/18 14:38	78-93-3	
n-Butylbenzene	<39.3	ug/kg	82.6	39.3	1	12/11/18 19:12	12/12/18 14:38	104-51-8	
sec-Butylbenzene	<15.8	ug/kg	82.6	15.8	1	12/11/18 19:12	12/12/18 14:38	135-98-8	
tert-Butylbenzene	<15.9	ug/kg	82.6	15.9	1	12/11/18 19:12	12/12/18 14:38	98-06-6	
Carbon tetrachloride	<39.5	ug/kg	82.6	39.5	1	12/11/18 19:12	12/12/18 14:38	56-23-5	
Chlorobenzene	<4.7	ug/kg	82.6	4.7	1	12/11/18 19:12	12/12/18 14:38	108-90-7	
Chloroethane	<42.9	ug/kg	826	42.9	1	12/11/18 19:12	12/12/18 14:38	75-00-3	L2
Chloroform	<41.3	ug/kg	82.6	41.3	1	12/11/18 19:12	12/12/18 14:38	67-66-3	
Chloromethane	<19.8	ug/kg	330	19.8	1	12/11/18 19:12	12/12/18 14:38	74-87-3	
2-Chlorotoluene	<4.1	ug/kg	82.6	4.1	1	12/11/18 19:12	12/12/18 14:38	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	82.6	4.2	1	12/11/18 19:12	12/12/18 14:38	106-43-4	
1,2-Dibromo-3-chloropropane	<287	ug/kg	826	287	1	12/11/18 19:12	12/12/18 14:38	96-12-8	
Dibromochloromethane	<9.6	ug/kg	330	9.6	1	12/11/18 19:12	12/12/18 14:38	124-48-1	
1,2-Dibromoethane (EDB)	<8.7	ug/kg	82.6	8.7	1	12/11/18 19:12	12/12/18 14:38	106-93-4	
Dibromomethane	<15.1	ug/kg	82.6	15.1	1	12/11/18 19:12	12/12/18 14:38	74-95-3	
1,2-Dichlorobenzene	<3.3	ug/kg	82.6	3.3	1	12/11/18 19:12	12/12/18 14:38	95-50-1	
1,3-Dichlorobenzene	<3.0	ug/kg	82.6	3.0	1	12/11/18 19:12	12/12/18 14:38	541-73-1	
1,4-Dichlorobenzene	<5.1	ug/kg	82.6	5.1	1	12/11/18 19:12	12/12/18 14:38	106-46-7	
Dichlorodifluoromethane	<26.8	ug/kg	330	26.8	1	12/11/18 19:12	12/12/18 14:38	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (3)**      **Lab ID: 10457121026**      Collected: 11/28/18 10:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<9.3	ug/kg	82.6	9.3	1	12/11/18 19:12	12/12/18 14:38	75-34-3	
1,2-Dichloroethane	<9.1	ug/kg	82.6	9.1	1	12/11/18 19:12	12/12/18 14:38	107-06-2	
1,1-Dichloroethene	<24.8	ug/kg	330	24.8	1	12/11/18 19:12	12/12/18 14:38	75-35-4	
cis-1,2-Dichloroethene	<13.7	ug/kg	82.6	13.7	1	12/11/18 19:12	12/12/18 14:38	156-59-2	
trans-1,2-Dichloroethene	<38.7	ug/kg	82.6	38.7	1	12/11/18 19:12	12/12/18 14:38	156-60-5	
Dichlorofluoromethane	<114	ug/kg	826	114	1	12/11/18 19:12	12/12/18 14:38	75-43-4	N2
1,2-Dichloropropane	<14.2	ug/kg	82.6	14.2	1	12/11/18 19:12	12/12/18 14:38	78-87-5	
1,3-Dichloropropane	<11.4	ug/kg	82.6	11.4	1	12/11/18 19:12	12/12/18 14:38	142-28-9	
2,2-Dichloropropane	<10.3	ug/kg	330	10.3	1	12/11/18 19:12	12/12/18 14:38	594-20-7	
1,1-Dichloropropene	<38.2	ug/kg	82.6	38.2	1	12/11/18 19:12	12/12/18 14:38	563-58-6	
cis-1,3-Dichloropropene	<11.8	ug/kg	82.6	11.8	1	12/11/18 19:12	12/12/18 14:38	10061-01-5	
trans-1,3-Dichloropropene	<11.5	ug/kg	82.6	11.5	1	12/11/18 19:12	12/12/18 14:38	10061-02-6	
Diethyl ether (Ethyl ether)	<50.5	ug/kg	330	50.5	1	12/11/18 19:12	12/12/18 14:38	60-29-7	
Ethylbenzene	<4.5	ug/kg	82.6	4.5	1	12/11/18 19:12	12/12/18 14:38	100-41-4	
Hexachloro-1,3-butadiene	<20.2	ug/kg	413	20.2	1	12/11/18 19:12	12/12/18 14:38	87-68-3	
Isopropylbenzene (Cumene)	<3.7	ug/kg	82.6	3.7	1	12/11/18 19:12	12/12/18 14:38	98-82-8	
p-Isopropyltoluene	<25.1	ug/kg	82.6	25.1	1	12/11/18 19:12	12/12/18 14:38	99-87-6	
Methylene Chloride	<155	ug/kg	330	155	1	12/11/18 19:12	12/12/18 14:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<17.2	ug/kg	413	17.2	1	12/11/18 19:12	12/12/18 14:38	108-10-1	
Methyl-tert-butyl ether	<9.8	ug/kg	82.6	9.8	1	12/11/18 19:12	12/12/18 14:38	1634-04-4	
Naphthalene	<77.3	ug/kg	330	77.3	1	12/11/18 19:12	12/12/18 14:38	91-20-3	
n-Propylbenzene	<4.4	ug/kg	82.6	4.4	1	12/11/18 19:12	12/12/18 14:38	103-65-1	
Styrene	<3.8	ug/kg	82.6	3.8	1	12/11/18 19:12	12/12/18 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	<25.9	ug/kg	82.6	25.9	1	12/11/18 19:12	12/12/18 14:38	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.6	ug/kg	330	14.6	1	12/11/18 19:12	12/12/18 14:38	79-34-5	
Tetrachloroethene	<29.1	ug/kg	82.6	29.1	1	12/11/18 19:12	12/12/18 14:38	127-18-4	
Tetrahydrofuran	<120	ug/kg	3300	120	1	12/11/18 19:12	12/12/18 14:38	109-99-9	
Toluene	<20.2	ug/kg	82.6	20.2	1	12/11/18 19:12	12/12/18 14:38	108-88-3	
1,2,3-Trichlorobenzene	<13.2	ug/kg	82.6	13.2	1	12/11/18 19:12	12/12/18 14:38	87-61-6	
1,2,4-Trichlorobenzene	<18.3	ug/kg	82.6	18.3	1	12/11/18 19:12	12/12/18 14:38	120-82-1	
1,1,1-Trichloroethane	<38.5	ug/kg	82.6	38.5	1	12/11/18 19:12	12/12/18 14:38	71-55-6	
1,1,2-Trichloroethane	<9.9	ug/kg	82.6	9.9	1	12/11/18 19:12	12/12/18 14:38	79-00-5	
Trichloroethene	<12.7	ug/kg	82.6	12.7	1	12/11/18 19:12	12/12/18 14:38	79-01-6	
Trichlorofluoromethane	<144	ug/kg	330	144	1	12/11/18 19:12	12/12/18 14:38	75-69-4	
1,2,3-Trichloropropane	<21.6	ug/kg	330	21.6	1	12/11/18 19:12	12/12/18 14:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<95.8	ug/kg	330	95.8	1	12/11/18 19:12	12/12/18 14:38	76-13-1	
1,2,4-Trimethylbenzene	<16.5	ug/kg	82.6	16.5	1	12/11/18 19:12	12/12/18 14:38	95-63-6	
1,3,5-Trimethylbenzene	<13.2	ug/kg	82.6	13.2	1	12/11/18 19:12	12/12/18 14:38	108-67-8	
Vinyl chloride	<16.3	ug/kg	82.6	16.3	1	12/11/18 19:12	12/12/18 14:38	75-01-4	
Xylene (Total)	<19.2	ug/kg	248	19.2	1	12/11/18 19:12	12/12/18 14:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-125		1	12/11/18 19:12	12/12/18 14:38	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 14:38	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 14:38	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (6)**      **Lab ID: 10457121027**      Collected: 11/28/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.23	ug/kg	2.3	0.23	1	12/05/18 16:14	12/12/18 08:46	309-00-2	
alpha-BHC	<0.16	ug/kg	2.3	0.16	1	12/05/18 16:14	12/12/18 08:46	319-84-6	
beta-BHC	<0.30	ug/kg	2.3	0.30	1	12/05/18 16:14	12/12/18 08:46	319-85-7	
delta-BHC	<0.19	ug/kg	2.3	0.19	1	12/05/18 16:14	12/12/18 08:46	319-86-8	
gamma-BHC (Lindane)	<0.19	ug/kg	2.3	0.19	1	12/05/18 16:14	12/12/18 08:46	58-89-9	
Chlordane (Technical)	<4.1	ug/kg	22.6	4.1	1	12/05/18 16:14	12/12/18 08:46	57-74-9	
alpha-Chlordane	<0.18	ug/kg	2.3	0.18	1	12/05/18 16:14	12/12/18 08:46	5103-71-9	
gamma-Chlordane	<0.52	ug/kg	2.3	0.52	1	12/05/18 16:14	12/12/18 08:46	5103-74-2	
4,4'-DDD	<0.41	ug/kg	4.5	0.41	1	12/05/18 16:14	12/12/18 08:46	72-54-8	
4,4'-DDE	<0.34	ug/kg	4.5	0.34	1	12/05/18 16:14	12/12/18 08:46	72-55-9	
4,4'-DDT	<0.57	ug/kg	4.5	0.57	1	12/05/18 16:14	12/12/18 08:46	50-29-3	
Dieldrin	<0.44	ug/kg	4.5	0.44	1	12/05/18 16:14	12/12/18 08:46	60-57-1	
Endosulfan I	<0.20	ug/kg	2.3	0.20	1	12/05/18 16:14	12/12/18 08:46	959-98-8	
Endosulfan II	<0.45	ug/kg	4.5	0.45	1	12/05/18 16:14	12/12/18 08:46	33213-65-9	
Endosulfan sulfate	<0.46	ug/kg	4.5	0.46	1	12/05/18 16:14	12/12/18 08:46	1031-07-8	
Endrin	<0.40	ug/kg	4.5	0.40	1	12/05/18 16:14	12/12/18 08:46	72-20-8	
Endrin aldehyde	<1.4	ug/kg	4.5	1.4	1	12/05/18 16:14	12/12/18 08:46	7421-93-4	
Endrin ketone	<0.53	ug/kg	4.5	0.53	1	12/05/18 16:14	12/12/18 08:46	53494-70-5	
Heptachlor	<0.24	ug/kg	2.3	0.24	1	12/05/18 16:14	12/12/18 08:46	76-44-8	
Heptachlor epoxide	<0.21	ug/kg	2.3	0.21	1	12/05/18 16:14	12/12/18 08:46	1024-57-3	
Methoxychlor	<3.4	ug/kg	22.6	3.4	1	12/05/18 16:14	12/12/18 08:46	72-43-5	
Toxaphene	<10.7	ug/kg	67.7	10.7	1	12/05/18 16:14	12/12/18 08:46	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	30-150		1	12/05/18 16:14	12/12/18 08:46	877-09-8	
Decachlorobiphenyl (S)	76	%	30-150		1	12/05/18 16:14	12/12/18 08:46	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.5	ug/kg	44.7	12.5	1	12/05/18 14:01	12/07/18 19:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.7	ug/kg	44.7	15.7	1	12/05/18 14:01	12/07/18 19:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.9	ug/kg	44.7	17.9	1	12/05/18 14:01	12/07/18 19:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.2	ug/kg	44.7	15.2	1	12/05/18 14:01	12/07/18 19:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.4	ug/kg	44.7	13.4	1	12/05/18 14:01	12/07/18 19:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<13.2	ug/kg	44.7	13.2	1	12/05/18 14:01	12/07/18 19:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.7	ug/kg	44.7	10.7	1	12/05/18 14:01	12/07/18 19:14	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/05/18 14:01	12/07/18 19:14	877-09-8	
Decachlorobiphenyl (S)	93	%	30-134		1	12/05/18 14:01	12/07/18 19:14	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.3	mg/kg	20.2	3.3	1	12/05/18 15:46	12/13/18 11:46	68334-30-5	
Motor Oil Range	<5.8	mg/kg	13.5	5.8	1	12/05/18 15:46	12/13/18 11:46		
<b>Surrogates</b>									
n-Triacontane (S)	107	%	50-150		1	12/05/18 15:46	12/13/18 11:46	638-68-6	
o-Terphenyl (S)	95	%	50-150		1	12/05/18 15:46	12/13/18 11:46	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (6)**      **Lab ID: 10457121027**      Collected: 11/28/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.90	mg/kg	6.8	0.90	1	12/11/18 12:55	12/12/18 02:12		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	90	%	50-150		1	12/11/18 12:55	12/12/18 02:12	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.51	mg/kg	1.4	0.51	1	12/07/18 10:11	12/10/18 13:15	7440-36-0	
Arsenic	1.2J	mg/kg	1.4	0.28	1	12/07/18 10:11	12/10/18 13:15	7440-38-2	
Beryllium	0.48	mg/kg	0.34	0.018	1	12/07/18 10:11	12/10/18 13:15	7440-41-7	
Cadmium	<0.027	mg/kg	0.20	0.027	1	12/07/18 10:11	12/10/18 13:15	7440-43-9	
Chromium	6.6	mg/kg	0.68	0.12	1	12/07/18 10:11	12/10/18 13:15	7440-47-3	
Copper	12.5	mg/kg	0.68	0.075	1	12/07/18 10:11	12/10/18 13:15	7440-50-8	
Lead	3.4	mg/kg	0.68	0.15	1	12/07/18 10:11	12/10/18 13:15	7439-92-1	
Nickel	4.4	mg/kg	1.4	0.085	1	12/07/18 10:11	12/10/18 13:15	7440-02-0	
Selenium	<0.44	mg/kg	1.4	0.44	1	12/07/18 10:11	12/10/18 13:15	7782-49-2	
Silver	<0.25	mg/kg	3.4	0.25	5	12/07/18 10:11	12/11/18 12:35	7440-22-4	D3
Thallium	0.47J	mg/kg	1.4	0.31	1	12/07/18 10:11	12/10/18 13:15	7440-28-0	
Zinc	46.1	mg/kg	1.4	0.59	1	12/07/18 10:11	12/10/18 13:15	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0091	mg/kg	0.023	0.0091	1	12/07/18 10:13	12/11/18 12:25	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	26.2	%	0.10	0.10	1		12/12/18 12:03		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<47.6	ug/kg	447	47.6	1	12/04/18 17:03	12/07/18 18:24	83-32-9	
Acenaphthylene	<57.0	ug/kg	447	57.0	1	12/04/18 17:03	12/07/18 18:24	208-96-8	
Anthracene	<52.4	ug/kg	447	52.4	1	12/04/18 17:03	12/07/18 18:24	120-12-7	
Benzo(a)anthracene	<45.9	ug/kg	447	45.9	1	12/04/18 17:03	12/07/18 18:24	56-55-3	
Benzo(a)pyrene	<50.6	ug/kg	447	50.6	1	12/04/18 17:03	12/07/18 18:24	50-32-8	
Benzo(b)fluoranthene	<43.7	ug/kg	447	43.7	1	12/04/18 17:03	12/07/18 18:24	205-99-2	
Benzo(g,h,i)perylene	<47.8	ug/kg	447	47.8	1	12/04/18 17:03	12/07/18 18:24	191-24-2	
Benzo(k)fluoranthene	<55.8	ug/kg	447	55.8	1	12/04/18 17:03	12/07/18 18:24	207-08-9	
4-Bromophenylphenyl ether	<53.2	ug/kg	447	53.2	1	12/04/18 17:03	12/07/18 18:24	101-55-3	
Butylbenzylphthalate	<40.9	ug/kg	447	40.9	1	12/04/18 17:03	12/07/18 18:24	85-68-7	
Carbazole	<37.1	ug/kg	447	37.1	1	12/04/18 17:03	12/07/18 18:24	86-74-8	
4-Chloro-3-methylphenol	<71.5	ug/kg	447	71.5	1	12/04/18 17:03	12/07/18 18:24	59-50-7	
4-Chloroaniline	<119	ug/kg	447	119	1	12/04/18 17:03	12/07/18 18:24	106-47-8	
bis(2-Chloroethoxy)methane	<45.7	ug/kg	447	45.7	1	12/04/18 17:03	12/07/18 18:24	111-91-1	
bis(2-Chloroethyl) ether	<35.3	ug/kg	447	35.3	1	12/04/18 17:03	12/07/18 18:24	111-44-4	
bis(2-Chloroisopropyl) ether	<46.0	ug/kg	447	46.0	1	12/04/18 17:03	12/07/18 18:24	108-60-1	
2-Chloronaphthalene	<39.5	ug/kg	447	39.5	1	12/04/18 17:03	12/07/18 18:24	91-58-7	
2-Chlorophenol	<50.9	ug/kg	447	50.9	1	12/04/18 17:03	12/07/18 18:24	95-57-8	
4-Chlorophenylphenyl ether	<55.3	ug/kg	447	55.3	1	12/04/18 17:03	12/07/18 18:24	7005-72-3	
Chrysene	<47.1	ug/kg	447	47.1	1	12/04/18 17:03	12/07/18 18:24	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (6)**      **Lab ID: 10457121027**      Collected: 11/28/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<47.5	ug/kg	447	47.5	1	12/04/18 17:03	12/07/18 18:24	53-70-3	
Dibenzofuran	<56.6	ug/kg	447	56.6	1	12/04/18 17:03	12/07/18 18:24	132-64-9	
1,2-Dichlorobenzene	<46.8	ug/kg	447	46.8	1	12/04/18 17:03	12/07/18 18:24	95-50-1	
1,3-Dichlorobenzene	<30.6	ug/kg	447	30.6	1	12/04/18 17:03	12/07/18 18:24	541-73-1	
1,4-Dichlorobenzene	<49.7	ug/kg	447	49.7	1	12/04/18 17:03	12/07/18 18:24	106-46-7	
3,3'-Dichlorobenzidine	<150	ug/kg	447	150	1	12/04/18 17:03	12/07/18 18:24	91-94-1	
2,4-Dichlorophenol	<74.6	ug/kg	447	74.6	1	12/04/18 17:03	12/07/18 18:24	120-83-2	
Diethylphthalate	<39.8	ug/kg	447	39.8	1	12/04/18 17:03	12/07/18 18:24	84-66-2	
2,4-Dimethylphenol	<175	ug/kg	447	175	1	12/04/18 17:03	12/07/18 18:24	105-67-9	
Dimethylphthalate	<60.6	ug/kg	447	60.6	1	12/04/18 17:03	12/07/18 18:24	131-11-3	
Di-n-butylphthalate	<61.2	ug/kg	447	61.2	1	12/04/18 17:03	12/07/18 18:24	84-74-2	
4,6-Dinitro-2-methylphenol	<443	ug/kg	2300	443	1	12/04/18 17:03	12/07/18 18:24	534-52-1	
2,4-Dinitrophenol	<208	ug/kg	447	208	1	12/04/18 17:03	12/07/18 18:24	51-28-5	
2,4-Dinitrotoluene	<56.8	ug/kg	447	56.8	1	12/04/18 17:03	12/07/18 18:24	121-14-2	
2,6-Dinitrotoluene	<59.1	ug/kg	447	59.1	1	12/04/18 17:03	12/07/18 18:24	606-20-2	
Di-n-octylphthalate	<51.8	ug/kg	447	51.8	1	12/04/18 17:03	12/07/18 18:24	117-84-0	
1,2-Diphenylhydrazine	<54.8	ug/kg	447	54.8	1	12/04/18 17:03	12/07/18 18:24	122-66-7	
bis(2-Ethylhexyl)phthalate	<93.1	ug/kg	447	93.1	1	12/04/18 17:03	12/07/18 18:24	117-81-7	
Fluoranthene	<51.3	ug/kg	447	51.3	1	12/04/18 17:03	12/07/18 18:24	206-44-0	
Fluorene	<204	ug/kg	447	204	1	12/04/18 17:03	12/07/18 18:24	86-73-7	
Hexachloro-1,3-butadiene	<67.9	ug/kg	447	67.9	1	12/04/18 17:03	12/07/18 18:24	87-68-3	
Hexachlorobenzene	<72.8	ug/kg	447	72.8	1	12/04/18 17:03	12/07/18 18:24	118-74-1	
Hexachloroethane	<58.1	ug/kg	447	58.1	1	12/04/18 17:03	12/07/18 18:24	67-72-1	
Indeno(1,2,3-cd)pyrene	<26.9	ug/kg	447	26.9	1	12/04/18 17:03	12/07/18 18:24	193-39-5	
Isophorone	<34.4	ug/kg	447	34.4	1	12/04/18 17:03	12/07/18 18:24	78-59-1	
1-Methylnaphthalene	<41.3	ug/kg	447	41.3	1	12/04/18 17:03	12/07/18 18:24	90-12-0	
2-Methylnaphthalene	<40.3	ug/kg	447	40.3	1	12/04/18 17:03	12/07/18 18:24	91-57-6	
2-Methylphenol(o-Cresol)	<27.9	ug/kg	447	27.9	1	12/04/18 17:03	12/07/18 18:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	<25.2	ug/kg	893	25.2	1	12/04/18 17:03	12/07/18 18:24		
Naphthalene	<34.4	ug/kg	447	34.4	1	12/04/18 17:03	12/07/18 18:24	91-20-3	
2-Nitroaniline	<112	ug/kg	447	112	1	12/04/18 17:03	12/07/18 18:24	88-74-4	
3-Nitroaniline	<48.7	ug/kg	447	48.7	1	12/04/18 17:03	12/07/18 18:24	99-09-2	
4-Nitroaniline	<65.2	ug/kg	447	65.2	1	12/04/18 17:03	12/07/18 18:24	100-01-6	
Nitrobenzene	<49.1	ug/kg	447	49.1	1	12/04/18 17:03	12/07/18 18:24	98-95-3	
2-Nitrophenol	<54.4	ug/kg	447	54.4	1	12/04/18 17:03	12/07/18 18:24	88-75-5	
4-Nitrophenol	<86.6	ug/kg	447	86.6	1	12/04/18 17:03	12/07/18 18:24	100-02-7	
N-Nitrosodimethylamine	<54.8	ug/kg	447	54.8	1	12/04/18 17:03	12/07/18 18:24	62-75-9	
N-Nitroso-di-n-propylamine	<204	ug/kg	447	204	1	12/04/18 17:03	12/07/18 18:24	621-64-7	
N-Nitrosodiphenylamine	<29.0	ug/kg	447	29.0	1	12/04/18 17:03	12/07/18 18:24	86-30-6	
Pentachlorophenol	<261	ug/kg	907	261	1	12/04/18 17:03	12/07/18 18:24	87-86-5	
Phenanthrene	<52.0	ug/kg	447	52.0	1	12/04/18 17:03	12/07/18 18:24	85-01-8	
Phenol	<29.2	ug/kg	447	29.2	1	12/04/18 17:03	12/07/18 18:24	108-95-2	
Pyrene	<34.0	ug/kg	447	34.0	1	12/04/18 17:03	12/07/18 18:24	129-00-0	
1,2,4-Trichlorobenzene	<49.0	ug/kg	447	49.0	1	12/04/18 17:03	12/07/18 18:24	120-82-1	
2,4,5-Trichlorophenol	<57.5	ug/kg	447	57.5	1	12/04/18 17:03	12/07/18 18:24	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (6)**      **Lab ID: 10457121027**      Collected: 11/28/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<69.2	ug/kg	447	69.2	1	12/04/18 17:03	12/07/18 18:24	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	56	%	43-125		1	12/04/18 17:03	12/07/18 18:24	4165-60-0	
2-Fluorobiphenyl (S)	56	%	30-132		1	12/04/18 17:03	12/07/18 18:24	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 18:24	1718-51-0	
Phenol-d6 (S)	64	%	48-125		1	12/04/18 17:03	12/07/18 18:24	13127-88-3	
2-Fluorophenol (S)	63	%	40-125		1	12/04/18 17:03	12/07/18 18:24	367-12-4	
2,4,6-Tribromophenol (S)	76	%	60-125		1	12/04/18 17:03	12/07/18 18:24	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.29	ug/kg	5.2	0.29	1	03/05/19 10:30	03/05/19 18:02	106-93-4	
Methylene Chloride	<4.8	ug/kg	26.1	4.8	1	03/05/19 10:30	03/05/19 18:02	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/05/19 10:30	03/05/19 18:02	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 18:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 18:02	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<b>1110J</b>	ug/kg	1620	503	1	12/11/18 19:12	12/12/18 14:57	67-64-1	B
Allyl chloride	<67.8	ug/kg	324	67.8	1	12/11/18 19:12	12/12/18 14:57	107-05-1	
Benzene	<4.6	ug/kg	32.4	4.6	1	12/11/18 19:12	12/12/18 14:57	71-43-2	
Bromobenzene	<5.0	ug/kg	80.9	5.0	1	12/11/18 19:12	12/12/18 14:57	108-86-1	
Bromochloromethane	<28.0	ug/kg	80.9	28.0	1	12/11/18 19:12	12/12/18 14:57	74-97-5	
Bromodichloromethane	<27.7	ug/kg	80.9	27.7	1	12/11/18 19:12	12/12/18 14:57	75-27-4	
Bromoform	<122	ug/kg	324	122	1	12/11/18 19:12	12/12/18 14:57	75-25-2	
Bromomethane	<94.6	ug/kg	809	94.6	1	12/11/18 19:12	12/12/18 14:57	74-83-9	
2-Butanone (MEK)	<43.0	ug/kg	404	43.0	1	12/11/18 19:12	12/12/18 14:57	78-93-3	
n-Butylbenzene	<38.5	ug/kg	80.9	38.5	1	12/11/18 19:12	12/12/18 14:57	104-51-8	
sec-Butylbenzene	<15.5	ug/kg	80.9	15.5	1	12/11/18 19:12	12/12/18 14:57	135-98-8	
tert-Butylbenzene	<15.5	ug/kg	80.9	15.5	1	12/11/18 19:12	12/12/18 14:57	98-06-6	
Carbon tetrachloride	<38.7	ug/kg	80.9	38.7	1	12/11/18 19:12	12/12/18 14:57	56-23-5	
Chlorobenzene	<4.6	ug/kg	80.9	4.6	1	12/11/18 19:12	12/12/18 14:57	108-90-7	
Chloroethane	<42.1	ug/kg	809	42.1	1	12/11/18 19:12	12/12/18 14:57	75-00-3	L2
Chloroform	<40.4	ug/kg	80.9	40.4	1	12/11/18 19:12	12/12/18 14:57	67-66-3	
Chloromethane	<19.4	ug/kg	324	19.4	1	12/11/18 19:12	12/12/18 14:57	74-87-3	
2-Chlorotoluene	<4.0	ug/kg	80.9	4.0	1	12/11/18 19:12	12/12/18 14:57	95-49-8	
4-Chlorotoluene	<4.1	ug/kg	80.9	4.1	1	12/11/18 19:12	12/12/18 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	<281	ug/kg	809	281	1	12/11/18 19:12	12/12/18 14:57	96-12-8	
Dibromochloromethane	<9.4	ug/kg	324	9.4	1	12/11/18 19:12	12/12/18 14:57	124-48-1	
1,2-Dibromoethane (EDB)	<8.5	ug/kg	80.9	8.5	1	12/11/18 19:12	12/12/18 14:57	106-93-4	
Dibromomethane	<14.8	ug/kg	80.9	14.8	1	12/11/18 19:12	12/12/18 14:57	74-95-3	
1,2-Dichlorobenzene	<3.3	ug/kg	80.9	3.3	1	12/11/18 19:12	12/12/18 14:57	95-50-1	
1,3-Dichlorobenzene	<2.9	ug/kg	80.9	2.9	1	12/11/18 19:12	12/12/18 14:57	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/kg	80.9	5.0	1	12/11/18 19:12	12/12/18 14:57	106-46-7	
Dichlorodifluoromethane	<26.2	ug/kg	324	26.2	1	12/11/18 19:12	12/12/18 14:57	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-14 (6)**      **Lab ID: 10457121027**      Collected: 11/28/18 10:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<9.1	ug/kg	80.9	9.1	1	12/11/18 19:12	12/12/18 14:57	75-34-3	
1,2-Dichloroethane	<8.9	ug/kg	80.9	8.9	1	12/11/18 19:12	12/12/18 14:57	107-06-2	
1,1-Dichloroethene	<24.3	ug/kg	324	24.3	1	12/11/18 19:12	12/12/18 14:57	75-35-4	
cis-1,2-Dichloroethene	<13.4	ug/kg	80.9	13.4	1	12/11/18 19:12	12/12/18 14:57	156-59-2	
trans-1,2-Dichloroethene	<37.9	ug/kg	80.9	37.9	1	12/11/18 19:12	12/12/18 14:57	156-60-5	
Dichlorofluoromethane	<112	ug/kg	809	112	1	12/11/18 19:12	12/12/18 14:57	75-43-4	N2
1,2-Dichloropropane	<13.9	ug/kg	80.9	13.9	1	12/11/18 19:12	12/12/18 14:57	78-87-5	
1,3-Dichloropropane	<11.2	ug/kg	80.9	11.2	1	12/11/18 19:12	12/12/18 14:57	142-28-9	
2,2-Dichloropropane	<10.1	ug/kg	324	10.1	1	12/11/18 19:12	12/12/18 14:57	594-20-7	
1,1-Dichloropropene	<37.4	ug/kg	80.9	37.4	1	12/11/18 19:12	12/12/18 14:57	563-58-6	
cis-1,3-Dichloropropene	<11.6	ug/kg	80.9	11.6	1	12/11/18 19:12	12/12/18 14:57	10061-01-5	
trans-1,3-Dichloropropene	<11.2	ug/kg	80.9	11.2	1	12/11/18 19:12	12/12/18 14:57	10061-02-6	
Diethyl ether (Ethyl ether)	<49.5	ug/kg	324	49.5	1	12/11/18 19:12	12/12/18 14:57	60-29-7	
Ethylbenzene	<4.4	ug/kg	80.9	4.4	1	12/11/18 19:12	12/12/18 14:57	100-41-4	
Hexachloro-1,3-butadiene	<19.7	ug/kg	404	19.7	1	12/11/18 19:12	12/12/18 14:57	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	80.9	3.6	1	12/11/18 19:12	12/12/18 14:57	98-82-8	
p-Isopropyltoluene	<24.6	ug/kg	80.9	24.6	1	12/11/18 19:12	12/12/18 14:57	99-87-6	
Methylene Chloride	<152	ug/kg	324	152	1	12/11/18 19:12	12/12/18 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<16.8	ug/kg	404	16.8	1	12/11/18 19:12	12/12/18 14:57	108-10-1	
Methyl-tert-butyl ether	<9.6	ug/kg	80.9	9.6	1	12/11/18 19:12	12/12/18 14:57	1634-04-4	
Naphthalene	<75.7	ug/kg	324	75.7	1	12/11/18 19:12	12/12/18 14:57	91-20-3	
n-Propylbenzene	<4.3	ug/kg	80.9	4.3	1	12/11/18 19:12	12/12/18 14:57	103-65-1	
Styrene	<3.7	ug/kg	80.9	3.7	1	12/11/18 19:12	12/12/18 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<25.4	ug/kg	80.9	25.4	1	12/11/18 19:12	12/12/18 14:57	630-20-6	
1,1,1,2,2-Tetrachloroethane	<14.3	ug/kg	324	14.3	1	12/11/18 19:12	12/12/18 14:57	79-34-5	
Tetrachloroethene	<28.5	ug/kg	80.9	28.5	1	12/11/18 19:12	12/12/18 14:57	127-18-4	
Tetrahydrofuran	<118	ug/kg	3240	118	1	12/11/18 19:12	12/12/18 14:57	109-99-9	
Toluene	<19.7	ug/kg	80.9	19.7	1	12/11/18 19:12	12/12/18 14:57	108-88-3	
1,2,3-Trichlorobenzene	<12.9	ug/kg	80.9	12.9	1	12/11/18 19:12	12/12/18 14:57	87-61-6	
1,2,4-Trichlorobenzene	<18.0	ug/kg	80.9	18.0	1	12/11/18 19:12	12/12/18 14:57	120-82-1	
1,1,1-Trichloroethane	<37.7	ug/kg	80.9	37.7	1	12/11/18 19:12	12/12/18 14:57	71-55-6	
1,1,2-Trichloroethane	<9.7	ug/kg	80.9	9.7	1	12/11/18 19:12	12/12/18 14:57	79-00-5	
Trichloroethene	<12.5	ug/kg	80.9	12.5	1	12/11/18 19:12	12/12/18 14:57	79-01-6	
Trichlorofluoromethane	<141	ug/kg	324	141	1	12/11/18 19:12	12/12/18 14:57	75-69-4	
1,2,3-Trichloropropane	<21.2	ug/kg	324	21.2	1	12/11/18 19:12	12/12/18 14:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<93.8	ug/kg	324	93.8	1	12/11/18 19:12	12/12/18 14:57	76-13-1	
1,2,4-Trimethylbenzene	<16.2	ug/kg	80.9	16.2	1	12/11/18 19:12	12/12/18 14:57	95-63-6	
1,3,5-Trimethylbenzene	<12.9	ug/kg	80.9	12.9	1	12/11/18 19:12	12/12/18 14:57	108-67-8	
Vinyl chloride	<15.9	ug/kg	80.9	15.9	1	12/11/18 19:12	12/12/18 14:57	75-01-4	
Xylene (Total)	<18.8	ug/kg	243	18.8	1	12/11/18 19:12	12/12/18 14:57	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	95	%	75-125		1	12/11/18 19:12	12/12/18 14:57	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 14:57	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 14:57	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (3)**      **Lab ID: 10457121028**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 09:04	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 09:04	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 09:04	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 09:04	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 09:04	58-89-9	
Chlordane (Technical)	<3.8	ug/kg	21.0	3.8	1	12/05/18 16:14	12/12/18 09:04	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 09:04	5103-71-9	
gamma-Chlordane	<0.48	ug/kg	2.1	0.48	1	12/05/18 16:14	12/12/18 09:04	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 09:04	72-54-8	
4,4'-DDE	<0.31	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 09:04	72-55-9	
4,4'-DDT	<0.53	ug/kg	4.2	0.53	1	12/05/18 16:14	12/12/18 09:04	50-29-3	
Dieldrin	<0.41	ug/kg	4.2	0.41	1	12/05/18 16:14	12/12/18 09:04	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 09:04	959-98-8	
Endosulfan II	<0.42	ug/kg	4.2	0.42	1	12/05/18 16:14	12/12/18 09:04	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 09:04	1031-07-8	
Endrin	<0.37	ug/kg	4.2	0.37	1	12/05/18 16:14	12/12/18 09:04	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 09:04	7421-93-4	
Endrin ketone	<0.50	ug/kg	4.2	0.50	1	12/05/18 16:14	12/12/18 09:04	53494-70-5	
Heptachlor	<0.23	ug/kg	2.1	0.23	1	12/05/18 16:14	12/12/18 09:04	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 09:04	1024-57-3	
Methoxychlor	<3.2	ug/kg	21.0	3.2	1	12/05/18 16:14	12/12/18 09:04	72-43-5	
Toxaphene	<10	ug/kg	62.9	10	1	12/05/18 16:14	12/12/18 09:04	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	88	%	30-150		1	12/05/18 16:14	12/12/18 09:04	877-09-8	
Decachlorobiphenyl (S)	72	%	30-150		1	12/05/18 16:14	12/12/18 09:04	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.6	ug/kg	41.5	11.6	1	12/05/18 14:01	12/07/18 19:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.6	ug/kg	41.5	14.6	1	12/05/18 14:01	12/07/18 19:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.6	ug/kg	41.5	16.6	1	12/05/18 14:01	12/07/18 19:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.1	ug/kg	41.5	14.1	1	12/05/18 14:01	12/07/18 19:29	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.5	ug/kg	41.5	12.5	1	12/05/18 14:01	12/07/18 19:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.2	ug/kg	41.5	12.2	1	12/05/18 14:01	12/07/18 19:29	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.9	ug/kg	41.5	9.9	1	12/05/18 14:01	12/07/18 19:29	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	68	%	48-125		1	12/05/18 14:01	12/07/18 19:29	877-09-8	
Decachlorobiphenyl (S)	88	%	30-134		1	12/05/18 14:01	12/07/18 19:29	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	18.9	3.1	1	12/05/18 15:46	12/13/18 11:57	68334-30-5	
Motor Oil Range	<5.5	mg/kg	12.6	5.5	1	12/05/18 15:46	12/13/18 11:57		
<b>Surrogates</b>									
n-Triacontane (S)	90	%	50-150		1	12/05/18 15:46	12/13/18 11:57	638-68-6	
o-Terphenyl (S)	84	%	50-150		1	12/05/18 15:46	12/13/18 11:57	84-15-1	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (3)**      **Lab ID: 10457121028**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.82	mg/kg	6.3	0.82	1	12/11/18 12:55	12/12/18 02:29		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 12:55	12/12/18 02:29	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.44	mg/kg	1.2	0.44	1	12/07/18 10:11	12/10/18 13:18	7440-36-0	
Arsenic	1.2J	mg/kg	1.2	0.24	1	12/07/18 10:11	12/10/18 13:18	7440-38-2	
Beryllium	0.46	mg/kg	0.29	0.016	1	12/07/18 10:11	12/10/18 13:18	7440-41-7	
Cadmium	0.023J	mg/kg	0.18	0.023	1	12/07/18 10:11	12/10/18 13:18	7440-43-9	
Chromium	5.4	mg/kg	0.58	0.10	1	12/07/18 10:11	12/10/18 13:18	7440-47-3	
Copper	13.7	mg/kg	0.58	0.065	1	12/07/18 10:11	12/10/18 13:18	7440-50-8	
Lead	3.6	mg/kg	0.58	0.13	1	12/07/18 10:11	12/10/18 13:18	7439-92-1	
Nickel	5.2	mg/kg	1.2	0.073	1	12/07/18 10:11	12/10/18 13:18	7440-02-0	
Selenium	<0.38	mg/kg	1.2	0.38	1	12/07/18 10:11	12/10/18 13:18	7782-49-2	
Silver	<0.21	mg/kg	2.9	0.21	5	12/07/18 10:11	12/11/18 12:38	7440-22-4	D3
Thallium	<0.27	mg/kg	1.2	0.27	1	12/07/18 10:11	12/10/18 13:18	7440-28-0	
Zinc	43.8	mg/kg	1.2	0.51	1	12/07/18 10:11	12/10/18 13:18	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.010	mg/kg	0.025	0.010	1	12/07/18 10:13	12/11/18 12:27	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.7	%	0.10	0.10	1		12/12/18 12:04		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<44.3	ug/kg	415	44.3	1	12/04/18 17:03	12/07/18 18:52	83-32-9	
Acenaphthylene	<53.0	ug/kg	415	53.0	1	12/04/18 17:03	12/07/18 18:52	208-96-8	
Anthracene	<48.7	ug/kg	415	48.7	1	12/04/18 17:03	12/07/18 18:52	120-12-7	
Benzo(a)anthracene	<42.7	ug/kg	415	42.7	1	12/04/18 17:03	12/07/18 18:52	56-55-3	
Benzo(a)pyrene	<47.1	ug/kg	415	47.1	1	12/04/18 17:03	12/07/18 18:52	50-32-8	
Benzo(b)fluoranthene	<40.7	ug/kg	415	40.7	1	12/04/18 17:03	12/07/18 18:52	205-99-2	
Benzo(g,h,i)perylene	<44.4	ug/kg	415	44.4	1	12/04/18 17:03	12/07/18 18:52	191-24-2	
Benzo(k)fluoranthene	<51.9	ug/kg	415	51.9	1	12/04/18 17:03	12/07/18 18:52	207-08-9	
4-Bromophenylphenyl ether	<49.5	ug/kg	415	49.5	1	12/04/18 17:03	12/07/18 18:52	101-55-3	
Butylbenzylphthalate	<38.0	ug/kg	415	38.0	1	12/04/18 17:03	12/07/18 18:52	85-68-7	
Carbazole	<34.5	ug/kg	415	34.5	1	12/04/18 17:03	12/07/18 18:52	86-74-8	
4-Chloro-3-methylphenol	<66.5	ug/kg	415	66.5	1	12/04/18 17:03	12/07/18 18:52	59-50-7	
4-Chloroaniline	<111	ug/kg	415	111	1	12/04/18 17:03	12/07/18 18:52	106-47-8	
bis(2-Chloroethoxy)methane	<42.5	ug/kg	415	42.5	1	12/04/18 17:03	12/07/18 18:52	111-91-1	
bis(2-Chloroethyl) ether	<32.9	ug/kg	415	32.9	1	12/04/18 17:03	12/07/18 18:52	111-44-4	
bis(2-Chloroisopropyl) ether	<42.8	ug/kg	415	42.8	1	12/04/18 17:03	12/07/18 18:52	108-60-1	
2-Chloronaphthalene	<36.8	ug/kg	415	36.8	1	12/04/18 17:03	12/07/18 18:52	91-58-7	
2-Chlorophenol	<47.3	ug/kg	415	47.3	1	12/04/18 17:03	12/07/18 18:52	95-57-8	
4-Chlorophenylphenyl ether	<51.5	ug/kg	415	51.5	1	12/04/18 17:03	12/07/18 18:52	7005-72-3	
Chrysene	<43.8	ug/kg	415	43.8	1	12/04/18 17:03	12/07/18 18:52	218-01-9	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (3)**      **Lab ID: 10457121028**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.2	ug/kg	415	44.2	1	12/04/18 17:03	12/07/18 18:52	53-70-3	
Dibenzofuran	<52.6	ug/kg	415	52.6	1	12/04/18 17:03	12/07/18 18:52	132-64-9	
1,2-Dichlorobenzene	<43.6	ug/kg	415	43.6	1	12/04/18 17:03	12/07/18 18:52	95-50-1	
1,3-Dichlorobenzene	<28.4	ug/kg	415	28.4	1	12/04/18 17:03	12/07/18 18:52	541-73-1	
1,4-Dichlorobenzene	<46.2	ug/kg	415	46.2	1	12/04/18 17:03	12/07/18 18:52	106-46-7	
3,3'-Dichlorobenzidine	<140	ug/kg	415	140	1	12/04/18 17:03	12/07/18 18:52	91-94-1	
2,4-Dichlorophenol	<69.4	ug/kg	415	69.4	1	12/04/18 17:03	12/07/18 18:52	120-83-2	
Diethylphthalate	<37.0	ug/kg	415	37.0	1	12/04/18 17:03	12/07/18 18:52	84-66-2	
2,4-Dimethylphenol	<162	ug/kg	415	162	1	12/04/18 17:03	12/07/18 18:52	105-67-9	
Dimethylphthalate	<56.4	ug/kg	415	56.4	1	12/04/18 17:03	12/07/18 18:52	131-11-3	
Di-n-butylphthalate	<56.9	ug/kg	415	56.9	1	12/04/18 17:03	12/07/18 18:52	84-74-2	
4,6-Dinitro-2-methylphenol	<412	ug/kg	2140	412	1	12/04/18 17:03	12/07/18 18:52	534-52-1	
2,4-Dinitrophenol	<194	ug/kg	415	194	1	12/04/18 17:03	12/07/18 18:52	51-28-5	
2,4-Dinitrotoluene	<52.9	ug/kg	415	52.9	1	12/04/18 17:03	12/07/18 18:52	121-14-2	
2,6-Dinitrotoluene	<55.0	ug/kg	415	55.0	1	12/04/18 17:03	12/07/18 18:52	606-20-2	
Di-n-octylphthalate	<48.2	ug/kg	415	48.2	1	12/04/18 17:03	12/07/18 18:52	117-84-0	
1,2-Diphenylhydrazine	<51.0	ug/kg	415	51.0	1	12/04/18 17:03	12/07/18 18:52	122-66-7	
bis(2-Ethylhexyl)phthalate	<86.6	ug/kg	415	86.6	1	12/04/18 17:03	12/07/18 18:52	117-81-7	
Fluoranthene	<47.7	ug/kg	415	47.7	1	12/04/18 17:03	12/07/18 18:52	206-44-0	
Fluorene	<190	ug/kg	415	190	1	12/04/18 17:03	12/07/18 18:52	86-73-7	
Hexachloro-1,3-butadiene	<63.2	ug/kg	415	63.2	1	12/04/18 17:03	12/07/18 18:52	87-68-3	
Hexachlorobenzene	<67.7	ug/kg	415	67.7	1	12/04/18 17:03	12/07/18 18:52	118-74-1	
Hexachloroethane	<54.0	ug/kg	415	54.0	1	12/04/18 17:03	12/07/18 18:52	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.1	ug/kg	415	25.1	1	12/04/18 17:03	12/07/18 18:52	193-39-5	
Isophorone	<32.0	ug/kg	415	32.0	1	12/04/18 17:03	12/07/18 18:52	78-59-1	
1-Methylnaphthalene	<38.4	ug/kg	415	38.4	1	12/04/18 17:03	12/07/18 18:52	90-12-0	
2-Methylnaphthalene	<37.5	ug/kg	415	37.5	1	12/04/18 17:03	12/07/18 18:52	91-57-6	
2-Methylphenol(o-Cresol)	<25.9	ug/kg	415	25.9	1	12/04/18 17:03	12/07/18 18:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.4	ug/kg	831	23.4	1	12/04/18 17:03	12/07/18 18:52		
Naphthalene	<32.0	ug/kg	415	32.0	1	12/04/18 17:03	12/07/18 18:52	91-20-3	
2-Nitroaniline	<104	ug/kg	415	104	1	12/04/18 17:03	12/07/18 18:52	88-74-4	
3-Nitroaniline	<45.3	ug/kg	415	45.3	1	12/04/18 17:03	12/07/18 18:52	99-09-2	
4-Nitroaniline	<60.7	ug/kg	415	60.7	1	12/04/18 17:03	12/07/18 18:52	100-01-6	
Nitrobenzene	<45.7	ug/kg	415	45.7	1	12/04/18 17:03	12/07/18 18:52	98-95-3	
2-Nitrophenol	<50.6	ug/kg	415	50.6	1	12/04/18 17:03	12/07/18 18:52	88-75-5	
4-Nitrophenol	<80.6	ug/kg	415	80.6	1	12/04/18 17:03	12/07/18 18:52	100-02-7	
N-Nitrosodimethylamine	<51.0	ug/kg	415	51.0	1	12/04/18 17:03	12/07/18 18:52	62-75-9	
N-Nitroso-di-n-propylamine	<190	ug/kg	415	190	1	12/04/18 17:03	12/07/18 18:52	621-64-7	
N-Nitrosodiphenylamine	<26.9	ug/kg	415	26.9	1	12/04/18 17:03	12/07/18 18:52	86-30-6	
Pentachlorophenol	<243	ug/kg	843	243	1	12/04/18 17:03	12/07/18 18:52	87-86-5	
Phenanthrene	<48.3	ug/kg	415	48.3	1	12/04/18 17:03	12/07/18 18:52	85-01-8	
Phenol	<27.2	ug/kg	415	27.2	1	12/04/18 17:03	12/07/18 18:52	108-95-2	
Pyrene	<31.6	ug/kg	415	31.6	1	12/04/18 17:03	12/07/18 18:52	129-00-0	
1,2,4-Trichlorobenzene	<45.6	ug/kg	415	45.6	1	12/04/18 17:03	12/07/18 18:52	120-82-1	
2,4,5-Trichlorophenol	<53.5	ug/kg	415	53.5	1	12/04/18 17:03	12/07/18 18:52	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (3)**      **Lab ID: 10457121028**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.3	ug/kg	415	64.3	1	12/04/18 17:03	12/07/18 18:52	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	62	%	43-125		1	12/04/18 17:03	12/07/18 18:52	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-132		1	12/04/18 17:03	12/07/18 18:52	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/04/18 17:03	12/07/18 18:52	1718-51-0	
Phenol-d6 (S)	70	%	48-125		1	12/04/18 17:03	12/07/18 18:52	13127-88-3	
2-Fluorophenol (S)	69	%	40-125		1	12/04/18 17:03	12/07/18 18:52	367-12-4	
2,4,6-Tribromophenol (S)	74	%	60-125		1	12/04/18 17:03	12/07/18 18:52	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 18:21	106-93-4	
Methylene Chloride	<4.4	ug/kg	23.9	4.4	1	03/05/19 10:30	03/05/19 18:21	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/05/19 10:30	03/05/19 18:21	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 18:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 18:21	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	494J	ug/kg	1250	388	1	12/11/18 19:12	12/12/18 15:15	67-64-1	B
Allyl chloride	<52.3	ug/kg	250	52.3	1	12/11/18 19:12	12/12/18 15:15	107-05-1	
Benzene	<3.5	ug/kg	25.0	3.5	1	12/11/18 19:12	12/12/18 15:15	71-43-2	
Bromobenzene	<3.8	ug/kg	62.4	3.8	1	12/11/18 19:12	12/12/18 15:15	108-86-1	
Bromochloromethane	<21.6	ug/kg	62.4	21.6	1	12/11/18 19:12	12/12/18 15:15	74-97-5	
Bromodichloromethane	<21.3	ug/kg	62.4	21.3	1	12/11/18 19:12	12/12/18 15:15	75-27-4	
Bromoform	<94.5	ug/kg	250	94.5	1	12/11/18 19:12	12/12/18 15:15	75-25-2	
Bromomethane	<73.0	ug/kg	624	73.0	1	12/11/18 19:12	12/12/18 15:15	74-83-9	
2-Butanone (MEK)	<33.2	ug/kg	312	33.2	1	12/11/18 19:12	12/12/18 15:15	78-93-3	
n-Butylbenzene	<29.7	ug/kg	62.4	29.7	1	12/11/18 19:12	12/12/18 15:15	104-51-8	
sec-Butylbenzene	<12.0	ug/kg	62.4	12.0	1	12/11/18 19:12	12/12/18 15:15	135-98-8	
tert-Butylbenzene	<12.0	ug/kg	62.4	12.0	1	12/11/18 19:12	12/12/18 15:15	98-06-6	
Carbon tetrachloride	<29.8	ug/kg	62.4	29.8	1	12/11/18 19:12	12/12/18 15:15	56-23-5	
Chlorobenzene	<3.5	ug/kg	62.4	3.5	1	12/11/18 19:12	12/12/18 15:15	108-90-7	
Chloroethane	<32.5	ug/kg	624	32.5	1	12/11/18 19:12	12/12/18 15:15	75-00-3	L2
Chloroform	<31.2	ug/kg	62.4	31.2	1	12/11/18 19:12	12/12/18 15:15	67-66-3	
Chloromethane	<15.0	ug/kg	250	15.0	1	12/11/18 19:12	12/12/18 15:15	74-87-3	
2-Chlorotoluene	<3.1	ug/kg	62.4	3.1	1	12/11/18 19:12	12/12/18 15:15	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	62.4	3.2	1	12/11/18 19:12	12/12/18 15:15	106-43-4	
1,2-Dibromo-3-chloropropane	<217	ug/kg	624	217	1	12/11/18 19:12	12/12/18 15:15	96-12-8	
Dibromochloromethane	<7.2	ug/kg	250	7.2	1	12/11/18 19:12	12/12/18 15:15	124-48-1	
1,2-Dibromoethane (EDB)	<6.6	ug/kg	62.4	6.6	1	12/11/18 19:12	12/12/18 15:15	106-93-4	
Dibromomethane	<11.4	ug/kg	62.4	11.4	1	12/11/18 19:12	12/12/18 15:15	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/kg	62.4	2.5	1	12/11/18 19:12	12/12/18 15:15	95-50-1	
1,3-Dichlorobenzene	<2.3	ug/kg	62.4	2.3	1	12/11/18 19:12	12/12/18 15:15	541-73-1	
1,4-Dichlorobenzene	<3.9	ug/kg	62.4	3.9	1	12/11/18 19:12	12/12/18 15:15	106-46-7	
Dichlorodifluoromethane	<20.2	ug/kg	250	20.2	1	12/11/18 19:12	12/12/18 15:15	75-71-8	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (3)**      **Lab ID: 10457121028**      Collected: 11/28/18 11:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<7.0	ug/kg	62.4	7.0	1	12/11/18 19:12	12/12/18 15:15	75-34-3	
1,2-Dichloroethane	<6.9	ug/kg	62.4	6.9	1	12/11/18 19:12	12/12/18 15:15	107-06-2	
1,1-Dichloroethene	<18.7	ug/kg	250	18.7	1	12/11/18 19:12	12/12/18 15:15	75-35-4	
cis-1,2-Dichloroethene	<10.3	ug/kg	62.4	10.3	1	12/11/18 19:12	12/12/18 15:15	156-59-2	
trans-1,2-Dichloroethene	<29.2	ug/kg	62.4	29.2	1	12/11/18 19:12	12/12/18 15:15	156-60-5	
Dichlorofluoromethane	<86.3	ug/kg	624	86.3	1	12/11/18 19:12	12/12/18 15:15	75-43-4	N2
1,2-Dichloropropane	<10.8	ug/kg	62.4	10.8	1	12/11/18 19:12	12/12/18 15:15	78-87-5	
1,3-Dichloropropane	<8.6	ug/kg	62.4	8.6	1	12/11/18 19:12	12/12/18 15:15	142-28-9	
2,2-Dichloropropane	<7.8	ug/kg	250	7.8	1	12/11/18 19:12	12/12/18 15:15	594-20-7	
1,1-Dichloropropene	<28.8	ug/kg	62.4	28.8	1	12/11/18 19:12	12/12/18 15:15	563-58-6	
cis-1,3-Dichloropropene	<8.9	ug/kg	62.4	8.9	1	12/11/18 19:12	12/12/18 15:15	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/kg	62.4	8.7	1	12/11/18 19:12	12/12/18 15:15	10061-02-6	
Diethyl ether (Ethyl ether)	<38.2	ug/kg	250	38.2	1	12/11/18 19:12	12/12/18 15:15	60-29-7	
Ethylbenzene	4.2J	ug/kg	62.4	3.4	1	12/11/18 19:12	12/12/18 15:15	100-41-4	
Hexachloro-1,3-butadiene	<15.2	ug/kg	312	15.2	1	12/11/18 19:12	12/12/18 15:15	87-68-3	
Isopropylbenzene (Cumene)	<2.8	ug/kg	62.4	2.8	1	12/11/18 19:12	12/12/18 15:15	98-82-8	
p-Isopropyltoluene	<19.0	ug/kg	62.4	19.0	1	12/11/18 19:12	12/12/18 15:15	99-87-6	
Methylene Chloride	<117	ug/kg	250	117	1	12/11/18 19:12	12/12/18 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.0	ug/kg	312	13.0	1	12/11/18 19:12	12/12/18 15:15	108-10-1	
Methyl-tert-butyl ether	<7.4	ug/kg	62.4	7.4	1	12/11/18 19:12	12/12/18 15:15	1634-04-4	
Naphthalene	<58.4	ug/kg	250	58.4	1	12/11/18 19:12	12/12/18 15:15	91-20-3	
n-Propylbenzene	<3.3	ug/kg	62.4	3.3	1	12/11/18 19:12	12/12/18 15:15	103-65-1	
Styrene	<2.8	ug/kg	62.4	2.8	1	12/11/18 19:12	12/12/18 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	<19.6	ug/kg	62.4	19.6	1	12/11/18 19:12	12/12/18 15:15	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.0	ug/kg	250	11.0	1	12/11/18 19:12	12/12/18 15:15	79-34-5	
Tetrachloroethene	<22.0	ug/kg	62.4	22.0	1	12/11/18 19:12	12/12/18 15:15	127-18-4	
Tetrahydrofuran	<90.8	ug/kg	2500	90.8	1	12/11/18 19:12	12/12/18 15:15	109-99-9	
Toluene	<15.2	ug/kg	62.4	15.2	1	12/11/18 19:12	12/12/18 15:15	108-88-3	
1,2,3-Trichlorobenzene	<10	ug/kg	62.4	10	1	12/11/18 19:12	12/12/18 15:15	87-61-6	
1,2,4-Trichlorobenzene	<13.9	ug/kg	62.4	13.9	1	12/11/18 19:12	12/12/18 15:15	120-82-1	
1,1,1-Trichloroethane	<29.1	ug/kg	62.4	29.1	1	12/11/18 19:12	12/12/18 15:15	71-55-6	
1,1,2-Trichloroethane	<7.5	ug/kg	62.4	7.5	1	12/11/18 19:12	12/12/18 15:15	79-00-5	
Trichloroethene	<9.6	ug/kg	62.4	9.6	1	12/11/18 19:12	12/12/18 15:15	79-01-6	
Trichlorofluoromethane	<109	ug/kg	250	109	1	12/11/18 19:12	12/12/18 15:15	75-69-4	
1,2,3-Trichloropropane	<16.4	ug/kg	250	16.4	1	12/11/18 19:12	12/12/18 15:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<72.4	ug/kg	250	72.4	1	12/11/18 19:12	12/12/18 15:15	76-13-1	
1,2,4-Trimethylbenzene	<12.5	ug/kg	62.4	12.5	1	12/11/18 19:12	12/12/18 15:15	95-63-6	
1,3,5-Trimethylbenzene	<10	ug/kg	62.4	10	1	12/11/18 19:12	12/12/18 15:15	108-67-8	
Vinyl chloride	<12.3	ug/kg	62.4	12.3	1	12/11/18 19:12	12/12/18 15:15	75-01-4	
Xylene (Total)	<14.5	ug/kg	187	14.5	1	12/11/18 19:12	12/12/18 15:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/11/18 19:12	12/12/18 15:15	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 15:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 15:15	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (8)**      **Lab ID: 10457121029**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 09:23	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 09:23	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 09:23	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 09:23	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 09:23	58-89-9	
Chlordane (Technical)	<3.8	ug/kg	21.0	3.8	1	12/05/18 16:14	12/12/18 09:23	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 09:23	5103-71-9	
gamma-Chlordane	<0.48	ug/kg	2.1	0.48	1	12/05/18 16:14	12/12/18 09:23	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 09:23	72-54-8	
4,4'-DDE	<0.31	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 09:23	72-55-9	
4,4'-DDT	<0.53	ug/kg	4.2	0.53	1	12/05/18 16:14	12/12/18 09:23	50-29-3	
Dieldrin	<0.40	ug/kg	4.2	0.40	1	12/05/18 16:14	12/12/18 09:23	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 09:23	959-98-8	
Endosulfan II	<0.42	ug/kg	4.2	0.42	1	12/05/18 16:14	12/12/18 09:23	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 09:23	1031-07-8	
Endrin	<0.37	ug/kg	4.2	0.37	1	12/05/18 16:14	12/12/18 09:23	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 09:23	7421-93-4	
Endrin ketone	<0.49	ug/kg	4.2	0.49	1	12/05/18 16:14	12/12/18 09:23	53494-70-5	
Heptachlor	<0.23	ug/kg	2.1	0.23	1	12/05/18 16:14	12/12/18 09:23	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 09:23	1024-57-3	
Methoxychlor	<3.1	ug/kg	21.0	3.1	1	12/05/18 16:14	12/12/18 09:23	72-43-5	
Toxaphene	<9.9	ug/kg	62.7	9.9	1	12/05/18 16:14	12/12/18 09:23	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	86	%	30-150		1	12/05/18 16:14	12/12/18 09:23	877-09-8	
Decachlorobiphenyl (S)	73	%	30-150		1	12/05/18 16:14	12/12/18 09:23	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.5	ug/kg	41.2	11.5	1	12/05/18 14:01	12/07/18 19:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.5	ug/kg	41.2	14.5	1	12/05/18 14:01	12/07/18 19:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.5	ug/kg	41.2	16.5	1	12/05/18 14:01	12/07/18 19:45	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.0	ug/kg	41.2	14.0	1	12/05/18 14:01	12/07/18 19:45	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.3	ug/kg	41.2	12.3	1	12/05/18 14:01	12/07/18 19:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.1	ug/kg	41.2	12.1	1	12/05/18 14:01	12/07/18 19:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.8	ug/kg	41.2	9.8	1	12/05/18 14:01	12/07/18 19:45	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	48-125		1	12/05/18 14:01	12/07/18 19:45	877-09-8	
Decachlorobiphenyl (S)	89	%	30-134		1	12/05/18 14:01	12/07/18 19:45	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.7	3.0	1	12/05/18 15:46	12/13/18 12:08	68334-30-5	
Motor Oil Range	<5.4	mg/kg	12.4	5.4	1	12/05/18 15:46	12/13/18 12:08		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/05/18 15:46	12/13/18 12:08	638-68-6	
o-Terphenyl (S)	92	%	50-150		1	12/05/18 15:46	12/13/18 12:08	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (8)**      **Lab ID: 10457121029**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.82	mg/kg	6.2	0.82	1	12/11/18 12:55	12/12/18 02:46		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91	%	50-150		1	12/11/18 12:55	12/12/18 02:46	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.44	mg/kg	1.2	0.44	1	12/07/18 10:11	12/10/18 13:27	7440-36-0	
Arsenic	1.6	mg/kg	1.2	0.24	1	12/07/18 10:11	12/10/18 13:27	7440-38-2	
Beryllium	0.51	mg/kg	0.29	0.016	1	12/07/18 10:11	12/10/18 13:27	7440-41-7	
Cadmium	0.078J	mg/kg	0.18	0.023	1	12/07/18 10:11	12/10/18 13:27	7440-43-9	
Chromium	6.5	mg/kg	0.59	0.10	1	12/07/18 10:11	12/10/18 13:27	7440-47-3	
Copper	13.6	mg/kg	0.59	0.065	1	12/07/18 10:11	12/10/18 13:27	7440-50-8	
Lead	3.6	mg/kg	0.59	0.13	1	12/07/18 10:11	12/10/18 13:27	7439-92-1	
Nickel	5.8	mg/kg	1.2	0.074	1	12/07/18 10:11	12/10/18 13:27	7440-02-0	
Selenium	<0.38	mg/kg	1.2	0.38	1	12/07/18 10:11	12/10/18 13:27	7782-49-2	
Silver	<0.043	mg/kg	0.59	0.043	1	12/07/18 10:11	12/10/18 13:27	7440-22-4	
Thallium	<0.27	mg/kg	1.2	0.27	1	12/07/18 10:11	12/10/18 13:27	7440-28-0	
Zinc	45.7	mg/kg	1.2	0.51	1	12/07/18 10:11	12/10/18 13:27	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0095	mg/kg	0.024	0.0095	1	12/07/18 10:13	12/11/18 12:29	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	20.3	%	0.10	0.10	1		12/12/18 12:04		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<43.7	ug/kg	410	43.7	1	12/04/18 17:03	12/07/18 19:21	83-32-9	
Acenaphthylene	<52.3	ug/kg	410	52.3	1	12/04/18 17:03	12/07/18 19:21	208-96-8	
Anthracene	<48.1	ug/kg	410	48.1	1	12/04/18 17:03	12/07/18 19:21	120-12-7	
Benzo(a)anthracene	<42.1	ug/kg	410	42.1	1	12/04/18 17:03	12/07/18 19:21	56-55-3	
Benzo(a)pyrene	<46.5	ug/kg	410	46.5	1	12/04/18 17:03	12/07/18 19:21	50-32-8	
Benzo(b)fluoranthene	<40.1	ug/kg	410	40.1	1	12/04/18 17:03	12/07/18 19:21	205-99-2	
Benzo(g,h,i)perylene	<43.9	ug/kg	410	43.9	1	12/04/18 17:03	12/07/18 19:21	191-24-2	
Benzo(k)fluoranthene	<51.2	ug/kg	410	51.2	1	12/04/18 17:03	12/07/18 19:21	207-08-9	
4-Bromophenylphenyl ether	<48.8	ug/kg	410	48.8	1	12/04/18 17:03	12/07/18 19:21	101-55-3	
Butylbenzylphthalate	<37.5	ug/kg	410	37.5	1	12/04/18 17:03	12/07/18 19:21	85-68-7	
Carbazole	<34.0	ug/kg	410	34.0	1	12/04/18 17:03	12/07/18 19:21	86-74-8	
4-Chloro-3-methylphenol	<65.6	ug/kg	410	65.6	1	12/04/18 17:03	12/07/18 19:21	59-50-7	
4-Chloroaniline	<109	ug/kg	410	109	1	12/04/18 17:03	12/07/18 19:21	106-47-8	
bis(2-Chloroethoxy)methane	<42.0	ug/kg	410	42.0	1	12/04/18 17:03	12/07/18 19:21	111-91-1	
bis(2-Chloroethyl) ether	<32.4	ug/kg	410	32.4	1	12/04/18 17:03	12/07/18 19:21	111-44-4	
bis(2-Chloroisopropyl) ether	<42.2	ug/kg	410	42.2	1	12/04/18 17:03	12/07/18 19:21	108-60-1	
2-Chloronaphthalene	<36.3	ug/kg	410	36.3	1	12/04/18 17:03	12/07/18 19:21	91-58-7	
2-Chlorophenol	<46.7	ug/kg	410	46.7	1	12/04/18 17:03	12/07/18 19:21	95-57-8	
4-Chlorophenylphenyl ether	<50.8	ug/kg	410	50.8	1	12/04/18 17:03	12/07/18 19:21	7005-72-3	
Chrysene	<43.2	ug/kg	410	43.2	1	12/04/18 17:03	12/07/18 19:21	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (8)**      **Lab ID: 10457121029**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<43.6	ug/kg	410	43.6	1	12/04/18 17:03	12/07/18 19:21	53-70-3	
Dibenzofuran	<51.9	ug/kg	410	51.9	1	12/04/18 17:03	12/07/18 19:21	132-64-9	
1,2-Dichlorobenzene	<43.0	ug/kg	410	43.0	1	12/04/18 17:03	12/07/18 19:21	95-50-1	
1,3-Dichlorobenzene	<28.1	ug/kg	410	28.1	1	12/04/18 17:03	12/07/18 19:21	541-73-1	
1,4-Dichlorobenzene	<45.6	ug/kg	410	45.6	1	12/04/18 17:03	12/07/18 19:21	106-46-7	
3,3'-Dichlorobenzidine	<138	ug/kg	410	138	1	12/04/18 17:03	12/07/18 19:21	91-94-1	
2,4-Dichlorophenol	<68.5	ug/kg	410	68.5	1	12/04/18 17:03	12/07/18 19:21	120-83-2	
Diethylphthalate	<36.5	ug/kg	410	36.5	1	12/04/18 17:03	12/07/18 19:21	84-66-2	
2,4-Dimethylphenol	<160	ug/kg	410	160	1	12/04/18 17:03	12/07/18 19:21	105-67-9	
Dimethylphthalate	<55.7	ug/kg	410	55.7	1	12/04/18 17:03	12/07/18 19:21	131-11-3	
Di-n-butylphthalate	<56.2	ug/kg	410	56.2	1	12/04/18 17:03	12/07/18 19:21	84-74-2	
4,6-Dinitro-2-methylphenol	<406	ug/kg	2110	406	1	12/04/18 17:03	12/07/18 19:21	534-52-1	
2,4-Dinitrophenol	<191	ug/kg	410	191	1	12/04/18 17:03	12/07/18 19:21	51-28-5	
2,4-Dinitrotoluene	<52.2	ug/kg	410	52.2	1	12/04/18 17:03	12/07/18 19:21	121-14-2	
2,6-Dinitrotoluene	<54.3	ug/kg	410	54.3	1	12/04/18 17:03	12/07/18 19:21	606-20-2	
Di-n-octylphthalate	<47.6	ug/kg	410	47.6	1	12/04/18 17:03	12/07/18 19:21	117-84-0	
1,2-Diphenylhydrazine	<50.3	ug/kg	410	50.3	1	12/04/18 17:03	12/07/18 19:21	122-66-7	
bis(2-Ethylhexyl)phthalate	<85.5	ug/kg	410	85.5	1	12/04/18 17:03	12/07/18 19:21	117-81-7	
Fluoranthene	<47.1	ug/kg	410	47.1	1	12/04/18 17:03	12/07/18 19:21	206-44-0	
Fluorene	<188	ug/kg	410	188	1	12/04/18 17:03	12/07/18 19:21	86-73-7	
Hexachloro-1,3-butadiene	<62.4	ug/kg	410	62.4	1	12/04/18 17:03	12/07/18 19:21	87-68-3	
Hexachlorobenzene	<66.8	ug/kg	410	66.8	1	12/04/18 17:03	12/07/18 19:21	118-74-1	
Hexachloroethane	<53.3	ug/kg	410	53.3	1	12/04/18 17:03	12/07/18 19:21	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.7	ug/kg	410	24.7	1	12/04/18 17:03	12/07/18 19:21	193-39-5	
Isophorone	<31.6	ug/kg	410	31.6	1	12/04/18 17:03	12/07/18 19:21	78-59-1	
1-Methylnaphthalene	<37.9	ug/kg	410	37.9	1	12/04/18 17:03	12/07/18 19:21	90-12-0	
2-Methylnaphthalene	<37.0	ug/kg	410	37.0	1	12/04/18 17:03	12/07/18 19:21	91-57-6	
2-Methylphenol(o-Cresol)	<25.6	ug/kg	410	25.6	1	12/04/18 17:03	12/07/18 19:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.1	ug/kg	820	23.1	1	12/04/18 17:03	12/07/18 19:21		
Naphthalene	<31.6	ug/kg	410	31.6	1	12/04/18 17:03	12/07/18 19:21	91-20-3	
2-Nitroaniline	<103	ug/kg	410	103	1	12/04/18 17:03	12/07/18 19:21	88-74-4	
3-Nitroaniline	<44.7	ug/kg	410	44.7	1	12/04/18 17:03	12/07/18 19:21	99-09-2	
4-Nitroaniline	<59.9	ug/kg	410	59.9	1	12/04/18 17:03	12/07/18 19:21	100-01-6	
Nitrobenzene	<45.1	ug/kg	410	45.1	1	12/04/18 17:03	12/07/18 19:21	98-95-3	
2-Nitrophenol	<49.9	ug/kg	410	49.9	1	12/04/18 17:03	12/07/18 19:21	88-75-5	
4-Nitrophenol	<79.5	ug/kg	410	79.5	1	12/04/18 17:03	12/07/18 19:21	100-02-7	
N-Nitrosodimethylamine	<50.3	ug/kg	410	50.3	1	12/04/18 17:03	12/07/18 19:21	62-75-9	
N-Nitroso-di-n-propylamine	<188	ug/kg	410	188	1	12/04/18 17:03	12/07/18 19:21	621-64-7	
N-Nitrosodiphenylamine	<26.6	ug/kg	410	26.6	1	12/04/18 17:03	12/07/18 19:21	86-30-6	
Pentachlorophenol	<240	ug/kg	832	240	1	12/04/18 17:03	12/07/18 19:21	87-86-5	
Phenanthrene	<47.7	ug/kg	410	47.7	1	12/04/18 17:03	12/07/18 19:21	85-01-8	
Phenol	<26.8	ug/kg	410	26.8	1	12/04/18 17:03	12/07/18 19:21	108-95-2	
Pyrene	<31.2	ug/kg	410	31.2	1	12/04/18 17:03	12/07/18 19:21	129-00-0	
1,2,4-Trichlorobenzene	<45.0	ug/kg	410	45.0	1	12/04/18 17:03	12/07/18 19:21	120-82-1	
2,4,5-Trichlorophenol	<52.8	ug/kg	410	52.8	1	12/04/18 17:03	12/07/18 19:21	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (8)**      **Lab ID: 10457121029**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<63.5	ug/kg	410	63.5	1	12/04/18 17:03	12/07/18 19:21	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	60	%	43-125		1	12/04/18 17:03	12/07/18 19:21	4165-60-0	
2-Fluorobiphenyl (S)	60	%	30-132		1	12/04/18 17:03	12/07/18 19:21	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 19:21	1718-51-0	
Phenol-d6 (S)	66	%	48-125		1	12/04/18 17:03	12/07/18 19:21	13127-88-3	
2-Fluorophenol (S)	66	%	40-125		1	12/04/18 17:03	12/07/18 19:21	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/04/18 17:03	12/07/18 19:21	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.6	0.26	1	03/05/19 10:30	03/05/19 18:41	106-93-4	
Methylene Chloride	<4.2	ug/kg	23.2	4.2	1	03/05/19 10:30	03/05/19 18:41	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	03/05/19 10:30	03/05/19 18:41	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 18:41	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 18:41	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Acetone	<b>974J</b>	ug/kg	1310	407	1	12/11/18 19:12	12/12/18 15:38	67-64-1	B
Allyl chloride	<54.8	ug/kg	261	54.8	1	12/11/18 19:12	12/12/18 15:38	107-05-1	
Benzene	<3.7	ug/kg	26.1	3.7	1	12/11/18 19:12	12/12/18 15:38	71-43-2	
Bromobenzene	<4.0	ug/kg	65.4	4.0	1	12/11/18 19:12	12/12/18 15:38	108-86-1	
Bromochloromethane	<22.6	ug/kg	65.4	22.6	1	12/11/18 19:12	12/12/18 15:38	74-97-5	
Bromodichloromethane	<22.4	ug/kg	65.4	22.4	1	12/11/18 19:12	12/12/18 15:38	75-27-4	
Bromoform	<99.0	ug/kg	261	99.0	1	12/11/18 19:12	12/12/18 15:38	75-25-2	
Bromomethane	<76.5	ug/kg	65.4	76.5	1	12/11/18 19:12	12/12/18 15:38	74-83-9	
2-Butanone (MEK)	<34.8	ug/kg	327	34.8	1	12/11/18 19:12	12/12/18 15:38	78-93-3	
n-Butylbenzene	<31.1	ug/kg	65.4	31.1	1	12/11/18 19:12	12/12/18 15:38	104-51-8	
sec-Butylbenzene	<12.5	ug/kg	65.4	12.5	1	12/11/18 19:12	12/12/18 15:38	135-98-8	
tert-Butylbenzene	<12.5	ug/kg	65.4	12.5	1	12/11/18 19:12	12/12/18 15:38	98-06-6	
Carbon tetrachloride	<31.2	ug/kg	65.4	31.2	1	12/11/18 19:12	12/12/18 15:38	56-23-5	
Chlorobenzene	<3.7	ug/kg	65.4	3.7	1	12/11/18 19:12	12/12/18 15:38	108-90-7	
Chloroethane	<34.0	ug/kg	65.4	34.0	1	12/11/18 19:12	12/12/18 15:38	75-00-3	L2
Chloroform	<32.7	ug/kg	65.4	32.7	1	12/11/18 19:12	12/12/18 15:38	67-66-3	
Chloromethane	<15.7	ug/kg	261	15.7	1	12/11/18 19:12	12/12/18 15:38	74-87-3	
2-Chlorotoluene	<3.2	ug/kg	65.4	3.2	1	12/11/18 19:12	12/12/18 15:38	95-49-8	
4-Chlorotoluene	<3.3	ug/kg	65.4	3.3	1	12/11/18 19:12	12/12/18 15:38	106-43-4	
1,2-Dibromo-3-chloropropane	<227	ug/kg	65.4	227	1	12/11/18 19:12	12/12/18 15:38	96-12-8	
Dibromochloromethane	<7.6	ug/kg	261	7.6	1	12/11/18 19:12	12/12/18 15:38	124-48-1	
1,2-Dibromoethane (EDB)	<6.9	ug/kg	65.4	6.9	1	12/11/18 19:12	12/12/18 15:38	106-93-4	
Dibromomethane	<12.0	ug/kg	65.4	12.0	1	12/11/18 19:12	12/12/18 15:38	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	65.4	2.6	1	12/11/18 19:12	12/12/18 15:38	95-50-1	
1,3-Dichlorobenzene	<2.4	ug/kg	65.4	2.4	1	12/11/18 19:12	12/12/18 15:38	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/kg	65.4	4.1	1	12/11/18 19:12	12/12/18 15:38	106-46-7	
Dichlorodifluoromethane	<21.2	ug/kg	261	21.2	1	12/11/18 19:12	12/12/18 15:38	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-15 (8)**      **Lab ID: 10457121029**      Collected: 11/28/18 11:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<7.3	ug/kg	65.4	7.3	1	12/11/18 19:12	12/12/18 15:38	75-34-3	
1,2-Dichloroethane	<7.2	ug/kg	65.4	7.2	1	12/11/18 19:12	12/12/18 15:38	107-06-2	
1,1-Dichloroethene	<19.6	ug/kg	261	19.6	1	12/11/18 19:12	12/12/18 15:38	75-35-4	
cis-1,2-Dichloroethene	<10.8	ug/kg	65.4	10.8	1	12/11/18 19:12	12/12/18 15:38	156-59-2	
trans-1,2-Dichloroethene	<30.6	ug/kg	65.4	30.6	1	12/11/18 19:12	12/12/18 15:38	156-60-5	
Dichlorofluoromethane	<90.3	ug/kg	654	90.3	1	12/11/18 19:12	12/12/18 15:38	75-43-4	N2
1,2-Dichloropropane	<11.3	ug/kg	65.4	11.3	1	12/11/18 19:12	12/12/18 15:38	78-87-5	
1,3-Dichloropropane	<9.0	ug/kg	65.4	9.0	1	12/11/18 19:12	12/12/18 15:38	142-28-9	
2,2-Dichloropropane	<8.2	ug/kg	261	8.2	1	12/11/18 19:12	12/12/18 15:38	594-20-7	
1,1-Dichloropropene	<30.2	ug/kg	65.4	30.2	1	12/11/18 19:12	12/12/18 15:38	563-58-6	
cis-1,3-Dichloropropene	<9.4	ug/kg	65.4	9.4	1	12/11/18 19:12	12/12/18 15:38	10061-01-5	
trans-1,3-Dichloropropene	<9.1	ug/kg	65.4	9.1	1	12/11/18 19:12	12/12/18 15:38	10061-02-6	
Diethyl ether (Ethyl ether)	<40.0	ug/kg	261	40.0	1	12/11/18 19:12	12/12/18 15:38	60-29-7	
Ethylbenzene	<3.6	ug/kg	65.4	3.6	1	12/11/18 19:12	12/12/18 15:38	100-41-4	
Hexachloro-1,3-butadiene	<15.9	ug/kg	327	15.9	1	12/11/18 19:12	12/12/18 15:38	87-68-3	
Isopropylbenzene (Cumene)	<2.9	ug/kg	65.4	2.9	1	12/11/18 19:12	12/12/18 15:38	98-82-8	
p-Isopropyltoluene	<19.9	ug/kg	65.4	19.9	1	12/11/18 19:12	12/12/18 15:38	99-87-6	
Methylene Chloride	<123	ug/kg	261	123	1	12/11/18 19:12	12/12/18 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.6	ug/kg	327	13.6	1	12/11/18 19:12	12/12/18 15:38	108-10-1	
Methyl-tert-butyl ether	<7.8	ug/kg	65.4	7.8	1	12/11/18 19:12	12/12/18 15:38	1634-04-4	
Naphthalene	<61.2	ug/kg	261	61.2	1	12/11/18 19:12	12/12/18 15:38	91-20-3	
n-Propylbenzene	<3.5	ug/kg	65.4	3.5	1	12/11/18 19:12	12/12/18 15:38	103-65-1	
Styrene	<3.0	ug/kg	65.4	3.0	1	12/11/18 19:12	12/12/18 15:38	100-42-5	
1,1,1,2-Tetrachloroethane	<20.5	ug/kg	65.4	20.5	1	12/11/18 19:12	12/12/18 15:38	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.5	ug/kg	261	11.5	1	12/11/18 19:12	12/12/18 15:38	79-34-5	
Tetrachloroethene	<23.0	ug/kg	65.4	23.0	1	12/11/18 19:12	12/12/18 15:38	127-18-4	
Tetrahydrofuran	<95.0	ug/kg	2610	95.0	1	12/11/18 19:12	12/12/18 15:38	109-99-9	
Toluene	<15.9	ug/kg	65.4	15.9	1	12/11/18 19:12	12/12/18 15:38	108-88-3	
1,2,3-Trichlorobenzene	<10.4	ug/kg	65.4	10.4	1	12/11/18 19:12	12/12/18 15:38	87-61-6	
1,2,4-Trichlorobenzene	<14.5	ug/kg	65.4	14.5	1	12/11/18 19:12	12/12/18 15:38	120-82-1	
1,1,1-Trichloroethane	<30.5	ug/kg	65.4	30.5	1	12/11/18 19:12	12/12/18 15:38	71-55-6	
1,1,2-Trichloroethane	<7.8	ug/kg	65.4	7.8	1	12/11/18 19:12	12/12/18 15:38	79-00-5	
Trichloroethene	<10.1	ug/kg	65.4	10.1	1	12/11/18 19:12	12/12/18 15:38	79-01-6	
Trichlorofluoromethane	<114	ug/kg	261	114	1	12/11/18 19:12	12/12/18 15:38	75-69-4	
1,2,3-Trichloropropane	<17.1	ug/kg	261	17.1	1	12/11/18 19:12	12/12/18 15:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<75.8	ug/kg	261	75.8	1	12/11/18 19:12	12/12/18 15:38	76-13-1	
1,2,4-Trimethylbenzene	<13.1	ug/kg	65.4	13.1	1	12/11/18 19:12	12/12/18 15:38	95-63-6	
1,3,5-Trimethylbenzene	<10.4	ug/kg	65.4	10.4	1	12/11/18 19:12	12/12/18 15:38	108-67-8	
Vinyl chloride	<12.9	ug/kg	65.4	12.9	1	12/11/18 19:12	12/12/18 15:38	75-01-4	
Xylene (Total)	<15.2	ug/kg	196	15.2	1	12/11/18 19:12	12/12/18 15:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-125		1	12/11/18 19:12	12/12/18 15:38	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 15:38	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 15:38	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (2)**      **Lab ID: 10457121030**      Collected: 11/28/18 12:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.20	ug/kg	1.9	0.20	1	12/05/18 16:14	12/12/18 09:41	309-00-2	
alpha-BHC	<0.14	ug/kg	1.9	0.14	1	12/05/18 16:14	12/12/18 09:41	319-84-6	
beta-BHC	<0.26	ug/kg	1.9	0.26	1	12/05/18 16:14	12/12/18 09:41	319-85-7	
delta-BHC	<0.16	ug/kg	1.9	0.16	1	12/05/18 16:14	12/12/18 09:41	319-86-8	
gamma-BHC (Lindane)	<0.17	ug/kg	1.9	0.17	1	12/05/18 16:14	12/12/18 09:41	58-89-9	
Chlordane (Technical)	<3.5	ug/kg	19.5	3.5	1	12/05/18 16:14	12/12/18 09:41	57-74-9	
alpha-Chlordane	<0.16	ug/kg	1.9	0.16	1	12/05/18 16:14	12/12/18 09:41	5103-71-9	
gamma-Chlordane	<0.45	ug/kg	1.9	0.45	1	12/05/18 16:14	12/12/18 09:41	5103-74-2	
4,4'-DDD	<0.35	ug/kg	3.9	0.35	1	12/05/18 16:14	12/12/18 09:41	72-54-8	
4,4'-DDE	0.54J	ug/kg	3.9	0.29	1	12/05/18 16:14	12/12/18 09:41	72-55-9	
4,4'-DDT	0.70J	ug/kg	3.9	0.49	1	12/05/18 16:14	12/12/18 09:41	50-29-3	
Dieldrin	<0.38	ug/kg	3.9	0.38	1	12/05/18 16:14	12/12/18 09:41	60-57-1	
Endosulfan I	<0.17	ug/kg	1.9	0.17	1	12/05/18 16:14	12/12/18 09:41	959-98-8	
Endosulfan II	<0.39	ug/kg	3.9	0.39	1	12/05/18 16:14	12/12/18 09:41	33213-65-9	
Endosulfan sulfate	<0.40	ug/kg	3.9	0.40	1	12/05/18 16:14	12/12/18 09:41	1031-07-8	
Endrin	<0.35	ug/kg	3.9	0.35	1	12/05/18 16:14	12/12/18 09:41	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.9	1.2	1	12/05/18 16:14	12/12/18 09:41	7421-93-4	
Endrin ketone	<0.46	ug/kg	3.9	0.46	1	12/05/18 16:14	12/12/18 09:41	53494-70-5	
Heptachlor	<0.21	ug/kg	1.9	0.21	1	12/05/18 16:14	12/12/18 09:41	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	1.9	0.18	1	12/05/18 16:14	12/12/18 09:41	1024-57-3	
Methoxychlor	<2.9	ug/kg	19.5	2.9	1	12/05/18 16:14	12/12/18 09:41	72-43-5	
Toxaphene	<9.2	ug/kg	58.3	9.2	1	12/05/18 16:14	12/12/18 09:41	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	95	%	30-150		1	12/05/18 16:14	12/12/18 09:41	877-09-8	
Decachlorobiphenyl (S)	78	%	30-150		1	12/05/18 16:14	12/12/18 09:41	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.7	ug/kg	38.3	10.7	1	12/05/18 14:01	12/07/18 20:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.5	ug/kg	38.3	13.5	1	12/05/18 14:01	12/07/18 20:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.3	ug/kg	38.3	15.3	1	12/05/18 14:01	12/07/18 20:01	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.0	ug/kg	38.3	13.0	1	12/05/18 14:01	12/07/18 20:01	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.5	ug/kg	38.3	11.5	1	12/05/18 14:01	12/07/18 20:01	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.3	ug/kg	38.3	11.3	1	12/05/18 14:01	12/07/18 20:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.2	ug/kg	38.3	9.2	1	12/05/18 14:01	12/07/18 20:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	48-125		1	12/05/18 14:01	12/07/18 20:01	877-09-8	
Decachlorobiphenyl (S)	92	%	30-134		1	12/05/18 14:01	12/07/18 20:01	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<2.8	mg/kg	17.3	2.8	1	12/05/18 15:46	12/13/18 12:20	68334-30-5	
Motor Oil Range	6.5J	mg/kg	11.6	5.0	1	12/05/18 15:46	12/13/18 12:20		
<b>Surrogates</b>									
n-Triacontane (S)	90	%	50-150		1	12/05/18 15:46	12/13/18 12:20	638-68-6	
o-Terphenyl (S)	87	%	50-150		1	12/05/18 15:46	12/13/18 12:20	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (2)**      **Lab ID: 10457121030**      Collected: 11/28/18 12:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.86	mg/kg	6.6	0.86	1	12/11/18 12:55	12/12/18 03:20		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	89	%	50-150		1	12/11/18 12:55	12/12/18 03:20	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.42	mg/kg	1.1	0.42	1	12/07/18 10:11	12/10/18 13:30	7440-36-0	
Arsenic	1.2	mg/kg	1.1	0.23	1	12/07/18 10:11	12/10/18 13:30	7440-38-2	
Beryllium	0.43	mg/kg	0.28	0.015	1	12/07/18 10:11	12/10/18 13:30	7440-41-7	
Cadmium	0.10J	mg/kg	0.17	0.022	1	12/07/18 10:11	12/10/18 13:30	7440-43-9	
Chromium	5.7	mg/kg	0.56	0.097	1	12/07/18 10:11	12/10/18 13:30	7440-47-3	
Copper	16.1	mg/kg	0.56	0.063	1	12/07/18 10:11	12/10/18 13:30	7440-50-8	
Lead	21.3	mg/kg	0.56	0.13	1	12/07/18 10:11	12/10/18 13:30	7439-92-1	
Nickel	5.3	mg/kg	1.1	0.071	1	12/07/18 10:11	12/10/18 13:30	7440-02-0	
Selenium	<0.37	mg/kg	1.1	0.37	1	12/07/18 10:11	12/10/18 13:30	7782-49-2	
Silver	<0.041	mg/kg	0.56	0.041	1	12/07/18 10:11	12/10/18 13:30	7440-22-4	
Thallium	<0.26	mg/kg	1.1	0.26	1	12/07/18 10:11	12/10/18 13:30	7440-28-0	
Zinc	54.0	mg/kg	1.1	0.49	1	12/07/18 10:11	12/10/18 13:30	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.044	mg/kg	0.020	0.0081	1	12/07/18 10:13	12/11/18 12:31	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.7	%	0.10	0.10	1		12/12/18 12:04		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<41.1	ug/kg	385	41.1	1	12/04/18 17:03	12/07/18 19:50	83-32-9	
Acenaphthylene	<49.1	ug/kg	385	49.1	1	12/04/18 17:03	12/07/18 19:50	208-96-8	
Anthracene	<45.2	ug/kg	385	45.2	1	12/04/18 17:03	12/07/18 19:50	120-12-7	
Benzo(a)anthracene	<39.6	ug/kg	385	39.6	1	12/04/18 17:03	12/07/18 19:50	56-55-3	
Benzo(a)pyrene	<43.7	ug/kg	385	43.7	1	12/04/18 17:03	12/07/18 19:50	50-32-8	
Benzo(b)fluoranthene	<37.7	ug/kg	385	37.7	1	12/04/18 17:03	12/07/18 19:50	205-99-2	
Benzo(g,h,i)perylene	<41.2	ug/kg	385	41.2	1	12/04/18 17:03	12/07/18 19:50	191-24-2	
Benzo(k)fluoranthene	<48.1	ug/kg	385	48.1	1	12/04/18 17:03	12/07/18 19:50	207-08-9	
4-Bromophenylphenyl ether	<45.9	ug/kg	385	45.9	1	12/04/18 17:03	12/07/18 19:50	101-55-3	
Butylbenzylphthalate	<35.3	ug/kg	385	35.3	1	12/04/18 17:03	12/07/18 19:50	85-68-7	
Carbazole	<32.0	ug/kg	385	32.0	1	12/04/18 17:03	12/07/18 19:50	86-74-8	
4-Chloro-3-methylphenol	<61.6	ug/kg	385	61.6	1	12/04/18 17:03	12/07/18 19:50	59-50-7	
4-Chloroaniline	<103	ug/kg	385	103	1	12/04/18 17:03	12/07/18 19:50	106-47-8	
bis(2-Chloroethoxy)methane	<39.5	ug/kg	385	39.5	1	12/04/18 17:03	12/07/18 19:50	111-91-1	
bis(2-Chloroethyl) ether	<30.5	ug/kg	385	30.5	1	12/04/18 17:03	12/07/18 19:50	111-44-4	
bis(2-Chloroisopropyl) ether	<39.7	ug/kg	385	39.7	1	12/04/18 17:03	12/07/18 19:50	108-60-1	
2-Chloronaphthalene	<34.1	ug/kg	385	34.1	1	12/04/18 17:03	12/07/18 19:50	91-58-7	
2-Chlorophenol	<43.9	ug/kg	385	43.9	1	12/04/18 17:03	12/07/18 19:50	95-57-8	
4-Chlorophenylphenyl ether	<47.7	ug/kg	385	47.7	1	12/04/18 17:03	12/07/18 19:50	7005-72-3	
Chrysene	<40.6	ug/kg	385	40.6	1	12/04/18 17:03	12/07/18 19:50	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (2)**      **Lab ID: 10457121030**      Collected: 11/28/18 12:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<41.0	ug/kg	385	41.0	1	12/04/18 17:03	12/07/18 19:50	53-70-3	
Dibenzofuran	<48.8	ug/kg	385	48.8	1	12/04/18 17:03	12/07/18 19:50	132-64-9	
1,2-Dichlorobenzene	<40.4	ug/kg	385	40.4	1	12/04/18 17:03	12/07/18 19:50	95-50-1	
1,3-Dichlorobenzene	<26.4	ug/kg	385	26.4	1	12/04/18 17:03	12/07/18 19:50	541-73-1	
1,4-Dichlorobenzene	<42.8	ug/kg	385	42.8	1	12/04/18 17:03	12/07/18 19:50	106-46-7	
3,3'-Dichlorobenzidine	<129	ug/kg	385	129	1	12/04/18 17:03	12/07/18 19:50	91-94-1	
2,4-Dichlorophenol	<64.3	ug/kg	385	64.3	1	12/04/18 17:03	12/07/18 19:50	120-83-2	
Diethylphthalate	<34.3	ug/kg	385	34.3	1	12/04/18 17:03	12/07/18 19:50	84-66-2	
2,4-Dimethylphenol	<151	ug/kg	385	151	1	12/04/18 17:03	12/07/18 19:50	105-67-9	
Dimethylphthalate	<52.3	ug/kg	385	52.3	1	12/04/18 17:03	12/07/18 19:50	131-11-3	
Di-n-butylphthalate	<52.8	ug/kg	385	52.8	1	12/04/18 17:03	12/07/18 19:50	84-74-2	
4,6-Dinitro-2-methylphenol	<382	ug/kg	1980	382	1	12/04/18 17:03	12/07/18 19:50	534-52-1	
2,4-Dinitrophenol	<180	ug/kg	385	180	1	12/04/18 17:03	12/07/18 19:50	51-28-5	
2,4-Dinitrotoluene	<49.0	ug/kg	385	49.0	1	12/04/18 17:03	12/07/18 19:50	121-14-2	
2,6-Dinitrotoluene	<51.0	ug/kg	385	51.0	1	12/04/18 17:03	12/07/18 19:50	606-20-2	
Di-n-octylphthalate	<44.7	ug/kg	385	44.7	1	12/04/18 17:03	12/07/18 19:50	117-84-0	
1,2-Diphenylhydrazine	<47.3	ug/kg	385	47.3	1	12/04/18 17:03	12/07/18 19:50	122-66-7	
bis(2-Ethylhexyl)phthalate	<80.3	ug/kg	385	80.3	1	12/04/18 17:03	12/07/18 19:50	117-81-7	
Fluoranthene	<44.2	ug/kg	385	44.2	1	12/04/18 17:03	12/07/18 19:50	206-44-0	
Fluorene	<176	ug/kg	385	176	1	12/04/18 17:03	12/07/18 19:50	86-73-7	
Hexachloro-1,3-butadiene	<58.6	ug/kg	385	58.6	1	12/04/18 17:03	12/07/18 19:50	87-68-3	
Hexachlorobenzene	<62.8	ug/kg	385	62.8	1	12/04/18 17:03	12/07/18 19:50	118-74-1	
Hexachloroethane	<50.1	ug/kg	385	50.1	1	12/04/18 17:03	12/07/18 19:50	67-72-1	
Indeno(1,2,3-cd)pyrene	<23.2	ug/kg	385	23.2	1	12/04/18 17:03	12/07/18 19:50	193-39-5	
Isophorone	<29.7	ug/kg	385	29.7	1	12/04/18 17:03	12/07/18 19:50	78-59-1	
1-Methylnaphthalene	<35.6	ug/kg	385	35.6	1	12/04/18 17:03	12/07/18 19:50	90-12-0	
2-Methylnaphthalene	<34.8	ug/kg	385	34.8	1	12/04/18 17:03	12/07/18 19:50	91-57-6	
2-Methylphenol(o-Cresol)	<24.0	ug/kg	385	24.0	1	12/04/18 17:03	12/07/18 19:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	<21.7	ug/kg	770	21.7	1	12/04/18 17:03	12/07/18 19:50		
Naphthalene	<29.7	ug/kg	385	29.7	1	12/04/18 17:03	12/07/18 19:50	91-20-3	
2-Nitroaniline	<96.7	ug/kg	385	96.7	1	12/04/18 17:03	12/07/18 19:50	88-74-4	
3-Nitroaniline	<42.0	ug/kg	385	42.0	1	12/04/18 17:03	12/07/18 19:50	99-09-2	
4-Nitroaniline	<56.3	ug/kg	385	56.3	1	12/04/18 17:03	12/07/18 19:50	100-01-6	
Nitrobenzene	<42.4	ug/kg	385	42.4	1	12/04/18 17:03	12/07/18 19:50	98-95-3	
2-Nitrophenol	<46.9	ug/kg	385	46.9	1	12/04/18 17:03	12/07/18 19:50	88-75-5	
4-Nitrophenol	<74.7	ug/kg	385	74.7	1	12/04/18 17:03	12/07/18 19:50	100-02-7	
N-Nitrosodimethylamine	<47.3	ug/kg	385	47.3	1	12/04/18 17:03	12/07/18 19:50	62-75-9	
N-Nitroso-di-n-propylamine	<176	ug/kg	385	176	1	12/04/18 17:03	12/07/18 19:50	621-64-7	
N-Nitrosodiphenylamine	<25.0	ug/kg	385	25.0	1	12/04/18 17:03	12/07/18 19:50	86-30-6	
Pentachlorophenol	<225	ug/kg	782	225	1	12/04/18 17:03	12/07/18 19:50	87-86-5	
Phenanthrene	<44.8	ug/kg	385	44.8	1	12/04/18 17:03	12/07/18 19:50	85-01-8	
Phenol	<25.2	ug/kg	385	25.2	1	12/04/18 17:03	12/07/18 19:50	108-95-2	
Pyrene	<29.3	ug/kg	385	29.3	1	12/04/18 17:03	12/07/18 19:50	129-00-0	
1,2,4-Trichlorobenzene	<42.3	ug/kg	385	42.3	1	12/04/18 17:03	12/07/18 19:50	120-82-1	
2,4,5-Trichlorophenol	<49.6	ug/kg	385	49.6	1	12/04/18 17:03	12/07/18 19:50	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (2)**      **Lab ID: 10457121030**      Collected: 11/28/18 12:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<59.7	ug/kg	385	59.7	1	12/04/18 17:03	12/07/18 19:50	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	67	%	43-125		1	12/04/18 17:03	12/07/18 19:50	4165-60-0	
2-Fluorobiphenyl (S)	69	%	30-132		1	12/04/18 17:03	12/07/18 19:50	321-60-8	
p-Terphenyl-d14 (S)	88	%	62-125		1	12/04/18 17:03	12/07/18 19:50	1718-51-0	
Phenol-d6 (S)	71	%	48-125		1	12/04/18 17:03	12/07/18 19:50	13127-88-3	
2-Fluorophenol (S)	69	%	40-125		1	12/04/18 17:03	12/07/18 19:50	367-12-4	
2,4,6-Tribromophenol (S)	80	%	60-125		1	12/04/18 17:03	12/07/18 19:50	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.24	ug/kg	4.3	0.24	1	03/05/19 10:30	03/05/19 19:00	106-93-4	
Methylene Chloride	<4.0	ug/kg	21.6	4.0	1	03/05/19 10:30	03/05/19 19:00	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	03/05/19 10:30	03/05/19 19:00	17060-07-0	4M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 19:00	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 19:00	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<410	ug/kg	1320	410	1	12/11/18 19:12	12/12/18 15:56	67-64-1	
Allyl chloride	<55.2	ug/kg	263	55.2	1	12/11/18 19:12	12/12/18 15:56	107-05-1	
Benzene	<3.7	ug/kg	26.3	3.7	1	12/11/18 19:12	12/12/18 15:56	71-43-2	
Bromobenzene	<4.0	ug/kg	65.8	4.0	1	12/11/18 19:12	12/12/18 15:56	108-86-1	
Bromochloromethane	<22.8	ug/kg	65.8	22.8	1	12/11/18 19:12	12/12/18 15:56	74-97-5	
Bromodichloromethane	<22.5	ug/kg	65.8	22.5	1	12/11/18 19:12	12/12/18 15:56	75-27-4	
Bromoform	<99.7	ug/kg	263	99.7	1	12/11/18 19:12	12/12/18 15:56	75-25-2	
Bromomethane	<77.0	ug/kg	658	77.0	1	12/11/18 19:12	12/12/18 15:56	74-83-9	
2-Butanone (MEK)	<35.0	ug/kg	329	35.0	1	12/11/18 19:12	12/12/18 15:56	78-93-3	
n-Butylbenzene	<31.3	ug/kg	65.8	31.3	1	12/11/18 19:12	12/12/18 15:56	104-51-8	
sec-Butylbenzene	<12.6	ug/kg	65.8	12.6	1	12/11/18 19:12	12/12/18 15:56	135-98-8	
tert-Butylbenzene	<12.6	ug/kg	65.8	12.6	1	12/11/18 19:12	12/12/18 15:56	98-06-6	
Carbon tetrachloride	<31.5	ug/kg	65.8	31.5	1	12/11/18 19:12	12/12/18 15:56	56-23-5	
Chlorobenzene	<3.7	ug/kg	65.8	3.7	1	12/11/18 19:12	12/12/18 15:56	108-90-7	
Chloroethane	<34.2	ug/kg	658	34.2	1	12/11/18 19:12	12/12/18 15:56	75-00-3	L2
Chloroform	<32.9	ug/kg	65.8	32.9	1	12/11/18 19:12	12/12/18 15:56	67-66-3	
Chloromethane	<15.8	ug/kg	263	15.8	1	12/11/18 19:12	12/12/18 15:56	74-87-3	
2-Chlorotoluene	<3.2	ug/kg	65.8	3.2	1	12/11/18 19:12	12/12/18 15:56	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	65.8	3.4	1	12/11/18 19:12	12/12/18 15:56	106-43-4	
1,2-Dibromo-3-chloropropane	<229	ug/kg	658	229	1	12/11/18 19:12	12/12/18 15:56	96-12-8	
Dibromochloromethane	<7.6	ug/kg	263	7.6	1	12/11/18 19:12	12/12/18 15:56	124-48-1	
1,2-Dibromoethane (EDB)	<6.9	ug/kg	65.8	6.9	1	12/11/18 19:12	12/12/18 15:56	106-93-4	
Dibromomethane	<12.1	ug/kg	65.8	12.1	1	12/11/18 19:12	12/12/18 15:56	74-95-3	
1,2-Dichlorobenzene	<2.7	ug/kg	65.8	2.7	1	12/11/18 19:12	12/12/18 15:56	95-50-1	
1,3-Dichlorobenzene	<2.4	ug/kg	65.8	2.4	1	12/11/18 19:12	12/12/18 15:56	541-73-1	
1,4-Dichlorobenzene	<4.1	ug/kg	65.8	4.1	1	12/11/18 19:12	12/12/18 15:56	106-46-7	
Dichlorodifluoromethane	<21.3	ug/kg	263	21.3	1	12/11/18 19:12	12/12/18 15:56	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (2)**      **Lab ID: 10457121030**      Collected: 11/28/18 12:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<7.4	ug/kg	65.8	7.4	1	12/11/18 19:12	12/12/18 15:56	75-34-3	
1,2-Dichloroethane	<7.2	ug/kg	65.8	7.2	1	12/11/18 19:12	12/12/18 15:56	107-06-2	
1,1-Dichloroethene	<19.8	ug/kg	263	19.8	1	12/11/18 19:12	12/12/18 15:56	75-35-4	
cis-1,2-Dichloroethene	<10.9	ug/kg	65.8	10.9	1	12/11/18 19:12	12/12/18 15:56	156-59-2	
trans-1,2-Dichloroethene	<30.8	ug/kg	65.8	30.8	1	12/11/18 19:12	12/12/18 15:56	156-60-5	
Dichlorofluoromethane	<91.0	ug/kg	658	91.0	1	12/11/18 19:12	12/12/18 15:56	75-43-4	N2
1,2-Dichloropropane	<11.4	ug/kg	65.8	11.4	1	12/11/18 19:12	12/12/18 15:56	78-87-5	
1,3-Dichloropropane	<9.1	ug/kg	65.8	9.1	1	12/11/18 19:12	12/12/18 15:56	142-28-9	
2,2-Dichloropropane	<8.2	ug/kg	263	8.2	1	12/11/18 19:12	12/12/18 15:56	594-20-7	
1,1-Dichloropropene	<30.4	ug/kg	65.8	30.4	1	12/11/18 19:12	12/12/18 15:56	563-58-6	
cis-1,3-Dichloropropene	<9.4	ug/kg	65.8	9.4	1	12/11/18 19:12	12/12/18 15:56	10061-01-5	
trans-1,3-Dichloropropene	<9.2	ug/kg	65.8	9.2	1	12/11/18 19:12	12/12/18 15:56	10061-02-6	
Diethyl ether (Ethyl ether)	<40.3	ug/kg	263	40.3	1	12/11/18 19:12	12/12/18 15:56	60-29-7	
Ethylbenzene	<3.6	ug/kg	65.8	3.6	1	12/11/18 19:12	12/12/18 15:56	100-41-4	
Hexachloro-1,3-butadiene	<16.1	ug/kg	329	16.1	1	12/11/18 19:12	12/12/18 15:56	87-68-3	
Isopropylbenzene (Cumene)	<2.9	ug/kg	65.8	2.9	1	12/11/18 19:12	12/12/18 15:56	98-82-8	
p-Isopropyltoluene	<20.0	ug/kg	65.8	20.0	1	12/11/18 19:12	12/12/18 15:56	99-87-6	
Methylene Chloride	<124	ug/kg	263	124	1	12/11/18 19:12	12/12/18 15:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	<13.7	ug/kg	329	13.7	1	12/11/18 19:12	12/12/18 15:56	108-10-1	
Methyl-tert-butyl ether	<7.8	ug/kg	65.8	7.8	1	12/11/18 19:12	12/12/18 15:56	1634-04-4	
Naphthalene	<61.6	ug/kg	263	61.6	1	12/11/18 19:12	12/12/18 15:56	91-20-3	
n-Propylbenzene	<3.5	ug/kg	65.8	3.5	1	12/11/18 19:12	12/12/18 15:56	103-65-1	
Styrene	<3.0	ug/kg	65.8	3.0	1	12/11/18 19:12	12/12/18 15:56	100-42-5	
1,1,1,2-Tetrachloroethane	<20.7	ug/kg	65.8	20.7	1	12/11/18 19:12	12/12/18 15:56	630-20-6	
1,1,1,2,2-Tetrachloroethane	<11.6	ug/kg	263	11.6	1	12/11/18 19:12	12/12/18 15:56	79-34-5	
Tetrachloroethene	<23.2	ug/kg	65.8	23.2	1	12/11/18 19:12	12/12/18 15:56	127-18-4	
Tetrahydrofuran	<95.7	ug/kg	2630	95.7	1	12/11/18 19:12	12/12/18 15:56	109-99-9	
Toluene	<16.1	ug/kg	65.8	16.1	1	12/11/18 19:12	12/12/18 15:56	108-88-3	
1,2,3-Trichlorobenzene	<10.5	ug/kg	65.8	10.5	1	12/11/18 19:12	12/12/18 15:56	87-61-6	
1,2,4-Trichlorobenzene	<14.6	ug/kg	65.8	14.6	1	12/11/18 19:12	12/12/18 15:56	120-82-1	
1,1,1-Trichloroethane	<30.7	ug/kg	65.8	30.7	1	12/11/18 19:12	12/12/18 15:56	71-55-6	
1,1,2-Trichloroethane	<7.9	ug/kg	65.8	7.9	1	12/11/18 19:12	12/12/18 15:56	79-00-5	
Trichloroethene	<10.2	ug/kg	65.8	10.2	1	12/11/18 19:12	12/12/18 15:56	79-01-6	
Trichlorofluoromethane	<115	ug/kg	263	115	1	12/11/18 19:12	12/12/18 15:56	75-69-4	
1,2,3-Trichloropropane	<17.3	ug/kg	263	17.3	1	12/11/18 19:12	12/12/18 15:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	<76.4	ug/kg	263	76.4	1	12/11/18 19:12	12/12/18 15:56	76-13-1	
1,2,4-Trimethylbenzene	<13.2	ug/kg	65.8	13.2	1	12/11/18 19:12	12/12/18 15:56	95-63-6	
1,3,5-Trimethylbenzene	<10.5	ug/kg	65.8	10.5	1	12/11/18 19:12	12/12/18 15:56	108-67-8	
Vinyl chloride	<13.0	ug/kg	65.8	13.0	1	12/11/18 19:12	12/12/18 15:56	75-01-4	
Xylene (Total)	<15.3	ug/kg	198	15.3	1	12/11/18 19:12	12/12/18 15:56	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 15:56	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 15:56	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 15:56	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (8)**      **Lab ID: 10457121031**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.0	0.21	1	12/05/18 16:14	12/12/18 10:36	309-00-2	
alpha-BHC	<0.15	ug/kg	2.0	0.15	1	12/05/18 16:14	12/12/18 10:36	319-84-6	
beta-BHC	<0.27	ug/kg	2.0	0.27	1	12/05/18 16:14	12/12/18 10:36	319-85-7	
delta-BHC	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 10:36	319-86-8	
gamma-BHC (Lindane)	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 10:36	58-89-9	
Chlordane (Technical)	<3.7	ug/kg	20.5	3.7	1	12/05/18 16:14	12/12/18 10:36	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 10:36	5103-71-9	
gamma-Chlordane	<0.47	ug/kg	2.0	0.47	1	12/05/18 16:14	12/12/18 10:36	5103-74-2	
4,4'-DDD	<0.37	ug/kg	4.1	0.37	1	12/05/18 16:14	12/12/18 10:36	72-54-8	
4,4'-DDE	<0.30	ug/kg	4.1	0.30	1	12/05/18 16:14	12/12/18 10:36	72-55-9	
4,4'-DDT	<0.51	ug/kg	4.1	0.51	1	12/05/18 16:14	12/12/18 10:36	50-29-3	
Dieldrin	<0.39	ug/kg	4.1	0.39	1	12/05/18 16:14	12/12/18 10:36	60-57-1	
Endosulfan I	<0.18	ug/kg	2.0	0.18	1	12/05/18 16:14	12/12/18 10:36	959-98-8	
Endosulfan II	<0.41	ug/kg	4.1	0.41	1	12/05/18 16:14	12/12/18 10:36	33213-65-9	
Endosulfan sulfate	<0.42	ug/kg	4.1	0.42	1	12/05/18 16:14	12/12/18 10:36	1031-07-8	
Endrin	<0.36	ug/kg	4.1	0.36	1	12/05/18 16:14	12/12/18 10:36	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.1	1.3	1	12/05/18 16:14	12/12/18 10:36	7421-93-4	
Endrin ketone	<0.48	ug/kg	4.1	0.48	1	12/05/18 16:14	12/12/18 10:36	53494-70-5	
Heptachlor	<0.22	ug/kg	2.0	0.22	1	12/05/18 16:14	12/12/18 10:36	76-44-8	
Heptachlor epoxide	<0.19	ug/kg	2.0	0.19	1	12/05/18 16:14	12/12/18 10:36	1024-57-3	
Methoxychlor	<3.1	ug/kg	20.5	3.1	1	12/05/18 16:14	12/12/18 10:36	72-43-5	
Toxaphene	<9.7	ug/kg	61.2	9.7	1	12/05/18 16:14	12/12/18 10:36	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	90	%	30-150		1	12/05/18 16:14	12/12/18 10:36	877-09-8	
Decachlorobiphenyl (S)	76	%	30-150		1	12/05/18 16:14	12/12/18 10:36	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.1	11.2	1	12/05/18 14:01	12/07/18 21:04	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.1	14.1	1	12/05/18 14:01	12/07/18 21:04	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.1	ug/kg	40.1	16.1	1	12/05/18 14:01	12/07/18 21:04	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.1	13.6	1	12/05/18 14:01	12/07/18 21:04	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	40.1	12.0	1	12/05/18 14:01	12/07/18 21:04	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.1	11.8	1	12/05/18 14:01	12/07/18 21:04	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.1	9.6	1	12/05/18 14:01	12/07/18 21:04	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	48-125		1	12/05/18 14:01	12/07/18 21:04	877-09-8	
Decachlorobiphenyl (S)	87	%	30-134		1	12/05/18 14:01	12/07/18 21:04	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.2	3.0	1	12/05/18 15:46	12/13/18 12:31	68334-30-5	
Motor Oil Range	<5.3	mg/kg	12.1	5.3	1	12/05/18 15:46	12/13/18 12:31		
<b>Surrogates</b>									
n-Triacontane (S)	95	%	50-150		1	12/05/18 15:46	12/13/18 12:31	638-68-6	
o-Terphenyl (S)	87	%	50-150		1	12/05/18 15:46	12/13/18 12:31	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (8)**      **Lab ID: 10457121031**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.83	mg/kg	6.3	0.83	1	12/11/18 12:55	12/12/18 04:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	92	%	50-150		1	12/11/18 12:55	12/12/18 04:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.44	mg/kg	1.2	0.44	1	12/07/18 10:11	12/10/18 13:33	7440-36-0	
Arsenic	2.2	mg/kg	1.2	0.24	1	12/07/18 10:11	12/10/18 13:33	7440-38-2	
Beryllium	0.53	mg/kg	0.29	0.016	1	12/07/18 10:11	12/10/18 13:33	7440-41-7	
Cadmium	0.029J	mg/kg	0.18	0.023	1	12/07/18 10:11	12/10/18 13:33	7440-43-9	
Chromium	6.9	mg/kg	0.58	0.10	1	12/07/18 10:11	12/10/18 13:33	7440-47-3	
Copper	13.4	mg/kg	0.58	0.065	1	12/07/18 10:11	12/10/18 13:33	7440-50-8	
Lead	3.8	mg/kg	0.58	0.13	1	12/07/18 10:11	12/10/18 13:33	7439-92-1	
Nickel	6.0	mg/kg	1.2	0.073	1	12/07/18 10:11	12/10/18 13:33	7440-02-0	
Selenium	<0.38	mg/kg	1.2	0.38	1	12/07/18 10:11	12/10/18 13:33	7782-49-2	
Silver	<0.042	mg/kg	0.58	0.042	1	12/07/18 10:11	12/10/18 13:33	7440-22-4	
Thallium	<0.27	mg/kg	1.2	0.27	1	12/07/18 10:11	12/10/18 13:33	7440-28-0	
Zinc	48.8	mg/kg	1.2	0.51	1	12/07/18 10:11	12/10/18 13:33	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0087	mg/kg	0.022	0.0087	1	12/07/18 10:13	12/11/18 12:33	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.4	%	0.10	0.10	1		12/12/18 12:04		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<42.8	ug/kg	402	42.8	1	12/04/18 17:03	12/07/18 20:19	83-32-9	
Acenaphthylene	<51.2	ug/kg	402	51.2	1	12/04/18 17:03	12/07/18 20:19	208-96-8	
Anthracene	<47.1	ug/kg	402	47.1	1	12/04/18 17:03	12/07/18 20:19	120-12-7	
Benzo(a)anthracene	<41.3	ug/kg	402	41.3	1	12/04/18 17:03	12/07/18 20:19	56-55-3	
Benzo(a)pyrene	<45.5	ug/kg	402	45.5	1	12/04/18 17:03	12/07/18 20:19	50-32-8	
Benzo(b)fluoranthene	<39.3	ug/kg	402	39.3	1	12/04/18 17:03	12/07/18 20:19	205-99-2	
Benzo(g,h,i)perylene	<43.0	ug/kg	402	43.0	1	12/04/18 17:03	12/07/18 20:19	191-24-2	
Benzo(k)fluoranthene	<50.2	ug/kg	402	50.2	1	12/04/18 17:03	12/07/18 20:19	207-08-9	
4-Bromophenylphenyl ether	<47.8	ug/kg	402	47.8	1	12/04/18 17:03	12/07/18 20:19	101-55-3	
Butylbenzylphthalate	<36.8	ug/kg	402	36.8	1	12/04/18 17:03	12/07/18 20:19	85-68-7	
Carbazole	<33.4	ug/kg	402	33.4	1	12/04/18 17:03	12/07/18 20:19	86-74-8	
4-Chloro-3-methylphenol	<64.3	ug/kg	402	64.3	1	12/04/18 17:03	12/07/18 20:19	59-50-7	
4-Chloroaniline	<107	ug/kg	402	107	1	12/04/18 17:03	12/07/18 20:19	106-47-8	
bis(2-Chloroethoxy)methane	<41.1	ug/kg	402	41.1	1	12/04/18 17:03	12/07/18 20:19	111-91-1	
bis(2-Chloroethyl) ether	<31.8	ug/kg	402	31.8	1	12/04/18 17:03	12/07/18 20:19	111-44-4	
bis(2-Chloroisopropyl) ether	<41.4	ug/kg	402	41.4	1	12/04/18 17:03	12/07/18 20:19	108-60-1	
2-Chloronaphthalene	<35.5	ug/kg	402	35.5	1	12/04/18 17:03	12/07/18 20:19	91-58-7	
2-Chlorophenol	<45.8	ug/kg	402	45.8	1	12/04/18 17:03	12/07/18 20:19	95-57-8	
4-Chlorophenylphenyl ether	<49.8	ug/kg	402	49.8	1	12/04/18 17:03	12/07/18 20:19	7005-72-3	
Chrysene	<42.4	ug/kg	402	42.4	1	12/04/18 17:03	12/07/18 20:19	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (8)**      **Lab ID: 10457121031**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<42.7	ug/kg	402	42.7	1	12/04/18 17:03	12/07/18 20:19	53-70-3	
Dibenzofuran	<50.9	ug/kg	402	50.9	1	12/04/18 17:03	12/07/18 20:19	132-64-9	
1,2-Dichlorobenzene	<42.1	ug/kg	402	42.1	1	12/04/18 17:03	12/07/18 20:19	95-50-1	
1,3-Dichlorobenzene	<27.5	ug/kg	402	27.5	1	12/04/18 17:03	12/07/18 20:19	541-73-1	
1,4-Dichlorobenzene	<44.7	ug/kg	402	44.7	1	12/04/18 17:03	12/07/18 20:19	106-46-7	
3,3'-Dichlorobenzidine	<135	ug/kg	402	135	1	12/04/18 17:03	12/07/18 20:19	91-94-1	
2,4-Dichlorophenol	<67.1	ug/kg	402	67.1	1	12/04/18 17:03	12/07/18 20:19	120-83-2	
Diethylphthalate	<35.8	ug/kg	402	35.8	1	12/04/18 17:03	12/07/18 20:19	84-66-2	
2,4-Dimethylphenol	<157	ug/kg	402	157	1	12/04/18 17:03	12/07/18 20:19	105-67-9	
Dimethylphthalate	<54.5	ug/kg	402	54.5	1	12/04/18 17:03	12/07/18 20:19	131-11-3	
Di-n-butylphthalate	<55.0	ug/kg	402	55.0	1	12/04/18 17:03	12/07/18 20:19	84-74-2	
4,6-Dinitro-2-methylphenol	<398	ug/kg	2070	398	1	12/04/18 17:03	12/07/18 20:19	534-52-1	
2,4-Dinitrophenol	<187	ug/kg	402	187	1	12/04/18 17:03	12/07/18 20:19	51-28-5	
2,4-Dinitrotoluene	<51.1	ug/kg	402	51.1	1	12/04/18 17:03	12/07/18 20:19	121-14-2	
2,6-Dinitrotoluene	<53.2	ug/kg	402	53.2	1	12/04/18 17:03	12/07/18 20:19	606-20-2	
Di-n-octylphthalate	<46.6	ug/kg	402	46.6	1	12/04/18 17:03	12/07/18 20:19	117-84-0	
1,2-Diphenylhydrazine	<49.3	ug/kg	402	49.3	1	12/04/18 17:03	12/07/18 20:19	122-66-7	
bis(2-Ethylhexyl)phthalate	<83.7	ug/kg	402	83.7	1	12/04/18 17:03	12/07/18 20:19	117-81-7	
Fluoranthene	<46.1	ug/kg	402	46.1	1	12/04/18 17:03	12/07/18 20:19	206-44-0	
Fluorene	<184	ug/kg	402	184	1	12/04/18 17:03	12/07/18 20:19	86-73-7	
Hexachloro-1,3-butadiene	<61.1	ug/kg	402	61.1	1	12/04/18 17:03	12/07/18 20:19	87-68-3	
Hexachlorobenzene	<65.5	ug/kg	402	65.5	1	12/04/18 17:03	12/07/18 20:19	118-74-1	
Hexachloroethane	<52.2	ug/kg	402	52.2	1	12/04/18 17:03	12/07/18 20:19	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.2	ug/kg	402	24.2	1	12/04/18 17:03	12/07/18 20:19	193-39-5	
Isophorone	<30.9	ug/kg	402	30.9	1	12/04/18 17:03	12/07/18 20:19	78-59-1	
1-Methylnaphthalene	<37.1	ug/kg	402	37.1	1	12/04/18 17:03	12/07/18 20:19	90-12-0	
2-Methylnaphthalene	<36.3	ug/kg	402	36.3	1	12/04/18 17:03	12/07/18 20:19	91-57-6	
2-Methylphenol(o-Cresol)	<25.1	ug/kg	402	25.1	1	12/04/18 17:03	12/07/18 20:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.6	ug/kg	803	22.6	1	12/04/18 17:03	12/07/18 20:19		
Naphthalene	<30.9	ug/kg	402	30.9	1	12/04/18 17:03	12/07/18 20:19	91-20-3	
2-Nitroaniline	<101	ug/kg	402	101	1	12/04/18 17:03	12/07/18 20:19	88-74-4	
3-Nitroaniline	<43.8	ug/kg	402	43.8	1	12/04/18 17:03	12/07/18 20:19	99-09-2	
4-Nitroaniline	<58.7	ug/kg	402	58.7	1	12/04/18 17:03	12/07/18 20:19	100-01-6	
Nitrobenzene	<44.2	ug/kg	402	44.2	1	12/04/18 17:03	12/07/18 20:19	98-95-3	
2-Nitrophenol	<48.9	ug/kg	402	48.9	1	12/04/18 17:03	12/07/18 20:19	88-75-5	
4-Nitrophenol	<77.9	ug/kg	402	77.9	1	12/04/18 17:03	12/07/18 20:19	100-02-7	
N-Nitrosodimethylamine	<49.3	ug/kg	402	49.3	1	12/04/18 17:03	12/07/18 20:19	62-75-9	
N-Nitroso-di-n-propylamine	<184	ug/kg	402	184	1	12/04/18 17:03	12/07/18 20:19	621-64-7	
N-Nitrosodiphenylamine	<26.0	ug/kg	402	26.0	1	12/04/18 17:03	12/07/18 20:19	86-30-6	
Pentachlorophenol	<235	ug/kg	816	235	1	12/04/18 17:03	12/07/18 20:19	87-86-5	
Phenanthrene	<46.7	ug/kg	402	46.7	1	12/04/18 17:03	12/07/18 20:19	85-01-8	
Phenol	<26.3	ug/kg	402	26.3	1	12/04/18 17:03	12/07/18 20:19	108-95-2	
Pyrene	<30.6	ug/kg	402	30.6	1	12/04/18 17:03	12/07/18 20:19	129-00-0	
1,2,4-Trichlorobenzene	<44.1	ug/kg	402	44.1	1	12/04/18 17:03	12/07/18 20:19	120-82-1	
2,4,5-Trichlorophenol	<51.7	ug/kg	402	51.7	1	12/04/18 17:03	12/07/18 20:19	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (8)**      **Lab ID: 10457121031**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<62.2	ug/kg	402	62.2	1	12/04/18 17:03	12/07/18 20:19	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	63	%	43-125		1	12/04/18 17:03	12/07/18 20:19	4165-60-0	
2-Fluorobiphenyl (S)	57	%	30-132		1	12/04/18 17:03	12/07/18 20:19	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 20:19	1718-51-0	
Phenol-d6 (S)	68	%	48-125		1	12/04/18 17:03	12/07/18 20:19	13127-88-3	
2-Fluorophenol (S)	67	%	40-125		1	12/04/18 17:03	12/07/18 20:19	367-12-4	
2,4,6-Tribromophenol (S)	79	%	60-125		1	12/04/18 17:03	12/07/18 20:19	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 19:19	106-93-4	
Methylene Chloride	<4.4	ug/kg	23.8	4.4	1	03/05/19 10:30	03/05/19 19:19	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/05/19 10:30	03/05/19 19:19	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 19:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	03/05/19 10:30	03/05/19 19:19	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>950J</b>	ug/kg	1230	383	1	12/11/18 19:12	12/12/18 16:15	67-64-1	B
Allyl chloride	<51.7	ug/kg	247	51.7	1	12/11/18 19:12	12/12/18 16:15	107-05-1	
Benzene	<3.5	ug/kg	24.7	3.5	1	12/11/18 19:12	12/12/18 16:15	71-43-2	
Bromobenzene	<3.8	ug/kg	61.6	3.8	1	12/11/18 19:12	12/12/18 16:15	108-86-1	
Bromochloromethane	<21.3	ug/kg	61.6	21.3	1	12/11/18 19:12	12/12/18 16:15	74-97-5	
Bromodichloromethane	<21.1	ug/kg	61.6	21.1	1	12/11/18 19:12	12/12/18 16:15	75-27-4	
Bromoform	<93.3	ug/kg	247	93.3	1	12/11/18 19:12	12/12/18 16:15	75-25-2	
Bromomethane	<72.1	ug/kg	616	72.1	1	12/11/18 19:12	12/12/18 16:15	74-83-9	
2-Butanone (MEK)	<32.8	ug/kg	308	32.8	1	12/11/18 19:12	12/12/18 16:15	78-93-3	
n-Butylbenzene	<29.3	ug/kg	61.6	29.3	1	12/11/18 19:12	12/12/18 16:15	104-51-8	
sec-Butylbenzene	<11.8	ug/kg	61.6	11.8	1	12/11/18 19:12	12/12/18 16:15	135-98-8	
tert-Butylbenzene	<11.8	ug/kg	61.6	11.8	1	12/11/18 19:12	12/12/18 16:15	98-06-6	
Carbon tetrachloride	<29.5	ug/kg	61.6	29.5	1	12/11/18 19:12	12/12/18 16:15	56-23-5	
Chlorobenzene	<3.5	ug/kg	61.6	3.5	1	12/11/18 19:12	12/12/18 16:15	108-90-7	
Chloroethane	<32.1	ug/kg	616	32.1	1	12/11/18 19:12	12/12/18 16:15	75-00-3	L2
Chloroform	<30.8	ug/kg	61.6	30.8	1	12/11/18 19:12	12/12/18 16:15	67-66-3	
Chloromethane	<14.8	ug/kg	247	14.8	1	12/11/18 19:12	12/12/18 16:15	74-87-3	
2-Chlorotoluene	<3.0	ug/kg	61.6	3.0	1	12/11/18 19:12	12/12/18 16:15	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	61.6	3.2	1	12/11/18 19:12	12/12/18 16:15	106-43-4	
1,2-Dibromo-3-chloropropane	<215	ug/kg	616	215	1	12/11/18 19:12	12/12/18 16:15	96-12-8	
Dibromochloromethane	<7.2	ug/kg	247	7.2	1	12/11/18 19:12	12/12/18 16:15	124-48-1	
1,2-Dibromoethane (EDB)	<6.5	ug/kg	61.6	6.5	1	12/11/18 19:12	12/12/18 16:15	106-93-4	
Dibromomethane	<11.3	ug/kg	61.6	11.3	1	12/11/18 19:12	12/12/18 16:15	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/kg	61.6	2.5	1	12/11/18 19:12	12/12/18 16:15	95-50-1	
1,3-Dichlorobenzene	<2.2	ug/kg	61.6	2.2	1	12/11/18 19:12	12/12/18 16:15	541-73-1	
1,4-Dichlorobenzene	<3.8	ug/kg	61.6	3.8	1	12/11/18 19:12	12/12/18 16:15	106-46-7	
Dichlorodifluoromethane	<20.0	ug/kg	247	20.0	1	12/11/18 19:12	12/12/18 16:15	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-16 (8)**      **Lab ID: 10457121031**      Collected: 11/28/18 12:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<6.9	ug/kg	61.6	6.9	1	12/11/18 19:12	12/12/18 16:15	75-34-3	
1,2-Dichloroethane	<6.8	ug/kg	61.6	6.8	1	12/11/18 19:12	12/12/18 16:15	107-06-2	
1,1-Dichloroethene	<18.5	ug/kg	247	18.5	1	12/11/18 19:12	12/12/18 16:15	75-35-4	
cis-1,2-Dichloroethene	<10.2	ug/kg	61.6	10.2	1	12/11/18 19:12	12/12/18 16:15	156-59-2	
trans-1,2-Dichloroethene	<28.8	ug/kg	61.6	28.8	1	12/11/18 19:12	12/12/18 16:15	156-60-5	
Dichlorofluoromethane	<85.2	ug/kg	616	85.2	1	12/11/18 19:12	12/12/18 16:15	75-43-4	N2
1,2-Dichloropropane	<10.6	ug/kg	61.6	10.6	1	12/11/18 19:12	12/12/18 16:15	78-87-5	
1,3-Dichloropropane	<8.5	ug/kg	61.6	8.5	1	12/11/18 19:12	12/12/18 16:15	142-28-9	
2,2-Dichloropropane	<7.7	ug/kg	247	7.7	1	12/11/18 19:12	12/12/18 16:15	594-20-7	
1,1-Dichloropropene	<28.5	ug/kg	61.6	28.5	1	12/11/18 19:12	12/12/18 16:15	563-58-6	
cis-1,3-Dichloropropene	<8.8	ug/kg	61.6	8.8	1	12/11/18 19:12	12/12/18 16:15	10061-01-5	
trans-1,3-Dichloropropene	<8.6	ug/kg	61.6	8.6	1	12/11/18 19:12	12/12/18 16:15	10061-02-6	
Diethyl ether (Ethyl ether)	<37.7	ug/kg	247	37.7	1	12/11/18 19:12	12/12/18 16:15	60-29-7	
Ethylbenzene	<3.4	ug/kg	61.6	3.4	1	12/11/18 19:12	12/12/18 16:15	100-41-4	
Hexachloro-1,3-butadiene	<15.0	ug/kg	308	15.0	1	12/11/18 19:12	12/12/18 16:15	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	61.6	2.7	1	12/11/18 19:12	12/12/18 16:15	98-82-8	
p-Isopropyltoluene	<18.7	ug/kg	61.6	18.7	1	12/11/18 19:12	12/12/18 16:15	99-87-6	
Methylene Chloride	<116	ug/kg	247	116	1	12/11/18 19:12	12/12/18 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<12.8	ug/kg	308	12.8	1	12/11/18 19:12	12/12/18 16:15	108-10-1	
Methyl-tert-butyl ether	<7.3	ug/kg	61.6	7.3	1	12/11/18 19:12	12/12/18 16:15	1634-04-4	
Naphthalene	<57.7	ug/kg	247	57.7	1	12/11/18 19:12	12/12/18 16:15	91-20-3	
n-Propylbenzene	<3.3	ug/kg	61.6	3.3	1	12/11/18 19:12	12/12/18 16:15	103-65-1	
Styrene	<2.8	ug/kg	61.6	2.8	1	12/11/18 19:12	12/12/18 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	<19.4	ug/kg	61.6	19.4	1	12/11/18 19:12	12/12/18 16:15	630-20-6	
1,1,1,2,2-Tetrachloroethane	<10.9	ug/kg	247	10.9	1	12/11/18 19:12	12/12/18 16:15	79-34-5	
Tetrachloroethene	<21.7	ug/kg	61.6	21.7	1	12/11/18 19:12	12/12/18 16:15	127-18-4	
Tetrahydrofuran	<89.6	ug/kg	2470	89.6	1	12/11/18 19:12	12/12/18 16:15	109-99-9	
Toluene	<15.0	ug/kg	61.6	15.0	1	12/11/18 19:12	12/12/18 16:15	108-88-3	
1,2,3-Trichlorobenzene	<9.8	ug/kg	61.6	9.8	1	12/11/18 19:12	12/12/18 16:15	87-61-6	
1,2,4-Trichlorobenzene	<13.7	ug/kg	61.6	13.7	1	12/11/18 19:12	12/12/18 16:15	120-82-1	
1,1,1-Trichloroethane	<28.7	ug/kg	61.6	28.7	1	12/11/18 19:12	12/12/18 16:15	71-55-6	
1,1,2-Trichloroethane	<7.4	ug/kg	61.6	7.4	1	12/11/18 19:12	12/12/18 16:15	79-00-5	
Trichloroethene	<9.5	ug/kg	61.6	9.5	1	12/11/18 19:12	12/12/18 16:15	79-01-6	
Trichlorofluoromethane	<107	ug/kg	247	107	1	12/11/18 19:12	12/12/18 16:15	75-69-4	
1,2,3-Trichloropropane	<16.1	ug/kg	247	16.1	1	12/11/18 19:12	12/12/18 16:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<71.5	ug/kg	247	71.5	1	12/11/18 19:12	12/12/18 16:15	76-13-1	
1,2,4-Trimethylbenzene	<12.3	ug/kg	61.6	12.3	1	12/11/18 19:12	12/12/18 16:15	95-63-6	
1,3,5-Trimethylbenzene	<9.8	ug/kg	61.6	9.8	1	12/11/18 19:12	12/12/18 16:15	108-67-8	
Vinyl chloride	<12.1	ug/kg	61.6	12.1	1	12/11/18 19:12	12/12/18 16:15	75-01-4	
Xylene (Total)	<14.3	ug/kg	185	14.3	1	12/11/18 19:12	12/12/18 16:15	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 16:15	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 16:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 16:15	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (3)**      **Lab ID: 10457121032**      Collected: 11/28/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.21	ug/kg	2.1	0.21	1	12/05/18 16:14	12/12/18 10:54	309-00-2	
alpha-BHC	<0.15	ug/kg	2.1	0.15	1	12/05/18 16:14	12/12/18 10:54	319-84-6	
beta-BHC	<0.28	ug/kg	2.1	0.28	1	12/05/18 16:14	12/12/18 10:54	319-85-7	
delta-BHC	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 10:54	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.1	0.18	1	12/05/18 16:14	12/12/18 10:54	58-89-9	
Chlordane (Technical)	<3.8	ug/kg	21.1	3.8	1	12/05/18 16:14	12/12/18 10:54	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.1	0.17	1	12/05/18 16:14	12/12/18 10:54	5103-71-9	
gamma-Chlordane	<0.49	ug/kg	2.1	0.49	1	12/05/18 16:14	12/12/18 10:54	5103-74-2	
4,4'-DDD	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 10:54	72-54-8	
4,4'-DDE	<0.31	ug/kg	4.2	0.31	1	12/05/18 16:14	12/12/18 10:54	72-55-9	
4,4'-DDT	<0.53	ug/kg	4.2	0.53	1	12/05/18 16:14	12/12/18 10:54	50-29-3	
Dieldrin	<0.41	ug/kg	4.2	0.41	1	12/05/18 16:14	12/12/18 10:54	60-57-1	
Endosulfan I	<0.19	ug/kg	2.1	0.19	1	12/05/18 16:14	12/12/18 10:54	959-98-8	
Endosulfan II	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 10:54	33213-65-9	
Endosulfan sulfate	<0.43	ug/kg	4.2	0.43	1	12/05/18 16:14	12/12/18 10:54	1031-07-8	
Endrin	<0.38	ug/kg	4.2	0.38	1	12/05/18 16:14	12/12/18 10:54	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.2	1.3	1	12/05/18 16:14	12/12/18 10:54	7421-93-4	
Endrin ketone	<0.50	ug/kg	4.2	0.50	1	12/05/18 16:14	12/12/18 10:54	53494-70-5	
Heptachlor	<0.23	ug/kg	2.1	0.23	1	12/05/18 16:14	12/12/18 10:54	76-44-8	
Heptachlor epoxide	<0.20	ug/kg	2.1	0.20	1	12/05/18 16:14	12/12/18 10:54	1024-57-3	
Methoxychlor	<3.2	ug/kg	21.1	3.2	1	12/05/18 16:14	12/12/18 10:54	72-43-5	
Toxaphene	<10.0	ug/kg	63.3	10.0	1	12/05/18 16:14	12/12/18 10:54	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	30-150		1	12/05/18 16:14	12/12/18 10:54	877-09-8	
Decachlorobiphenyl (S)	65	%	30-150		1	12/05/18 16:14	12/12/18 10:54	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.7	ug/kg	41.9	11.7	1	12/05/18 14:01	12/07/18 21:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.9	14.7	1	12/05/18 14:01	12/07/18 21:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.9	16.7	1	12/05/18 14:01	12/07/18 21:20	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.2	ug/kg	41.9	14.2	1	12/05/18 14:01	12/07/18 21:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.6	ug/kg	41.9	12.6	1	12/05/18 14:01	12/07/18 21:20	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.9	12.3	1	12/05/18 14:01	12/07/18 21:20	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.0	ug/kg	41.9	10.0	1	12/05/18 14:01	12/07/18 21:20	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	48-125		1	12/05/18 14:01	12/07/18 21:20	877-09-8	
Decachlorobiphenyl (S)	87	%	30-134		1	12/05/18 14:01	12/07/18 21:20	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.0	mg/kg	18.7	3.0	1	12/05/18 15:46	12/13/18 12:42	68334-30-5	
Motor Oil Range	<5.4	mg/kg	12.5	5.4	1	12/05/18 15:46	12/13/18 12:42		
<b>Surrogates</b>									
n-Triacontane (S)	98	%	50-150		1	12/05/18 15:46	12/13/18 12:42	638-68-6	
o-Terphenyl (S)	94	%	50-150		1	12/05/18 15:46	12/13/18 12:42	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (3)**      **Lab ID: 10457121032**      Collected: 11/28/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>1.3J</b>	mg/kg	7.1	0.93	1	12/11/18 12:55	12/12/18 04:28		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/11/18 12:55	12/12/18 04:28	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.47</b>	mg/kg	1.2	0.47	1	12/07/18 10:11	12/10/18 13:36	7440-36-0	
Arsenic	<b>1.4</b>	mg/kg	1.2	0.25	1	12/07/18 10:11	12/10/18 13:36	7440-38-2	
Beryllium	<b>0.52</b>	mg/kg	0.31	0.017	1	12/07/18 10:11	12/10/18 13:36	7440-41-7	
Cadmium	<b>0.048J</b>	mg/kg	0.19	0.025	1	12/07/18 10:11	12/10/18 13:36	7440-43-9	
Chromium	<b>6.3</b>	mg/kg	0.62	0.11	1	12/07/18 10:11	12/10/18 13:36	7440-47-3	
Copper	<b>14.1</b>	mg/kg	0.62	0.069	1	12/07/18 10:11	12/10/18 13:36	7440-50-8	
Lead	<b>3.3</b>	mg/kg	0.62	0.14	1	12/07/18 10:11	12/10/18 13:36	7439-92-1	
Nickel	<b>5.1</b>	mg/kg	1.2	0.078	1	12/07/18 10:11	12/10/18 13:36	7440-02-0	
Selenium	<b>&lt;0.41</b>	mg/kg	1.2	0.41	1	12/07/18 10:11	12/10/18 13:36	7782-49-2	
Silver	<b>&lt;0.045</b>	mg/kg	0.62	0.045	1	12/07/18 10:11	12/10/18 13:36	7440-22-4	
Thallium	<b>&lt;0.29</b>	mg/kg	1.2	0.29	1	12/07/18 10:11	12/10/18 13:36	7440-28-0	
Zinc	<b>48.6</b>	mg/kg	1.2	0.54	1	12/07/18 10:11	12/10/18 13:36	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.0093</b>	mg/kg	0.023	0.0093	1	12/07/18 10:13	12/11/18 12:36	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>21.2</b>	%	0.10	0.10	1		12/12/18 12:04		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;44.3</b>	ug/kg	415	44.3	1	12/04/18 17:03	12/07/18 20:47	83-32-9	
Acenaphthylene	<b>&lt;52.9</b>	ug/kg	415	52.9	1	12/04/18 17:03	12/07/18 20:47	208-96-8	
Anthracene	<b>&lt;48.7</b>	ug/kg	415	48.7	1	12/04/18 17:03	12/07/18 20:47	120-12-7	
Benzo(a)anthracene	<b>&lt;42.6</b>	ug/kg	415	42.6	1	12/04/18 17:03	12/07/18 20:47	56-55-3	
Benzo(a)pyrene	<b>&lt;47.0</b>	ug/kg	415	47.0	1	12/04/18 17:03	12/07/18 20:47	50-32-8	
Benzo(b)fluoranthene	<b>&lt;40.6</b>	ug/kg	415	40.6	1	12/04/18 17:03	12/07/18 20:47	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;44.4</b>	ug/kg	415	44.4	1	12/04/18 17:03	12/07/18 20:47	191-24-2	
Benzo(k)fluoranthene	<b>&lt;51.8</b>	ug/kg	415	51.8	1	12/04/18 17:03	12/07/18 20:47	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;49.4</b>	ug/kg	415	49.4	1	12/04/18 17:03	12/07/18 20:47	101-55-3	
Butylbenzylphthalate	<b>&lt;38.0</b>	ug/kg	415	38.0	1	12/04/18 17:03	12/07/18 20:47	85-68-7	
Carbazole	<b>&lt;34.5</b>	ug/kg	415	34.5	1	12/04/18 17:03	12/07/18 20:47	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;66.4</b>	ug/kg	415	66.4	1	12/04/18 17:03	12/07/18 20:47	59-50-7	
4-Chloroaniline	<b>&lt;111</b>	ug/kg	415	111	1	12/04/18 17:03	12/07/18 20:47	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;42.5</b>	ug/kg	415	42.5	1	12/04/18 17:03	12/07/18 20:47	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;32.8</b>	ug/kg	415	32.8	1	12/04/18 17:03	12/07/18 20:47	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;42.8</b>	ug/kg	415	42.8	1	12/04/18 17:03	12/07/18 20:47	108-60-1	
2-Chloronaphthalene	<b>&lt;36.7</b>	ug/kg	415	36.7	1	12/04/18 17:03	12/07/18 20:47	91-58-7	
2-Chlorophenol	<b>&lt;47.3</b>	ug/kg	415	47.3	1	12/04/18 17:03	12/07/18 20:47	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;51.4</b>	ug/kg	415	51.4	1	12/04/18 17:03	12/07/18 20:47	7005-72-3	
Chrysene	<b>&lt;43.8</b>	ug/kg	415	43.8	1	12/04/18 17:03	12/07/18 20:47	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (3)**      **Lab ID: 10457121032**      Collected: 11/28/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<44.1	ug/kg	415	44.1	1	12/04/18 17:03	12/07/18 20:47	53-70-3	
Dibenzofuran	<52.6	ug/kg	415	52.6	1	12/04/18 17:03	12/07/18 20:47	132-64-9	
1,2-Dichlorobenzene	<43.5	ug/kg	415	43.5	1	12/04/18 17:03	12/07/18 20:47	95-50-1	
1,3-Dichlorobenzene	<28.4	ug/kg	415	28.4	1	12/04/18 17:03	12/07/18 20:47	541-73-1	
1,4-Dichlorobenzene	<46.1	ug/kg	415	46.1	1	12/04/18 17:03	12/07/18 20:47	106-46-7	
3,3'-Dichlorobenzidine	<139	ug/kg	415	139	1	12/04/18 17:03	12/07/18 20:47	91-94-1	
2,4-Dichlorophenol	<69.3	ug/kg	415	69.3	1	12/04/18 17:03	12/07/18 20:47	120-83-2	
Diethylphthalate	<37.0	ug/kg	415	37.0	1	12/04/18 17:03	12/07/18 20:47	84-66-2	
2,4-Dimethylphenol	<162	ug/kg	415	162	1	12/04/18 17:03	12/07/18 20:47	105-67-9	
Dimethylphthalate	<56.3	ug/kg	415	56.3	1	12/04/18 17:03	12/07/18 20:47	131-11-3	
Di-n-butylphthalate	<56.8	ug/kg	415	56.8	1	12/04/18 17:03	12/07/18 20:47	84-74-2	
4,6-Dinitro-2-methylphenol	<411	ug/kg	2140	411	1	12/04/18 17:03	12/07/18 20:47	534-52-1	
2,4-Dinitrophenol	<194	ug/kg	415	194	1	12/04/18 17:03	12/07/18 20:47	51-28-5	
2,4-Dinitrotoluene	<52.8	ug/kg	415	52.8	1	12/04/18 17:03	12/07/18 20:47	121-14-2	
2,6-Dinitrotoluene	<55.0	ug/kg	415	55.0	1	12/04/18 17:03	12/07/18 20:47	606-20-2	
Di-n-octylphthalate	<48.2	ug/kg	415	48.2	1	12/04/18 17:03	12/07/18 20:47	117-84-0	
1,2-Diphenylhydrazine	<50.9	ug/kg	415	50.9	1	12/04/18 17:03	12/07/18 20:47	122-66-7	
bis(2-Ethylhexyl)phthalate	<86.5	ug/kg	415	86.5	1	12/04/18 17:03	12/07/18 20:47	117-81-7	
Fluoranthene	<47.7	ug/kg	415	47.7	1	12/04/18 17:03	12/07/18 20:47	206-44-0	
Fluorene	<190	ug/kg	415	190	1	12/04/18 17:03	12/07/18 20:47	86-73-7	
Hexachloro-1,3-butadiene	<63.1	ug/kg	415	63.1	1	12/04/18 17:03	12/07/18 20:47	87-68-3	
Hexachlorobenzene	<67.7	ug/kg	415	67.7	1	12/04/18 17:03	12/07/18 20:47	118-74-1	
Hexachloroethane	<53.9	ug/kg	415	53.9	1	12/04/18 17:03	12/07/18 20:47	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.0	ug/kg	415	25.0	1	12/04/18 17:03	12/07/18 20:47	193-39-5	
Isophorone	<31.9	ug/kg	415	31.9	1	12/04/18 17:03	12/07/18 20:47	78-59-1	
1-Methylnaphthalene	<38.4	ug/kg	415	38.4	1	12/04/18 17:03	12/07/18 20:47	90-12-0	
2-Methylnaphthalene	<37.5	ug/kg	415	37.5	1	12/04/18 17:03	12/07/18 20:47	91-57-6	
2-Methylphenol(o-Cresol)	<25.9	ug/kg	415	25.9	1	12/04/18 17:03	12/07/18 20:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.4	ug/kg	830	23.4	1	12/04/18 17:03	12/07/18 20:47		
Naphthalene	<31.9	ug/kg	415	31.9	1	12/04/18 17:03	12/07/18 20:47	91-20-3	
2-Nitroaniline	<104	ug/kg	415	104	1	12/04/18 17:03	12/07/18 20:47	88-74-4	
3-Nitroaniline	<45.3	ug/kg	415	45.3	1	12/04/18 17:03	12/07/18 20:47	99-09-2	
4-Nitroaniline	<60.6	ug/kg	415	60.6	1	12/04/18 17:03	12/07/18 20:47	100-01-6	
Nitrobenzene	<45.6	ug/kg	415	45.6	1	12/04/18 17:03	12/07/18 20:47	98-95-3	
2-Nitrophenol	<50.6	ug/kg	415	50.6	1	12/04/18 17:03	12/07/18 20:47	88-75-5	
4-Nitrophenol	<80.5	ug/kg	415	80.5	1	12/04/18 17:03	12/07/18 20:47	100-02-7	
N-Nitrosodimethylamine	<50.9	ug/kg	415	50.9	1	12/04/18 17:03	12/07/18 20:47	62-75-9	
N-Nitroso-di-n-propylamine	<190	ug/kg	415	190	1	12/04/18 17:03	12/07/18 20:47	621-64-7	
N-Nitrosodiphenylamine	<26.9	ug/kg	415	26.9	1	12/04/18 17:03	12/07/18 20:47	86-30-6	
Pentachlorophenol	<243	ug/kg	843	243	1	12/04/18 17:03	12/07/18 20:47	87-86-5	
Phenanthrene	<48.3	ug/kg	415	48.3	1	12/04/18 17:03	12/07/18 20:47	85-01-8	
Phenol	<27.2	ug/kg	415	27.2	1	12/04/18 17:03	12/07/18 20:47	108-95-2	
Pyrene	<31.6	ug/kg	415	31.6	1	12/04/18 17:03	12/07/18 20:47	129-00-0	
1,2,4-Trichlorobenzene	<45.5	ug/kg	415	45.5	1	12/04/18 17:03	12/07/18 20:47	120-82-1	
2,4,5-Trichlorophenol	<53.4	ug/kg	415	53.4	1	12/04/18 17:03	12/07/18 20:47	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (3)**      **Lab ID: 10457121032**      Collected: 11/28/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<64.3	ug/kg	415	64.3	1	12/04/18 17:03	12/07/18 20:47	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	70	%	43-125		1	12/04/18 17:03	12/07/18 20:47	4165-60-0	
2-Fluorobiphenyl (S)	66	%	30-132		1	12/04/18 17:03	12/07/18 20:47	321-60-8	
p-Terphenyl-d14 (S)	85	%	62-125		1	12/04/18 17:03	12/07/18 20:47	1718-51-0	
Phenol-d6 (S)	73	%	48-125		1	12/04/18 17:03	12/07/18 20:47	13127-88-3	
2-Fluorophenol (S)	72	%	40-125		1	12/04/18 17:03	12/07/18 20:47	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/04/18 17:03	12/07/18 20:47	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 19:38	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.1	4.4	1	03/05/19 10:30	03/05/19 19:38	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	03/05/19 10:30	03/05/19 19:38	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 19:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	03/05/19 10:30	03/05/19 19:38	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<22.1	ug/kg	70.4	22.1	1	12/11/18 19:12	12/12/18 16:33	630-20-6	
1,1,1-Trichloroethane	<32.8	ug/kg	70.4	32.8	1	12/11/18 19:12	12/12/18 16:33	71-55-6	
1,1,2,2-Tetrachloroethane	<12.4	ug/kg	282	12.4	1	12/11/18 19:12	12/12/18 16:33	79-34-5	
1,1,2-Trichloroethane	<8.4	ug/kg	70.4	8.4	1	12/11/18 19:12	12/12/18 16:33	79-00-5	
1,1,2-Trichlorotrifluoroethane	<81.6	ug/kg	282	81.6	1	12/11/18 19:12	12/12/18 16:33	76-13-1	
1,1-Dichloroethane	<7.9	ug/kg	70.4	7.9	1	12/11/18 19:12	12/12/18 16:33	75-34-3	
1,1-Dichloroethene	<21.1	ug/kg	282	21.1	1	12/11/18 19:12	12/12/18 16:33	75-35-4	
1,1-Dichloropropene	<32.5	ug/kg	70.4	32.5	1	12/11/18 19:12	12/12/18 16:33	563-58-6	
1,2,3-Trichlorobenzene	<11.2	ug/kg	70.4	11.2	1	12/11/18 19:12	12/12/18 16:33	87-61-6	
1,2,3-Trichloropropane	<18.4	ug/kg	282	18.4	1	12/11/18 19:12	12/12/18 16:33	96-18-4	
1,2,4-Trichlorobenzene	<15.6	ug/kg	70.4	15.6	1	12/11/18 19:12	12/12/18 16:33	120-82-1	
1,2,4-Trimethylbenzene	<14.1	ug/kg	70.4	14.1	1	12/11/18 19:12	12/12/18 16:33	95-63-6	
1,2-Dibromo-3-chloropropane	<245	ug/kg	704	245	1	12/11/18 19:12	12/12/18 16:33	96-12-8	
1,2-Dibromoethane (EDB)	<7.4	ug/kg	70.4	7.4	1	12/11/18 19:12	12/12/18 16:33	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/kg	70.4	2.8	1	12/11/18 19:12	12/12/18 16:33	95-50-1	
1,2-Dichloroethane	<7.7	ug/kg	70.4	7.7	1	12/11/18 19:12	12/12/18 16:33	107-06-2	
1,2-Dichloropropane	<12.1	ug/kg	70.4	12.1	1	12/11/18 19:12	12/12/18 16:33	78-87-5	
1,3,5-Trimethylbenzene	<11.2	ug/kg	70.4	11.2	1	12/11/18 19:12	12/12/18 16:33	108-67-8	
1,3-Dichlorobenzene	<2.6	ug/kg	70.4	2.6	1	12/11/18 19:12	12/12/18 16:33	541-73-1	
1,3-Dichloropropane	<9.7	ug/kg	70.4	9.7	1	12/11/18 19:12	12/12/18 16:33	142-28-9	
1,4-Dichlorobenzene	<4.4	ug/kg	70.4	4.4	1	12/11/18 19:12	12/12/18 16:33	106-46-7	
2,2-Dichloropropane	<8.8	ug/kg	282	8.8	1	12/11/18 19:12	12/12/18 16:33	594-20-7	
2-Butanone (MEK)	<37.4	ug/kg	352	37.4	1	12/11/18 19:12	12/12/18 16:33	78-93-3	
2-Chlorotoluene	<3.5	ug/kg	70.4	3.5	1	12/11/18 19:12	12/12/18 16:33	95-49-8	
4-Chlorotoluene	<3.6	ug/kg	70.4	3.6	1	12/11/18 19:12	12/12/18 16:33	106-43-4	
4-Methyl-2-pentanone (MIBK)	<14.6	ug/kg	352	14.6	1	12/11/18 19:12	12/12/18 16:33	108-10-1	
Acetone	874J	ug/kg	1410	438	1	12/11/18 19:12	12/12/18 16:33	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (3)**      **Lab ID: 10457121032**      Collected: 11/28/18 13:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<59.0	ug/kg	282	59.0	1	12/11/18 19:12	12/12/18 16:33	107-05-1	
Benzene	<4.0	ug/kg	28.2	4.0	1	12/11/18 19:12	12/12/18 16:33	71-43-2	
Bromobenzene	<4.3	ug/kg	70.4	4.3	1	12/11/18 19:12	12/12/18 16:33	108-86-1	
Bromochloromethane	<24.4	ug/kg	70.4	24.4	1	12/11/18 19:12	12/12/18 16:33	74-97-5	
Bromodichloromethane	<24.1	ug/kg	70.4	24.1	1	12/11/18 19:12	12/12/18 16:33	75-27-4	
Bromoform	<107	ug/kg	282	107	1	12/11/18 19:12	12/12/18 16:33	75-25-2	
Bromomethane	<82.4	ug/kg	704	82.4	1	12/11/18 19:12	12/12/18 16:33	74-83-9	
Carbon tetrachloride	<33.6	ug/kg	70.4	33.6	1	12/11/18 19:12	12/12/18 16:33	56-23-5	
Chlorobenzene	<4.0	ug/kg	70.4	4.0	1	12/11/18 19:12	12/12/18 16:33	108-90-7	
Chloroethane	<36.6	ug/kg	704	36.6	1	12/11/18 19:12	12/12/18 16:33	75-00-3	L2
Chloroform	<35.2	ug/kg	70.4	35.2	1	12/11/18 19:12	12/12/18 16:33	67-66-3	
Chloromethane	<16.9	ug/kg	282	16.9	1	12/11/18 19:12	12/12/18 16:33	74-87-3	
Dibromochloromethane	<8.2	ug/kg	282	8.2	1	12/11/18 19:12	12/12/18 16:33	124-48-1	
Dibromomethane	<12.9	ug/kg	70.4	12.9	1	12/11/18 19:12	12/12/18 16:33	74-95-3	
Dichlorodifluoromethane	<22.8	ug/kg	282	22.8	1	12/11/18 19:12	12/12/18 16:33	75-71-8	
Dichlorofluoromethane	<97.3	ug/kg	704	97.3	1	12/11/18 19:12	12/12/18 16:33	75-43-4	N2
Diethyl ether (Ethyl ether)	<43.1	ug/kg	282	43.1	1	12/11/18 19:12	12/12/18 16:33	60-29-7	
Ethylbenzene	<3.8	ug/kg	70.4	3.8	1	12/11/18 19:12	12/12/18 16:33	100-41-4	
Hexachloro-1,3-butadiene	<17.2	ug/kg	352	17.2	1	12/11/18 19:12	12/12/18 16:33	87-68-3	
Isopropylbenzene (Cumene)	<3.1	ug/kg	70.4	3.1	1	12/11/18 19:12	12/12/18 16:33	98-82-8	
Methyl-tert-butyl ether	<8.4	ug/kg	70.4	8.4	1	12/11/18 19:12	12/12/18 16:33	1634-04-4	
Methylene Chloride	<132	ug/kg	282	132	1	12/11/18 19:12	12/12/18 16:33	75-09-2	
Naphthalene	<65.9	ug/kg	282	65.9	1	12/11/18 19:12	12/12/18 16:33	91-20-3	
Styrene	<3.2	ug/kg	70.4	3.2	1	12/11/18 19:12	12/12/18 16:33	100-42-5	
Tetrachloroethene	<24.8	ug/kg	70.4	24.8	1	12/11/18 19:12	12/12/18 16:33	127-18-4	
Tetrahydrofuran	<102	ug/kg	2820	102	1	12/11/18 19:12	12/12/18 16:33	109-99-9	
Toluene	<17.2	ug/kg	70.4	17.2	1	12/11/18 19:12	12/12/18 16:33	108-88-3	
Trichloroethene	<10.9	ug/kg	70.4	10.9	1	12/11/18 19:12	12/12/18 16:33	79-01-6	
Trichlorofluoromethane	<123	ug/kg	282	123	1	12/11/18 19:12	12/12/18 16:33	75-69-4	
Vinyl chloride	<13.9	ug/kg	70.4	13.9	1	12/11/18 19:12	12/12/18 16:33	75-01-4	
Xylene (Total)	<16.3	ug/kg	211	16.3	1	12/11/18 19:12	12/12/18 16:33	1330-20-7	
cis-1,2-Dichloroethene	<11.7	ug/kg	70.4	11.7	1	12/11/18 19:12	12/12/18 16:33	156-59-2	
cis-1,3-Dichloropropene	<10.1	ug/kg	70.4	10.1	1	12/11/18 19:12	12/12/18 16:33	10061-01-5	
n-Butylbenzene	<33.5	ug/kg	70.4	33.5	1	12/11/18 19:12	12/12/18 16:33	104-51-8	
n-Propylbenzene	<3.8	ug/kg	70.4	3.8	1	12/11/18 19:12	12/12/18 16:33	103-65-1	
p-Isopropyltoluene	<21.4	ug/kg	70.4	21.4	1	12/11/18 19:12	12/12/18 16:33	99-87-6	
sec-Butylbenzene	<13.5	ug/kg	70.4	13.5	1	12/11/18 19:12	12/12/18 16:33	135-98-8	
tert-Butylbenzene	<13.5	ug/kg	70.4	13.5	1	12/11/18 19:12	12/12/18 16:33	98-06-6	
trans-1,2-Dichloroethene	<32.9	ug/kg	70.4	32.9	1	12/11/18 19:12	12/12/18 16:33	156-60-5	
trans-1,3-Dichloropropene	<9.8	ug/kg	70.4	9.8	1	12/11/18 19:12	12/12/18 16:33	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 16:33	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 16:33	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 16:33	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (6)**      **Lab ID: 10457121033**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.20	ug/kg	2.0	0.20	1	12/05/18 16:14	12/12/18 11:12	309-00-2	
alpha-BHC	<0.14	ug/kg	2.0	0.14	1	12/05/18 16:14	12/12/18 11:12	319-84-6	
beta-BHC	<0.26	ug/kg	2.0	0.26	1	12/05/18 16:14	12/12/18 11:12	319-85-7	
delta-BHC	<0.16	ug/kg	2.0	0.16	1	12/05/18 16:14	12/12/18 11:12	319-86-8	
gamma-BHC (Lindane)	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 11:12	58-89-9	
Chlordane (Technical)	<3.6	ug/kg	19.5	3.6	1	12/05/18 16:14	12/12/18 11:12	57-74-9	
alpha-Chlordane	<0.16	ug/kg	2.0	0.16	1	12/05/18 16:14	12/12/18 11:12	5103-71-9	
gamma-Chlordane	<0.45	ug/kg	2.0	0.45	1	12/05/18 16:14	12/12/18 11:12	5103-74-2	
4,4'-DDD	<0.35	ug/kg	3.9	0.35	1	12/05/18 16:14	12/12/18 11:12	72-54-8	
4,4'-DDE	<0.29	ug/kg	3.9	0.29	1	12/05/18 16:14	12/12/18 11:12	72-55-9	
4,4'-DDT	<0.49	ug/kg	3.9	0.49	1	12/05/18 16:14	12/12/18 11:12	50-29-3	
Dieldrin	<0.38	ug/kg	3.9	0.38	1	12/05/18 16:14	12/12/18 11:12	60-57-1	
Endosulfan I	<0.18	ug/kg	2.0	0.18	1	12/05/18 16:14	12/12/18 11:12	959-98-8	
Endosulfan II	<0.39	ug/kg	3.9	0.39	1	12/05/18 16:14	12/12/18 11:12	33213-65-9	
Endosulfan sulfate	<0.40	ug/kg	3.9	0.40	1	12/05/18 16:14	12/12/18 11:12	1031-07-8	
Endrin	<0.35	ug/kg	3.9	0.35	1	12/05/18 16:14	12/12/18 11:12	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.9	1.2	1	12/05/18 16:14	12/12/18 11:12	7421-93-4	
Endrin ketone	<0.46	ug/kg	3.9	0.46	1	12/05/18 16:14	12/12/18 11:12	53494-70-5	
Heptachlor	<0.21	ug/kg	2.0	0.21	1	12/05/18 16:14	12/12/18 11:12	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	2.0	0.18	1	12/05/18 16:14	12/12/18 11:12	1024-57-3	
Methoxychlor	<2.9	ug/kg	19.5	2.9	1	12/05/18 16:14	12/12/18 11:12	72-43-5	
Toxaphene	<9.2	ug/kg	58.4	9.2	1	12/05/18 16:14	12/12/18 11:12	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	95	%	30-150		1	12/05/18 16:14	12/12/18 11:12	877-09-8	
Decachlorobiphenyl (S)	81	%	30-150		1	12/05/18 16:14	12/12/18 11:12	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.7	ug/kg	38.5	10.7	1	12/05/18 14:01	12/07/18 21:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.5	ug/kg	38.5	13.5	1	12/05/18 14:01	12/07/18 21:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.4	ug/kg	38.5	15.4	1	12/05/18 14:01	12/07/18 21:36	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.1	ug/kg	38.5	13.1	1	12/05/18 14:01	12/07/18 21:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.6	ug/kg	38.5	11.6	1	12/05/18 14:01	12/07/18 21:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.3	ug/kg	38.5	11.3	1	12/05/18 14:01	12/07/18 21:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.2	ug/kg	38.5	9.2	1	12/05/18 14:01	12/07/18 21:36	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	48-125		1	12/05/18 14:01	12/07/18 21:36	877-09-8	
Decachlorobiphenyl (S)	91	%	30-134		1	12/05/18 14:01	12/07/18 21:36	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.9	mg/kg	17.6	2.9	1	12/05/18 15:46	12/13/18 13:05	68334-30-5	
Motor Oil Range	<5.1	mg/kg	11.7	5.1	1	12/05/18 15:46	12/13/18 13:05		
<b>Surrogates</b>									
n-Triacontane (S)	101	%	50-150		1	12/05/18 15:46	12/13/18 13:05	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/05/18 15:46	12/13/18 13:05	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (6)**      **Lab ID: 10457121033**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.85	mg/kg	6.5	0.85	1	12/11/18 12:55	12/12/18 04:45		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/11/18 12:55	12/12/18 04:45	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.0	mg/kg	5.4	2.0	5	12/07/18 10:11	12/11/18 11:59	7440-36-0	D3
Arsenic	3.4J	mg/kg	5.4	1.1	5	12/07/18 10:11	12/11/18 11:59	7440-38-2	D3
Beryllium	0.94J	mg/kg	1.4	0.073	5	12/07/18 10:11	12/11/18 11:59	7440-41-7	D3
Cadmium	<0.11	mg/kg	0.82	0.11	5	12/07/18 10:11	12/11/18 11:59	7440-43-9	D3
Chromium	12.6	mg/kg	2.7	0.47	5	12/07/18 10:11	12/11/18 11:59	7440-47-3	
Copper	16.7	mg/kg	2.7	0.30	5	12/07/18 10:11	12/11/18 11:59	7440-50-8	
Lead	6.6	mg/kg	2.7	0.61	5	12/07/18 10:11	12/11/18 11:59	7439-92-1	
Nickel	9.2	mg/kg	5.4	0.34	5	12/07/18 10:11	12/11/18 11:59	7440-02-0	
Selenium	<1.8	mg/kg	5.4	1.8	5	12/07/18 10:11	12/11/18 11:59	7782-49-2	D3
Silver	<0.20	mg/kg	2.7	0.20	5	12/07/18 10:11	12/11/18 11:59	7440-22-4	D3
Thallium	<1.3	mg/kg	5.4	1.3	5	12/07/18 10:11	12/11/18 11:59	7440-28-0	D3
Zinc	71.3	mg/kg	5.4	2.4	5	12/07/18 10:11	12/11/18 11:59	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0089	mg/kg	0.022	0.0089	1	12/07/18 10:13	12/11/18 12:42	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.8	%	0.10	0.10	1		12/12/18 12:45		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<40.9	ug/kg	384	40.9	1	12/04/18 17:03	12/07/18 21:16	83-32-9	
Acenaphthylene	<49.0	ug/kg	384	49.0	1	12/04/18 17:03	12/07/18 21:16	208-96-8	
Anthracene	<45.0	ug/kg	384	45.0	1	12/04/18 17:03	12/07/18 21:16	120-12-7	
Benzo(a)anthracene	<39.4	ug/kg	384	39.4	1	12/04/18 17:03	12/07/18 21:16	56-55-3	
Benzo(a)pyrene	<43.5	ug/kg	384	43.5	1	12/04/18 17:03	12/07/18 21:16	50-32-8	
Benzo(b)fluoranthene	<37.6	ug/kg	384	37.6	1	12/04/18 17:03	12/07/18 21:16	205-99-2	
Benzo(g,h,i)perylene	<41.1	ug/kg	384	41.1	1	12/04/18 17:03	12/07/18 21:16	191-24-2	
Benzo(k)fluoranthene	<47.9	ug/kg	384	47.9	1	12/04/18 17:03	12/07/18 21:16	207-08-9	
4-Bromophenylphenyl ether	<45.7	ug/kg	384	45.7	1	12/04/18 17:03	12/07/18 21:16	101-55-3	
Butylbenzylphthalate	<35.1	ug/kg	384	35.1	1	12/04/18 17:03	12/07/18 21:16	85-68-7	
Carbazole	<31.9	ug/kg	384	31.9	1	12/04/18 17:03	12/07/18 21:16	86-74-8	
4-Chloro-3-methylphenol	<61.4	ug/kg	384	61.4	1	12/04/18 17:03	12/07/18 21:16	59-50-7	
4-Chloroaniline	<102	ug/kg	384	102	1	12/04/18 17:03	12/07/18 21:16	106-47-8	
bis(2-Chloroethoxy)methane	<39.3	ug/kg	384	39.3	1	12/04/18 17:03	12/07/18 21:16	111-91-1	
bis(2-Chloroethyl) ether	<30.4	ug/kg	384	30.4	1	12/04/18 17:03	12/07/18 21:16	111-44-4	
bis(2-Chloroisopropyl) ether	<39.5	ug/kg	384	39.5	1	12/04/18 17:03	12/07/18 21:16	108-60-1	
2-Chloronaphthalene	<34.0	ug/kg	384	34.0	1	12/04/18 17:03	12/07/18 21:16	91-58-7	
2-Chlorophenol	<43.7	ug/kg	384	43.7	1	12/04/18 17:03	12/07/18 21:16	95-57-8	
4-Chlorophenylphenyl ether	<47.6	ug/kg	384	47.6	1	12/04/18 17:03	12/07/18 21:16	7005-72-3	
Chrysene	<40.5	ug/kg	384	40.5	1	12/04/18 17:03	12/07/18 21:16	218-01-9	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (6)**      **Lab ID: 10457121033**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<40.8	ug/kg	384	40.8	1	12/04/18 17:03	12/07/18 21:16	53-70-3	
Dibenzofuran	<48.6	ug/kg	384	48.6	1	12/04/18 17:03	12/07/18 21:16	132-64-9	
1,2-Dichlorobenzene	<40.2	ug/kg	384	40.2	1	12/04/18 17:03	12/07/18 21:16	95-50-1	
1,3-Dichlorobenzene	<26.3	ug/kg	384	26.3	1	12/04/18 17:03	12/07/18 21:16	541-73-1	
1,4-Dichlorobenzene	<42.7	ug/kg	384	42.7	1	12/04/18 17:03	12/07/18 21:16	106-46-7	
3,3'-Dichlorobenzidine	<129	ug/kg	384	129	1	12/04/18 17:03	12/07/18 21:16	91-94-1	
2,4-Dichlorophenol	<64.1	ug/kg	384	64.1	1	12/04/18 17:03	12/07/18 21:16	120-83-2	
Diethylphthalate	<34.2	ug/kg	384	34.2	1	12/04/18 17:03	12/07/18 21:16	84-66-2	
2,4-Dimethylphenol	<150	ug/kg	384	150	1	12/04/18 17:03	12/07/18 21:16	105-67-9	
Dimethylphthalate	<52.1	ug/kg	384	52.1	1	12/04/18 17:03	12/07/18 21:16	131-11-3	
Di-n-butylphthalate	<52.6	ug/kg	384	52.6	1	12/04/18 17:03	12/07/18 21:16	84-74-2	
4,6-Dinitro-2-methylphenol	<380	ug/kg	1980	380	1	12/04/18 17:03	12/07/18 21:16	534-52-1	
2,4-Dinitrophenol	<179	ug/kg	384	179	1	12/04/18 17:03	12/07/18 21:16	51-28-5	
2,4-Dinitrotoluene	<48.8	ug/kg	384	48.8	1	12/04/18 17:03	12/07/18 21:16	121-14-2	
2,6-Dinitrotoluene	<50.8	ug/kg	384	50.8	1	12/04/18 17:03	12/07/18 21:16	606-20-2	
Di-n-octylphthalate	<44.5	ug/kg	384	44.5	1	12/04/18 17:03	12/07/18 21:16	117-84-0	
1,2-Diphenylhydrazine	<47.1	ug/kg	384	47.1	1	12/04/18 17:03	12/07/18 21:16	122-66-7	
bis(2-Ethylhexyl)phthalate	<80.0	ug/kg	384	80.0	1	12/04/18 17:03	12/07/18 21:16	117-81-7	
Fluoranthene	<44.1	ug/kg	384	44.1	1	12/04/18 17:03	12/07/18 21:16	206-44-0	
Fluorene	<176	ug/kg	384	176	1	12/04/18 17:03	12/07/18 21:16	86-73-7	
Hexachloro-1,3-butadiene	<58.4	ug/kg	384	58.4	1	12/04/18 17:03	12/07/18 21:16	87-68-3	
Hexachlorobenzene	<62.6	ug/kg	384	62.6	1	12/04/18 17:03	12/07/18 21:16	118-74-1	
Hexachloroethane	<49.9	ug/kg	384	49.9	1	12/04/18 17:03	12/07/18 21:16	67-72-1	
Indeno(1,2,3-cd)pyrene	<23.1	ug/kg	384	23.1	1	12/04/18 17:03	12/07/18 21:16	193-39-5	
Isophorone	<29.5	ug/kg	384	29.5	1	12/04/18 17:03	12/07/18 21:16	78-59-1	
1-Methylnaphthalene	<35.5	ug/kg	384	35.5	1	12/04/18 17:03	12/07/18 21:16	90-12-0	
2-Methylnaphthalene	<34.7	ug/kg	384	34.7	1	12/04/18 17:03	12/07/18 21:16	91-57-6	
2-Methylphenol(o-Cresol)	<24.0	ug/kg	384	24.0	1	12/04/18 17:03	12/07/18 21:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	<21.6	ug/kg	768	21.6	1	12/04/18 17:03	12/07/18 21:16		
Naphthalene	<29.5	ug/kg	384	29.5	1	12/04/18 17:03	12/07/18 21:16	91-20-3	
2-Nitroaniline	<96.3	ug/kg	384	96.3	1	12/04/18 17:03	12/07/18 21:16	88-74-4	
3-Nitroaniline	<41.9	ug/kg	384	41.9	1	12/04/18 17:03	12/07/18 21:16	99-09-2	
4-Nitroaniline	<56.1	ug/kg	384	56.1	1	12/04/18 17:03	12/07/18 21:16	100-01-6	
Nitrobenzene	<42.2	ug/kg	384	42.2	1	12/04/18 17:03	12/07/18 21:16	98-95-3	
2-Nitrophenol	<46.7	ug/kg	384	46.7	1	12/04/18 17:03	12/07/18 21:16	88-75-5	
4-Nitrophenol	<74.4	ug/kg	384	74.4	1	12/04/18 17:03	12/07/18 21:16	100-02-7	
N-Nitrosodimethylamine	<47.1	ug/kg	384	47.1	1	12/04/18 17:03	12/07/18 21:16	62-75-9	
N-Nitroso-di-n-propylamine	<176	ug/kg	384	176	1	12/04/18 17:03	12/07/18 21:16	621-64-7	
N-Nitrosodiphenylamine	<24.9	ug/kg	384	24.9	1	12/04/18 17:03	12/07/18 21:16	86-30-6	
Pentachlorophenol	<224	ug/kg	779	224	1	12/04/18 17:03	12/07/18 21:16	87-86-5	
Phenanthrene	<44.7	ug/kg	384	44.7	1	12/04/18 17:03	12/07/18 21:16	85-01-8	
Phenol	<25.1	ug/kg	384	25.1	1	12/04/18 17:03	12/07/18 21:16	108-95-2	
Pyrene	<29.2	ug/kg	384	29.2	1	12/04/18 17:03	12/07/18 21:16	129-00-0	
1,2,4-Trichlorobenzene	<42.1	ug/kg	384	42.1	1	12/04/18 17:03	12/07/18 21:16	120-82-1	
2,4,5-Trichlorophenol	<49.4	ug/kg	384	49.4	1	12/04/18 17:03	12/07/18 21:16	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (6)**      **Lab ID: 10457121033**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<59.4	ug/kg	384	59.4	1	12/04/18 17:03	12/07/18 21:16	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	67	%	43-125		1	12/04/18 17:03	12/07/18 21:16	4165-60-0	
2-Fluorobiphenyl (S)	67	%	30-132		1	12/04/18 17:03	12/07/18 21:16	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 21:16	1718-51-0	
Phenol-d6 (S)	73	%	48-125		1	12/04/18 17:03	12/07/18 21:16	13127-88-3	
2-Fluorophenol (S)	72	%	40-125		1	12/04/18 17:03	12/07/18 21:16	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/04/18 17:03	12/07/18 21:16	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.26	ug/kg	4.5	0.26	1	03/05/19 10:30	03/05/19 19:57	106-93-4	
Methylene Chloride	<4.2	ug/kg	22.7	4.2	1	03/05/19 10:30	03/05/19 19:57	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	03/05/19 10:30	03/05/19 19:57	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 19:57	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	03/05/19 10:30	03/05/19 19:57	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<19.1	ug/kg	60.8	19.1	1	12/11/18 19:12	12/12/18 16:52	630-20-6	
1,1,1-Trichloroethane	<28.3	ug/kg	60.8	28.3	1	12/11/18 19:12	12/12/18 16:52	71-55-6	
1,1,2,2-Tetrachloroethane	<10.7	ug/kg	243	10.7	1	12/11/18 19:12	12/12/18 16:52	79-34-5	
1,1,2-Trichloroethane	<7.3	ug/kg	60.8	7.3	1	12/11/18 19:12	12/12/18 16:52	79-00-5	
1,1,2-Trichlorotrifluoroethane	<70.5	ug/kg	243	70.5	1	12/11/18 19:12	12/12/18 16:52	76-13-1	
1,1-Dichloroethane	<6.8	ug/kg	60.8	6.8	1	12/11/18 19:12	12/12/18 16:52	75-34-3	
1,1-Dichloroethene	<18.2	ug/kg	243	18.2	1	12/11/18 19:12	12/12/18 16:52	75-35-4	
1,1-Dichloropropene	<28.1	ug/kg	60.8	28.1	1	12/11/18 19:12	12/12/18 16:52	563-58-6	
1,2,3-Trichlorobenzene	<9.7	ug/kg	60.8	9.7	1	12/11/18 19:12	12/12/18 16:52	87-61-6	
1,2,3-Trichloropropane	<15.9	ug/kg	243	15.9	1	12/11/18 19:12	12/12/18 16:52	96-18-4	
1,2,4-Trichlorobenzene	<13.5	ug/kg	60.8	13.5	1	12/11/18 19:12	12/12/18 16:52	120-82-1	
1,2,4-Trimethylbenzene	<12.2	ug/kg	60.8	12.2	1	12/11/18 19:12	12/12/18 16:52	95-63-6	
1,2-Dibromo-3-chloropropane	<211	ug/kg	608	211	1	12/11/18 19:12	12/12/18 16:52	96-12-8	
1,2-Dibromoethane (EDB)	<6.4	ug/kg	60.8	6.4	1	12/11/18 19:12	12/12/18 16:52	106-93-4	
1,2-Dichlorobenzene	<2.5	ug/kg	60.8	2.5	1	12/11/18 19:12	12/12/18 16:52	95-50-1	
1,2-Dichloroethane	<6.7	ug/kg	60.8	6.7	1	12/11/18 19:12	12/12/18 16:52	107-06-2	
1,2-Dichloropropane	<10.5	ug/kg	60.8	10.5	1	12/11/18 19:12	12/12/18 16:52	78-87-5	
1,3,5-Trimethylbenzene	<9.7	ug/kg	60.8	9.7	1	12/11/18 19:12	12/12/18 16:52	108-67-8	
1,3-Dichlorobenzene	<2.2	ug/kg	60.8	2.2	1	12/11/18 19:12	12/12/18 16:52	541-73-1	
1,3-Dichloropropane	<8.4	ug/kg	60.8	8.4	1	12/11/18 19:12	12/12/18 16:52	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/kg	60.8	3.8	1	12/11/18 19:12	12/12/18 16:52	106-46-7	
2,2-Dichloropropane	<7.6	ug/kg	243	7.6	1	12/11/18 19:12	12/12/18 16:52	594-20-7	
2-Butanone (MEK)	<32.3	ug/kg	304	32.3	1	12/11/18 19:12	12/12/18 16:52	78-93-3	
2-Chlorotoluene	<3.0	ug/kg	60.8	3.0	1	12/11/18 19:12	12/12/18 16:52	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	60.8	3.1	1	12/11/18 19:12	12/12/18 16:52	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.6	ug/kg	304	12.6	1	12/11/18 19:12	12/12/18 16:52	108-10-1	
Acetone	650J	ug/kg	1220	378	1	12/11/18 19:12	12/12/18 16:52	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-17 (6)**      **Lab ID: 10457121033**      Collected: 11/28/18 13:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B									
Allyl chloride	<50.9	ug/kg	243	50.9	1	12/11/18 19:12	12/12/18 16:52	107-05-1	
Benzene	<3.4	ug/kg	24.3	3.4	1	12/11/18 19:12	12/12/18 16:52	71-43-2	
Bromobenzene	<3.7	ug/kg	60.8	3.7	1	12/11/18 19:12	12/12/18 16:52	108-86-1	
Bromochloromethane	<21.0	ug/kg	60.8	21.0	1	12/11/18 19:12	12/12/18 16:52	74-97-5	
Bromodichloromethane	<20.8	ug/kg	60.8	20.8	1	12/11/18 19:12	12/12/18 16:52	75-27-4	
Bromoform	<92.0	ug/kg	243	92.0	1	12/11/18 19:12	12/12/18 16:52	75-25-2	
Bromomethane	<71.1	ug/kg	608	71.1	1	12/11/18 19:12	12/12/18 16:52	74-83-9	
Carbon tetrachloride	<29.0	ug/kg	60.8	29.0	1	12/11/18 19:12	12/12/18 16:52	56-23-5	
Chlorobenzene	<3.4	ug/kg	60.8	3.4	1	12/11/18 19:12	12/12/18 16:52	108-90-7	
Chloroethane	<31.6	ug/kg	608	31.6	1	12/11/18 19:12	12/12/18 16:52	75-00-3	L2
Chloroform	<30.4	ug/kg	60.8	30.4	1	12/11/18 19:12	12/12/18 16:52	67-66-3	
Chloromethane	<14.6	ug/kg	243	14.6	1	12/11/18 19:12	12/12/18 16:52	74-87-3	
Dibromochloromethane	<7.0	ug/kg	243	7.0	1	12/11/18 19:12	12/12/18 16:52	124-48-1	
Dibromomethane	<11.1	ug/kg	60.8	11.1	1	12/11/18 19:12	12/12/18 16:52	74-95-3	
Dichlorodifluoromethane	<19.7	ug/kg	243	19.7	1	12/11/18 19:12	12/12/18 16:52	75-71-8	
Dichlorofluoromethane	<84.0	ug/kg	608	84.0	1	12/11/18 19:12	12/12/18 16:52	75-43-4	N2
Diethyl ether (Ethyl ether)	<37.2	ug/kg	243	37.2	1	12/11/18 19:12	12/12/18 16:52	60-29-7	
Ethylbenzene	<3.3	ug/kg	60.8	3.3	1	12/11/18 19:12	12/12/18 16:52	100-41-4	
Hexachloro-1,3-butadiene	<14.8	ug/kg	304	14.8	1	12/11/18 19:12	12/12/18 16:52	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	60.8	2.7	1	12/11/18 19:12	12/12/18 16:52	98-82-8	
Methyl-tert-butyl ether	<7.2	ug/kg	60.8	7.2	1	12/11/18 19:12	12/12/18 16:52	1634-04-4	
Methylene Chloride	<114	ug/kg	243	114	1	12/11/18 19:12	12/12/18 16:52	75-09-2	
Naphthalene	<56.9	ug/kg	243	56.9	1	12/11/18 19:12	12/12/18 16:52	91-20-3	
Styrene	<2.8	ug/kg	60.8	2.8	1	12/11/18 19:12	12/12/18 16:52	100-42-5	
Tetrachloroethene	<21.4	ug/kg	60.8	21.4	1	12/11/18 19:12	12/12/18 16:52	127-18-4	
Tetrahydrofuran	<88.3	ug/kg	2430	88.3	1	12/11/18 19:12	12/12/18 16:52	109-99-9	
Toluene	<14.8	ug/kg	60.8	14.8	1	12/11/18 19:12	12/12/18 16:52	108-88-3	
Trichloroethene	<9.4	ug/kg	60.8	9.4	1	12/11/18 19:12	12/12/18 16:52	79-01-6	
Trichlorofluoromethane	<106	ug/kg	243	106	1	12/11/18 19:12	12/12/18 16:52	75-69-4	
Vinyl chloride	<12.0	ug/kg	60.8	12.0	1	12/11/18 19:12	12/12/18 16:52	75-01-4	
Xylene (Total)	<14.1	ug/kg	182	14.1	1	12/11/18 19:12	12/12/18 16:52	1330-20-7	
cis-1,2-Dichloroethene	<10.1	ug/kg	60.8	10.1	1	12/11/18 19:12	12/12/18 16:52	156-59-2	
cis-1,3-Dichloropropene	<8.7	ug/kg	60.8	8.7	1	12/11/18 19:12	12/12/18 16:52	10061-01-5	
n-Butylbenzene	<28.9	ug/kg	60.8	28.9	1	12/11/18 19:12	12/12/18 16:52	104-51-8	
n-Propylbenzene	<3.2	ug/kg	60.8	3.2	1	12/11/18 19:12	12/12/18 16:52	103-65-1	
p-Isopropyltoluene	<18.5	ug/kg	60.8	18.5	1	12/11/18 19:12	12/12/18 16:52	99-87-6	
sec-Butylbenzene	<11.6	ug/kg	60.8	11.6	1	12/11/18 19:12	12/12/18 16:52	135-98-8	
tert-Butylbenzene	<11.7	ug/kg	60.8	11.7	1	12/11/18 19:12	12/12/18 16:52	98-06-6	
trans-1,2-Dichloroethene	<28.4	ug/kg	60.8	28.4	1	12/11/18 19:12	12/12/18 16:52	156-60-5	
trans-1,3-Dichloropropene	<8.4	ug/kg	60.8	8.4	1	12/11/18 19:12	12/12/18 16:52	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 16:52	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/11/18 19:12	12/12/18 16:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 16:52	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (3)**      **Lab ID: 10457121034**      Collected: 11/28/18 13:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<0.22	ug/kg	2.2	0.22	1	12/05/18 16:14	12/12/18 11:31	309-00-2	
alpha-BHC	<0.16	ug/kg	2.2	0.16	1	12/05/18 16:14	12/12/18 11:31	319-84-6	
beta-BHC	<0.29	ug/kg	2.2	0.29	1	12/05/18 16:14	12/12/18 11:31	319-85-7	
delta-BHC	<0.18	ug/kg	2.2	0.18	1	12/05/18 16:14	12/12/18 11:31	319-86-8	
gamma-BHC (Lindane)	<0.18	ug/kg	2.2	0.18	1	12/05/18 16:14	12/12/18 11:31	58-89-9	
Chlordane (Technical)	<3.9	ug/kg	21.6	3.9	1	12/05/18 16:14	12/12/18 11:31	57-74-9	
alpha-Chlordane	<0.17	ug/kg	2.2	0.17	1	12/05/18 16:14	12/12/18 11:31	5103-71-9	
gamma-Chlordane	<0.50	ug/kg	2.2	0.50	1	12/05/18 16:14	12/12/18 11:31	5103-74-2	
4,4'-DDD	<0.39	ug/kg	4.3	0.39	1	12/05/18 16:14	12/12/18 11:31	72-54-8	
4,4'-DDE	20.2	ug/kg	4.3	0.32	1	12/05/18 16:14	12/12/18 11:31	72-55-9	
4,4'-DDT	2.0J	ug/kg	4.3	0.54	1	12/05/18 16:14	12/12/18 11:31	50-29-3	
Dieldrin	<0.42	ug/kg	4.3	0.42	1	12/05/18 16:14	12/12/18 11:31	60-57-1	
Endosulfan I	<0.19	ug/kg	2.2	0.19	1	12/05/18 16:14	12/12/18 11:31	959-98-8	
Endosulfan II	<0.44	ug/kg	4.3	0.44	1	12/05/18 16:14	12/12/18 11:31	33213-65-9	
Endosulfan sulfate	<0.44	ug/kg	4.3	0.44	1	12/05/18 16:14	12/12/18 11:31	1031-07-8	
Endrin	<0.38	ug/kg	4.3	0.38	1	12/05/18 16:14	12/12/18 11:31	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.3	1.3	1	12/05/18 16:14	12/12/18 11:31	7421-93-4	
Endrin ketone	<0.51	ug/kg	4.3	0.51	1	12/05/18 16:14	12/12/18 11:31	53494-70-5	
Heptachlor	<0.23	ug/kg	2.2	0.23	1	12/05/18 16:14	12/12/18 11:31	76-44-8	
Heptachlor epoxide	0.33J	ug/kg	2.2	0.20	1	12/05/18 16:14	12/12/18 11:31	1024-57-3	
Methoxychlor	<3.3	ug/kg	21.6	3.3	1	12/05/18 16:14	12/12/18 11:31	72-43-5	
Toxaphene	<10.2	ug/kg	64.7	10.2	1	12/05/18 16:14	12/12/18 11:31	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	30-150		1	12/05/18 16:14	12/12/18 11:31	877-09-8	
Decachlorobiphenyl (S)	67	%	30-150		1	12/05/18 16:14	12/12/18 11:31	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.9	ug/kg	42.6	11.9	1	12/05/18 14:01	12/07/18 21:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.0	ug/kg	42.6	15.0	1	12/05/18 14:01	12/07/18 21:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.0	ug/kg	42.6	17.0	1	12/05/18 14:01	12/07/18 21:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.5	ug/kg	42.6	14.5	1	12/05/18 14:01	12/07/18 21:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.8	ug/kg	42.6	12.8	1	12/05/18 14:01	12/07/18 21:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.5	ug/kg	42.6	12.5	1	12/05/18 14:01	12/07/18 21:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.2	ug/kg	42.6	10.2	1	12/05/18 14:01	12/07/18 21:52	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	48-125		1	12/05/18 14:01	12/07/18 21:52	877-09-8	
Decachlorobiphenyl (S)	77	%	30-134		1	12/05/18 14:01	12/07/18 21:52	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	<3.1	mg/kg	19.4	3.1	1	12/05/18 15:46	12/13/18 13:17	68334-30-5	
Motor Oil Range	6.2J	mg/kg	12.9	5.6	1	12/05/18 15:46	12/13/18 13:17		
<b>Surrogates</b>									
n-Triacontane (S)	94	%	50-150		1	12/05/18 15:46	12/13/18 13:17	638-68-6	
o-Terphenyl (S)	70	%	50-150		1	12/05/18 15:46	12/13/18 13:17	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (3)**      **Lab ID: 10457121034**      Collected: 11/28/18 13:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.85	mg/kg	6.5	0.85	1	12/11/18 12:55	12/12/18 05:02		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	88	%	50-150		1	12/11/18 12:55	12/12/18 05:02	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.46	mg/kg	1.2	0.46	1	12/07/18 10:11	12/10/18 13:42	7440-36-0	
Arsenic	1.4	mg/kg	1.2	0.25	1	12/07/18 10:11	12/10/18 13:42	7440-38-2	
Beryllium	0.56	mg/kg	0.31	0.016	1	12/07/18 10:11	12/10/18 13:42	7440-41-7	
Cadmium	0.064J	mg/kg	0.18	0.024	1	12/07/18 10:11	12/10/18 13:42	7440-43-9	
Chromium	6.7	mg/kg	0.61	0.10	1	12/07/18 10:11	12/10/18 13:42	7440-47-3	
Copper	14.9	mg/kg	0.61	0.068	1	12/07/18 10:11	12/10/18 13:42	7440-50-8	
Lead	6.6	mg/kg	0.61	0.14	1	12/07/18 10:11	12/10/18 13:42	7439-92-1	
Nickel	4.9	mg/kg	1.2	0.077	1	12/07/18 10:11	12/10/18 13:42	7440-02-0	
Selenium	<0.40	mg/kg	1.2	0.40	1	12/07/18 10:11	12/10/18 13:42	7782-49-2	
Silver	<0.044	mg/kg	0.61	0.044	1	12/07/18 10:11	12/10/18 13:42	7440-22-4	
Thallium	<0.28	mg/kg	1.2	0.28	1	12/07/18 10:11	12/10/18 13:42	7440-28-0	
Zinc	57.4	mg/kg	1.2	0.54	1	12/07/18 10:11	12/10/18 13:42	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.033	mg/kg	0.022	0.0087	1	12/07/18 10:13	12/11/18 12:44	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	22.9	%	0.10	0.10	1		12/12/18 12:45		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<45.3	ug/kg	425	45.3	1	12/04/18 17:03	12/07/18 21:45	83-32-9	
Acenaphthylene	<54.2	ug/kg	425	54.2	1	12/04/18 17:03	12/07/18 21:45	208-96-8	
Anthracene	<49.8	ug/kg	425	49.8	1	12/04/18 17:03	12/07/18 21:45	120-12-7	
Benzo(a)anthracene	<43.6	ug/kg	425	43.6	1	12/04/18 17:03	12/07/18 21:45	56-55-3	
Benzo(a)pyrene	<48.1	ug/kg	425	48.1	1	12/04/18 17:03	12/07/18 21:45	50-32-8	
Benzo(b)fluoranthene	<41.6	ug/kg	425	41.6	1	12/04/18 17:03	12/07/18 21:45	205-99-2	
Benzo(g,h,i)perylene	<45.4	ug/kg	425	45.4	1	12/04/18 17:03	12/07/18 21:45	191-24-2	
Benzo(k)fluoranthene	<53.0	ug/kg	425	53.0	1	12/04/18 17:03	12/07/18 21:45	207-08-9	
4-Bromophenylphenyl ether	<50.6	ug/kg	425	50.6	1	12/04/18 17:03	12/07/18 21:45	101-55-3	
Butylbenzylphthalate	<38.9	ug/kg	425	38.9	1	12/04/18 17:03	12/07/18 21:45	85-68-7	
Carbazole	<35.3	ug/kg	425	35.3	1	12/04/18 17:03	12/07/18 21:45	86-74-8	
4-Chloro-3-methylphenol	<68.0	ug/kg	425	68.0	1	12/04/18 17:03	12/07/18 21:45	59-50-7	
4-Chloroaniline	<113	ug/kg	425	113	1	12/04/18 17:03	12/07/18 21:45	106-47-8	
bis(2-Chloroethoxy)methane	<43.5	ug/kg	425	43.5	1	12/04/18 17:03	12/07/18 21:45	111-91-1	
bis(2-Chloroethyl) ether	<33.6	ug/kg	425	33.6	1	12/04/18 17:03	12/07/18 21:45	111-44-4	
bis(2-Chloroisopropyl) ether	<43.8	ug/kg	425	43.8	1	12/04/18 17:03	12/07/18 21:45	108-60-1	
2-Chloronaphthalene	<37.6	ug/kg	425	37.6	1	12/04/18 17:03	12/07/18 21:45	91-58-7	
2-Chlorophenol	<48.4	ug/kg	425	48.4	1	12/04/18 17:03	12/07/18 21:45	95-57-8	
4-Chlorophenylphenyl ether	<52.6	ug/kg	425	52.6	1	12/04/18 17:03	12/07/18 21:45	7005-72-3	
Chrysene	<44.8	ug/kg	425	44.8	1	12/04/18 17:03	12/07/18 21:45	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (3)**      **Lab ID: 10457121034**      Collected: 11/28/18 13:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<45.2	ug/kg	425	45.2	1	12/04/18 17:03	12/07/18 21:45	53-70-3	
Dibenzofuran	<53.8	ug/kg	425	53.8	1	12/04/18 17:03	12/07/18 21:45	132-64-9	
1,2-Dichlorobenzene	<44.5	ug/kg	425	44.5	1	12/04/18 17:03	12/07/18 21:45	95-50-1	
1,3-Dichlorobenzene	<29.1	ug/kg	425	29.1	1	12/04/18 17:03	12/07/18 21:45	541-73-1	
1,4-Dichlorobenzene	<47.2	ug/kg	425	47.2	1	12/04/18 17:03	12/07/18 21:45	106-46-7	
3,3'-Dichlorobenzidine	<143	ug/kg	425	143	1	12/04/18 17:03	12/07/18 21:45	91-94-1	
2,4-Dichlorophenol	<70.9	ug/kg	425	70.9	1	12/04/18 17:03	12/07/18 21:45	120-83-2	
Diethylphthalate	<37.8	ug/kg	425	37.8	1	12/04/18 17:03	12/07/18 21:45	84-66-2	
2,4-Dimethylphenol	<166	ug/kg	425	166	1	12/04/18 17:03	12/07/18 21:45	105-67-9	
Dimethylphthalate	<57.7	ug/kg	425	57.7	1	12/04/18 17:03	12/07/18 21:45	131-11-3	
Di-n-butylphthalate	<58.2	ug/kg	425	58.2	1	12/04/18 17:03	12/07/18 21:45	84-74-2	
4,6-Dinitro-2-methylphenol	<421	ug/kg	2190	421	1	12/04/18 17:03	12/07/18 21:45	534-52-1	
2,4-Dinitrophenol	<198	ug/kg	425	198	1	12/04/18 17:03	12/07/18 21:45	51-28-5	
2,4-Dinitrotoluene	<54.1	ug/kg	425	54.1	1	12/04/18 17:03	12/07/18 21:45	121-14-2	
2,6-Dinitrotoluene	<56.3	ug/kg	425	56.3	1	12/04/18 17:03	12/07/18 21:45	606-20-2	
Di-n-octylphthalate	<49.3	ug/kg	425	49.3	1	12/04/18 17:03	12/07/18 21:45	117-84-0	
1,2-Diphenylhydrazine	<52.1	ug/kg	425	52.1	1	12/04/18 17:03	12/07/18 21:45	122-66-7	
bis(2-Ethylhexyl)phthalate	<88.6	ug/kg	425	88.6	1	12/04/18 17:03	12/07/18 21:45	117-81-7	
Fluoranthene	<48.8	ug/kg	425	48.8	1	12/04/18 17:03	12/07/18 21:45	206-44-0	
Fluorene	<194	ug/kg	425	194	1	12/04/18 17:03	12/07/18 21:45	86-73-7	
Hexachloro-1,3-butadiene	<64.6	ug/kg	425	64.6	1	12/04/18 17:03	12/07/18 21:45	87-68-3	
Hexachlorobenzene	<69.3	ug/kg	425	69.3	1	12/04/18 17:03	12/07/18 21:45	118-74-1	
Hexachloroethane	<55.2	ug/kg	425	55.2	1	12/04/18 17:03	12/07/18 21:45	67-72-1	
Indeno(1,2,3-cd)pyrene	<25.6	ug/kg	425	25.6	1	12/04/18 17:03	12/07/18 21:45	193-39-5	
Isophorone	<32.7	ug/kg	425	32.7	1	12/04/18 17:03	12/07/18 21:45	78-59-1	
1-Methylnaphthalene	<39.3	ug/kg	425	39.3	1	12/04/18 17:03	12/07/18 21:45	90-12-0	
2-Methylnaphthalene	<38.4	ug/kg	425	38.4	1	12/04/18 17:03	12/07/18 21:45	91-57-6	
2-Methylphenol(o-Cresol)	<26.5	ug/kg	425	26.5	1	12/04/18 17:03	12/07/18 21:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	<23.9	ug/kg	850	23.9	1	12/04/18 17:03	12/07/18 21:45		
Naphthalene	<32.7	ug/kg	425	32.7	1	12/04/18 17:03	12/07/18 21:45	91-20-3	
2-Nitroaniline	<107	ug/kg	425	107	1	12/04/18 17:03	12/07/18 21:45	88-74-4	
3-Nitroaniline	<46.3	ug/kg	425	46.3	1	12/04/18 17:03	12/07/18 21:45	99-09-2	
4-Nitroaniline	<62.0	ug/kg	425	62.0	1	12/04/18 17:03	12/07/18 21:45	100-01-6	
Nitrobenzene	<46.7	ug/kg	425	46.7	1	12/04/18 17:03	12/07/18 21:45	98-95-3	
2-Nitrophenol	<51.7	ug/kg	425	51.7	1	12/04/18 17:03	12/07/18 21:45	88-75-5	
4-Nitrophenol	<82.4	ug/kg	425	82.4	1	12/04/18 17:03	12/07/18 21:45	100-02-7	
N-Nitrosodimethylamine	<52.1	ug/kg	425	52.1	1	12/04/18 17:03	12/07/18 21:45	62-75-9	
N-Nitroso-di-n-propylamine	<194	ug/kg	425	194	1	12/04/18 17:03	12/07/18 21:45	621-64-7	
N-Nitrosodiphenylamine	<27.5	ug/kg	425	27.5	1	12/04/18 17:03	12/07/18 21:45	86-30-6	
Pentachlorophenol	<248	ug/kg	862	248	1	12/04/18 17:03	12/07/18 21:45	87-86-5	
Phenanthrene	<49.4	ug/kg	425	49.4	1	12/04/18 17:03	12/07/18 21:45	85-01-8	
Phenol	<27.8	ug/kg	425	27.8	1	12/04/18 17:03	12/07/18 21:45	108-95-2	
Pyrene	<32.3	ug/kg	425	32.3	1	12/04/18 17:03	12/07/18 21:45	129-00-0	
1,2,4-Trichlorobenzene	<46.6	ug/kg	425	46.6	1	12/04/18 17:03	12/07/18 21:45	120-82-1	
2,4,5-Trichlorophenol	<54.7	ug/kg	425	54.7	1	12/04/18 17:03	12/07/18 21:45	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (3)**      **Lab ID: 10457121034**      Collected: 11/28/18 13:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<65.8	ug/kg	425	65.8	1	12/04/18 17:03	12/07/18 21:45	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	68	%	43-125		1	12/04/18 17:03	12/07/18 21:45	4165-60-0	
2-Fluorobiphenyl (S)	61	%	30-132		1	12/04/18 17:03	12/07/18 21:45	321-60-8	
p-Terphenyl-d14 (S)	86	%	62-125		1	12/04/18 17:03	12/07/18 21:45	1718-51-0	
Phenol-d6 (S)	69	%	48-125		1	12/04/18 17:03	12/07/18 21:45	13127-88-3	
2-Fluorophenol (S)	69	%	40-125		1	12/04/18 17:03	12/07/18 21:45	367-12-4	
2,4,6-Tribromophenol (S)	77	%	60-125		1	12/04/18 17:03	12/07/18 21:45	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	03/05/19 10:30	03/05/19 20:16	106-93-4	
Methylene Chloride	<4.6	ug/kg	25.0	4.6	1	03/05/19 10:30	03/05/19 20:16	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-125		1	03/05/19 10:30	03/05/19 20:16	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/05/19 10:30	03/05/19 20:16	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/05/19 10:30	03/05/19 20:16	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<23.2	ug/kg	73.8	23.2	1	12/11/18 19:12	12/12/18 17:48	630-20-6	
1,1,1-Trichloroethane	<34.4	ug/kg	73.8	34.4	1	12/11/18 19:12	12/12/18 17:48	71-55-6	
1,1,2,2-Tetrachloroethane	<13.0	ug/kg	295	13.0	1	12/11/18 19:12	12/12/18 17:48	79-34-5	
1,1,2-Trichloroethane	<8.8	ug/kg	73.8	8.8	1	12/11/18 19:12	12/12/18 17:48	79-00-5	
1,1,2-Trichlorotrifluoroethane	<85.6	ug/kg	295	85.6	1	12/11/18 19:12	12/12/18 17:48	76-13-1	
1,1-Dichloroethane	<8.3	ug/kg	73.8	8.3	1	12/11/18 19:12	12/12/18 17:48	75-34-3	
1,1-Dichloroethene	<22.1	ug/kg	295	22.1	1	12/11/18 19:12	12/12/18 17:48	75-35-4	
1,1-Dichloropropene	<34.1	ug/kg	73.8	34.1	1	12/11/18 19:12	12/12/18 17:48	563-58-6	
1,2,3-Trichlorobenzene	<11.8	ug/kg	73.8	11.8	1	12/11/18 19:12	12/12/18 17:48	87-61-6	
1,2,3-Trichloropropane	<19.3	ug/kg	295	19.3	1	12/11/18 19:12	12/12/18 17:48	96-18-4	
1,2,4-Trichlorobenzene	<16.4	ug/kg	73.8	16.4	1	12/11/18 19:12	12/12/18 17:48	120-82-1	
1,2,4-Trimethylbenzene	<14.8	ug/kg	73.8	14.8	1	12/11/18 19:12	12/12/18 17:48	95-63-6	
1,2-Dibromo-3-chloropropane	<257	ug/kg	738	257	1	12/11/18 19:12	12/12/18 17:48	96-12-8	
1,2-Dibromoethane (EDB)	<7.8	ug/kg	73.8	7.8	1	12/11/18 19:12	12/12/18 17:48	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	73.8	3.0	1	12/11/18 19:12	12/12/18 17:48	95-50-1	
1,2-Dichloroethane	<8.1	ug/kg	73.8	8.1	1	12/11/18 19:12	12/12/18 17:48	107-06-2	
1,2-Dichloropropane	<12.7	ug/kg	73.8	12.7	1	12/11/18 19:12	12/12/18 17:48	78-87-5	
1,3,5-Trimethylbenzene	<11.8	ug/kg	73.8	11.8	1	12/11/18 19:12	12/12/18 17:48	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	73.8	2.7	1	12/11/18 19:12	12/12/18 17:48	541-73-1	
1,3-Dichloropropane	<10.2	ug/kg	73.8	10.2	1	12/11/18 19:12	12/12/18 17:48	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	73.8	4.6	1	12/11/18 19:12	12/12/18 17:48	106-46-7	
2,2-Dichloropropane	<9.2	ug/kg	295	9.2	1	12/11/18 19:12	12/12/18 17:48	594-20-7	
2-Butanone (MEK)	<39.2	ug/kg	369	39.2	1	12/11/18 19:12	12/12/18 17:48	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	73.8	3.6	1	12/11/18 19:12	12/12/18 17:48	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	73.8	3.8	1	12/11/18 19:12	12/12/18 17:48	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.3	ug/kg	369	15.3	1	12/11/18 19:12	12/12/18 17:48	108-10-1	
Acetone	795J	ug/kg	1480	459	1	12/11/18 19:12	12/12/18 17:48	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (3)**      **Lab ID: 10457121034**      Collected: 11/28/18 13:50      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<61.8	ug/kg	295	61.8	1	12/11/18 19:12	12/12/18 17:48	107-05-1	
Benzene	<4.2	ug/kg	29.5	4.2	1	12/11/18 19:12	12/12/18 17:48	71-43-2	
Bromobenzene	<4.5	ug/kg	73.8	4.5	1	12/11/18 19:12	12/12/18 17:48	108-86-1	
Bromochloromethane	<25.5	ug/kg	73.8	25.5	1	12/11/18 19:12	12/12/18 17:48	74-97-5	
Bromodichloromethane	<25.2	ug/kg	73.8	25.2	1	12/11/18 19:12	12/12/18 17:48	75-27-4	
Bromoform	<112	ug/kg	295	112	1	12/11/18 19:12	12/12/18 17:48	75-25-2	
Bromomethane	<86.3	ug/kg	738	86.3	1	12/11/18 19:12	12/12/18 17:48	74-83-9	
Carbon tetrachloride	<35.3	ug/kg	73.8	35.3	1	12/11/18 19:12	12/12/18 17:48	56-23-5	
Chlorobenzene	<4.2	ug/kg	73.8	4.2	1	12/11/18 19:12	12/12/18 17:48	108-90-7	
Chloroethane	<38.4	ug/kg	738	38.4	1	12/11/18 19:12	12/12/18 17:48	75-00-3	L2
Chloroform	<36.9	ug/kg	73.8	36.9	1	12/11/18 19:12	12/12/18 17:48	67-66-3	
Chloromethane	<17.7	ug/kg	295	17.7	1	12/11/18 19:12	12/12/18 17:48	74-87-3	
Dibromochloromethane	<8.6	ug/kg	295	8.6	1	12/11/18 19:12	12/12/18 17:48	124-48-1	
Dibromomethane	<13.5	ug/kg	73.8	13.5	1	12/11/18 19:12	12/12/18 17:48	74-95-3	
Dichlorodifluoromethane	<23.9	ug/kg	295	23.9	1	12/11/18 19:12	12/12/18 17:48	75-71-8	
Dichlorofluoromethane	<102	ug/kg	738	102	1	12/11/18 19:12	12/12/18 17:48	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.1	ug/kg	295	45.1	1	12/11/18 19:12	12/12/18 17:48	60-29-7	
Ethylbenzene	<4.0	ug/kg	73.8	4.0	1	12/11/18 19:12	12/12/18 17:48	100-41-4	
Hexachloro-1,3-butadiene	<18.0	ug/kg	369	18.0	1	12/11/18 19:12	12/12/18 17:48	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	73.8	3.3	1	12/11/18 19:12	12/12/18 17:48	98-82-8	
Methyl-tert-butyl ether	<8.8	ug/kg	73.8	8.8	1	12/11/18 19:12	12/12/18 17:48	1634-04-4	
Methylene Chloride	<139	ug/kg	295	139	1	12/11/18 19:12	12/12/18 17:48	75-09-2	
Naphthalene	<69.0	ug/kg	295	69.0	1	12/11/18 19:12	12/12/18 17:48	91-20-3	
Styrene	<3.4	ug/kg	73.8	3.4	1	12/11/18 19:12	12/12/18 17:48	100-42-5	
Tetrachloroethene	<26.0	ug/kg	73.8	26.0	1	12/11/18 19:12	12/12/18 17:48	127-18-4	
Tetrahydrofuran	<107	ug/kg	2950	107	1	12/11/18 19:12	12/12/18 17:48	109-99-9	
Toluene	<18.0	ug/kg	73.8	18.0	1	12/11/18 19:12	12/12/18 17:48	108-88-3	
Trichloroethene	<11.4	ug/kg	73.8	11.4	1	12/11/18 19:12	12/12/18 17:48	79-01-6	
Trichlorofluoromethane	<129	ug/kg	295	129	1	12/11/18 19:12	12/12/18 17:48	75-69-4	
Vinyl chloride	<14.5	ug/kg	73.8	14.5	1	12/11/18 19:12	12/12/18 17:48	75-01-4	
Xylene (Total)	<17.1	ug/kg	221	17.1	1	12/11/18 19:12	12/12/18 17:48	1330-20-7	
cis-1,2-Dichloroethene	<12.2	ug/kg	73.8	12.2	1	12/11/18 19:12	12/12/18 17:48	156-59-2	
cis-1,3-Dichloropropene	<10.6	ug/kg	73.8	10.6	1	12/11/18 19:12	12/12/18 17:48	10061-01-5	
n-Butylbenzene	<35.1	ug/kg	73.8	35.1	1	12/11/18 19:12	12/12/18 17:48	104-51-8	
n-Propylbenzene	<3.9	ug/kg	73.8	3.9	1	12/11/18 19:12	12/12/18 17:48	103-65-1	
p-Isopropyltoluene	<22.4	ug/kg	73.8	22.4	1	12/11/18 19:12	12/12/18 17:48	99-87-6	
sec-Butylbenzene	<14.1	ug/kg	73.8	14.1	1	12/11/18 19:12	12/12/18 17:48	135-98-8	
tert-Butylbenzene	<14.2	ug/kg	73.8	14.2	1	12/11/18 19:12	12/12/18 17:48	98-06-6	
trans-1,2-Dichloroethene	<34.5	ug/kg	73.8	34.5	1	12/11/18 19:12	12/12/18 17:48	156-60-5	
trans-1,3-Dichloropropene	<10.3	ug/kg	73.8	10.3	1	12/11/18 19:12	12/12/18 17:48	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 17:48	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	12/11/18 19:12	12/12/18 17:48	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 17:48	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (6)**      **Lab ID: 10457121035**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.20	ug/kg	2.0	0.20	1	12/05/18 16:14	12/12/18 11:49	309-00-2	
alpha-BHC	<0.15	ug/kg	2.0	0.15	1	12/05/18 16:14	12/12/18 11:49	319-84-6	
beta-BHC	<0.27	ug/kg	2.0	0.27	1	12/05/18 16:14	12/12/18 11:49	319-85-7	
delta-BHC	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 11:49	319-86-8	
gamma-BHC (Lindane)	<0.17	ug/kg	2.0	0.17	1	12/05/18 16:14	12/12/18 11:49	58-89-9	
Chlordane (Technical)	<3.7	ug/kg	20.2	3.7	1	12/05/18 16:14	12/12/18 11:49	57-74-9	
alpha-Chlordane	<0.16	ug/kg	2.0	0.16	1	12/05/18 16:14	12/12/18 11:49	5103-71-9	
gamma-Chlordane	<0.46	ug/kg	2.0	0.46	1	12/05/18 16:14	12/12/18 11:49	5103-74-2	
4,4'-DDD	<0.37	ug/kg	4.0	0.37	1	12/05/18 16:14	12/12/18 11:49	72-54-8	
4,4'-DDE	1.7J	ug/kg	4.0	0.30	1	12/05/18 16:14	12/12/18 11:49	72-55-9	
4,4'-DDT	<0.51	ug/kg	4.0	0.51	1	12/05/18 16:14	12/12/18 11:49	50-29-3	
Dieldrin	<0.39	ug/kg	4.0	0.39	1	12/05/18 16:14	12/12/18 11:49	60-57-1	
Endosulfan I	<0.18	ug/kg	2.0	0.18	1	12/05/18 16:14	12/12/18 11:49	959-98-8	
Endosulfan II	<0.41	ug/kg	4.0	0.41	1	12/05/18 16:14	12/12/18 11:49	33213-65-9	
Endosulfan sulfate	<0.41	ug/kg	4.0	0.41	1	12/05/18 16:14	12/12/18 11:49	1031-07-8	
Endrin	<0.36	ug/kg	4.0	0.36	1	12/05/18 16:14	12/12/18 11:49	72-20-8	
Endrin aldehyde	<1.3	ug/kg	4.0	1.3	1	12/05/18 16:14	12/12/18 11:49	7421-93-4	
Endrin ketone	<0.48	ug/kg	4.0	0.48	1	12/05/18 16:14	12/12/18 11:49	53494-70-5	
Heptachlor	<0.22	ug/kg	2.0	0.22	1	12/05/18 16:14	12/12/18 11:49	76-44-8	
Heptachlor epoxide	<0.19	ug/kg	2.0	0.19	1	12/05/18 16:14	12/12/18 11:49	1024-57-3	
Methoxychlor	<3.0	ug/kg	20.2	3.0	1	12/05/18 16:14	12/12/18 11:49	72-43-5	
Toxaphene	<9.6	ug/kg	60.4	9.6	1	12/05/18 16:14	12/12/18 11:49	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	89	%	30-150		1	12/05/18 16:14	12/12/18 11:49	877-09-8	
Decachlorobiphenyl (S)	74	%	30-150		1	12/05/18 16:14	12/12/18 11:49	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.1	11.2	1	12/05/18 14:01	12/07/18 22:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.1	14.1	1	12/05/18 14:01	12/07/18 22:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	40.1	16.0	1	12/05/18 14:01	12/07/18 22:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.1	13.6	1	12/05/18 14:01	12/07/18 22:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	40.1	12.0	1	12/05/18 14:01	12/07/18 22:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.1	11.8	1	12/05/18 14:01	12/07/18 22:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.1	9.6	1	12/05/18 14:01	12/07/18 22:07	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	48-125		1	12/05/18 14:01	12/07/18 22:07	877-09-8	
Decachlorobiphenyl (S)	99	%	30-134		1	12/05/18 14:01	12/07/18 22:07	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.8	mg/kg	17.5	2.8	1	12/05/18 15:46	12/13/18 13:28	68334-30-5	
Motor Oil Range	<5.1	mg/kg	11.7	5.1	1	12/05/18 15:46	12/13/18 13:28		
<b>Surrogates</b>									
n-Triacontane (S)	100	%	50-150		1	12/05/18 15:46	12/13/18 13:28	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	12/05/18 15:46	12/13/18 13:28	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (6)**      **Lab ID: 10457121035**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.78	mg/kg	5.9	0.78	1	12/11/18 12:55	12/12/18 05:19		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	87	%	50-150		1	12/11/18 12:55	12/12/18 05:19	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.1	mg/kg	5.6	2.1	5	12/07/18 10:11	12/11/18 12:02	7440-36-0	D3
Arsenic	7.8	mg/kg	5.6	1.1	5	12/07/18 10:11	12/11/18 12:02	7440-38-2	
Beryllium	1.2J	mg/kg	1.4	0.075	5	12/07/18 10:11	12/11/18 12:02	7440-41-7	D3
Cadmium	<0.11	mg/kg	0.83	0.11	5	12/07/18 10:11	12/11/18 12:02	7440-43-9	D3
Chromium	5.4	mg/kg	2.8	0.48	5	12/07/18 10:11	12/11/18 12:02	7440-47-3	
Copper	12.7	mg/kg	2.8	0.31	5	12/07/18 10:11	12/11/18 12:02	7440-50-8	
Lead	5.5	mg/kg	2.8	0.63	5	12/07/18 10:11	12/11/18 12:02	7439-92-1	
Nickel	3.8J	mg/kg	5.6	0.35	5	12/07/18 10:11	12/11/18 12:02	7440-02-0	D3
Selenium	<1.8	mg/kg	5.6	1.8	5	12/07/18 10:11	12/11/18 12:02	7782-49-2	D3
Silver	<0.20	mg/kg	2.8	0.20	5	12/07/18 10:11	12/11/18 12:02	7440-22-4	D3
Thallium	<1.3	mg/kg	5.6	1.3	5	12/07/18 10:11	12/11/18 12:02	7440-28-0	D3
Zinc	40.0	mg/kg	5.6	2.4	5	12/07/18 10:11	12/11/18 12:02	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.013J	mg/kg	0.023	0.0092	1	12/07/18 10:13	12/11/18 12:46	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	18.3	%	0.10	0.10	1		12/12/18 12:45		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<43.1	ug/kg	404	43.1	1	12/04/18 17:03	12/07/18 22:14	83-32-9	
Acenaphthylene	<51.5	ug/kg	404	51.5	1	12/04/18 17:03	12/07/18 22:14	208-96-8	
Anthracene	<47.4	ug/kg	404	47.4	1	12/04/18 17:03	12/07/18 22:14	120-12-7	
Benzo(a)anthracene	<41.5	ug/kg	404	41.5	1	12/04/18 17:03	12/07/18 22:14	56-55-3	
Benzo(a)pyrene	<45.8	ug/kg	404	45.8	1	12/04/18 17:03	12/07/18 22:14	50-32-8	
Benzo(b)fluoranthene	<39.5	ug/kg	404	39.5	1	12/04/18 17:03	12/07/18 22:14	205-99-2	
Benzo(g,h,i)perylene	<43.2	ug/kg	404	43.2	1	12/04/18 17:03	12/07/18 22:14	191-24-2	
Benzo(k)fluoranthene	<50.4	ug/kg	404	50.4	1	12/04/18 17:03	12/07/18 22:14	207-08-9	
4-Bromophenylphenyl ether	<48.1	ug/kg	404	48.1	1	12/04/18 17:03	12/07/18 22:14	101-55-3	
Butylbenzylphthalate	<37.0	ug/kg	404	37.0	1	12/04/18 17:03	12/07/18 22:14	85-68-7	
Carbazole	<33.5	ug/kg	404	33.5	1	12/04/18 17:03	12/07/18 22:14	86-74-8	
4-Chloro-3-methylphenol	<64.6	ug/kg	404	64.6	1	12/04/18 17:03	12/07/18 22:14	59-50-7	
4-Chloroaniline	<108	ug/kg	404	108	1	12/04/18 17:03	12/07/18 22:14	106-47-8	
bis(2-Chloroethoxy)methane	<41.4	ug/kg	404	41.4	1	12/04/18 17:03	12/07/18 22:14	111-91-1	
bis(2-Chloroethyl) ether	<31.9	ug/kg	404	31.9	1	12/04/18 17:03	12/07/18 22:14	111-44-4	
bis(2-Chloroisopropyl) ether	<41.6	ug/kg	404	41.6	1	12/04/18 17:03	12/07/18 22:14	108-60-1	
2-Chloronaphthalene	<35.7	ug/kg	404	35.7	1	12/04/18 17:03	12/07/18 22:14	91-58-7	
2-Chlorophenol	<46.0	ug/kg	404	46.0	1	12/04/18 17:03	12/07/18 22:14	95-57-8	
4-Chlorophenylphenyl ether	<50.1	ug/kg	404	50.1	1	12/04/18 17:03	12/07/18 22:14	7005-72-3	
Chrysene	<42.6	ug/kg	404	42.6	1	12/04/18 17:03	12/07/18 22:14	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (6)**      **Lab ID: 10457121035**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<43.0	ug/kg	404	43.0	1	12/04/18 17:03	12/07/18 22:14	53-70-3	
Dibenzofuran	<51.2	ug/kg	404	51.2	1	12/04/18 17:03	12/07/18 22:14	132-64-9	
1,2-Dichlorobenzene	<42.3	ug/kg	404	42.3	1	12/04/18 17:03	12/07/18 22:14	95-50-1	
1,3-Dichlorobenzene	<27.7	ug/kg	404	27.7	1	12/04/18 17:03	12/07/18 22:14	541-73-1	
1,4-Dichlorobenzene	<44.9	ug/kg	404	44.9	1	12/04/18 17:03	12/07/18 22:14	106-46-7	
3,3'-Dichlorobenzidine	<136	ug/kg	404	136	1	12/04/18 17:03	12/07/18 22:14	91-94-1	
2,4-Dichlorophenol	<67.4	ug/kg	404	67.4	1	12/04/18 17:03	12/07/18 22:14	120-83-2	
Diethylphthalate	<36.0	ug/kg	404	36.0	1	12/04/18 17:03	12/07/18 22:14	84-66-2	
2,4-Dimethylphenol	<158	ug/kg	404	158	1	12/04/18 17:03	12/07/18 22:14	105-67-9	
Dimethylphthalate	<54.8	ug/kg	404	54.8	1	12/04/18 17:03	12/07/18 22:14	131-11-3	
Di-n-butylphthalate	<55.3	ug/kg	404	55.3	1	12/04/18 17:03	12/07/18 22:14	84-74-2	
4,6-Dinitro-2-methylphenol	<400	ug/kg	2080	400	1	12/04/18 17:03	12/07/18 22:14	534-52-1	
2,4-Dinitrophenol	<188	ug/kg	404	188	1	12/04/18 17:03	12/07/18 22:14	51-28-5	
2,4-Dinitrotoluene	<51.4	ug/kg	404	51.4	1	12/04/18 17:03	12/07/18 22:14	121-14-2	
2,6-Dinitrotoluene	<53.5	ug/kg	404	53.5	1	12/04/18 17:03	12/07/18 22:14	606-20-2	
Di-n-octylphthalate	<46.9	ug/kg	404	46.9	1	12/04/18 17:03	12/07/18 22:14	117-84-0	
1,2-Diphenylhydrazine	<49.6	ug/kg	404	49.6	1	12/04/18 17:03	12/07/18 22:14	122-66-7	
bis(2-Ethylhexyl)phthalate	<84.2	ug/kg	404	84.2	1	12/04/18 17:03	12/07/18 22:14	117-81-7	
Fluoranthene	<46.4	ug/kg	404	46.4	1	12/04/18 17:03	12/07/18 22:14	206-44-0	
Fluorene	<185	ug/kg	404	185	1	12/04/18 17:03	12/07/18 22:14	86-73-7	
Hexachloro-1,3-butadiene	<61.4	ug/kg	404	61.4	1	12/04/18 17:03	12/07/18 22:14	87-68-3	
Hexachlorobenzene	<65.8	ug/kg	404	65.8	1	12/04/18 17:03	12/07/18 22:14	118-74-1	
Hexachloroethane	<52.5	ug/kg	404	52.5	1	12/04/18 17:03	12/07/18 22:14	67-72-1	
Indeno(1,2,3-cd)pyrene	<24.4	ug/kg	404	24.4	1	12/04/18 17:03	12/07/18 22:14	193-39-5	
Isophorone	<31.1	ug/kg	404	31.1	1	12/04/18 17:03	12/07/18 22:14	78-59-1	
1-Methylnaphthalene	<37.3	ug/kg	404	37.3	1	12/04/18 17:03	12/07/18 22:14	90-12-0	
2-Methylnaphthalene	<36.5	ug/kg	404	36.5	1	12/04/18 17:03	12/07/18 22:14	91-57-6	
2-Methylphenol(o-Cresol)	<25.2	ug/kg	404	25.2	1	12/04/18 17:03	12/07/18 22:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.8	ug/kg	808	22.8	1	12/04/18 17:03	12/07/18 22:14		
Naphthalene	<31.1	ug/kg	404	31.1	1	12/04/18 17:03	12/07/18 22:14	91-20-3	
2-Nitroaniline	<101	ug/kg	404	101	1	12/04/18 17:03	12/07/18 22:14	88-74-4	
3-Nitroaniline	<44.1	ug/kg	404	44.1	1	12/04/18 17:03	12/07/18 22:14	99-09-2	
4-Nitroaniline	<59.0	ug/kg	404	59.0	1	12/04/18 17:03	12/07/18 22:14	100-01-6	
Nitrobenzene	<44.4	ug/kg	404	44.4	1	12/04/18 17:03	12/07/18 22:14	98-95-3	
2-Nitrophenol	<49.2	ug/kg	404	49.2	1	12/04/18 17:03	12/07/18 22:14	88-75-5	
4-Nitrophenol	<78.3	ug/kg	404	78.3	1	12/04/18 17:03	12/07/18 22:14	100-02-7	
N-Nitrosodimethylamine	<49.6	ug/kg	404	49.6	1	12/04/18 17:03	12/07/18 22:14	62-75-9	
N-Nitroso-di-n-propylamine	<185	ug/kg	404	185	1	12/04/18 17:03	12/07/18 22:14	621-64-7	
N-Nitrosodiphenylamine	<26.2	ug/kg	404	26.2	1	12/04/18 17:03	12/07/18 22:14	86-30-6	
Pentachlorophenol	<236	ug/kg	820	236	1	12/04/18 17:03	12/07/18 22:14	87-86-5	
Phenanthrene	<47.0	ug/kg	404	47.0	1	12/04/18 17:03	12/07/18 22:14	85-01-8	
Phenol	<26.4	ug/kg	404	26.4	1	12/04/18 17:03	12/07/18 22:14	108-95-2	
Pyrene	<30.7	ug/kg	404	30.7	1	12/04/18 17:03	12/07/18 22:14	129-00-0	
1,2,4-Trichlorobenzene	<44.3	ug/kg	404	44.3	1	12/04/18 17:03	12/07/18 22:14	120-82-1	
2,4,5-Trichlorophenol	<52.0	ug/kg	404	52.0	1	12/04/18 17:03	12/07/18 22:14	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (6)**      **Lab ID: 10457121035**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<62.5	ug/kg	404	62.5	1	12/04/18 17:03	12/07/18 22:14	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	67	%	43-125		1	12/04/18 17:03	12/07/18 22:14	4165-60-0	
2-Fluorobiphenyl (S)	61	%	30-132		1	12/04/18 17:03	12/07/18 22:14	321-60-8	
p-Terphenyl-d14 (S)	85	%	62-125		1	12/04/18 17:03	12/07/18 22:14	1718-51-0	
Phenol-d6 (S)	74	%	48-125		1	12/04/18 17:03	12/07/18 22:14	13127-88-3	
2-Fluorophenol (S)	72	%	40-125		1	12/04/18 17:03	12/07/18 22:14	367-12-4	
2,4,6-Tribromophenol (S)	75	%	60-125		1	12/04/18 17:03	12/07/18 22:14	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.7	0.27	1	03/05/19 10:30	03/05/19 20:54	106-93-4	
Methylene Chloride	4.7J	ug/kg	23.5	4.3	1	03/05/19 10:30	03/05/19 20:54	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	106	%	75-125		1	03/05/19 10:30	03/05/19 20:54	17060-07-0	3M,H3
Toluene-d8 (S)	100	%	75-125		1	03/05/19 10:30	03/05/19 20:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/05/19 10:30	03/05/19 20:54	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<22.9	ug/kg	72.9	22.9	1	12/11/18 19:12	12/12/18 18:07	630-20-6	
1,1,1-Trichloroethane	<34.0	ug/kg	72.9	34.0	1	12/11/18 19:12	12/12/18 18:07	71-55-6	
1,1,2,2-Tetrachloroethane	<12.8	ug/kg	291	12.8	1	12/11/18 19:12	12/12/18 18:07	79-34-5	
1,1,2-Trichloroethane	<8.7	ug/kg	72.9	8.7	1	12/11/18 19:12	12/12/18 18:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	<84.5	ug/kg	291	84.5	1	12/11/18 19:12	12/12/18 18:07	76-13-1	
1,1-Dichloroethane	<8.2	ug/kg	72.9	8.2	1	12/11/18 19:12	12/12/18 18:07	75-34-3	
1,1-Dichloroethene	<21.9	ug/kg	291	21.9	1	12/11/18 19:12	12/12/18 18:07	75-35-4	
1,1-Dichloropropene	<33.7	ug/kg	72.9	33.7	1	12/11/18 19:12	12/12/18 18:07	563-58-6	
1,2,3-Trichlorobenzene	<11.6	ug/kg	72.9	11.6	1	12/11/18 19:12	12/12/18 18:07	87-61-6	
1,2,3-Trichloropropane	<19.1	ug/kg	291	19.1	1	12/11/18 19:12	12/12/18 18:07	96-18-4	
1,2,4-Trichlorobenzene	<16.2	ug/kg	72.9	16.2	1	12/11/18 19:12	12/12/18 18:07	120-82-1	
1,2,4-Trimethylbenzene	<14.6	ug/kg	72.9	14.6	1	12/11/18 19:12	12/12/18 18:07	95-63-6	
1,2-Dibromo-3-chloropropane	<254	ug/kg	729	254	1	12/11/18 19:12	12/12/18 18:07	96-12-8	
1,2-Dibromoethane (EDB)	<7.7	ug/kg	72.9	7.7	1	12/11/18 19:12	12/12/18 18:07	106-93-4	
1,2-Dichlorobenzene	<2.9	ug/kg	72.9	2.9	1	12/11/18 19:12	12/12/18 18:07	95-50-1	
1,2-Dichloroethane	<8.0	ug/kg	72.9	8.0	1	12/11/18 19:12	12/12/18 18:07	107-06-2	
1,2-Dichloropropane	<12.6	ug/kg	72.9	12.6	1	12/11/18 19:12	12/12/18 18:07	78-87-5	
1,3,5-Trimethylbenzene	<11.6	ug/kg	72.9	11.6	1	12/11/18 19:12	12/12/18 18:07	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	72.9	2.7	1	12/11/18 19:12	12/12/18 18:07	541-73-1	
1,3-Dichloropropane	<10.1	ug/kg	72.9	10.1	1	12/11/18 19:12	12/12/18 18:07	142-28-9	
1,4-Dichlorobenzene	<4.5	ug/kg	72.9	4.5	1	12/11/18 19:12	12/12/18 18:07	106-46-7	
2,2-Dichloropropane	<9.1	ug/kg	291	9.1	1	12/11/18 19:12	12/12/18 18:07	594-20-7	
2-Butanone (MEK)	<38.8	ug/kg	364	38.8	1	12/11/18 19:12	12/12/18 18:07	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	72.9	3.6	1	12/11/18 19:12	12/12/18 18:07	95-49-8	
4-Chlorotoluene	<3.7	ug/kg	72.9	3.7	1	12/11/18 19:12	12/12/18 18:07	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.2	ug/kg	364	15.2	1	12/11/18 19:12	12/12/18 18:07	108-10-1	
Acetone	1160J	ug/kg	1460	453	1	12/11/18 19:12	12/12/18 18:07	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-18 (6)**      **Lab ID: 10457121035**      Collected: 11/28/18 14:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<61.1	ug/kg	291	61.1	1	12/11/18 19:12	12/12/18 18:07	107-05-1	
Benzene	<4.1	ug/kg	29.1	4.1	1	12/11/18 19:12	12/12/18 18:07	71-43-2	
Bromobenzene	<4.5	ug/kg	72.9	4.5	1	12/11/18 19:12	12/12/18 18:07	108-86-1	
Bromochloromethane	<25.2	ug/kg	72.9	25.2	1	12/11/18 19:12	12/12/18 18:07	74-97-5	
Bromodichloromethane	<24.9	ug/kg	72.9	24.9	1	12/11/18 19:12	12/12/18 18:07	75-27-4	
Bromoform	<110	ug/kg	291	110	1	12/11/18 19:12	12/12/18 18:07	75-25-2	
Bromomethane	<85.3	ug/kg	729	85.3	1	12/11/18 19:12	12/12/18 18:07	74-83-9	
Carbon tetrachloride	<34.8	ug/kg	72.9	34.8	1	12/11/18 19:12	12/12/18 18:07	56-23-5	
Chlorobenzene	<4.1	ug/kg	72.9	4.1	1	12/11/18 19:12	12/12/18 18:07	108-90-7	
Chloroethane	<37.9	ug/kg	729	37.9	1	12/11/18 19:12	12/12/18 18:07	75-00-3	L2
Chloroform	<36.4	ug/kg	72.9	36.4	1	12/11/18 19:12	12/12/18 18:07	67-66-3	
Chloromethane	<17.5	ug/kg	291	17.5	1	12/11/18 19:12	12/12/18 18:07	74-87-3	
Dibromochloromethane	<8.5	ug/kg	291	8.5	1	12/11/18 19:12	12/12/18 18:07	124-48-1	
Dibromomethane	<13.4	ug/kg	72.9	13.4	1	12/11/18 19:12	12/12/18 18:07	74-95-3	
Dichlorodifluoromethane	<23.6	ug/kg	291	23.6	1	12/11/18 19:12	12/12/18 18:07	75-71-8	
Dichlorofluoromethane	<101	ug/kg	729	101	1	12/11/18 19:12	12/12/18 18:07	75-43-4	N2
Diethyl ether (Ethyl ether)	<44.6	ug/kg	291	44.6	1	12/11/18 19:12	12/12/18 18:07	60-29-7	
Ethylbenzene	<4.0	ug/kg	72.9	4.0	1	12/11/18 19:12	12/12/18 18:07	100-41-4	
Hexachloro-1,3-butadiene	<17.8	ug/kg	364	17.8	1	12/11/18 19:12	12/12/18 18:07	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	72.9	3.2	1	12/11/18 19:12	12/12/18 18:07	98-82-8	
Methyl-tert-butyl ether	<8.7	ug/kg	72.9	8.7	1	12/11/18 19:12	12/12/18 18:07	1634-04-4	
Methylene Chloride	<137	ug/kg	291	137	1	12/11/18 19:12	12/12/18 18:07	75-09-2	
Naphthalene	<68.2	ug/kg	291	68.2	1	12/11/18 19:12	12/12/18 18:07	91-20-3	
Styrene	<3.3	ug/kg	72.9	3.3	1	12/11/18 19:12	12/12/18 18:07	100-42-5	
Tetrachloroethene	<25.7	ug/kg	72.9	25.7	1	12/11/18 19:12	12/12/18 18:07	127-18-4	
Tetrahydrofuran	<106	ug/kg	2910	106	1	12/11/18 19:12	12/12/18 18:07	109-99-9	
Toluene	<17.8	ug/kg	72.9	17.8	1	12/11/18 19:12	12/12/18 18:07	108-88-3	
Trichloroethene	<11.2	ug/kg	72.9	11.2	1	12/11/18 19:12	12/12/18 18:07	79-01-6	
Trichlorofluoromethane	<127	ug/kg	291	127	1	12/11/18 19:12	12/12/18 18:07	75-69-4	
Vinyl chloride	<14.3	ug/kg	72.9	14.3	1	12/11/18 19:12	12/12/18 18:07	75-01-4	
Xylene (Total)	<16.9	ug/kg	219	16.9	1	12/11/18 19:12	12/12/18 18:07	1330-20-7	
cis-1,2-Dichloroethene	<12.1	ug/kg	72.9	12.1	1	12/11/18 19:12	12/12/18 18:07	156-59-2	
cis-1,3-Dichloropropene	<10.4	ug/kg	72.9	10.4	1	12/11/18 19:12	12/12/18 18:07	10061-01-5	
n-Butylbenzene	<34.7	ug/kg	72.9	34.7	1	12/11/18 19:12	12/12/18 18:07	104-51-8	
n-Propylbenzene	<3.9	ug/kg	72.9	3.9	1	12/11/18 19:12	12/12/18 18:07	103-65-1	
p-Isopropyltoluene	<22.2	ug/kg	72.9	22.2	1	12/11/18 19:12	12/12/18 18:07	99-87-6	
sec-Butylbenzene	<14.0	ug/kg	72.9	14.0	1	12/11/18 19:12	12/12/18 18:07	135-98-8	
tert-Butylbenzene	<14.0	ug/kg	72.9	14.0	1	12/11/18 19:12	12/12/18 18:07	98-06-6	
trans-1,2-Dichloroethene	<34.1	ug/kg	72.9	34.1	1	12/11/18 19:12	12/12/18 18:07	156-60-5	
trans-1,3-Dichloropropene	<10.1	ug/kg	72.9	10.1	1	12/11/18 19:12	12/12/18 18:07	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	12/11/18 19:12	12/12/18 18:07	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 18:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 18:07	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (2)**      **Lab ID: 10457121036**      Collected: 11/28/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.40	ug/kg	4.0	0.40	2	12/05/18 16:14	12/12/18 06:02	309-00-2	
alpha-BHC	<0.29	ug/kg	4.0	0.29	2	12/05/18 16:14	12/12/18 06:02	319-84-6	
beta-BHC	<0.54	ug/kg	4.0	0.54	2	12/05/18 16:14	12/12/18 06:02	319-85-7	
delta-BHC	<0.33	ug/kg	4.0	0.33	2	12/05/18 16:14	12/12/18 06:02	319-86-8	
gamma-BHC (Lindane)	<0.34	ug/kg	4.0	0.34	2	12/05/18 16:14	12/12/18 06:02	58-89-9	
Chlordane (Technical)	<7.3	ug/kg	40.2	7.3	2	12/05/18 16:14	12/12/18 06:02	57-74-9	
alpha-Chlordane	<0.33	ug/kg	4.0	0.33	2	12/05/18 16:14	12/12/18 06:02	5103-71-9	
gamma-Chlordane	<0.93	ug/kg	4.0	0.93	2	12/05/18 16:14	12/12/18 06:02	5103-74-2	
4,4'-DDD	<0.73	ug/kg	8.0	0.73	2	12/05/18 16:14	12/12/18 06:02	72-54-8	
4,4'-DDE	1.4J	ug/kg	8.0	0.60	2	12/05/18 16:14	12/12/18 06:02	72-55-9	
4,4'-DDT	2.4J	ug/kg	8.0	1.0	2	12/05/18 16:14	12/12/18 06:02	50-29-3	
Dieldrin	1.2J	ug/kg	8.0	0.78	2	12/05/18 16:14	12/12/18 06:02	60-57-1	
Endosulfan I	<0.36	ug/kg	4.0	0.36	2	12/05/18 16:14	12/12/18 06:02	959-98-8	
Endosulfan II	<0.81	ug/kg	8.0	0.81	2	12/05/18 16:14	12/12/18 06:02	33213-65-9	
Endosulfan sulfate	<0.83	ug/kg	8.0	0.83	2	12/05/18 16:14	12/12/18 06:02	1031-07-8	
Endrin	<0.72	ug/kg	8.0	0.72	2	12/05/18 16:14	12/12/18 06:02	72-20-8	
Endrin aldehyde	<2.5	ug/kg	8.0	2.5	2	12/05/18 16:14	12/12/18 06:02	7421-93-4	
Endrin ketone	<0.95	ug/kg	8.0	0.95	2	12/05/18 16:14	12/12/18 06:02	53494-70-5	
Heptachlor	<0.43	ug/kg	4.0	0.43	2	12/05/18 16:14	12/12/18 06:02	76-44-8	
Heptachlor epoxide	0.42J	ug/kg	4.0	0.38	2	12/05/18 16:14	12/12/18 06:02	1024-57-3	
Methoxychlor	<6.0	ug/kg	40.2	6.0	2	12/05/18 16:14	12/12/18 06:02	72-43-5	
Toxaphene	42.8J	ug/kg	120	19.1	2	12/05/18 16:14	12/13/18 10:55	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	86	%	30-150		2	12/05/18 16:14	12/12/18 06:02	877-09-8	5M,D3
Decachlorobiphenyl (S)	73	%	30-150		2	12/05/18 16:14	12/12/18 06:02	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.2	ug/kg	40.1	11.2	1	12/05/18 14:01	12/07/18 22:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.1	ug/kg	40.1	14.1	1	12/05/18 14:01	12/07/18 22:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.0	ug/kg	40.1	16.0	1	12/05/18 14:01	12/07/18 22:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<13.6	ug/kg	40.1	13.6	1	12/05/18 14:01	12/07/18 22:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.0	ug/kg	40.1	12.0	1	12/05/18 14:01	12/07/18 22:23	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.8	ug/kg	40.1	11.8	1	12/05/18 14:01	12/07/18 22:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.6	ug/kg	40.1	9.6	1	12/05/18 14:01	12/07/18 22:23	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	48-125		1	12/05/18 14:01	12/07/18 22:23	877-09-8	
Decachlorobiphenyl (S)	89	%	30-134		1	12/05/18 14:01	12/07/18 22:23	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	4.6J	mg/kg	18.1	2.9	1	12/05/18 15:46	12/13/18 13:39	68334-30-5	
Motor Oil Range	12.2	mg/kg	12.1	5.2	1	12/05/18 15:46	12/13/18 13:39		
<b>Surrogates</b>									
n-Triacontane (S)	90	%	50-150		1	12/05/18 15:46	12/13/18 13:39	638-68-6	
o-Terphenyl (S)	89	%	50-150		1	12/05/18 15:46	12/13/18 13:39	84-15-1	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (2)**      **Lab ID: 10457121036**      Collected: 11/28/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.98	mg/kg	7.5	0.98	1	12/11/18 12:55	12/12/18 05:36		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	90	%	50-150		1	12/11/18 12:55	12/12/18 05:36	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.46	mg/kg	1.2	0.46	1	12/07/18 10:11	12/10/18 13:47	7440-36-0	
Arsenic	1.5	mg/kg	1.2	0.25	1	12/07/18 10:11	12/10/18 13:47	7440-38-2	
Beryllium	0.41	mg/kg	0.30	0.016	1	12/07/18 10:11	12/10/18 13:47	7440-41-7	
Cadmium	0.12J	mg/kg	0.18	0.024	1	12/07/18 10:11	12/10/18 13:47	7440-43-9	
Chromium	5.6	mg/kg	0.61	0.10	1	12/07/18 10:11	12/10/18 13:47	7440-47-3	
Copper	17.4	mg/kg	0.61	0.068	1	12/07/18 10:11	12/10/18 13:47	7440-50-8	
Lead	14.6	mg/kg	0.61	0.14	1	12/07/18 10:11	12/10/18 13:47	7439-92-1	
Nickel	5.8	mg/kg	1.2	0.077	1	12/07/18 10:11	12/10/18 13:47	7440-02-0	
Selenium	<0.40	mg/kg	1.2	0.40	1	12/07/18 10:11	12/10/18 13:47	7782-49-2	
Silver	<0.044	mg/kg	0.61	0.044	1	12/07/18 10:11	12/10/18 13:47	7440-22-4	
Thallium	<0.28	mg/kg	1.2	0.28	1	12/07/18 10:11	12/10/18 13:47	7440-28-0	
Zinc	75.4	mg/kg	1.2	0.53	1	12/07/18 10:11	12/10/18 13:47	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.011J	mg/kg	0.023	0.0092	1	12/07/18 10:13	12/11/18 12:48	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	17.8	%	0.10	0.10	1		12/12/18 12:46		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<42.8	ug/kg	401	42.8	1	12/04/18 19:00	12/11/18 14:56	83-32-9	
Acenaphthylene	<51.2	ug/kg	401	51.2	1	12/04/18 19:00	12/11/18 14:56	208-96-8	
Anthracene	<47.1	ug/kg	401	47.1	1	12/04/18 19:00	12/11/18 14:56	120-12-7	
Benzo(a)anthracene	103J	ug/kg	401	41.2	1	12/04/18 19:00	12/11/18 14:56	56-55-3	
Benzo(a)pyrene	103J	ug/kg	401	45.5	1	12/04/18 19:00	12/11/18 14:56	50-32-8	
Benzo(b)fluoranthene	123J	ug/kg	401	39.3	1	12/04/18 19:00	12/11/18 14:56	205-99-2	
Benzo(g,h,i)perylene	69.6J	ug/kg	401	42.9	1	12/04/18 19:00	12/11/18 14:56	191-24-2	
Benzo(k)fluoranthene	<50.1	ug/kg	401	50.1	1	12/04/18 19:00	12/11/18 14:56	207-08-9	
4-Bromophenylphenyl ether	<47.8	ug/kg	401	47.8	1	12/04/18 19:00	12/11/18 14:56	101-55-3	
Butylbenzylphthalate	<36.7	ug/kg	401	36.7	1	12/04/18 19:00	12/11/18 14:56	85-68-7	
Carbazole	<33.3	ug/kg	401	33.3	1	12/04/18 19:00	12/11/18 14:56	86-74-8	
4-Chloro-3-methylphenol	<64.2	ug/kg	401	64.2	1	12/04/18 19:00	12/11/18 14:56	59-50-7	
4-Chloroaniline	<107	ug/kg	401	107	1	12/04/18 19:00	12/11/18 14:56	106-47-8	
bis(2-Chloroethoxy)methane	<41.1	ug/kg	401	41.1	1	12/04/18 19:00	12/11/18 14:56	111-91-1	
bis(2-Chloroethyl) ether	<31.7	ug/kg	401	31.7	1	12/04/18 19:00	12/11/18 14:56	111-44-4	
bis(2-Chloroisopropyl) ether	<41.4	ug/kg	401	41.4	1	12/04/18 19:00	12/11/18 14:56	108-60-1	
2-Chloronaphthalene	<35.5	ug/kg	401	35.5	1	12/04/18 19:00	12/11/18 14:56	91-58-7	
2-Chlorophenol	<45.7	ug/kg	401	45.7	1	12/04/18 19:00	12/11/18 14:56	95-57-8	
4-Chlorophenylphenyl ether	<49.7	ug/kg	401	49.7	1	12/04/18 19:00	12/11/18 14:56	7005-72-3	
Chrysene	112J	ug/kg	401	42.3	1	12/04/18 19:00	12/11/18 14:56	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (2)**      **Lab ID: 10457121036**      Collected: 11/28/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<42.7	ug/kg	401	42.7	1	12/04/18 19:00	12/11/18 14:56	53-70-3	
Dibenzofuran	<50.8	ug/kg	401	50.8	1	12/04/18 19:00	12/11/18 14:56	132-64-9	
1,2-Dichlorobenzene	<42.1	ug/kg	401	42.1	1	12/04/18 19:00	12/11/18 14:56	95-50-1	
1,3-Dichlorobenzene	<27.5	ug/kg	401	27.5	1	12/04/18 19:00	12/11/18 14:56	541-73-1	
1,4-Dichlorobenzene	<44.6	ug/kg	401	44.6	1	12/04/18 19:00	12/11/18 14:56	106-46-7	
3,3'-Dichlorobenzidine	<135	ug/kg	401	135	1	12/04/18 19:00	12/11/18 14:56	91-94-1	
2,4-Dichlorophenol	<67.0	ug/kg	401	67.0	1	12/04/18 19:00	12/11/18 14:56	120-83-2	
Diethylphthalate	<35.8	ug/kg	401	35.8	1	12/04/18 19:00	12/11/18 14:56	84-66-2	
2,4-Dimethylphenol	<157	ug/kg	401	157	1	12/04/18 19:00	12/11/18 14:56	105-67-9	
Dimethylphthalate	<54.5	ug/kg	401	54.5	1	12/04/18 19:00	12/11/18 14:56	131-11-3	
Di-n-butylphthalate	<55.0	ug/kg	401	55.0	1	12/04/18 19:00	12/11/18 14:56	84-74-2	
4,6-Dinitro-2-methylphenol	<398	ug/kg	2070	398	1	12/04/18 19:00	12/11/18 14:56	534-52-1	
2,4-Dinitrophenol	<187	ug/kg	401	187	1	12/04/18 19:00	12/11/18 14:56	51-28-5	
2,4-Dinitrotoluene	<51.1	ug/kg	401	51.1	1	12/04/18 19:00	12/11/18 14:56	121-14-2	
2,6-Dinitrotoluene	<53.2	ug/kg	401	53.2	1	12/04/18 19:00	12/11/18 14:56	606-20-2	
Di-n-octylphthalate	<46.6	ug/kg	401	46.6	1	12/04/18 19:00	12/11/18 14:56	117-84-0	
1,2-Diphenylhydrazine	<49.3	ug/kg	401	49.3	1	12/04/18 19:00	12/11/18 14:56	122-66-7	
bis(2-Ethylhexyl)phthalate	<83.7	ug/kg	401	83.7	1	12/04/18 19:00	12/11/18 14:56	117-81-7	
Fluoranthene	166J	ug/kg	401	46.1	1	12/04/18 19:00	12/11/18 14:56	206-44-0	
Fluorene	<184	ug/kg	401	184	1	12/04/18 19:00	12/11/18 14:56	86-73-7	
Hexachloro-1,3-butadiene	<61.1	ug/kg	401	61.1	1	12/04/18 19:00	12/11/18 14:56	87-68-3	
Hexachlorobenzene	<65.4	ug/kg	401	65.4	1	12/04/18 19:00	12/11/18 14:56	118-74-1	
Hexachloroethane	<52.2	ug/kg	401	52.2	1	12/04/18 19:00	12/11/18 14:56	67-72-1	
Indeno(1,2,3-cd)pyrene	60.7J	ug/kg	401	24.2	1	12/04/18 19:00	12/11/18 14:56	193-39-5	
Isophorone	<30.9	ug/kg	401	30.9	1	12/04/18 19:00	12/11/18 14:56	78-59-1	
1-Methylnaphthalene	<37.1	ug/kg	401	37.1	1	12/04/18 19:00	12/11/18 14:56	90-12-0	
2-Methylnaphthalene	<36.2	ug/kg	401	36.2	1	12/04/18 19:00	12/11/18 14:56	91-57-6	
2-Methylphenol(o-Cresol)	<25.1	ug/kg	401	25.1	1	12/04/18 19:00	12/11/18 14:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	<22.6	ug/kg	803	22.6	1	12/04/18 19:00	12/11/18 14:56		
Naphthalene	<30.9	ug/kg	401	30.9	1	12/04/18 19:00	12/11/18 14:56	91-20-3	
2-Nitroaniline	<101	ug/kg	401	101	1	12/04/18 19:00	12/11/18 14:56	88-74-4	
3-Nitroaniline	<43.8	ug/kg	401	43.8	1	12/04/18 19:00	12/11/18 14:56	99-09-2	
4-Nitroaniline	<58.6	ug/kg	401	58.6	1	12/04/18 19:00	12/11/18 14:56	100-01-6	
Nitrobenzene	<44.2	ug/kg	401	44.2	1	12/04/18 19:00	12/11/18 14:56	98-95-3	
2-Nitrophenol	<48.9	ug/kg	401	48.9	1	12/04/18 19:00	12/11/18 14:56	88-75-5	
4-Nitrophenol	<77.8	ug/kg	401	77.8	1	12/04/18 19:00	12/11/18 14:56	100-02-7	
N-Nitrosodimethylamine	<49.3	ug/kg	401	49.3	1	12/04/18 19:00	12/11/18 14:56	62-75-9	
N-Nitroso-di-n-propylamine	<184	ug/kg	401	184	1	12/04/18 19:00	12/11/18 14:56	621-64-7	
N-Nitrosodiphenylamine	<26.0	ug/kg	401	26.0	1	12/04/18 19:00	12/11/18 14:56	86-30-6	
Pentachlorophenol	<235	ug/kg	815	235	1	12/04/18 19:00	12/11/18 14:56	87-86-5	
Phenanthrene	59.4J	ug/kg	401	46.7	1	12/04/18 19:00	12/11/18 14:56	85-01-8	
Phenol	<26.3	ug/kg	401	26.3	1	12/04/18 19:00	12/11/18 14:56	108-95-2	
Pyrene	164J	ug/kg	401	30.5	1	12/04/18 19:00	12/11/18 14:56	129-00-0	
1,2,4-Trichlorobenzene	<44.0	ug/kg	401	44.0	1	12/04/18 19:00	12/11/18 14:56	120-82-1	
2,4,5-Trichlorophenol	<51.7	ug/kg	401	51.7	1	12/04/18 19:00	12/11/18 14:56	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (2)**      **Lab ID: 10457121036**      Collected: 11/28/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<62.2	ug/kg	401	62.2	1	12/04/18 19:00	12/11/18 14:56	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	70	%	43-125		1	12/04/18 19:00	12/11/18 14:56	4165-60-0	
2-Fluorobiphenyl (S)	64	%	30-132		1	12/04/18 19:00	12/11/18 14:56	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/04/18 19:00	12/11/18 14:56	1718-51-0	
Phenol-d6 (S)	70	%	48-125		1	12/04/18 19:00	12/11/18 14:56	13127-88-3	
2-Fluorophenol (S)	68	%	40-125		1	12/04/18 19:00	12/11/18 14:56	367-12-4	
2,4,6-Tribromophenol (S)	80	%	60-125		1	12/04/18 19:00	12/11/18 14:56	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.27	ug/kg	4.8	0.27	1	03/05/19 10:30	03/05/19 20:35	106-93-4	
Methylene Chloride	<4.4	ug/kg	24.1	4.4	1	03/05/19 10:30	03/05/19 20:35	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	110	%	75-125		1	03/05/19 10:30	03/05/19 20:35	17060-07-0	4M,H3
Toluene-d8 (S)	98	%	75-125		1	03/05/19 10:30	03/05/19 20:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	03/05/19 10:30	03/05/19 20:35	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<24.0	ug/kg	76.3	24.0	1	12/11/18 19:12	12/12/18 18:25	630-20-6	
1,1,1-Trichloroethane	<35.6	ug/kg	76.3	35.6	1	12/11/18 19:12	12/12/18 18:25	71-55-6	
1,1,2,2-Tetrachloroethane	<13.4	ug/kg	305	13.4	1	12/11/18 19:12	12/12/18 18:25	79-34-5	
1,1,2-Trichloroethane	<9.1	ug/kg	76.3	9.1	1	12/11/18 19:12	12/12/18 18:25	79-00-5	
1,1,2-Trichlorotrifluoroethane	<88.5	ug/kg	305	88.5	1	12/11/18 19:12	12/12/18 18:25	76-13-1	
1,1-Dichloroethane	<8.6	ug/kg	76.3	8.6	1	12/11/18 19:12	12/12/18 18:25	75-34-3	
1,1-Dichloroethene	<22.9	ug/kg	305	22.9	1	12/11/18 19:12	12/12/18 18:25	75-35-4	
1,1-Dichloropropene	<35.3	ug/kg	76.3	35.3	1	12/11/18 19:12	12/12/18 18:25	563-58-6	
1,2,3-Trichlorobenzene	<12.2	ug/kg	76.3	12.2	1	12/11/18 19:12	12/12/18 18:25	87-61-6	
1,2,3-Trichloropropane	<20.0	ug/kg	305	20.0	1	12/11/18 19:12	12/12/18 18:25	96-18-4	
1,2,4-Trichlorobenzene	<16.9	ug/kg	76.3	16.9	1	12/11/18 19:12	12/12/18 18:25	120-82-1	
1,2,4-Trimethylbenzene	<15.3	ug/kg	76.3	15.3	1	12/11/18 19:12	12/12/18 18:25	95-63-6	
1,2-Dibromo-3-chloropropane	<266	ug/kg	763	266	1	12/11/18 19:12	12/12/18 18:25	96-12-8	
1,2-Dibromoethane (EDB)	<8.0	ug/kg	76.3	8.0	1	12/11/18 19:12	12/12/18 18:25	106-93-4	
1,2-Dichlorobenzene	<3.1	ug/kg	76.3	3.1	1	12/11/18 19:12	12/12/18 18:25	95-50-1	
1,2-Dichloroethane	<8.4	ug/kg	76.3	8.4	1	12/11/18 19:12	12/12/18 18:25	107-06-2	
1,2-Dichloropropane	<13.2	ug/kg	76.3	13.2	1	12/11/18 19:12	12/12/18 18:25	78-87-5	
1,3,5-Trimethylbenzene	<12.2	ug/kg	76.3	12.2	1	12/11/18 19:12	12/12/18 18:25	108-67-8	
1,3-Dichlorobenzene	<2.8	ug/kg	76.3	2.8	1	12/11/18 19:12	12/12/18 18:25	541-73-1	
1,3-Dichloropropane	<10.6	ug/kg	76.3	10.6	1	12/11/18 19:12	12/12/18 18:25	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/kg	76.3	4.7	1	12/11/18 19:12	12/12/18 18:25	106-46-7	
2,2-Dichloropropane	<9.5	ug/kg	305	9.5	1	12/11/18 19:12	12/12/18 18:25	594-20-7	
2-Butanone (MEK)	<40.6	ug/kg	382	40.6	1	12/11/18 19:12	12/12/18 18:25	78-93-3	
2-Chlorotoluene	<3.8	ug/kg	76.3	3.8	1	12/11/18 19:12	12/12/18 18:25	95-49-8	
4-Chlorotoluene	<3.9	ug/kg	76.3	3.9	1	12/11/18 19:12	12/12/18 18:25	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.9	ug/kg	382	15.9	1	12/11/18 19:12	12/12/18 18:25	108-10-1	
Acetone	808J	ug/kg	1530	475	1	12/11/18 19:12	12/12/18 18:25	67-64-1	B

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (2)**      **Lab ID: 10457121036**      Collected: 11/28/18 14:40      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<63.9	ug/kg	305	63.9	1	12/11/18 19:12	12/12/18 18:25	107-05-1	
Benzene	<4.3	ug/kg	30.5	4.3	1	12/11/18 19:12	12/12/18 18:25	71-43-2	
Bromobenzene	<4.7	ug/kg	76.3	4.7	1	12/11/18 19:12	12/12/18 18:25	108-86-1	
Bromochloromethane	<26.4	ug/kg	76.3	26.4	1	12/11/18 19:12	12/12/18 18:25	74-97-5	
Bromodichloromethane	<26.1	ug/kg	76.3	26.1	1	12/11/18 19:12	12/12/18 18:25	75-27-4	
Bromoform	<116	ug/kg	305	116	1	12/11/18 19:12	12/12/18 18:25	75-25-2	
Bromomethane	<89.3	ug/kg	763	89.3	1	12/11/18 19:12	12/12/18 18:25	74-83-9	
Carbon tetrachloride	<36.5	ug/kg	76.3	36.5	1	12/11/18 19:12	12/12/18 18:25	56-23-5	
Chlorobenzene	<4.3	ug/kg	76.3	4.3	1	12/11/18 19:12	12/12/18 18:25	108-90-7	
Chloroethane	<39.7	ug/kg	763	39.7	1	12/11/18 19:12	12/12/18 18:25	75-00-3	L2
Chloroform	<38.2	ug/kg	76.3	38.2	1	12/11/18 19:12	12/12/18 18:25	67-66-3	
Chloromethane	<18.3	ug/kg	305	18.3	1	12/11/18 19:12	12/12/18 18:25	74-87-3	
Dibromochloromethane	<8.9	ug/kg	305	8.9	1	12/11/18 19:12	12/12/18 18:25	124-48-1	
Dibromomethane	<14.0	ug/kg	76.3	14.0	1	12/11/18 19:12	12/12/18 18:25	74-95-3	
Dichlorodifluoromethane	<24.7	ug/kg	305	24.7	1	12/11/18 19:12	12/12/18 18:25	75-71-8	
Dichlorofluoromethane	<105	ug/kg	763	105	1	12/11/18 19:12	12/12/18 18:25	75-43-4	N2
Diethyl ether (Ethyl ether)	<46.7	ug/kg	305	46.7	1	12/11/18 19:12	12/12/18 18:25	60-29-7	
Ethylbenzene	<4.2	ug/kg	76.3	4.2	1	12/11/18 19:12	12/12/18 18:25	100-41-4	
Hexachloro-1,3-butadiene	<18.6	ug/kg	382	18.6	1	12/11/18 19:12	12/12/18 18:25	87-68-3	
Isopropylbenzene (Cumene)	<3.4	ug/kg	76.3	3.4	1	12/11/18 19:12	12/12/18 18:25	98-82-8	
Methyl-tert-butyl ether	<9.1	ug/kg	76.3	9.1	1	12/11/18 19:12	12/12/18 18:25	1634-04-4	
Methylene Chloride	<144	ug/kg	305	144	1	12/11/18 19:12	12/12/18 18:25	75-09-2	
Naphthalene	<71.4	ug/kg	305	71.4	1	12/11/18 19:12	12/12/18 18:25	91-20-3	
Styrene	<3.5	ug/kg	76.3	3.5	1	12/11/18 19:12	12/12/18 18:25	100-42-5	
Tetrachloroethene	<26.9	ug/kg	76.3	26.9	1	12/11/18 19:12	12/12/18 18:25	127-18-4	
Tetrahydrofuran	<111	ug/kg	3050	111	1	12/11/18 19:12	12/12/18 18:25	109-99-9	
Toluene	<18.6	ug/kg	76.3	18.6	1	12/11/18 19:12	12/12/18 18:25	108-88-3	
Trichloroethene	<11.8	ug/kg	76.3	11.8	1	12/11/18 19:12	12/12/18 18:25	79-01-6	
Trichlorofluoromethane	<133	ug/kg	305	133	1	12/11/18 19:12	12/12/18 18:25	75-69-4	
Vinyl chloride	<15.0	ug/kg	76.3	15.0	1	12/11/18 19:12	12/12/18 18:25	75-01-4	
Xylene (Total)	<17.7	ug/kg	229	17.7	1	12/11/18 19:12	12/12/18 18:25	1330-20-7	
cis-1,2-Dichloroethene	<12.7	ug/kg	76.3	12.7	1	12/11/18 19:12	12/12/18 18:25	156-59-2	
cis-1,3-Dichloropropene	<10.9	ug/kg	76.3	10.9	1	12/11/18 19:12	12/12/18 18:25	10061-01-5	
n-Butylbenzene	<36.3	ug/kg	76.3	36.3	1	12/11/18 19:12	12/12/18 18:25	104-51-8	
n-Propylbenzene	<4.1	ug/kg	76.3	4.1	1	12/11/18 19:12	12/12/18 18:25	103-65-1	
p-Isopropyltoluene	<23.2	ug/kg	76.3	23.2	1	12/11/18 19:12	12/12/18 18:25	99-87-6	
sec-Butylbenzene	<14.6	ug/kg	76.3	14.6	1	12/11/18 19:12	12/12/18 18:25	135-98-8	
tert-Butylbenzene	<14.7	ug/kg	76.3	14.7	1	12/11/18 19:12	12/12/18 18:25	98-06-6	
trans-1,2-Dichloroethene	<35.7	ug/kg	76.3	35.7	1	12/11/18 19:12	12/12/18 18:25	156-60-5	
trans-1,3-Dichloropropene	<10.6	ug/kg	76.3	10.6	1	12/11/18 19:12	12/12/18 18:25	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 18:25	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 18:25	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 18:25	460-00-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (5)**      **Lab ID: 10457121037**      Collected: 11/28/18 15:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.27	ug/kg	2.7	0.27	1	12/05/18 16:14	12/12/18 12:07	309-00-2	
alpha-BHC	<0.19	ug/kg	2.7	0.19	1	12/05/18 16:14	12/12/18 12:07	319-84-6	
beta-BHC	<0.36	ug/kg	2.7	0.36	1	12/05/18 16:14	12/12/18 12:07	319-85-7	
delta-BHC	<0.22	ug/kg	2.7	0.22	1	12/05/18 16:14	12/12/18 12:07	319-86-8	
gamma-BHC (Lindane)	<0.23	ug/kg	2.7	0.23	1	12/05/18 16:14	12/12/18 12:07	58-89-9	
Chlordane (Technical)	<4.9	ug/kg	26.8	4.9	1	12/05/18 16:14	12/12/18 12:07	57-74-9	
alpha-Chlordane	<0.22	ug/kg	2.7	0.22	1	12/05/18 16:14	12/12/18 12:07	5103-71-9	
gamma-Chlordane	<0.62	ug/kg	2.7	0.62	1	12/05/18 16:14	12/12/18 12:07	5103-74-2	
4,4'-DDD	<0.49	ug/kg	5.3	0.49	1	12/05/18 16:14	12/12/18 12:07	72-54-8	
4,4'-DDE	<0.40	ug/kg	5.3	0.40	1	12/05/18 16:14	12/12/18 12:07	72-55-9	
4,4'-DDT	<0.67	ug/kg	5.3	0.67	1	12/05/18 16:14	12/12/18 12:07	50-29-3	
Dieldrin	<0.52	ug/kg	5.3	0.52	1	12/05/18 16:14	12/12/18 12:07	60-57-1	
Endosulfan I	<0.24	ug/kg	2.7	0.24	1	12/05/18 16:14	12/12/18 12:07	959-98-8	
Endosulfan II	<0.54	ug/kg	5.3	0.54	1	12/05/18 16:14	12/12/18 12:07	33213-65-9	
Endosulfan sulfate	<0.55	ug/kg	5.3	0.55	1	12/05/18 16:14	12/12/18 12:07	1031-07-8	
Endrin	<0.48	ug/kg	5.3	0.48	1	12/05/18 16:14	12/12/18 12:07	72-20-8	
Endrin aldehyde	<1.7	ug/kg	5.3	1.7	1	12/05/18 16:14	12/12/18 12:07	7421-93-4	
Endrin ketone	<0.63	ug/kg	5.3	0.63	1	12/05/18 16:14	12/12/18 12:07	53494-70-5	
Heptachlor	<0.29	ug/kg	2.7	0.29	1	12/05/18 16:14	12/12/18 12:07	76-44-8	
Heptachlor epoxide	<0.25	ug/kg	2.7	0.25	1	12/05/18 16:14	12/12/18 12:07	1024-57-3	
Methoxychlor	<4.0	ug/kg	26.8	4.0	1	12/05/18 16:14	12/12/18 12:07	72-43-5	
Toxaphene	<12.7	ug/kg	80.3	12.7	1	12/05/18 16:14	12/12/18 12:07	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	30-150		1	12/05/18 16:14	12/12/18 12:07	877-09-8	
Decachlorobiphenyl (S)	60	%	30-150		1	12/05/18 16:14	12/12/18 12:07	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<14.7	ug/kg	53.0	14.7	1	12/05/18 14:01	12/07/18 22:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.6	ug/kg	53.0	18.6	1	12/05/18 14:01	12/07/18 22:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<21.2	ug/kg	53.0	21.2	1	12/05/18 14:01	12/07/18 22:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<18.0	ug/kg	53.0	18.0	1	12/05/18 14:01	12/07/18 22:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.9	ug/kg	53.0	15.9	1	12/05/18 14:01	12/07/18 22:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	53.0	15.6	1	12/05/18 14:01	12/07/18 22:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<12.7	ug/kg	53.0	12.7	1	12/05/18 14:01	12/07/18 22:39	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	70	%	48-125		1	12/05/18 14:01	12/07/18 22:39	877-09-8	
Decachlorobiphenyl (S)	82	%	30-134		1	12/05/18 14:01	12/07/18 22:39	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.8	mg/kg	23.7	3.8	1	12/05/18 15:46	12/13/18 13:51	68334-30-5	
Motor Oil Range	<6.9	mg/kg	15.8	6.9	1	12/05/18 15:46	12/13/18 13:51		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/05/18 15:46	12/13/18 13:51	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	12/05/18 15:46	12/13/18 13:51	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (5)**      **Lab ID: 10457121037**      Collected: 11/28/18 15:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>2.0J</b>	mg/kg	8.7	1.1	1	12/11/18 12:55	12/12/18 05:53		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	93	%	50-150		1	12/11/18 12:55	12/12/18 05:53	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;0.56</b>	mg/kg	1.5	0.56	1	12/07/18 10:11	12/10/18 13:50	7440-36-0	
Arsenic	<b>1.4J</b>	mg/kg	1.5	0.31	1	12/07/18 10:11	12/10/18 13:50	7440-38-2	
Beryllium	<b>0.58</b>	mg/kg	0.37	0.020	1	12/07/18 10:11	12/10/18 13:50	7440-41-7	
Cadmium	<b>0.030J</b>	mg/kg	0.22	0.030	1	12/07/18 10:11	12/10/18 13:50	7440-43-9	
Chromium	<b>7.2</b>	mg/kg	0.75	0.13	1	12/07/18 10:11	12/10/18 13:50	7440-47-3	
Copper	<b>20.5</b>	mg/kg	0.75	0.083	1	12/07/18 10:11	12/10/18 13:50	7440-50-8	
Lead	<b>3.3</b>	mg/kg	0.75	0.17	1	12/07/18 10:11	12/10/18 13:50	7439-92-1	
Nickel	<b>6.5</b>	mg/kg	1.5	0.094	1	12/07/18 10:11	12/10/18 13:50	7440-02-0	
Selenium	<b>&lt;0.49</b>	mg/kg	1.5	0.49	1	12/07/18 10:11	12/10/18 13:50	7782-49-2	
Silver	<b>&lt;0.054</b>	mg/kg	0.75	0.054	1	12/07/18 10:11	12/10/18 13:50	7440-22-4	
Thallium	<b>&lt;0.34</b>	mg/kg	1.5	0.34	1	12/07/18 10:11	12/10/18 13:50	7440-28-0	
Zinc	<b>31.0</b>	mg/kg	1.5	0.65	1	12/07/18 10:11	12/10/18 13:50	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>&lt;0.011</b>	mg/kg	0.028	0.011	1	12/07/18 10:13	12/11/18 12:50	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>38.0</b>	%	0.10	0.10	1		12/12/18 12:46		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<b>&lt;56.7</b>	ug/kg	531	56.7	1	12/04/18 19:00	12/11/18 16:23	83-32-9	
Acenaphthylene	<b>&lt;67.8</b>	ug/kg	531	67.8	1	12/04/18 19:00	12/11/18 16:23	208-96-8	
Anthracene	<b>&lt;62.3</b>	ug/kg	531	62.3	1	12/04/18 19:00	12/11/18 16:23	120-12-7	
Benzo(a)anthracene	<b>&lt;54.6</b>	ug/kg	531	54.6	1	12/04/18 19:00	12/11/18 16:23	56-55-3	
Benzo(a)pyrene	<b>&lt;60.2</b>	ug/kg	531	60.2	1	12/04/18 19:00	12/11/18 16:23	50-32-8	
Benzo(b)fluoranthene	<b>&lt;52.0</b>	ug/kg	531	52.0	1	12/04/18 19:00	12/11/18 16:23	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;56.8</b>	ug/kg	531	56.8	1	12/04/18 19:00	12/11/18 16:23	191-24-2	
Benzo(k)fluoranthene	<b>&lt;66.3</b>	ug/kg	531	66.3	1	12/04/18 19:00	12/11/18 16:23	207-08-9	
4-Bromophenylphenyl ether	<b>&lt;63.3</b>	ug/kg	531	63.3	1	12/04/18 19:00	12/11/18 16:23	101-55-3	
Butylbenzylphthalate	<b>&lt;48.6</b>	ug/kg	531	48.6	1	12/04/18 19:00	12/11/18 16:23	85-68-7	
Carbazole	<b>&lt;44.1</b>	ug/kg	531	44.1	1	12/04/18 19:00	12/11/18 16:23	86-74-8	
4-Chloro-3-methylphenol	<b>&lt;85.0</b>	ug/kg	531	85.0	1	12/04/18 19:00	12/11/18 16:23	59-50-7	
4-Chloroaniline	<b>&lt;141</b>	ug/kg	531	141	1	12/04/18 19:00	12/11/18 16:23	106-47-8	
bis(2-Chloroethoxy)methane	<b>&lt;54.4</b>	ug/kg	531	54.4	1	12/04/18 19:00	12/11/18 16:23	111-91-1	
bis(2-Chloroethyl) ether	<b>&lt;42.0</b>	ug/kg	531	42.0	1	12/04/18 19:00	12/11/18 16:23	111-44-4	
bis(2-Chloroisopropyl) ether	<b>&lt;54.7</b>	ug/kg	531	54.7	1	12/04/18 19:00	12/11/18 16:23	108-60-1	
2-Chloronaphthalene	<b>&lt;47.0</b>	ug/kg	531	47.0	1	12/04/18 19:00	12/11/18 16:23	91-58-7	
2-Chlorophenol	<b>&lt;60.5</b>	ug/kg	531	60.5	1	12/04/18 19:00	12/11/18 16:23	95-57-8	
4-Chlorophenylphenyl ether	<b>&lt;65.8</b>	ug/kg	531	65.8	1	12/04/18 19:00	12/11/18 16:23	7005-72-3	
Chrysene	<b>&lt;56.0</b>	ug/kg	531	56.0	1	12/04/18 19:00	12/11/18 16:23	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (5)**      **Lab ID: 10457121037**      Collected: 11/28/18 15:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<56.5	ug/kg	531	56.5	1	12/04/18 19:00	12/11/18 16:23	53-70-3	
Dibenzofuran	<67.3	ug/kg	531	67.3	1	12/04/18 19:00	12/11/18 16:23	132-64-9	
1,2-Dichlorobenzene	<55.7	ug/kg	531	55.7	1	12/04/18 19:00	12/11/18 16:23	95-50-1	
1,3-Dichlorobenzene	<36.4	ug/kg	531	36.4	1	12/04/18 19:00	12/11/18 16:23	541-73-1	
1,4-Dichlorobenzene	<59.1	ug/kg	531	59.1	1	12/04/18 19:00	12/11/18 16:23	106-46-7	
3,3'-Dichlorobenzidine	<178	ug/kg	531	178	1	12/04/18 19:00	12/11/18 16:23	91-94-1	
2,4-Dichlorophenol	<88.7	ug/kg	531	88.7	1	12/04/18 19:00	12/11/18 16:23	120-83-2	
Diethylphthalate	<47.3	ug/kg	531	47.3	1	12/04/18 19:00	12/11/18 16:23	84-66-2	
2,4-Dimethylphenol	<208	ug/kg	531	208	1	12/04/18 19:00	12/11/18 16:23	105-67-9	
Dimethylphthalate	<72.1	ug/kg	531	72.1	1	12/04/18 19:00	12/11/18 16:23	131-11-3	
Di-n-butylphthalate	<72.7	ug/kg	531	72.7	1	12/04/18 19:00	12/11/18 16:23	84-74-2	
4,6-Dinitro-2-methylphenol	<526	ug/kg	2740	526	1	12/04/18 19:00	12/11/18 16:23	534-52-1	
2,4-Dinitrophenol	<248	ug/kg	531	248	1	12/04/18 19:00	12/11/18 16:23	51-28-5	
2,4-Dinitrotoluene	<67.6	ug/kg	531	67.6	1	12/04/18 19:00	12/11/18 16:23	121-14-2	
2,6-Dinitrotoluene	<70.3	ug/kg	531	70.3	1	12/04/18 19:00	12/11/18 16:23	606-20-2	
Di-n-octylphthalate	<61.6	ug/kg	531	61.6	1	12/04/18 19:00	12/11/18 16:23	117-84-0	
1,2-Diphenylhydrazine	<65.2	ug/kg	531	65.2	1	12/04/18 19:00	12/11/18 16:23	122-66-7	
bis(2-Ethylhexyl)phthalate	<111	ug/kg	531	111	1	12/04/18 19:00	12/11/18 16:23	117-81-7	
Fluoranthene	<61.0	ug/kg	531	61.0	1	12/04/18 19:00	12/11/18 16:23	206-44-0	
Fluorene	<243	ug/kg	531	243	1	12/04/18 19:00	12/11/18 16:23	86-73-7	
Hexachloro-1,3-butadiene	<80.8	ug/kg	531	80.8	1	12/04/18 19:00	12/11/18 16:23	87-68-3	
Hexachlorobenzene	<86.6	ug/kg	531	86.6	1	12/04/18 19:00	12/11/18 16:23	118-74-1	
Hexachloroethane	<69.0	ug/kg	531	69.0	1	12/04/18 19:00	12/11/18 16:23	67-72-1	
Indeno(1,2,3-cd)pyrene	<32.0	ug/kg	531	32.0	1	12/04/18 19:00	12/11/18 16:23	193-39-5	
Isophorone	<40.9	ug/kg	531	40.9	1	12/04/18 19:00	12/11/18 16:23	78-59-1	
1-Methylnaphthalene	<49.1	ug/kg	531	49.1	1	12/04/18 19:00	12/11/18 16:23	90-12-0	
2-Methylnaphthalene	<48.0	ug/kg	531	48.0	1	12/04/18 19:00	12/11/18 16:23	91-57-6	
2-Methylphenol(o-Cresol)	<33.2	ug/kg	531	33.2	1	12/04/18 19:00	12/11/18 16:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	<29.9	ug/kg	1060	29.9	1	12/04/18 19:00	12/11/18 16:23		
Naphthalene	<40.9	ug/kg	531	40.9	1	12/04/18 19:00	12/11/18 16:23	91-20-3	
2-Nitroaniline	<133	ug/kg	531	133	1	12/04/18 19:00	12/11/18 16:23	88-74-4	
3-Nitroaniline	<57.9	ug/kg	531	57.9	1	12/04/18 19:00	12/11/18 16:23	99-09-2	
4-Nitroaniline	<77.6	ug/kg	531	77.6	1	12/04/18 19:00	12/11/18 16:23	100-01-6	
Nitrobenzene	<58.4	ug/kg	531	58.4	1	12/04/18 19:00	12/11/18 16:23	98-95-3	
2-Nitrophenol	<64.7	ug/kg	531	64.7	1	12/04/18 19:00	12/11/18 16:23	88-75-5	
4-Nitrophenol	<103	ug/kg	531	103	1	12/04/18 19:00	12/11/18 16:23	100-02-7	
N-Nitrosodimethylamine	<65.2	ug/kg	531	65.2	1	12/04/18 19:00	12/11/18 16:23	62-75-9	
N-Nitroso-di-n-propylamine	<243	ug/kg	531	243	1	12/04/18 19:00	12/11/18 16:23	621-64-7	
N-Nitrosodiphenylamine	<34.4	ug/kg	531	34.4	1	12/04/18 19:00	12/11/18 16:23	86-30-6	
Pentachlorophenol	<311	ug/kg	1080	311	1	12/04/18 19:00	12/11/18 16:23	87-86-5	
Phenanthrene	<61.8	ug/kg	531	61.8	1	12/04/18 19:00	12/11/18 16:23	85-01-8	
Phenol	<34.8	ug/kg	531	34.8	1	12/04/18 19:00	12/11/18 16:23	108-95-2	
Pyrene	<40.4	ug/kg	531	40.4	1	12/04/18 19:00	12/11/18 16:23	129-00-0	
1,2,4-Trichlorobenzene	<58.3	ug/kg	531	58.3	1	12/04/18 19:00	12/11/18 16:23	120-82-1	
2,4,5-Trichlorophenol	<68.4	ug/kg	531	68.4	1	12/04/18 19:00	12/11/18 16:23	95-95-4	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (5)**      **Lab ID: 10457121037**      Collected: 11/28/18 15:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<82.2	ug/kg	531	82.2	1	12/04/18 19:00	12/11/18 16:23	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	70	%	43-125		1	12/04/18 19:00	12/11/18 16:23	4165-60-0	
2-Fluorobiphenyl (S)	51	%	30-132		1	12/04/18 19:00	12/11/18 16:23	321-60-8	
p-Terphenyl-d14 (S)	85	%	62-125		1	12/04/18 19:00	12/11/18 16:23	1718-51-0	
Phenol-d6 (S)	73	%	48-125		1	12/04/18 19:00	12/11/18 16:23	13127-88-3	
2-Fluorophenol (S)	71	%	40-125		1	12/04/18 19:00	12/11/18 16:23	367-12-4	
2,4,6-Tribromophenol (S)	79	%	60-125		1	12/04/18 19:00	12/11/18 16:23	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.35	ug/kg	6.2	0.35	1	03/06/19 14:15	03/06/19 18:56	106-93-4	
Methylene Chloride	<5.7	ug/kg	31.1	5.7	1	03/06/19 14:15	03/06/19 18:56	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	105	%	75-125		1	03/06/19 14:15	03/06/19 18:56	17060-07-0	4M,H3
Toluene-d8 (S)	98	%	75-125		1	03/06/19 14:15	03/06/19 18:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	03/06/19 14:15	03/06/19 18:56	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>800J</b>	ug/kg	1850	574	1	12/11/18 19:12	12/12/18 18:44	67-64-1	B
Allyl chloride	<77.3	ug/kg	369	77.3	1	12/11/18 19:12	12/12/18 18:44	107-05-1	
Benzene	<5.2	ug/kg	36.9	5.2	1	12/11/18 19:12	12/12/18 18:44	71-43-2	
Bromobenzene	<5.7	ug/kg	92.3	5.7	1	12/11/18 19:12	12/12/18 18:44	108-86-1	
Bromochloromethane	<31.9	ug/kg	92.3	31.9	1	12/11/18 19:12	12/12/18 18:44	74-97-5	
Bromodichloromethane	<31.6	ug/kg	92.3	31.6	1	12/11/18 19:12	12/12/18 18:44	75-27-4	
Bromoform	<140	ug/kg	369	140	1	12/11/18 19:12	12/12/18 18:44	75-25-2	
Bromomethane	<108	ug/kg	923	108	1	12/11/18 19:12	12/12/18 18:44	74-83-9	
2-Butanone (MEK)	<49.1	ug/kg	461	49.1	1	12/11/18 19:12	12/12/18 18:44	78-93-3	
n-Butylbenzene	<43.9	ug/kg	92.3	43.9	1	12/11/18 19:12	12/12/18 18:44	104-51-8	
sec-Butylbenzene	<17.7	ug/kg	92.3	17.7	1	12/11/18 19:12	12/12/18 18:44	135-98-8	
tert-Butylbenzene	<17.7	ug/kg	92.3	17.7	1	12/11/18 19:12	12/12/18 18:44	98-06-6	
Carbon tetrachloride	<44.1	ug/kg	92.3	44.1	1	12/11/18 19:12	12/12/18 18:44	56-23-5	
Chlorobenzene	<5.2	ug/kg	92.3	5.2	1	12/11/18 19:12	12/12/18 18:44	108-90-7	
Chloroethane	<48.0	ug/kg	923	48.0	1	12/11/18 19:12	12/12/18 18:44	75-00-3	L2
Chloroform	<46.1	ug/kg	92.3	46.1	1	12/11/18 19:12	12/12/18 18:44	67-66-3	
Chloromethane	<22.1	ug/kg	369	22.1	1	12/11/18 19:12	12/12/18 18:44	74-87-3	
2-Chlorotoluene	<4.5	ug/kg	92.3	4.5	1	12/11/18 19:12	12/12/18 18:44	95-49-8	
4-Chlorotoluene	<4.7	ug/kg	92.3	4.7	1	12/11/18 19:12	12/12/18 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	<321	ug/kg	923	321	1	12/11/18 19:12	12/12/18 18:44	96-12-8	
Dibromochloromethane	<10.7	ug/kg	369	10.7	1	12/11/18 19:12	12/12/18 18:44	124-48-1	
1,2-Dibromoethane (EDB)	<9.7	ug/kg	92.3	9.7	1	12/11/18 19:12	12/12/18 18:44	106-93-4	
Dibromomethane	<16.9	ug/kg	92.3	16.9	1	12/11/18 19:12	12/12/18 18:44	74-95-3	
1,2-Dichlorobenzene	<3.7	ug/kg	92.3	3.7	1	12/11/18 19:12	12/12/18 18:44	95-50-1	
1,3-Dichlorobenzene	<3.4	ug/kg	92.3	3.4	1	12/11/18 19:12	12/12/18 18:44	541-73-1	
1,4-Dichlorobenzene	<5.7	ug/kg	92.3	5.7	1	12/11/18 19:12	12/12/18 18:44	106-46-7	
Dichlorodifluoromethane	<29.9	ug/kg	369	29.9	1	12/11/18 19:12	12/12/18 18:44	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (5)**      **Lab ID: 10457121037**      Collected: 11/28/18 15:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
1,1-Dichloroethane	<10.4	ug/kg	92.3	10.4	1	12/11/18 19:12	12/12/18 18:44	75-34-3	
1,2-Dichloroethane	<10.2	ug/kg	92.3	10.2	1	12/11/18 19:12	12/12/18 18:44	107-06-2	
1,1-Dichloroethene	<27.7	ug/kg	369	27.7	1	12/11/18 19:12	12/12/18 18:44	75-35-4	
cis-1,2-Dichloroethene	<15.3	ug/kg	92.3	15.3	1	12/11/18 19:12	12/12/18 18:44	156-59-2	
trans-1,2-Dichloroethene	<43.2	ug/kg	92.3	43.2	1	12/11/18 19:12	12/12/18 18:44	156-60-5	
Dichlorofluoromethane	<128	ug/kg	923	128	1	12/11/18 19:12	12/12/18 18:44	75-43-4	N2
1,2-Dichloropropane	<15.9	ug/kg	92.3	15.9	1	12/11/18 19:12	12/12/18 18:44	78-87-5	
1,3-Dichloropropane	<12.8	ug/kg	92.3	12.8	1	12/11/18 19:12	12/12/18 18:44	142-28-9	
2,2-Dichloropropane	<11.5	ug/kg	369	11.5	1	12/11/18 19:12	12/12/18 18:44	594-20-7	
1,1-Dichloropropene	<42.6	ug/kg	92.3	42.6	1	12/11/18 19:12	12/12/18 18:44	563-58-6	
cis-1,3-Dichloropropene	<13.2	ug/kg	92.3	13.2	1	12/11/18 19:12	12/12/18 18:44	10061-01-5	
trans-1,3-Dichloropropene	<12.8	ug/kg	92.3	12.8	1	12/11/18 19:12	12/12/18 18:44	10061-02-6	
Diethyl ether (Ethyl ether)	<56.5	ug/kg	369	56.5	1	12/11/18 19:12	12/12/18 18:44	60-29-7	
Ethylbenzene	<5.0	ug/kg	92.3	5.0	1	12/11/18 19:12	12/12/18 18:44	100-41-4	
Hexachloro-1,3-butadiene	<22.5	ug/kg	461	22.5	1	12/11/18 19:12	12/12/18 18:44	87-68-3	
Isopropylbenzene (Cumene)	<4.1	ug/kg	92.3	4.1	1	12/11/18 19:12	12/12/18 18:44	98-82-8	
p-Isopropyltoluene	<28.1	ug/kg	92.3	28.1	1	12/11/18 19:12	12/12/18 18:44	99-87-6	
Methylene Chloride	<174	ug/kg	369	174	1	12/11/18 19:12	12/12/18 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<19.2	ug/kg	461	19.2	1	12/11/18 19:12	12/12/18 18:44	108-10-1	
Methyl-tert-butyl ether	<11.0	ug/kg	92.3	11.0	1	12/11/18 19:12	12/12/18 18:44	1634-04-4	
Naphthalene	<86.4	ug/kg	369	86.4	1	12/11/18 19:12	12/12/18 18:44	91-20-3	
n-Propylbenzene	<4.9	ug/kg	92.3	4.9	1	12/11/18 19:12	12/12/18 18:44	103-65-1	
Styrene	<4.2	ug/kg	92.3	4.2	1	12/11/18 19:12	12/12/18 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	<29.0	ug/kg	92.3	29.0	1	12/11/18 19:12	12/12/18 18:44	630-20-6	
1,1,1,2,2-Tetrachloroethane	<16.3	ug/kg	369	16.3	1	12/11/18 19:12	12/12/18 18:44	79-34-5	
Tetrachloroethene	<32.5	ug/kg	92.3	32.5	1	12/11/18 19:12	12/12/18 18:44	127-18-4	
Tetrahydrofuran	<134	ug/kg	3690	134	1	12/11/18 19:12	12/12/18 18:44	109-99-9	
Toluene	<22.5	ug/kg	92.3	22.5	1	12/11/18 19:12	12/12/18 18:44	108-88-3	
1,2,3-Trichlorobenzene	<14.7	ug/kg	92.3	14.7	1	12/11/18 19:12	12/12/18 18:44	87-61-6	
1,2,4-Trichlorobenzene	<20.5	ug/kg	92.3	20.5	1	12/11/18 19:12	12/12/18 18:44	120-82-1	
1,1,1-Trichloroethane	<43.0	ug/kg	92.3	43.0	1	12/11/18 19:12	12/12/18 18:44	71-55-6	
1,1,2-Trichloroethane	<11.0	ug/kg	92.3	11.0	1	12/11/18 19:12	12/12/18 18:44	79-00-5	
Trichloroethene	<14.2	ug/kg	92.3	14.2	1	12/11/18 19:12	12/12/18 18:44	79-01-6	
Trichlorofluoromethane	<161	ug/kg	369	161	1	12/11/18 19:12	12/12/18 18:44	75-69-4	
1,2,3-Trichloropropane	<24.2	ug/kg	369	24.2	1	12/11/18 19:12	12/12/18 18:44	96-18-4	
1,1,2-Trichlorotrifluoroethane	<107	ug/kg	369	107	1	12/11/18 19:12	12/12/18 18:44	76-13-1	
1,2,4-Trimethylbenzene	<18.5	ug/kg	92.3	18.5	1	12/11/18 19:12	12/12/18 18:44	95-63-6	
1,3,5-Trimethylbenzene	<14.7	ug/kg	92.3	14.7	1	12/11/18 19:12	12/12/18 18:44	108-67-8	
Vinyl chloride	<18.2	ug/kg	92.3	18.2	1	12/11/18 19:12	12/12/18 18:44	75-01-4	
Xylene (Total)	<21.4	ug/kg	277	21.4	1	12/11/18 19:12	12/12/18 18:44	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 18:44	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/11/18 19:12	12/12/18 18:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 18:44	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (8)**      **Lab ID: 10457121038**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
Aldrin	<0.24	ug/kg	2.4	0.24	1	12/05/18 16:14	12/12/18 12:26	309-00-2	
alpha-BHC	<0.17	ug/kg	2.4	0.17	1	12/05/18 16:14	12/12/18 12:26	319-84-6	
beta-BHC	<0.32	ug/kg	2.4	0.32	1	12/05/18 16:14	12/12/18 12:26	319-85-7	
delta-BHC	<0.20	ug/kg	2.4	0.20	1	12/05/18 16:14	12/12/18 12:26	319-86-8	
gamma-BHC (Lindane)	<0.20	ug/kg	2.4	0.20	1	12/05/18 16:14	12/12/18 12:26	58-89-9	
Chlordane (Technical)	<4.4	ug/kg	24.0	4.4	1	12/05/18 16:14	12/12/18 12:26	57-74-9	
alpha-Chlordane	<0.19	ug/kg	2.4	0.19	1	12/05/18 16:14	12/12/18 12:26	5103-71-9	
gamma-Chlordane	<0.55	ug/kg	2.4	0.55	1	12/05/18 16:14	12/12/18 12:26	5103-74-2	
4,4'-DDD	<0.44	ug/kg	4.8	0.44	1	12/05/18 16:14	12/12/18 12:26	72-54-8	
4,4'-DDE	<0.36	ug/kg	4.8	0.36	1	12/05/18 16:14	12/12/18 12:26	72-55-9	
4,4'-DDT	<0.60	ug/kg	4.8	0.60	1	12/05/18 16:14	12/12/18 12:26	50-29-3	
Dieldrin	<0.46	ug/kg	4.8	0.46	1	12/05/18 16:14	12/12/18 12:26	60-57-1	
Endosulfan I	<0.22	ug/kg	2.4	0.22	1	12/05/18 16:14	12/12/18 12:26	959-98-8	
Endosulfan II	<0.48	ug/kg	4.8	0.48	1	12/05/18 16:14	12/12/18 12:26	33213-65-9	
Endosulfan sulfate	<0.49	ug/kg	4.8	0.49	1	12/05/18 16:14	12/12/18 12:26	1031-07-8	
Endrin	<0.43	ug/kg	4.8	0.43	1	12/05/18 16:14	12/12/18 12:26	72-20-8	
Endrin aldehyde	<1.5	ug/kg	4.8	1.5	1	12/05/18 16:14	12/12/18 12:26	7421-93-4	
Endrin ketone	<0.57	ug/kg	4.8	0.57	1	12/05/18 16:14	12/12/18 12:26	53494-70-5	
Heptachlor	<0.26	ug/kg	2.4	0.26	1	12/05/18 16:14	12/12/18 12:26	76-44-8	
Heptachlor epoxide	<0.23	ug/kg	2.4	0.23	1	12/05/18 16:14	12/12/18 12:26	1024-57-3	
Methoxychlor	<3.6	ug/kg	24.0	3.6	1	12/05/18 16:14	12/12/18 12:26	72-43-5	
Toxaphene	<11.4	ug/kg	71.9	11.4	1	12/05/18 16:14	12/12/18 12:26	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	30-150		1	12/05/18 16:14	12/12/18 12:26	877-09-8	
Decachlorobiphenyl (S)	73	%	30-150		1	12/05/18 16:14	12/12/18 12:26	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.3	ug/kg	47.6	13.3	1	12/05/18 14:01	12/07/18 22:55	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.7	ug/kg	47.6	16.7	1	12/05/18 14:01	12/07/18 22:55	11104-28-2	
PCB-1232 (Aroclor 1232)	<19.0	ug/kg	47.6	19.0	1	12/05/18 14:01	12/07/18 22:55	11141-16-5	
PCB-1242 (Aroclor 1242)	<16.2	ug/kg	47.6	16.2	1	12/05/18 14:01	12/07/18 22:55	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.3	ug/kg	47.6	14.3	1	12/05/18 14:01	12/07/18 22:55	12672-29-6	
PCB-1254 (Aroclor 1254)	<14.0	ug/kg	47.6	14.0	1	12/05/18 14:01	12/07/18 22:55	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.4	ug/kg	47.6	11.4	1	12/05/18 14:01	12/07/18 22:55	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	80	%	48-125		1	12/05/18 14:01	12/07/18 22:55	877-09-8	
Decachlorobiphenyl (S)	97	%	30-134		1	12/05/18 14:01	12/07/18 22:55	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<3.4	mg/kg	21.3	3.4	1	12/05/18 15:46	12/13/18 14:02	68334-30-5	
Motor Oil Range	<6.2	mg/kg	14.2	6.2	1	12/05/18 15:46	12/13/18 14:02		
<b>Surrogates</b>									
n-Triacontane (S)	98	%	50-150		1	12/05/18 15:46	12/13/18 14:02	638-68-6	
o-Terphenyl (S)	90	%	50-150		1	12/05/18 15:46	12/13/18 14:02	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (8)**      **Lab ID: 10457121038**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<1.3	mg/kg	9.9	1.3	1	12/11/18 11:53	12/12/18 08:44		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	104	%	50-150		1	12/11/18 11:53	12/12/18 08:44	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<0.53	mg/kg	1.4	0.53	1	12/07/18 10:11	12/10/18 13:53	7440-36-0	
Arsenic	0.40J	mg/kg	1.4	0.29	1	12/07/18 10:11	12/10/18 13:53	7440-38-2	
Beryllium	0.28J	mg/kg	0.35	0.019	1	12/07/18 10:11	12/10/18 13:53	7440-41-7	
Cadmium	<0.028	mg/kg	0.21	0.028	1	12/07/18 10:11	12/10/18 13:53	7440-43-9	
Chromium	3.2	mg/kg	0.71	0.12	1	12/07/18 10:11	12/10/18 13:53	7440-47-3	
Copper	4.5	mg/kg	0.71	0.079	1	12/07/18 10:11	12/10/18 13:53	7440-50-8	
Lead	2.5	mg/kg	0.71	0.16	1	12/07/18 10:11	12/10/18 13:53	7439-92-1	
Nickel	4.4	mg/kg	1.4	0.089	1	12/07/18 10:11	12/10/18 13:53	7440-02-0	
Selenium	<0.46	mg/kg	1.4	0.46	1	12/07/18 10:11	12/10/18 13:53	7782-49-2	
Silver	<0.051	mg/kg	0.71	0.051	1	12/07/18 10:11	12/10/18 13:53	7440-22-4	
Thallium	<0.33	mg/kg	1.4	0.33	1	12/07/18 10:11	12/10/18 13:53	7440-28-0	
Zinc	14.5	mg/kg	1.4	0.62	1	12/07/18 10:11	12/10/18 13:53	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.012	mg/kg	0.029	0.012	1	12/07/18 10:13	12/11/18 12:52	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	30.7	%	0.10	0.10	1		12/12/18 12:46		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
Acenaphthene	<50.7	ug/kg	475	50.7	1	12/04/18 19:00	12/11/18 16:52	83-32-9	
Acenaphthylene	<60.6	ug/kg	475	60.6	1	12/04/18 19:00	12/11/18 16:52	208-96-8	
Anthracene	<55.7	ug/kg	475	55.7	1	12/04/18 19:00	12/11/18 16:52	120-12-7	
Benzo(a)anthracene	<48.8	ug/kg	475	48.8	1	12/04/18 19:00	12/11/18 16:52	56-55-3	
Benzo(a)pyrene	<53.8	ug/kg	475	53.8	1	12/04/18 19:00	12/11/18 16:52	50-32-8	
Benzo(b)fluoranthene	<46.5	ug/kg	475	46.5	1	12/04/18 19:00	12/11/18 16:52	205-99-2	
Benzo(g,h,i)perylene	<50.8	ug/kg	475	50.8	1	12/04/18 19:00	12/11/18 16:52	191-24-2	
Benzo(k)fluoranthene	<59.3	ug/kg	475	59.3	1	12/04/18 19:00	12/11/18 16:52	207-08-9	
4-Bromophenylphenyl ether	<56.6	ug/kg	475	56.6	1	12/04/18 19:00	12/11/18 16:52	101-55-3	
Butylbenzylphthalate	<43.5	ug/kg	475	43.5	1	12/04/18 19:00	12/11/18 16:52	85-68-7	
Carbazole	<39.4	ug/kg	475	39.4	1	12/04/18 19:00	12/11/18 16:52	86-74-8	
4-Chloro-3-methylphenol	<76.0	ug/kg	475	76.0	1	12/04/18 19:00	12/11/18 16:52	59-50-7	
4-Chloroaniline	<127	ug/kg	475	127	1	12/04/18 19:00	12/11/18 16:52	106-47-8	
bis(2-Chloroethoxy)methane	<48.7	ug/kg	475	48.7	1	12/04/18 19:00	12/11/18 16:52	111-91-1	
bis(2-Chloroethyl) ether	<37.6	ug/kg	475	37.6	1	12/04/18 19:00	12/11/18 16:52	111-44-4	
bis(2-Chloroisopropyl) ether	<48.9	ug/kg	475	48.9	1	12/04/18 19:00	12/11/18 16:52	108-60-1	
2-Chloronaphthalene	<42.0	ug/kg	475	42.0	1	12/04/18 19:00	12/11/18 16:52	91-58-7	
2-Chlorophenol	<54.1	ug/kg	475	54.1	1	12/04/18 19:00	12/11/18 16:52	95-57-8	
4-Chlorophenylphenyl ether	<58.9	ug/kg	475	58.9	1	12/04/18 19:00	12/11/18 16:52	7005-72-3	
Chrysene	<50.1	ug/kg	475	50.1	1	12/04/18 19:00	12/11/18 16:52	218-01-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (8)**      **Lab ID: 10457121038**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
Dibenz(a,h)anthracene	<50.5	ug/kg	475	50.5	1	12/04/18 19:00	12/11/18 16:52	53-70-3	
Dibenzofuran	<60.2	ug/kg	475	60.2	1	12/04/18 19:00	12/11/18 16:52	132-64-9	
1,2-Dichlorobenzene	<49.8	ug/kg	475	49.8	1	12/04/18 19:00	12/11/18 16:52	95-50-1	
1,3-Dichlorobenzene	<32.5	ug/kg	475	32.5	1	12/04/18 19:00	12/11/18 16:52	541-73-1	
1,4-Dichlorobenzene	<52.8	ug/kg	475	52.8	1	12/04/18 19:00	12/11/18 16:52	106-46-7	
3,3'-Dichlorobenzidine	<160	ug/kg	475	160	1	12/04/18 19:00	12/11/18 16:52	91-94-1	
2,4-Dichlorophenol	<79.3	ug/kg	475	79.3	1	12/04/18 19:00	12/11/18 16:52	120-83-2	
Diethylphthalate	<42.3	ug/kg	475	42.3	1	12/04/18 19:00	12/11/18 16:52	84-66-2	
2,4-Dimethylphenol	<186	ug/kg	475	186	1	12/04/18 19:00	12/11/18 16:52	105-67-9	
Dimethylphthalate	<64.5	ug/kg	475	64.5	1	12/04/18 19:00	12/11/18 16:52	131-11-3	
Di-n-butylphthalate	<65.1	ug/kg	475	65.1	1	12/04/18 19:00	12/11/18 16:52	84-74-2	
4,6-Dinitro-2-methylphenol	<471	ug/kg	2450	471	1	12/04/18 19:00	12/11/18 16:52	534-52-1	
2,4-Dinitrophenol	<222	ug/kg	475	222	1	12/04/18 19:00	12/11/18 16:52	51-28-5	
2,4-Dinitrotoluene	<60.5	ug/kg	475	60.5	1	12/04/18 19:00	12/11/18 16:52	121-14-2	
2,6-Dinitrotoluene	<62.9	ug/kg	475	62.9	1	12/04/18 19:00	12/11/18 16:52	606-20-2	
Di-n-octylphthalate	<55.1	ug/kg	475	55.1	1	12/04/18 19:00	12/11/18 16:52	117-84-0	
1,2-Diphenylhydrazine	<58.3	ug/kg	475	58.3	1	12/04/18 19:00	12/11/18 16:52	122-66-7	
bis(2-Ethylhexyl)phthalate	<99.0	ug/kg	475	99.0	1	12/04/18 19:00	12/11/18 16:52	117-81-7	
Fluoranthene	<54.6	ug/kg	475	54.6	1	12/04/18 19:00	12/11/18 16:52	206-44-0	
Fluorene	<217	ug/kg	475	217	1	12/04/18 19:00	12/11/18 16:52	86-73-7	
Hexachloro-1,3-butadiene	<72.3	ug/kg	475	72.3	1	12/04/18 19:00	12/11/18 16:52	87-68-3	
Hexachlorobenzene	<77.4	ug/kg	475	77.4	1	12/04/18 19:00	12/11/18 16:52	118-74-1	
Hexachloroethane	<61.8	ug/kg	475	61.8	1	12/04/18 19:00	12/11/18 16:52	67-72-1	
Indeno(1,2,3-cd)pyrene	<28.6	ug/kg	475	28.6	1	12/04/18 19:00	12/11/18 16:52	193-39-5	
Isophorone	<36.6	ug/kg	475	36.6	1	12/04/18 19:00	12/11/18 16:52	78-59-1	
1-Methylnaphthalene	<43.9	ug/kg	475	43.9	1	12/04/18 19:00	12/11/18 16:52	90-12-0	
2-Methylnaphthalene	<42.9	ug/kg	475	42.9	1	12/04/18 19:00	12/11/18 16:52	91-57-6	
2-Methylphenol(o-Cresol)	<29.7	ug/kg	475	29.7	1	12/04/18 19:00	12/11/18 16:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	<26.8	ug/kg	950	26.8	1	12/04/18 19:00	12/11/18 16:52		
Naphthalene	<36.6	ug/kg	475	36.6	1	12/04/18 19:00	12/11/18 16:52	91-20-3	
2-Nitroaniline	<119	ug/kg	475	119	1	12/04/18 19:00	12/11/18 16:52	88-74-4	
3-Nitroaniline	<51.8	ug/kg	475	51.8	1	12/04/18 19:00	12/11/18 16:52	99-09-2	
4-Nitroaniline	<69.4	ug/kg	475	69.4	1	12/04/18 19:00	12/11/18 16:52	100-01-6	
Nitrobenzene	<52.3	ug/kg	475	52.3	1	12/04/18 19:00	12/11/18 16:52	98-95-3	
2-Nitrophenol	<57.9	ug/kg	475	57.9	1	12/04/18 19:00	12/11/18 16:52	88-75-5	
4-Nitrophenol	<92.1	ug/kg	475	92.1	1	12/04/18 19:00	12/11/18 16:52	100-02-7	
N-Nitrosodimethylamine	<58.3	ug/kg	475	58.3	1	12/04/18 19:00	12/11/18 16:52	62-75-9	
N-Nitroso-di-n-propylamine	<217	ug/kg	475	217	1	12/04/18 19:00	12/11/18 16:52	621-64-7	
N-Nitrosodiphenylamine	<30.8	ug/kg	475	30.8	1	12/04/18 19:00	12/11/18 16:52	86-30-6	
Pentachlorophenol	<278	ug/kg	964	278	1	12/04/18 19:00	12/11/18 16:52	87-86-5	
Phenanthrene	<55.3	ug/kg	475	55.3	1	12/04/18 19:00	12/11/18 16:52	85-01-8	
Phenol	<31.1	ug/kg	475	31.1	1	12/04/18 19:00	12/11/18 16:52	108-95-2	
Pyrene	<36.1	ug/kg	475	36.1	1	12/04/18 19:00	12/11/18 16:52	129-00-0	
1,2,4-Trichlorobenzene	<52.1	ug/kg	475	52.1	1	12/04/18 19:00	12/11/18 16:52	120-82-1	
2,4,5-Trichlorophenol	<61.2	ug/kg	475	61.2	1	12/04/18 19:00	12/11/18 16:52	95-95-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (8)**      **Lab ID: 10457121038**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4,6-Trichlorophenol	<73.6	ug/kg	475	73.6	1	12/04/18 19:00	12/11/18 16:52	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	70	%	43-125		1	12/04/18 19:00	12/11/18 16:52	4165-60-0	
2-Fluorobiphenyl (S)	63	%	30-132		1	12/04/18 19:00	12/11/18 16:52	321-60-8	
p-Terphenyl-d14 (S)	85	%	62-125		1	12/04/18 19:00	12/11/18 16:52	1718-51-0	
Phenol-d6 (S)	75	%	48-125		1	12/04/18 19:00	12/11/18 16:52	13127-88-3	
2-Fluorophenol (S)	73	%	40-125		1	12/04/18 19:00	12/11/18 16:52	367-12-4	
2,4,6-Tribromophenol (S)	80	%	60-125		1	12/04/18 19:00	12/11/18 16:52	118-79-6	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.31	ug/kg	5.5	0.31	1	03/06/19 14:15	03/06/19 19:15	106-93-4	
Methylene Chloride	<5.1	ug/kg	27.5	5.1	1	03/06/19 14:15	03/06/19 19:15	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	03/06/19 14:15	03/06/19 19:15	17060-07-0	4M,H3
Toluene-d8 (S)	98	%	75-125		1	03/06/19 14:15	03/06/19 19:15	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/06/19 14:15	03/06/19 19:15	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Acetone	<b>1590J</b>	ug/kg	1990	618	1	12/11/18 19:12	12/12/18 19:02	67-64-1	B
Allyl chloride	<83.3	ug/kg	398	83.3	1	12/11/18 19:12	12/12/18 19:02	107-05-1	
Benzene	<5.6	ug/kg	39.8	5.6	1	12/11/18 19:12	12/12/18 19:02	71-43-2	
Bromobenzene	<6.1	ug/kg	99.4	6.1	1	12/11/18 19:12	12/12/18 19:02	108-86-1	
Bromochloromethane	<34.4	ug/kg	99.4	34.4	1	12/11/18 19:12	12/12/18 19:02	74-97-5	
Bromodichloromethane	<34.0	ug/kg	99.4	34.0	1	12/11/18 19:12	12/12/18 19:02	75-27-4	
Bromoform	<150	ug/kg	398	150	1	12/11/18 19:12	12/12/18 19:02	75-25-2	
Bromomethane	<116	ug/kg	99.4	116	1	12/11/18 19:12	12/12/18 19:02	74-83-9	
2-Butanone (MEK)	<52.9	ug/kg	497	52.9	1	12/11/18 19:12	12/12/18 19:02	78-93-3	
n-Butylbenzene	<47.3	ug/kg	99.4	47.3	1	12/11/18 19:12	12/12/18 19:02	104-51-8	
sec-Butylbenzene	<19.0	ug/kg	99.4	19.0	1	12/11/18 19:12	12/12/18 19:02	135-98-8	
tert-Butylbenzene	<19.1	ug/kg	99.4	19.1	1	12/11/18 19:12	12/12/18 19:02	98-06-6	
Carbon tetrachloride	<47.5	ug/kg	99.4	47.5	1	12/11/18 19:12	12/12/18 19:02	56-23-5	
Chlorobenzene	<5.6	ug/kg	99.4	5.6	1	12/11/18 19:12	12/12/18 19:02	108-90-7	
Chloroethane	<51.7	ug/kg	99.4	51.7	1	12/11/18 19:12	12/12/18 19:02	75-00-3	L2
Chloroform	<49.7	ug/kg	99.4	49.7	1	12/11/18 19:12	12/12/18 19:02	67-66-3	
Chloromethane	<23.9	ug/kg	398	23.9	1	12/11/18 19:12	12/12/18 19:02	74-87-3	
2-Chlorotoluene	<4.9	ug/kg	99.4	4.9	1	12/11/18 19:12	12/12/18 19:02	95-49-8	
4-Chlorotoluene	<5.1	ug/kg	99.4	5.1	1	12/11/18 19:12	12/12/18 19:02	106-43-4	
1,2-Dibromo-3-chloropropane	<346	ug/kg	99.4	346	1	12/11/18 19:12	12/12/18 19:02	96-12-8	
Dibromochloromethane	<11.5	ug/kg	398	11.5	1	12/11/18 19:12	12/12/18 19:02	124-48-1	
1,2-Dibromoethane (EDB)	<10.5	ug/kg	99.4	10.5	1	12/11/18 19:12	12/12/18 19:02	106-93-4	
Dibromomethane	<18.2	ug/kg	99.4	18.2	1	12/11/18 19:12	12/12/18 19:02	74-95-3	
1,2-Dichlorobenzene	<4.0	ug/kg	99.4	4.0	1	12/11/18 19:12	12/12/18 19:02	95-50-1	
1,3-Dichlorobenzene	<3.6	ug/kg	99.4	3.6	1	12/11/18 19:12	12/12/18 19:02	541-73-1	
1,4-Dichlorobenzene	<6.2	ug/kg	99.4	6.2	1	12/11/18 19:12	12/12/18 19:02	106-46-7	
Dichlorodifluoromethane	<32.2	ug/kg	398	32.2	1	12/11/18 19:12	12/12/18 19:02	75-71-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: TP-19 (8)**      **Lab ID: 10457121038**      Collected: 11/28/18 15:20      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<11.2	ug/kg	99.4	11.2	1	12/11/18 19:12	12/12/18 19:02	75-34-3	
1,2-Dichloroethane	<10.9	ug/kg	99.4	10.9	1	12/11/18 19:12	12/12/18 19:02	107-06-2	
1,1-Dichloroethene	<29.8	ug/kg	398	29.8	1	12/11/18 19:12	12/12/18 19:02	75-35-4	
cis-1,2-Dichloroethene	<16.5	ug/kg	99.4	16.5	1	12/11/18 19:12	12/12/18 19:02	156-59-2	
trans-1,2-Dichloroethene	<46.5	ug/kg	99.4	46.5	1	12/11/18 19:12	12/12/18 19:02	156-60-5	
Dichlorofluoromethane	<137	ug/kg	994	137	1	12/11/18 19:12	12/12/18 19:02	75-43-4	N2
1,2-Dichloropropane	<17.1	ug/kg	99.4	17.1	1	12/11/18 19:12	12/12/18 19:02	78-87-5	
1,3-Dichloropropane	<13.8	ug/kg	99.4	13.8	1	12/11/18 19:12	12/12/18 19:02	142-28-9	
2,2-Dichloropropane	<12.4	ug/kg	398	12.4	1	12/11/18 19:12	12/12/18 19:02	594-20-7	
1,1-Dichloropropene	<45.9	ug/kg	99.4	45.9	1	12/11/18 19:12	12/12/18 19:02	563-58-6	
cis-1,3-Dichloropropene	<14.2	ug/kg	99.4	14.2	1	12/11/18 19:12	12/12/18 19:02	10061-01-5	
trans-1,3-Dichloropropene	<13.8	ug/kg	99.4	13.8	1	12/11/18 19:12	12/12/18 19:02	10061-02-6	
Diethyl ether (Ethyl ether)	<60.8	ug/kg	398	60.8	1	12/11/18 19:12	12/12/18 19:02	60-29-7	
Ethylbenzene	<5.4	ug/kg	99.4	5.4	1	12/11/18 19:12	12/12/18 19:02	100-41-4	
Hexachloro-1,3-butadiene	<24.3	ug/kg	497	24.3	1	12/11/18 19:12	12/12/18 19:02	87-68-3	
Isopropylbenzene (Cumene)	<4.4	ug/kg	99.4	4.4	1	12/11/18 19:12	12/12/18 19:02	98-82-8	
p-Isopropyltoluene	<30.2	ug/kg	99.4	30.2	1	12/11/18 19:12	12/12/18 19:02	99-87-6	
Methylene Chloride	<187	ug/kg	398	187	1	12/11/18 19:12	12/12/18 19:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	<20.7	ug/kg	497	20.7	1	12/11/18 19:12	12/12/18 19:02	108-10-1	
Methyl-tert-butyl ether	<11.8	ug/kg	99.4	11.8	1	12/11/18 19:12	12/12/18 19:02	1634-04-4	
Naphthalene	<93.0	ug/kg	398	93.0	1	12/11/18 19:12	12/12/18 19:02	91-20-3	
n-Propylbenzene	<5.3	ug/kg	99.4	5.3	1	12/11/18 19:12	12/12/18 19:02	103-65-1	
Styrene	<4.5	ug/kg	99.4	4.5	1	12/11/18 19:12	12/12/18 19:02	100-42-5	
1,1,1,2-Tetrachloroethane	<31.2	ug/kg	99.4	31.2	1	12/11/18 19:12	12/12/18 19:02	630-20-6	
1,1,1,2,2-Tetrachloroethane	<17.5	ug/kg	398	17.5	1	12/11/18 19:12	12/12/18 19:02	79-34-5	
Tetrachloroethene	<35.0	ug/kg	99.4	35.0	1	12/11/18 19:12	12/12/18 19:02	127-18-4	
Tetrahydrofuran	<145	ug/kg	3980	145	1	12/11/18 19:12	12/12/18 19:02	109-99-9	
Toluene	<24.3	ug/kg	99.4	24.3	1	12/11/18 19:12	12/12/18 19:02	108-88-3	
1,2,3-Trichlorobenzene	<15.9	ug/kg	99.4	15.9	1	12/11/18 19:12	12/12/18 19:02	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/kg	99.4	22.1	1	12/11/18 19:12	12/12/18 19:02	120-82-1	
1,1,1-Trichloroethane	<46.3	ug/kg	99.4	46.3	1	12/11/18 19:12	12/12/18 19:02	71-55-6	
1,1,2-Trichloroethane	<11.9	ug/kg	99.4	11.9	1	12/11/18 19:12	12/12/18 19:02	79-00-5	
Trichloroethene	<15.3	ug/kg	99.4	15.3	1	12/11/18 19:12	12/12/18 19:02	79-01-6	
Trichlorofluoromethane	<173	ug/kg	398	173	1	12/11/18 19:12	12/12/18 19:02	75-69-4	
1,2,3-Trichloropropane	<26.0	ug/kg	398	26.0	1	12/11/18 19:12	12/12/18 19:02	96-18-4	
1,1,2-Trichlorotrifluoroethane	<115	ug/kg	398	115	1	12/11/18 19:12	12/12/18 19:02	76-13-1	
1,2,4-Trimethylbenzene	<19.9	ug/kg	99.4	19.9	1	12/11/18 19:12	12/12/18 19:02	95-63-6	
1,3,5-Trimethylbenzene	<15.8	ug/kg	99.4	15.8	1	12/11/18 19:12	12/12/18 19:02	108-67-8	
Vinyl chloride	<19.6	ug/kg	99.4	19.6	1	12/11/18 19:12	12/12/18 19:02	75-01-4	
Xylene (Total)	<23.1	ug/kg	298	23.1	1	12/11/18 19:12	12/12/18 19:02	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1	12/11/18 19:12	12/12/18 19:02	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/11/18 19:12	12/12/18 19:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1	12/11/18 19:12	12/12/18 19:02	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample:** Trip Blanks      **Lab ID:** 10457121039      **Collected:** 11/26/18 00:00      **Received:** 11/30/18 09:55      **Matrix:** Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<b>944J</b>	ug/kg	1000	311	1	12/06/18 13:46	12/07/18 02:59	67-64-1	B
Allyl chloride	<b>&lt;41.9</b>	ug/kg	200	41.9	1	12/06/18 13:46	12/07/18 02:59	107-05-1	
Benzene	<b>&lt;2.8</b>	ug/kg	20.0	2.8	1	12/06/18 13:46	12/07/18 02:59	71-43-2	
Bromobenzene	<b>&lt;3.1</b>	ug/kg	50.0	3.1	1	12/06/18 13:46	12/07/18 02:59	108-86-1	
Bromochloromethane	<b>&lt;17.3</b>	ug/kg	50.0	17.3	1	12/06/18 13:46	12/07/18 02:59	74-97-5	
Bromodichloromethane	<b>&lt;17.1</b>	ug/kg	50.0	17.1	1	12/06/18 13:46	12/07/18 02:59	75-27-4	
Bromoform	<b>&lt;75.7</b>	ug/kg	200	75.7	1	12/06/18 13:46	12/07/18 02:59	75-25-2	
Bromomethane	<b>&lt;58.5</b>	ug/kg	500	58.5	1	12/06/18 13:46	12/07/18 02:59	74-83-9	
2-Butanone (MEK)	<b>&lt;26.6</b>	ug/kg	250	26.6	1	12/06/18 13:46	12/07/18 02:59	78-93-3	
n-Butylbenzene	<b>&lt;23.8</b>	ug/kg	50.0	23.8	1	12/06/18 13:46	12/07/18 02:59	104-51-8	
sec-Butylbenzene	<b>&lt;9.6</b>	ug/kg	50.0	9.6	1	12/06/18 13:46	12/07/18 02:59	135-98-8	
tert-Butylbenzene	<b>&lt;9.6</b>	ug/kg	50.0	9.6	1	12/06/18 13:46	12/07/18 02:59	98-06-6	
Carbon tetrachloride	<b>&lt;23.9</b>	ug/kg	50.0	23.9	1	12/06/18 13:46	12/07/18 02:59	56-23-5	
Chlorobenzene	<b>&lt;2.8</b>	ug/kg	50.0	2.8	1	12/06/18 13:46	12/07/18 02:59	108-90-7	
Chloroethane	<b>&lt;26.0</b>	ug/kg	500	26.0	1	12/06/18 13:46	12/07/18 02:59	75-00-3	
Chloroform	<b>&lt;25.0</b>	ug/kg	50.0	25.0	1	12/06/18 13:46	12/07/18 02:59	67-66-3	
Chloromethane	<b>&lt;12.0</b>	ug/kg	200	12.0	1	12/06/18 13:46	12/07/18 02:59	74-87-3	
2-Chlorotoluene	<b>&lt;2.5</b>	ug/kg	50.0	2.5	1	12/06/18 13:46	12/07/18 02:59	95-49-8	
4-Chlorotoluene	<b>&lt;2.6</b>	ug/kg	50.0	2.6	1	12/06/18 13:46	12/07/18 02:59	106-43-4	
1,2-Dibromo-3-chloropropane	<b>&lt;174</b>	ug/kg	500	174	1	12/06/18 13:46	12/07/18 02:59	96-12-8	
Dibromochloromethane	<b>&lt;5.8</b>	ug/kg	200	5.8	1	12/06/18 13:46	12/07/18 02:59	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;5.3</b>	ug/kg	50.0	5.3	1	12/06/18 13:46	12/07/18 02:59	106-93-4	
Dibromomethane	<b>&lt;9.2</b>	ug/kg	50.0	9.2	1	12/06/18 13:46	12/07/18 02:59	74-95-3	
1,2-Dichlorobenzene	<b>&lt;2.0</b>	ug/kg	50.0	2.0	1	12/06/18 13:46	12/07/18 02:59	95-50-1	
1,3-Dichlorobenzene	<b>&lt;1.8</b>	ug/kg	50.0	1.8	1	12/06/18 13:46	12/07/18 02:59	541-73-1	
1,4-Dichlorobenzene	<b>&lt;3.1</b>	ug/kg	50.0	3.1	1	12/06/18 13:46	12/07/18 02:59	106-46-7	
Dichlorodifluoromethane	<b>&lt;16.2</b>	ug/kg	200	16.2	1	12/06/18 13:46	12/07/18 02:59	75-71-8	
1,1-Dichloroethane	<b>&lt;5.6</b>	ug/kg	50.0	5.6	1	12/06/18 13:46	12/07/18 02:59	75-34-3	
1,2-Dichloroethane	<b>&lt;5.5</b>	ug/kg	50.0	5.5	1	12/06/18 13:46	12/07/18 02:59	107-06-2	
1,1-Dichloroethene	<b>&lt;15.0</b>	ug/kg	200	15.0	1	12/06/18 13:46	12/07/18 02:59	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;8.3</b>	ug/kg	50.0	8.3	1	12/06/18 13:46	12/07/18 02:59	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;23.4</b>	ug/kg	50.0	23.4	1	12/06/18 13:46	12/07/18 02:59	156-60-5	
Dichlorofluoromethane	<b>&lt;69.1</b>	ug/kg	500	69.1	1	12/06/18 13:46	12/07/18 02:59	75-43-4	N2
1,2-Dichloropropane	<b>&lt;8.6</b>	ug/kg	50.0	8.6	1	12/06/18 13:46	12/07/18 02:59	78-87-5	
1,3-Dichloropropane	<b>&lt;6.9</b>	ug/kg	50.0	6.9	1	12/06/18 13:46	12/07/18 02:59	142-28-9	
2,2-Dichloropropane	<b>&lt;6.2</b>	ug/kg	200	6.2	1	12/06/18 13:46	12/07/18 02:59	594-20-7	
1,1-Dichloropropene	<b>&lt;23.1</b>	ug/kg	50.0	23.1	1	12/06/18 13:46	12/07/18 02:59	563-58-6	
cis-1,3-Dichloropropene	<b>&lt;7.2</b>	ug/kg	50.0	7.2	1	12/06/18 13:46	12/07/18 02:59	10061-01-5	
trans-1,3-Dichloropropene	<b>&lt;7.0</b>	ug/kg	50.0	7.0	1	12/06/18 13:46	12/07/18 02:59	10061-02-6	
Diethyl ether (Ethyl ether)	<b>&lt;30.6</b>	ug/kg	200	30.6	1	12/06/18 13:46	12/07/18 02:59	60-29-7	
Ethylbenzene	<b>&lt;2.7</b>	ug/kg	50.0	2.7	1	12/06/18 13:46	12/07/18 02:59	100-41-4	
Hexachloro-1,3-butadiene	<b>&lt;12.2</b>	ug/kg	250	12.2	1	12/06/18 13:46	12/07/18 02:59	87-68-3	
Isopropylbenzene (Cumene)	<b>&lt;2.2</b>	ug/kg	50.0	2.2	1	12/06/18 13:46	12/07/18 02:59	98-82-8	
p-Isopropyltoluene	<b>&lt;15.2</b>	ug/kg	50.0	15.2	1	12/06/18 13:46	12/07/18 02:59	99-87-6	
Methylene Chloride	<b>&lt;94.1</b>	ug/kg	200	94.1	1	12/06/18 13:46	12/07/18 02:59	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

**Sample: Trip Blanks**      **Lab ID: 10457121039**      Collected: 11/26/18 00:00      Received: 11/30/18 09:55      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<10.4	ug/kg	250	10.4	1	12/06/18 13:46	12/07/18 02:59	108-10-1	
Methyl-tert-butyl ether	<6.0	ug/kg	50.0	6.0	1	12/06/18 13:46	12/07/18 02:59	1634-04-4	
Naphthalene	<46.8	ug/kg	200	46.8	1	12/06/18 13:46	12/07/18 02:59	91-20-3	
n-Propylbenzene	<2.7	ug/kg	50.0	2.7	1	12/06/18 13:46	12/07/18 02:59	103-65-1	
Styrene	<2.3	ug/kg	50.0	2.3	1	12/06/18 13:46	12/07/18 02:59	100-42-5	
1,1,1,2-Tetrachloroethane	<15.7	ug/kg	50.0	15.7	1	12/06/18 13:46	12/07/18 02:59	630-20-6	
1,1,2,2-Tetrachloroethane	<8.8	ug/kg	200	8.8	1	12/06/18 13:46	12/07/18 02:59	79-34-5	
Tetrachloroethene	<17.6	ug/kg	50.0	17.6	1	12/06/18 13:46	12/07/18 02:59	127-18-4	
Tetrahydrofuran	<72.7	ug/kg	2000	72.7	1	12/06/18 13:46	12/07/18 02:59	109-99-9	
Toluene	<12.2	ug/kg	50.0	12.2	1	12/06/18 13:46	12/07/18 02:59	108-88-3	
1,2,3-Trichlorobenzene	<8.0	ug/kg	50.0	8.0	1	12/06/18 13:46	12/07/18 02:59	87-61-6	
1,2,4-Trichlorobenzene	<11.1	ug/kg	50.0	11.1	1	12/06/18 13:46	12/07/18 02:59	120-82-1	
1,1,1-Trichloroethane	<23.3	ug/kg	50.0	23.3	1	12/06/18 13:46	12/07/18 02:59	71-55-6	
1,1,2-Trichloroethane	<6.0	ug/kg	50.0	6.0	1	12/06/18 13:46	12/07/18 02:59	79-00-5	
Trichloroethene	<7.7	ug/kg	50.0	7.7	1	12/06/18 13:46	12/07/18 02:59	79-01-6	
Trichlorofluoromethane	<87.2	ug/kg	200	87.2	1	12/06/18 13:46	12/07/18 02:59	75-69-4	
1,2,3-Trichloropropane	<13.1	ug/kg	200	13.1	1	12/06/18 13:46	12/07/18 02:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	<58.0	ug/kg	200	58.0	1	12/06/18 13:46	12/07/18 02:59	76-13-1	
1,2,4-Trimethylbenzene	<10.0	ug/kg	50.0	10.0	1	12/06/18 13:46	12/07/18 02:59	95-63-6	
1,3,5-Trimethylbenzene	<8.0	ug/kg	50.0	8.0	1	12/06/18 13:46	12/07/18 02:59	108-67-8	
Vinyl chloride	<9.8	ug/kg	50.0	9.8	1	12/06/18 13:46	12/07/18 02:59	75-01-4	
Xylene (Total)	<11.6	ug/kg	150	11.6	1	12/06/18 13:46	12/07/18 02:59	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1	12/06/18 13:46	12/07/18 02:59	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 02:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/06/18 13:46	12/07/18 02:59	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579273 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008

METHOD BLANK: 3142056 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/07/18 17:46	
a,a,a-Trifluorotoluene (S)	%.	79	50-150		12/07/18 17:46	

METHOD BLANK: 3142057 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/07/18 18:03	
a,a,a-Trifluorotoluene (S)	%.	76	50-150		12/07/18 18:03	

LABORATORY CONTROL SAMPLE & LCSD: 3142058 3142059

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	46.9	49.7	94	99	54-125	6	20	
a,a,a-Trifluorotoluene (S)	%.				72	75	50-150			

SAMPLE DUPLICATE: 3144035

Parameter	Units	10457121001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.76	<0.82		30	
a,a,a-Trifluorotoluene (S)	%.	69	75	16		

SAMPLE DUPLICATE: 3144036

Parameter	Units	10457121003 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.68	<0.68		30	
a,a,a-Trifluorotoluene (S)	%.	70	77	9		

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579855 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

METHOD BLANK: 3145262 Matrix: Solid  
 Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 20:10	
a,a,a-Trifluorotoluene (S)	%	102	50-150		12/10/18 20:10	

METHOD BLANK: 3145263 Matrix: Solid  
 Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/10/18 20:27	
a,a,a-Trifluorotoluene (S)	%	106	50-150		12/10/18 20:27	

LABORATORY CONTROL SAMPLE & LCSD: 3145264 3145265

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	52.0	50.0	104	100	54-125	4	20	
a,a,a-Trifluorotoluene (S)	%				100	97	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145925 3145926

Parameter	Units	10457121009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.77	61	59.1	73.6	71.2	121	121	70-130	3	30	
a,a,a-Trifluorotoluene (S)	%						94	96	50-150			

SAMPLE DUPLICATE: 3145923

Parameter	Units	10457121012 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	2.0J	<0.78		30	
a,a,a-Trifluorotoluene (S)	%	103	93	6		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

SAMPLE DUPLICATE: 3145924

Parameter	Units	10457121015 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.70	0.83J		30	
a,a,a-Trifluorotoluene (S)	%.	104	109	3		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch:	580025	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Solid GCV
Associated Lab Samples:	10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037		

METHOD BLANK:	3146042	Matrix:	Solid
Associated Lab Samples:	10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	1.7J	5.0	0.66	12/11/18 21:42	
a,a,a-Trifluorotoluene (S)	%	99	50-150		12/11/18 21:42	

METHOD BLANK:	3146043	Matrix:	Solid
Associated Lab Samples:	10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	1.3J	5.0	0.66	12/11/18 21:59	
a,a,a-Trifluorotoluene (S)	%	88	50-150		12/11/18 21:59	

LABORATORY CONTROL SAMPLE & LCSD:	3146044	3146045								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	38.7	40.5	77	81	54-125	5	20	
a,a,a-Trifluorotoluene (S)	%				86	93	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3146564	3146565										
Parameter	Units	10457121025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<0.72	52.6	51	52.1	49.9	99	98	70-130	4	30	
a,a,a-Trifluorotoluene (S)	%						91	90	50-150			

SAMPLE DUPLICATE:	3146560									
Parameter	Units	10457121023 Result	Dup Result	RPD	Max RPD	Qualifiers				
TPH as Gas	mg/kg	<0.98	<0.98		30					
a,a,a-Trifluorotoluene (S)	%	95	98	2						

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10457121

SAMPLE DUPLICATE: 3146582

Parameter	Units	10457121029 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.82	5.7J		30	
a,a,a-Trifluorotoluene (S)	%.	91	101	11		

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 580073 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 10457121038

METHOD BLANK: 3146190 Matrix: Solid

Associated Lab Samples: 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/12/18 06:44	
a,a,a-Trifluorotoluene (S)	%.	105	50-150		12/12/18 06:44	

METHOD BLANK: 3146191 Matrix: Solid

Associated Lab Samples: 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/12/18 07:02	
a,a,a-Trifluorotoluene (S)	%.	95	50-150		12/12/18 07:02	

LABORATORY CONTROL SAMPLE & LCSD: 3146192 3146193

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	39.1	40.5	78	81	54-125	4	20	
a,a,a-Trifluorotoluene (S)	%.				115	114	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146483 3146484

Parameter	Units	10457121038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	mg/kg	<1.3	88.3	89.9	75.5	73.4	84	81	70-130	3	30	
a,a,a-Trifluorotoluene (S)	%.						111	116	50-150			

SAMPLE DUPLICATE: 3146497

Parameter	Units	10457092054 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<1.2	1.4J		30	
a,a,a-Trifluorotoluene (S)	%.	94	103	11		

SAMPLE DUPLICATE: 3146498

Parameter	Units	10457092055 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	1.7J	1.9J		30	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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SAMPLE DUPLICATE: 3146498

Parameter	Units	10457092055 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	99	110	28		

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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QC Batch: 578656 Analysis Method: EPA 7471B  
 QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

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METHOD BLANK: 3138754 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0075	0.019	0.0075	12/12/18 15:08	

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LABORATORY CONTROL SAMPLE: 3138755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.42	0.42	100	80-120	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138756 3138757

Parameter	Units	10457121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.034	0.52	0.57	0.57	0.62	103	104	80-120	9	20	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch:	578657	Analysis Method:	EPA 7471B
QC Batch Method:	EPA 7471B	Analysis Description:	7471B Mercury Solids
Associated Lab Samples:	10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038		

METHOD BLANK:	3138758	Matrix:	Solid
Associated Lab Samples:	10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0080	0.020	0.0080	12/11/18 12:00	

LABORATORY CONTROL SAMPLE:	3138759					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.49	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3138760												
			MS	MSD									
		10457121021	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Mercury	mg/kg	0.040	0.55	0.57	0.61	0.65	105	105	80-120	6	20		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578650 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3050 Analysis Description: 6010D Solids  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

METHOD BLANK: 3138730 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.36	0.94	0.36	12/07/18 18:09	
Arsenic	mg/kg	<0.19	0.94	0.19	12/07/18 18:09	
Beryllium	mg/kg	<0.013	0.24	0.013	12/07/18 18:09	
Cadmium	mg/kg	<0.019	0.14	0.019	12/07/18 18:09	
Chromium	mg/kg	<0.081	0.47	0.081	12/07/18 18:09	
Copper	mg/kg	<0.052	0.47	0.052	12/07/18 18:09	
Lead	mg/kg	<0.11	0.47	0.11	12/07/18 18:09	
Nickel	mg/kg	<0.059	0.94	0.059	12/07/18 18:09	
Selenium	mg/kg	<0.31	0.94	0.31	12/07/18 18:09	
Silver	mg/kg	<0.034	0.47	0.034	12/07/18 18:09	
Thallium	mg/kg	<0.22	0.94	0.22	12/07/18 18:09	
Zinc	mg/kg	0.54J	0.94	0.41	12/07/18 18:09	P8

LABORATORY CONTROL SAMPLE: 3138731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	45.9	39.0	85	80-120	
Arsenic	mg/kg	45.9	37.9	83	80-120	
Beryllium	mg/kg	45.9	37.4	82	80-120	
Cadmium	mg/kg	45.9	39.4	86	80-120	
Chromium	mg/kg	45.9	39.0	85	80-120	
Copper	mg/kg	45.9	39.3	86	80-120	
Lead	mg/kg	45.9	39.8	87	80-120	
Nickel	mg/kg	45.9	38.8	85	80-120	
Selenium	mg/kg	45.9	39.3	86	80-120	
Silver	mg/kg	22.9	19.7	86	80-120	
Thallium	mg/kg	45.9	39.7	87	80-120	
Zinc	mg/kg	45.9	40.7	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138732 3138733

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	mg/kg	<2.2	56.3	56.9	19.6	26.5	34	45	75-125	30	20 M1,R1
Arsenic	mg/kg	1.7J	56.3	56.9	41.3	51.5	70	88	75-125	22	20 M1,R1

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3138732		3138733		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		10457121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result	RPD	
Beryllium	mg/kg	0.62J	56.3	56.9	43.0	55.3	75	96	75-125	25	20	R1	
Cadmium	mg/kg	<0.12	56.3	56.9	44.6	55.6	79	98	75-125	22	20	R1	
Chromium	mg/kg	7.6	56.3	56.9	51.6	66.4	78	104	75-125	25	20	R1	
Copper	mg/kg	14.6	56.3	56.9	60.6	76.1	82	108	75-125	23	20	R1	
Lead	mg/kg	9.3	56.3	56.9	55.8	66.8	83	101	75-125	18	20		
Nickel	mg/kg	5.6J	56.3	56.9	49.7	63.2	78	101	75-125	24	20	R1	
Selenium	mg/kg	<2.0	56.3	56.9	39.8	49.6	71	87	75-125	22	20	M1,R1	
Silver	mg/kg	<0.043	28.2	28.4	18.5	20.9	66	73	75-125	12	20	M1	
Thallium	mg/kg	<1.4	56.3	56.9	39.9	49.5	71	87	75-125	22	20	M1,R1	
Zinc	mg/kg	68.0	56.3	56.9	115	133	83	114	75-125	15	20		

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578651 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3050 Analysis Description: 6010D Solids  
 Associated Lab Samples: 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

METHOD BLANK: 3138734 Matrix: Solid  
 Associated Lab Samples: 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.37	0.99	0.37	12/10/18 12:34	
Arsenic	mg/kg	<0.20	0.99	0.20	12/10/18 12:34	
Beryllium	mg/kg	<0.013	0.25	0.013	12/10/18 12:34	
Cadmium	mg/kg	<0.020	0.15	0.020	12/10/18 12:34	
Chromium	mg/kg	<0.085	0.50	0.085	12/10/18 12:34	
Copper	mg/kg	<0.055	0.50	0.055	12/10/18 12:34	
Lead	mg/kg	<0.11	0.50	0.11	12/10/18 12:34	
Nickel	mg/kg	<0.062	0.99	0.062	12/10/18 12:34	
Selenium	mg/kg	<0.32	0.99	0.32	12/10/18 12:34	
Silver	mg/kg	<0.036	0.50	0.036	12/11/18 11:03	
Thallium	mg/kg	<0.23	0.99	0.23	12/10/18 12:34	
Zinc	mg/kg	<0.43	0.99	0.43	12/10/18 12:34	

LABORATORY CONTROL SAMPLE: 3138735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	46.3	42.0	91	80-120	
Arsenic	mg/kg	46.3	40.6	88	80-120	
Beryllium	mg/kg	46.3	41.3	89	80-120	
Cadmium	mg/kg	46.3	41.9	90	80-120	
Chromium	mg/kg	46.3	43.0	93	80-120	
Copper	mg/kg	46.3	42.2	91	80-120	
Lead	mg/kg	46.3	42.3	91	80-120	
Nickel	mg/kg	46.3	42.3	91	80-120	
Selenium	mg/kg	46.3	42.4	91	80-120	
Silver	mg/kg	23.1	21.8	94	80-120	
Thallium	mg/kg	46.3	42.3	91	80-120	
Zinc	mg/kg	46.3	42.9	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138736 3138737

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Antimony	mg/kg	<2.3	60.4	59.9	29.6	25.7	49	43	75-125	14	20 M1
Arsenic	mg/kg	<1.3	60.4	59.9	48.5	44.5	78	73	75-125	9	20 M1

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3138736		3138737		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457121021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Beryllium	mg/kg	0.79J	60.4	59.9	51.4	47.2	84	78	75-125	8	20	
Cadmium	mg/kg	<0.12	60.4	59.9	52.1	49.3	86	82	75-125	6	20	
Chromium	mg/kg	7.6	60.4	59.9	59.0	53.7	85	77	75-125	9	20	
Copper	mg/kg	16.8	60.4	59.9	68.8	61.8	86	75	75-125	11	20	
Lead	mg/kg	6.2	60.4	59.9	57.6	55.3	85	82	75-125	4	20	
Nickel	mg/kg	5.6J	60.4	59.9	57.5	52.5	86	78	75-125	9	20	
Selenium	mg/kg	<2.0	60.4	59.9	46.4	43.9	77	73	75-125	5	20	M1
Silver	mg/kg	<0.22	30.2	30	26.8	24.8	89	83	75-125	8	20	
Thallium	mg/kg	<1.4	60.4	59.9	46.9	44.6	77	74	75-125	5	20	M1
Zinc	mg/kg	88.6	60.4	59.9	126	118	62	49	75-125	7	20	M1

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 592666	Analysis Method: EPA 8260B
QC Batch Method: EPA 5035 Low	Analysis Description: 8260B MSV 5035 Low Level
Associated Lab Samples: 10457121037, 10457121038	

METHOD BLANK: 3204636 Matrix: Solid

Associated Lab Samples: 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	<0.23	4.0	0.23	03/06/19 17:20	
Methylene Chloride	ug/kg	<3.7	20.0	3.7	03/06/19 17:20	
1,2-Dichloroethane-d4 (S)	%	108	75-125		03/06/19 17:20	
4-Bromofluorobenzene (S)	%	102	75-125		03/06/19 17:20	
Toluene-d8 (S)	%	99	75-125		03/06/19 17:20	

LABORATORY CONTROL SAMPLE & LCSD: 3204637

3204638

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	20	21.6	22.4	108	112	75-126	4	20	
Methylene Chloride	ug/kg	20	19.4J	20.8	97	104	56-150		20	
1,2-Dichloroethane-d4 (S)	%				104	104	75-125			
4-Bromofluorobenzene (S)	%				99	100	75-125			
Toluene-d8 (S)	%				100	100	75-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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QC Batch: 579279 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10457121001, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121039

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METHOD BLANK: 3142080 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/06/18 16:09	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/06/18 16:09	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/06/18 16:09	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/06/18 16:09	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/06/18 16:09	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/06/18 16:09	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/06/18 16:09	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/06/18 16:09	
1,2,3-Trichlorobenzene	ug/kg	15.6J	50.0	8.0	12/06/18 16:09	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/06/18 16:09	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/06/18 16:09	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/06/18 16:09	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/06/18 16:09	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/06/18 16:09	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/06/18 16:09	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/06/18 16:09	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/06/18 16:09	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/06/18 16:09	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/06/18 16:09	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/06/18 16:09	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 16:09	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/06/18 16:09	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/06/18 16:09	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/06/18 16:09	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/06/18 16:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/06/18 16:09	
Acetone	ug/kg	746J	1000	311	12/06/18 16:09	
Allyl chloride	ug/kg	<41.9	200	41.9	12/06/18 16:09	
Benzene	ug/kg	<2.8	20.0	2.8	12/06/18 16:09	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/06/18 16:09	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/06/18 16:09	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/06/18 16:09	
Bromoform	ug/kg	<75.7	200	75.7	12/06/18 16:09	
Bromomethane	ug/kg	<58.5	500	58.5	12/06/18 16:09	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/06/18 16:09	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/06/18 16:09	
Chloroethane	ug/kg	<26.0	500	26.0	12/06/18 16:09	
Chloroform	ug/kg	<25.0	50.0	25.0	12/06/18 16:09	
Chloromethane	ug/kg	<12.0	200	12.0	12/06/18 16:09	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/06/18 16:09	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3142080

Matrix: Solid

Associated Lab Samples: 10457121001, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/06/18 16:09	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/06/18 16:09	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/06/18 16:09	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/06/18 16:09	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/06/18 16:09	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/06/18 16:09	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 16:09	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/06/18 16:09	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/06/18 16:09	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/06/18 16:09	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/06/18 16:09	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/06/18 16:09	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/06/18 16:09	
Naphthalene	ug/kg	<46.8	200	46.8	12/06/18 16:09	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/06/18 16:09	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 16:09	
Styrene	ug/kg	<2.3	50.0	2.3	12/06/18 16:09	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/06/18 16:09	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/06/18 16:09	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/06/18 16:09	
Toluene	ug/kg	<12.2	50.0	12.2	12/06/18 16:09	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/06/18 16:09	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/06/18 16:09	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/06/18 16:09	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/06/18 16:09	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/06/18 16:09	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/06/18 16:09	
1,2-Dichloroethane-d4 (S)	%	104	75-125		12/06/18 16:09	
4-Bromofluorobenzene (S)	%	99	75-125		12/06/18 16:09	
Toluene-d8 (S)	%	99	75-125		12/06/18 16:09	

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	995	99	59-125	
1,1,1-Trichloroethane	ug/kg	1000	1040	104	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	831	83	58-125	
1,1,2-Trichloroethane	ug/kg	1000	916	92	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	986	99	65-125	
1,1-Dichloroethane	ug/kg	1000	972	97	63-125	
1,1-Dichloroethene	ug/kg	1000	874	87	59-125	
1,1-Dichloropropene	ug/kg	1000	1020	102	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	943	94	55-126	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	925	92	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	990	99	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	962	96	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2360	94	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	1010	101	64-125	
1,2-Dichlorobenzene	ug/kg	1000	953	95	63-125	
1,2-Dichloroethane	ug/kg	1000	926	93	57-125	
1,2-Dichloropropane	ug/kg	1000	928	93	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	1060	106	59-125	
1,3-Dichlorobenzene	ug/kg	1000	1010	101	64-125	
1,3-Dichloropropane	ug/kg	1000	1010	101	64-125	
1,4-Dichlorobenzene	ug/kg	1000	986	99	63-125	
2,2-Dichloropropane	ug/kg	1000	1110	111	37-126	
2-Butanone (MEK)	ug/kg	5000	4190	84	48-125	
2-Chlorotoluene	ug/kg	1000	1010	101	62-125	
4-Chlorotoluene	ug/kg	1000	1000	100	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4590	92	52-135	
Acetone	ug/kg	5000	4170	83	65-125	
Allyl chloride	ug/kg	1000	856	86	52-125	
Benzene	ug/kg	1000	992	99	61-125	
Bromobenzene	ug/kg	1000	1050	105	64-125	
Bromochloromethane	ug/kg	1000	1080	108	65-125	
Bromodichloromethane	ug/kg	1000	1040	104	57-125	
Bromoform	ug/kg	1000	949	95	57-125	
Bromomethane	ug/kg	1000	932	93	60-125 SS	
Carbon tetrachloride	ug/kg	1000	939	94	58-125	
Chlorobenzene	ug/kg	1000	1010	101	66-125	
Chloroethane	ug/kg	1000	895	90	62-125	
Chloroform	ug/kg	1000	902	90	59-125	
Chloromethane	ug/kg	1000	732	73	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	980	98	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	979	98	61-125	
Dibromochloromethane	ug/kg	1000	950	95	60-125	
Dibromomethane	ug/kg	1000	1040	104	69-125	
Dichlorodifluoromethane	ug/kg	1000	521	52	38-125	
Dichlorofluoromethane	ug/kg	1000	914	91	67-125 N2	
Diethyl ether (Ethyl ether)	ug/kg	1000	924	92	60-125	
Ethylbenzene	ug/kg	1000	958	96	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	1020	102	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	996	100	65-125	
Methyl-tert-butyl ether	ug/kg	1000	993	99	59-125	
Methylene Chloride	ug/kg	1000	977	98	64-125	
n-Butylbenzene	ug/kg	1000	1030	103	59-125	
n-Propylbenzene	ug/kg	1000	1050	105	61-125	
Naphthalene	ug/kg	1000	914	91	53-125	
p-Isopropyltoluene	ug/kg	1000	951	95	63-125	
sec-Butylbenzene	ug/kg	1000	968	97	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3142081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	952	95	66-125	
tert-Butylbenzene	ug/kg	1000	1030	103	64-125	
Tetrachloroethene	ug/kg	1000	1000	100	67-125	
Tetrahydrofuran	ug/kg	10000	7950	79	62-125	
Toluene	ug/kg	1000	990	99	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	969	97	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	1050	105	56-125	
Trichloroethene	ug/kg	1000	1020	102	67-125	
Trichlorofluoromethane	ug/kg	1000	883	88	65-125	
Vinyl chloride	ug/kg	1000	790	79	57-125	
Xylene (Total)	ug/kg	3000	2970	99	62-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142082 3142083

Parameter	Units	MS 10457226001		MSD		MS 3142082		MSD 3142083		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/kg	ND	1100	1070	1230	1230	111	115	64-146	0	30	
1,1,1-Trichloroethane	ug/kg	ND	1100	1070	1290	1320	117	123	56-148	2	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1100	1070	1110	1170	101	109	36-150	5	30	
1,1,2-Trichloroethane	ug/kg	ND	1100	1070	1190	1230	108	115	67-148	3	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1100	1070	1260	1320	114	123	60-142	5	30	
1,1-Dichloroethane	ug/kg	ND	1100	1070	1180	1190	107	111	57-140	1	30	
1,1-Dichloroethene	ug/kg	ND	1100	1070	1190	1190	108	111	59-139	0	30	
1,1-Dichloropropene	ug/kg	ND	1100	1070	1220	1300	110	121	61-142	7	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1100	1070	1300	1290	118	120	69-150	1	30	
1,2,3-Trichloropropane	ug/kg	ND	1100	1070	1220	1210	111	113	64-150	0	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1100	1070	1270	1360	115	127	71-149	7	30	
1,2,4-Trimethylbenzene	ug/kg	ND	1100	1070	1270	1300	115	121	67-149	2	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2750	2680	2870	3010	104	112	61-150	5	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1100	1070	1220	1230	110	115	67-147	1	30	
1,2-Dichlorobenzene	ug/kg	ND	1100	1070	1200	1240	109	116	70-142	3	30	
1,2-Dichloroethane	ug/kg	ND	1100	1070	1140	1140	103	106	58-132	0	30	
1,2-Dichloropropane	ug/kg	ND	1100	1070	1130	1160	103	109	64-144	2	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1100	1070	1270	1360	115	127	71-146	6	30	
1,3-Dichlorobenzene	ug/kg	ND	1100	1070	1280	1330	116	124	71-142	4	30	
1,3-Dichloropropane	ug/kg	ND	1100	1070	1210	1270	109	119	68-140	5	30	
1,4-Dichlorobenzene	ug/kg	ND	1100	1070	1220	1290	110	121	68-142	6	30	
2,2-Dichloropropane	ug/kg	ND	1100	1070	1320	1390	120	130	34-150	5	30	
2-Butanone (MEK)	ug/kg	ND	5520	5360	5710	5670	103	106	51-150	1	30	
2-Chlorotoluene	ug/kg	ND	1100	1070	1240	1310	112	122	66-144	6	30	
4-Chlorotoluene	ug/kg	ND	1100	1070	1210	1300	110	121	66-140	7	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	10457226001		3142082		3142083		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5520	5360	6050	6160	110	115	63-150	2	30		
Acetone	ug/kg	ND	5520	5360	4150	5200	66	87	54-150	23	30		
Allyl chloride	ug/kg	ND	1100	1070	1130	1110	102	103	53-135	2	30		
Benzene	ug/kg	ND	1100	1070	1170	1210	106	113	65-135	4	30		
Bromobenzene	ug/kg	ND	1100	1070	1240	1280	113	120	71-141	3	30		
Bromochloromethane	ug/kg	ND	1100	1070	1200	1280	109	120	62-145	6	30		
Bromodichloromethane	ug/kg	ND	1100	1070	1280	1260	116	117	59-148	2	30		
Bromoform	ug/kg	ND	1100	1070	1170	1220	106	113	57-145	4	30		
Bromomethane	ug/kg	ND	1100	1070	1290	1230	117	115	51-129	5	30	SS	
Carbon tetrachloride	ug/kg	ND	1100	1070	1230	1300	111	122	55-144	6	30		
Chlorobenzene	ug/kg	ND	1100	1070	1240	1260	112	118	70-142	2	30		
Chloroethane	ug/kg	ND	1100	1070	1280	1230	116	114	61-135	5	30		
Chloroform	ug/kg	ND	1100	1070	1120	1190	101	111	58-135	6	30		
Chloromethane	ug/kg	ND	1100	1070	1130	1070	102	100	37-125	5	30		
cis-1,2-Dichloroethene	ug/kg	ND	1100	1070	1230	1210	111	113	60-138	1	30		
cis-1,3-Dichloropropene	ug/kg	ND	1100	1070	1250	1240	114	116	62-142	1	30		
Dibromochloromethane	ug/kg	ND	1100	1070	1240	1240	112	116	65-141	0	30		
Dibromomethane	ug/kg	ND	1100	1070	1220	1240	111	115	72-150	1	30		
Dichlorodifluoromethane	ug/kg	ND	1100	1070	869	864	79	81	30-125	1	30		
Dichlorofluoromethane	ug/kg	ND	1100	1070	1400	1180	127	110	62-148	17	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	ND	1100	1070	1210	1180	110	110	62-135	3	30		
Ethylbenzene	ug/kg	ND	1100	1070	1200	1240	109	116	72-138	3	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1100	1070	1330	1430	121	133	38-150	7	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1100	1070	1280	1330	116	124	75-148	4	30		
Methyl-tert-butyl ether	ug/kg	ND	1100	1070	1230	1240	111	116	63-139	1	30		
Methylene Chloride	ug/kg	ND	1100	1070	1200	1180	108	111	58-135	1	30		
n-Butylbenzene	ug/kg	ND	1100	1070	1320	1420	120	132	63-150	7	30		
n-Propylbenzene	ug/kg	ND	1100	1070	1320	1380	120	129	70-146	4	30		
Naphthalene	ug/kg	ND	1100	1070	1170	1200	106	112	63-150	3	30		
p-Isopropyltoluene	ug/kg	ND	1100	1070	1240	1310	112	122	72-150	6	30		
sec-Butylbenzene	ug/kg	ND	1100	1070	1220	1320	110	123	66-150	8	30		
Styrene	ug/kg	ND	1100	1070	1230	1230	111	115	72-146	0	30		
tert-Butylbenzene	ug/kg	ND	1100	1070	1300	1350	118	126	71-148	4	30		
Tetrachloroethene	ug/kg	ND	1100	1070	1330	1370	120	127	70-150	3	30		
Tetrahydrofuran	ug/kg	ND	11000	10700	13300	13400	121	125	62-150	1	30		
Toluene	ug/kg	ND	1100	1070	1230	1230	111	114	65-142	0	30		
trans-1,2-Dichloroethene	ug/kg	ND	1100	1070	842	1240	76	116	55-141	38	30	R1	
trans-1,3-Dichloropropene	ug/kg	ND	1100	1070	1290	1270	117	119	57-147	1	30		
Trichloroethene	ug/kg	ND	1100	1070	1170	1170	106	109	62-150	0	30		
Trichlorofluoromethane	ug/kg	ND	1100	1070	1180	1190	107	111	51-150	0	30		
Vinyl chloride	ug/kg	ND	1100	1070	1140	1080	103	101	45-132	5	30		
Xylene (Total)	ug/kg	ND	3310	3210	3750	3700	113	115	75-140	1	30		
1,2-Dichloroethane-d4 (S)	%						101	98	75-125				
4-Bromofluorobenzene (S)	%						97	102	75-125				
Toluene-d8 (S)	%						99	97	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579622

Analysis Method: EPA 8260B

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260B MSV 5030 Med Level

Associated Lab Samples: 10457121002

METHOD BLANK: 3143794

Matrix: Solid

Associated Lab Samples: 10457121002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/07/18 20:56	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/07/18 20:56	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/07/18 20:56	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/07/18 20:56	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/07/18 20:56	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/07/18 20:56	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/07/18 20:56	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/07/18 20:56	
1,2,3-Trichlorobenzene	ug/kg	10.8J	50.0	8.0	12/07/18 20:56	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/07/18 20:56	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/07/18 20:56	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/07/18 20:56	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/07/18 20:56	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/07/18 20:56	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/07/18 20:56	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/07/18 20:56	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/07/18 20:56	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/07/18 20:56	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/07/18 20:56	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/07/18 20:56	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/07/18 20:56	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/07/18 20:56	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/07/18 20:56	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/07/18 20:56	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/07/18 20:56	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/07/18 20:56	
Acetone	ug/kg	568J	1000	311	12/07/18 20:56	
Allyl chloride	ug/kg	<41.9	200	41.9	12/07/18 20:56	
Benzene	ug/kg	<2.8	20.0	2.8	12/07/18 20:56	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/07/18 20:56	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/07/18 20:56	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/07/18 20:56	
Bromoform	ug/kg	<75.7	200	75.7	12/07/18 20:56	
Bromomethane	ug/kg	<58.5	500	58.5	12/07/18 20:56	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/07/18 20:56	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/07/18 20:56	
Chloroethane	ug/kg	<26.0	500	26.0	12/07/18 20:56	
Chloroform	ug/kg	<25.0	50.0	25.0	12/07/18 20:56	
Chloromethane	ug/kg	<12.0	200	12.0	12/07/18 20:56	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/07/18 20:56	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/07/18 20:56	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3143794

Matrix: Solid

Associated Lab Samples: 10457121002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/07/18 20:56	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/07/18 20:56	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/07/18 20:56	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/07/18 20:56	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/07/18 20:56	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/07/18 20:56	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/07/18 20:56	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/07/18 20:56	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/07/18 20:56	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/07/18 20:56	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/07/18 20:56	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/07/18 20:56	
Naphthalene	ug/kg	<46.8	200	46.8	12/07/18 20:56	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/07/18 20:56	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/07/18 20:56	
Styrene	ug/kg	<2.3	50.0	2.3	12/07/18 20:56	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/07/18 20:56	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/07/18 20:56	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/07/18 20:56	
Toluene	ug/kg	<12.2	50.0	12.2	12/07/18 20:56	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/07/18 20:56	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/07/18 20:56	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/07/18 20:56	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/07/18 20:56	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/07/18 20:56	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/07/18 20:56	
1,2-Dichloroethane-d4 (S)	%	101	75-125		12/07/18 20:56	
4-Bromofluorobenzene (S)	%	98	75-125		12/07/18 20:56	
Toluene-d8 (S)	%	99	75-125		12/07/18 20:56	

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	826	83	59-125	
1,1,1-Trichloroethane	ug/kg	1000	887	89	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	735	73	58-125	
1,1,2-Trichloroethane	ug/kg	1000	827	83	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	860	86	65-125	
1,1-Dichloroethane	ug/kg	1000	800	80	63-125	
1,1-Dichloroethene	ug/kg	1000	784	78	59-125	
1,1-Dichloropropene	ug/kg	1000	846	85	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	800	80	55-126	
1,2,3-Trichloropropane	ug/kg	1000	831	83	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	860	86	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	871	87	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1930	77	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	866	87	64-125	
1,2-Dichlorobenzene	ug/kg	1000	842	84	63-125	
1,2-Dichloroethane	ug/kg	1000	775	77	57-125	
1,2-Dichloropropane	ug/kg	1000	802	80	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	859	86	59-125	
1,3-Dichlorobenzene	ug/kg	1000	874	87	64-125	
1,3-Dichloropropane	ug/kg	1000	853	85	64-125	
1,4-Dichlorobenzene	ug/kg	1000	864	86	63-125	
2,2-Dichloropropane	ug/kg	1000	862	86	37-126	
2-Butanone (MEK)	ug/kg	5000	3850	77	48-125	
2-Chlorotoluene	ug/kg	1000	863	86	62-125	
4-Chlorotoluene	ug/kg	1000	866	87	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4210	84	52-135	
Acetone	ug/kg	5000	3810	76	65-125	
Allyl chloride	ug/kg	1000	716	72	52-125	
Benzene	ug/kg	1000	824	82	61-125	
Bromobenzene	ug/kg	1000	835	84	64-125	
Bromochloromethane	ug/kg	1000	868	87	65-125	
Bromodichloromethane	ug/kg	1000	861	86	57-125	
Bromoform	ug/kg	1000	755	75	57-125	
Bromomethane	ug/kg	1000	1130	113	60-125	SS
Carbon tetrachloride	ug/kg	1000	844	84	58-125	
Chlorobenzene	ug/kg	1000	863	86	66-125	
Chloroethane	ug/kg	1000	1040	104	62-125	
Chloroform	ug/kg	1000	783	78	59-125	
Chloromethane	ug/kg	1000	877	88	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	828	83	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	881	88	61-125	
Dibromochloromethane	ug/kg	1000	858	86	60-125	
Dibromomethane	ug/kg	1000	870	87	69-125	
Dichlorodifluoromethane	ug/kg	1000	740	74	38-125	
Dichlorofluoromethane	ug/kg	1000	1050	105	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	765	76	60-125	
Ethylbenzene	ug/kg	1000	832	83	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	811	81	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	846	85	65-125	
Methyl-tert-butyl ether	ug/kg	1000	869	87	59-125	
Methylene Chloride	ug/kg	1000	742	74	64-125	
n-Butylbenzene	ug/kg	1000	871	87	59-125	
n-Propylbenzene	ug/kg	1000	902	90	61-125	
Naphthalene	ug/kg	1000	764	76	53-125	
p-Isopropyltoluene	ug/kg	1000	825	82	63-125	
sec-Butylbenzene	ug/kg	1000	841	84	62-125	
Styrene	ug/kg	1000	806	81	66-125	
tert-Butylbenzene	ug/kg	1000	852	85	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3143795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	851	85	67-125	
Tetrahydrofuran	ug/kg	10000	7460	75	62-125	
Toluene	ug/kg	1000	823	82	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	843	84	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	868	87	56-125	
Trichloroethene	ug/kg	1000	860	86	67-125	
Trichlorofluoromethane	ug/kg	1000	935	94	65-125	
Vinyl chloride	ug/kg	1000	937	94	57-125	
Xylene (Total)	ug/kg	3000	2470	82	62-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3143796 3143797

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457121002 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	<18.7	1190	1200	1690	1490	142	125	64-146	12	30
1,1,1-Trichloroethane	ug/kg	<27.7	1190	1200	1710	1580	143	132	56-148	8	30
1,1,2,2-Tetrachloroethane	ug/kg	<10.5	1190	1200	1560	1410	131	118	36-150	10	30
1,1,2-Trichloroethane	ug/kg	<7.1	1190	1200	1600	1440	134	120	67-148	10	30
1,1,2-Trichlorotrifluoroethane	ug/kg	<68.9	1190	1200	1530	1340	129	112	60-142	13	30
1,1-Dichloroethane	ug/kg	<6.7	1190	1200	1590	1450	133	121	57-140	9	30
1,1-Dichloroethene	ug/kg	<17.8	1190	1200	1450	1360	122	113	59-139	7	30
1,1-Dichloropropene	ug/kg	<27.4	1190	1200	1660	1420	139	119	61-142	15	30
1,2,3-Trichlorobenzene	ug/kg	11.1J	1190	1200	1760	1680	147	140	69-150	4	30
1,2,3-Trichloropropane	ug/kg	<15.6	1190	1200	1620	1550	136	130	64-150	4	30
1,2,4-Trichlorobenzene	ug/kg	<13.2	1190	1200	1780	1640	150	138	71-149	8	30 M1
1,2,4-Trimethylbenzene	ug/kg	<11.9	1190	1200	1720	1560	144	131	67-149	10	30
1,2-Dibromo-3-chloropropane	ug/kg	<207	2980	2990	3850	3670	129	123	61-150	5	30
1,2-Dibromoethane (EDB)	ug/kg	<0.26	1190	1200	1670	1580	141	132	67-147	6	30
1,2-Dichlorobenzene	ug/kg	<2.4	1190	1200	1650	1550	139	130	70-142	6	30
1,2-Dichloroethane	ug/kg	<6.5	1190	1200	1460	1350	123	113	58-132	8	30
1,2-Dichloropropane	ug/kg	<10.2	1190	1200	1570	1490	131	125	64-144	5	30
1,3,5-Trimethylbenzene	ug/kg	<9.5	1190	1200	1760	1590	148	133	71-146	10	30 M1
1,3-Dichlorobenzene	ug/kg	<2.2	1190	1200	1720	1600	145	134	71-142	7	30 M1
1,3-Dichloropropane	ug/kg	<8.2	1190	1200	1620	1550	136	130	68-140	4	30
1,4-Dichlorobenzene	ug/kg	<3.7	1190	1200	1670	1600	141	134	68-142	4	30
2,2-Dichloropropane	ug/kg	<7.4	1190	1200	1620	1440	136	121	34-150	11	30
2-Butanone (MEK)	ug/kg	<31.6	5950	5980	7240	6800	122	114	51-150	6	30
2-Chlorotoluene	ug/kg	<2.9	1190	1200	1790	1600	150	134	66-144	11	30 M1
4-Chlorotoluene	ug/kg	<3.0	1190	1200	1710	1550	143	130	66-140	10	30 M1
4-Methyl-2-pentanone (MIBK)	ug/kg	<12.4	5950	5980	8190	7390	138	124	63-150	10	30
Acetone	ug/kg	731J	5950	5980	7900	7160	120	108	54-150	10	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3143796		3143797									
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		10457121002	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Allyl chloride	ug/kg	<49.8	1190	1200	1360	1210	114	101	53-135	12	30		
Benzene	ug/kg	<3.4	1190	1200	1580	1430	132	120	65-135	9	30		
Bromobenzene	ug/kg	<3.6	1190	1200	1720	1530	144	128	71-141	12	30	M1	
Bromochloromethane	ug/kg	<20.6	1190	1200	1700	1600	143	134	62-145	6	30		
Bromodichloromethane	ug/kg	<20.3	1190	1200	1710	1540	143	129	59-148	10	30		
Bromoform	ug/kg	<89.9	1190	1200	1680	1490	141	124	57-145	12	30		
Bromomethane	ug/kg	<69.5	1190	1200	1600	1570	130	127	51-129	1	30	M1,SS	
Carbon tetrachloride	ug/kg	<28.4	1190	1200	1630	1460	137	122	55-144	12	30		
Chlorobenzene	ug/kg	<3.4	1190	1200	1660	1530	139	128	70-142	8	30		
Chloroethane	ug/kg	<30.9	1190	1200	1600	1650	135	138	61-135	3	30	M1	
Chloroform	ug/kg	<29.7	1190	1200	1510	1410	127	118	58-135	7	30		
Chloromethane	ug/kg	<14.3	1190	1200	1320	1330	111	111	37-125	0	30		
cis-1,2-Dichloroethene	ug/kg	<9.9	1190	1200	1630	1490	137	125	60-138	9	30		
cis-1,3-Dichloropropene	ug/kg	<8.5	1190	1200	1680	1630	141	136	62-142	3	30		
Dibromochloromethane	ug/kg	<6.9	1190	1200	1690	1550	142	129	65-141	9	30	M1	
Dibromomethane	ug/kg	<10.9	1190	1200	1690	1600	142	134	72-150	6	30		
Dichlorodifluoromethane	ug/kg	<19.2	1190	1200	982	901	82	75	30-125	9	30		
Dichlorofluoromethane	ug/kg	<82.1	1190	1200	1740	1650	146	138	62-148	5	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<36.4	1190	1200	1430	1410	120	118	62-135	2	30		
Ethylbenzene	ug/kg	<3.2	1190	1200	1640	1470	138	123	72-138	11	30		
Hexachloro-1,3-butadiene	ug/kg	<14.5	1190	1200	1710	1620	143	136	38-150	5	30		
Isopropylbenzene (Cumene)	ug/kg	<2.6	1190	1200	1730	1560	145	130	75-148	10	30		
Methyl-tert-butyl ether	ug/kg	<7.1	1190	1200	1590	1480	134	124	63-139	7	30		
Methylene Chloride	ug/kg	<112	1190	1200	1490	1370	125	114	58-135	9	30		
n-Butylbenzene	ug/kg	<28.3	1190	1200	1820	1620	153	136	63-150	11	30	M1	
n-Propylbenzene	ug/kg	<3.2	1190	1200	1810	1650	152	138	70-146	10	30	M1	
Naphthalene	ug/kg	<55.6	1190	1200	1630	1550	137	129	63-150	5	30		
p-Isopropyltoluene	ug/kg	<18.1	1190	1200	1670	1540	140	128	72-150	8	30		
sec-Butylbenzene	ug/kg	<11.4	1190	1200	1670	1520	140	127	66-150	10	30		
Styrene	ug/kg	<2.7	1190	1200	1650	1500	138	126	72-146	9	30		
tert-Butylbenzene	ug/kg	<11.4	1190	1200	1780	1610	149	135	71-148	10	30	M1	
Tetrachloroethene	ug/kg	<20.9	1190	1200	1740	1530	146	128	70-150	12	30		
Tetrahydrofuran	ug/kg	<86.4	11900	12000	16400	15200	138	127	62-150	8	30		
Toluene	ug/kg	<14.5	1190	1200	1620	1470	136	123	65-142	9	30		
trans-1,2-Dichloroethene	ug/kg	<27.8	1190	1200	1610	1470	136	123	55-141	9	30		
trans-1,3-Dichloropropene	ug/kg	<8.3	1190	1200	1740	1610	146	135	57-147	7	30		
Trichloroethene	ug/kg	<9.2	1190	1200	1600	1510	134	126	62-150	6	30		
Trichlorofluoromethane	ug/kg	<104	1190	1200	1610	1450	135	122	51-150	10	30		
Vinyl chloride	ug/kg	<11.7	1190	1200	1470	1440	124	121	45-132	2	30		
Xylene (Total)	ug/kg	<13.8	3580	3590	5020	4480	141	125	75-140	11	30	MS	
1,2-Dichloroethane-d4 (S)	%						97	98	75-125				
4-Bromofluorobenzene (S)	%						99	102	75-125				
Toluene-d8 (S)	%						99	99	75-125				

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579856 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012

METHOD BLANK: 3145266 Matrix: Solid  
Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/10/18 13:19	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/10/18 13:19	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/10/18 13:19	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/10/18 13:19	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/10/18 13:19	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/10/18 13:19	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/10/18 13:19	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/10/18 13:19	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/10/18 13:19	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/10/18 13:19	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/10/18 13:19	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/10/18 13:19	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/10/18 13:19	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/10/18 13:19	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/10/18 13:19	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/10/18 13:19	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/10/18 13:19	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/10/18 13:19	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/10/18 13:19	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/10/18 13:19	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 13:19	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/10/18 13:19	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/10/18 13:19	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/10/18 13:19	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/10/18 13:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/10/18 13:19	
Acetone	ug/kg	<311	1000	311	12/10/18 13:19	
Allyl chloride	ug/kg	<41.9	200	41.9	12/10/18 13:19	
Benzene	ug/kg	3.6J	20.0	2.8	12/10/18 13:19	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 13:19	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/10/18 13:19	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/10/18 13:19	
Bromoform	ug/kg	<75.7	200	75.7	12/10/18 13:19	
Bromomethane	ug/kg	<58.5	500	58.5	12/10/18 13:19	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/10/18 13:19	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/10/18 13:19	
Chloroethane	ug/kg	<26.0	500	26.0	12/10/18 13:19	
Chloroform	ug/kg	<25.0	50.0	25.0	12/10/18 13:19	
Chloromethane	ug/kg	<12.0	200	12.0	12/10/18 13:19	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/10/18 13:19	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/10/18 13:19	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3145266

Matrix: Solid

Associated Lab Samples: 10457121009, 10457121010, 10457121011, 10457121012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/10/18 13:19	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/10/18 13:19	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/10/18 13:19	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/10/18 13:19	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/10/18 13:19	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 13:19	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/10/18 13:19	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/10/18 13:19	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/10/18 13:19	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/10/18 13:19	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/10/18 13:19	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 13:19	
Naphthalene	ug/kg	<46.8	200	46.8	12/10/18 13:19	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/10/18 13:19	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 13:19	
Styrene	ug/kg	<2.3	50.0	2.3	12/10/18 13:19	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 13:19	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/10/18 13:19	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/10/18 13:19	
Toluene	ug/kg	<12.2	50.0	12.2	12/10/18 13:19	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/10/18 13:19	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/10/18 13:19	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/10/18 13:19	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/10/18 13:19	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/10/18 13:19	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/10/18 13:19	
1,2-Dichloroethane-d4 (S)	%	92	75-125		12/10/18 13:19	
4-Bromofluorobenzene (S)	%	108	75-125		12/10/18 13:19	
Toluene-d8 (S)	%	102	75-125		12/10/18 13:19	

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	696	70	59-125	
1,1,1-Trichloroethane	ug/kg	1000	664	66	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	777	78	58-125	
1,1,2-Trichloroethane	ug/kg	1000	746	75	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	659	66	65-125	
1,1-Dichloroethane	ug/kg	1000	737	74	63-125	
1,1-Dichloroethene	ug/kg	1000	584	58	59-125	L2
1,1-Dichloropropene	ug/kg	1000	731	73	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	694	69	55-126	
1,2,3-Trichloropropane	ug/kg	1000	661	66	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	718	72	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	748	75	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1720	69	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	689	69	64-125	
1,2-Dichlorobenzene	ug/kg	1000	693	69	63-125	
1,2-Dichloroethane	ug/kg	1000	602	60	57-125	
1,2-Dichloropropane	ug/kg	1000	833	83	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	716	72	59-125	
1,3-Dichlorobenzene	ug/kg	1000	680	68	64-125	
1,3-Dichloropropane	ug/kg	1000	765	77	64-125	
1,4-Dichlorobenzene	ug/kg	1000	661	66	63-125	
2,2-Dichloropropane	ug/kg	1000	697	70	37-126	
2-Butanone (MEK)	ug/kg	5000	4190	84	48-125	
2-Chlorotoluene	ug/kg	1000	751	75	62-125	
4-Chlorotoluene	ug/kg	1000	747	75	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3880	78	52-135	
Acetone	ug/kg	5000	4560	91	65-125	
Allyl chloride	ug/kg	1000	711	71	52-125	
Benzene	ug/kg	1000	706	71	61-125	
Bromobenzene	ug/kg	1000	660	66	64-125	
Bromochloromethane	ug/kg	1000	679	68	65-125	
Bromodichloromethane	ug/kg	1000	709	71	57-125	
Bromoform	ug/kg	1000	743	74	57-125	
Bromomethane	ug/kg	1000	749	75	60-125	
Carbon tetrachloride	ug/kg	1000	588	59	58-125	
Chlorobenzene	ug/kg	1000	682	68	66-125	
Chloroethane	ug/kg	1000	756	76	62-125	
Chloroform	ug/kg	1000	656	66	59-125	
Chloromethane	ug/kg	1000	954	95	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	748	75	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	715	71	61-125	
Dibromochloromethane	ug/kg	1000	713	71	60-125	
Dibromomethane	ug/kg	1000	682	68	69-125 L2	
Dichlorodifluoromethane	ug/kg	1000	717	72	38-125	
Dichlorofluoromethane	ug/kg	1000	724	72	67-125 N2	
Diethyl ether (Ethyl ether)	ug/kg	1000	619	62	60-125	
Ethylbenzene	ug/kg	1000	664	66	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	709	71	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	754	75	65-125	
Methyl-tert-butyl ether	ug/kg	1000	765	77	59-125	
Methylene Chloride	ug/kg	1000	725	73	64-125	
n-Butylbenzene	ug/kg	1000	779	78	59-125	
n-Propylbenzene	ug/kg	1000	741	74	61-125	
Naphthalene	ug/kg	1000	743	74	53-125	
p-Isopropyltoluene	ug/kg	1000	733	73	63-125	
sec-Butylbenzene	ug/kg	1000	781	78	62-125	
Styrene	ug/kg	1000	755	75	66-125	
tert-Butylbenzene	ug/kg	1000	773	77	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	653	65	67-125	L2
Tetrahydrofuran	ug/kg	10000	7660	77	62-125	
Toluene	ug/kg	1000	646	65	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	721	72	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	721	72	56-125	
Trichloroethene	ug/kg	1000	660	66	67-125	L2
Trichlorofluoromethane	ug/kg	1000	721	72	65-125	
Vinyl chloride	ug/kg	1000	933	93	57-125	
Xylene (Total)	ug/kg	3000	2150	72	62-125	
1,2-Dichloroethane-d4 (S)	%			87	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145434 3145435

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457121011 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	<19.5	1220	1250	1360	1360	111	109	64-146	0	30
1,1,1-Trichloroethane	ug/kg	<29.0	1220	1250	1340	1310	109	105	56-148	2	30
1,1,2,2-Tetrachloroethane	ug/kg	<11.0	1220	1250	1730	1650	142	132	36-150	5	30
1,1,2-Trichloroethane	ug/kg	<7.4	1220	1250	1460	1460	119	117	67-148	0	30
1,1,2-Trichlorotrifluoroethane	ug/kg	<72.2	1220	1250	1130	1120	92	89	60-142	1	30
1,1-Dichloroethane	ug/kg	<7.0	1220	1250	1530	1430	125	115	57-140	7	30
1,1-Dichloroethene	ug/kg	<18.7	1220	1250	1040	1080	85	86	59-139	3	30
1,1-Dichloropropene	ug/kg	<28.8	1220	1250	1440	1390	118	111	61-142	3	30
1,2,3-Trichlorobenzene	ug/kg	<9.9	1220	1250	1500	1440	122	115	69-150	4	30
1,2,3-Trichloropropane	ug/kg	<16.3	1220	1250	1340	1380	110	111	64-150	3	30
1,2,4-Trichlorobenzene	ug/kg	<13.8	1220	1250	1500	1480	123	118	71-149	1	30
1,2,4-Trimethylbenzene	ug/kg	<12.4	1220	1250	1610	1620	131	130	67-149	1	30
1,2-Dibromo-3-chloropropane	ug/kg	<217	3060	3130	3790	3660	124	117	61-150	4	30
1,2-Dibromoethane (EDB)	ug/kg	<0.27	1220	1250	1370	1330	112	106	67-147	3	30
1,2-Dichlorobenzene	ug/kg	<2.5	1220	1250	1440	1450	118	116	70-142	1	30
1,2-Dichloroethane	ug/kg	9.3J	1220	1250	1250	1190	101	95	58-132	5	30
1,2-Dichloropropane	ug/kg	<10.7	1220	1250	1650	1550	135	124	64-144	6	30
1,3,5-Trimethylbenzene	ug/kg	<9.9	1220	1250	1500	1500	123	120	71-146	0	30
1,3-Dichlorobenzene	ug/kg	<2.3	1220	1250	1420	1390	116	111	71-142	2	30
1,3-Dichloropropane	ug/kg	<8.6	1220	1250	1510	1510	123	121	68-140	0	30
1,4-Dichlorobenzene	ug/kg	<3.9	1220	1250	1410	1400	115	112	68-142	1	30
2,2-Dichloropropane	ug/kg	<7.8	1220	1250	1360	1320	111	106	34-150	3	30
2-Butanone (MEK)	ug/kg	<33.1	6120	6260	8320	7600	136	121	51-150	9	30
2-Chlorotoluene	ug/kg	<3.1	1220	1250	1590	1580	130	126	66-144	1	30
4-Chlorotoluene	ug/kg	<3.2	1220	1250	1580	1580	129	126	66-140	0	30
4-Methyl-2-pentanone (MIBK)	ug/kg	<12.9	6120	6260	8060	7930	132	127	63-150	2	30
Acetone	ug/kg	<387	6120	6260	8780	8450	143	135	54-150	4	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3145434		3145435		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457121011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Allyl chloride	ug/kg	<52.2	1220	1250	1310	1310	107	105	53-135	0	30		
Benzene	ug/kg	8.0J	1220	1250	1400	1360	114	108	65-135	3	30		
Bromobenzene	ug/kg	<3.8	1220	1250	1390	1370	114	110	71-141	1	30		
Bromochloromethane	ug/kg	<21.5	1220	1250	1400	1340	115	107	62-145	5	30		
Bromodichloromethane	ug/kg	<21.3	1220	1250	1430	1370	117	109	59-148	5	30		
Bromoform	ug/kg	<94.2	1220	1250	1450	1400	118	112	57-145	3	30		
Bromomethane	ug/kg	<72.8	1220	1250	1010	1060	81	83	51-129	4	30		
Carbon tetrachloride	ug/kg	<29.7	1220	1250	1150	1160	94	93	55-144	1	30		
Chlorobenzene	ug/kg	<3.5	1220	1250	1350	1340	110	107	70-142	1	30		
Chloroethane	ug/kg	<32.4	1220	1250	925	1040	76	83	61-135	11	30		
Chloroform	ug/kg	<31.1	1220	1250	1350	1270	110	101	58-135	6	30		
Chloromethane	ug/kg	<14.9	1220	1250	1250	1280	102	102	37-125	2	30		
cis-1,2-Dichloroethene	ug/kg	<10.3	1220	1250	1460	1420	119	114	60-138	2	30		
cis-1,3-Dichloropropene	ug/kg	<8.9	1220	1250	1480	1450	121	116	62-142	2	30		
Dibromochloromethane	ug/kg	<7.2	1220	1250	1360	1330	111	107	65-141	2	30		
Dibromomethane	ug/kg	<11.4	1220	1250	1330	1330	109	107	72-150	0	30		
Dichlorodifluoromethane	ug/kg	<20.2	1220	1250	783	772	64	62	30-125	1	30		
Dichlorofluoromethane	ug/kg	<86.0	1220	1250	985	986	80	79	62-148	0	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<38.1	1220	1250	1220	1150	99	92	62-135	6	30		
Ethylbenzene	ug/kg	<3.4	1220	1250	1340	1290	110	103	72-138	4	30		
Hexachloro-1,3-butadiene	ug/kg	<15.2	1220	1250	1590	1510	130	121	38-150	5	30		
Isopropylbenzene (Cumene)	ug/kg	<2.8	1220	1250	1520	1510	124	121	75-148	1	30		
Methyl-tert-butyl ether	ug/kg	<7.4	1220	1250	1540	1510	126	121	63-139	2	30		
Methylene Chloride	ug/kg	<4.4	1220	1250	1460	1430	113	108	58-135	2	30		
n-Butylbenzene	ug/kg	<29.6	1220	1250	1660	1690	136	135	63-150	2	30		
n-Propylbenzene	ug/kg	<3.3	1220	1250	1530	1540	125	123	70-146	1	30		
Naphthalene	ug/kg	<58.3	1220	1250	1640	1610	133	128	63-150	2	30		
p-Isopropyltoluene	ug/kg	<18.9	1220	1250	1590	1570	130	125	72-150	2	30		
sec-Butylbenzene	ug/kg	<11.9	1220	1250	1650	1650	135	132	66-150	0	30		
Styrene	ug/kg	<2.8	1220	1250	1500	1510	123	121	72-146	1	30		
tert-Butylbenzene	ug/kg	<11.9	1220	1250	1600	1630	131	130	71-148	2	30		
Tetrachloroethene	ug/kg	<21.9	1220	1250	1240	1270	101	102	70-150	3	30		
Tetrahydrofuran	ug/kg	<90.5	12200	12500	15800	15600	129	125	62-150	1	30		
Toluene	ug/kg	<15.2	1220	1250	1300	1270	106	101	65-142	2	30		
trans-1,2-Dichloroethene	ug/kg	<29.1	1220	1250	1360	1300	111	104	55-141	5	30		
trans-1,3-Dichloropropene	ug/kg	<8.7	1220	1250	1410	1390	115	111	57-147	2	30		
Trichloroethene	ug/kg	<9.6	1220	1250	1310	1300	107	104	62-150	0	30		
Trichlorofluoromethane	ug/kg	<109	1220	1250	831	891	68	71	51-150	7	30		
Vinyl chloride	ug/kg	<12.2	1220	1250	1190	1260	97	100	45-132	5	30		
Xylene (Total)	ug/kg	<14.4	3670	3760	4290	4230	117	113	75-140	2	30		
1,2-Dichloroethane-d4 (S)	%						90	87	75-125				
4-Bromofluorobenzene (S)	%						108	109	75-125				
Toluene-d8 (S)	%						102	104	75-125				

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579857 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

METHOD BLANK: 3145268 Matrix: Solid  
Associated Lab Samples: 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/10/18 20:34	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/10/18 20:34	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/10/18 20:34	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/10/18 20:34	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/10/18 20:34	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/10/18 20:34	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/10/18 20:34	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/10/18 20:34	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/10/18 20:34	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/10/18 20:34	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/10/18 20:34	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/10/18 20:34	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/10/18 20:34	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/10/18 20:34	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/10/18 20:34	
1,2-Dichloroethane	ug/kg	8.1J	50.0	5.5	12/10/18 20:34	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/10/18 20:34	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/10/18 20:34	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/10/18 20:34	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/10/18 20:34	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 20:34	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/10/18 20:34	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/10/18 20:34	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/10/18 20:34	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/10/18 20:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/10/18 20:34	
Acetone	ug/kg	<311	1000	311	12/10/18 20:34	
Allyl chloride	ug/kg	<41.9	200	41.9	12/10/18 20:34	
Benzene	ug/kg	5.4J	20.0	2.8	12/10/18 20:34	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/10/18 20:34	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/10/18 20:34	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/10/18 20:34	
Bromoform	ug/kg	<75.7	200	75.7	12/10/18 20:34	
Bromomethane	ug/kg	<58.5	500	58.5	12/10/18 20:34	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/10/18 20:34	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/10/18 20:34	
Chloroethane	ug/kg	<26.0	500	26.0	12/10/18 20:34	
Chloroform	ug/kg	<25.0	50.0	25.0	12/10/18 20:34	
Chloromethane	ug/kg	<12.0	200	12.0	12/10/18 20:34	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/10/18 20:34	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3145268

Matrix: Solid

Associated Lab Samples: 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020, 10457121021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/10/18 20:34	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/10/18 20:34	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/10/18 20:34	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/10/18 20:34	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/10/18 20:34	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/10/18 20:34	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 20:34	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/10/18 20:34	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/10/18 20:34	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/10/18 20:34	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/10/18 20:34	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/10/18 20:34	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/10/18 20:34	
Naphthalene	ug/kg	<46.8	200	46.8	12/10/18 20:34	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/10/18 20:34	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 20:34	
Styrene	ug/kg	<2.3	50.0	2.3	12/10/18 20:34	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/10/18 20:34	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/10/18 20:34	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/10/18 20:34	
Toluene	ug/kg	<12.2	50.0	12.2	12/10/18 20:34	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/10/18 20:34	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/10/18 20:34	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/10/18 20:34	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/10/18 20:34	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/10/18 20:34	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/10/18 20:34	
1,2-Dichloroethane-d4 (S)	%	98	75-125		12/10/18 20:34	
4-Bromofluorobenzene (S)	%	100	75-125		12/10/18 20:34	
Toluene-d8 (S)	%	102	75-125		12/10/18 20:34	

LABORATORY CONTROL SAMPLE: 3145269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	762	76	59-125	
1,1,1-Trichloroethane	ug/kg	1000	758	76	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	855	85	58-125	
1,1,2-Trichloroethane	ug/kg	1000	789	79	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	705	70	65-125	
1,1-Dichloroethane	ug/kg	1000	792	79	63-125	
1,1-Dichloroethene	ug/kg	1000	614	61	59-125	
1,1-Dichloropropene	ug/kg	1000	774	77	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	751	75	55-126	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	1000	761	76	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	762	76	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	818	82	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1900	76	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	710	71	64-125	
1,2-Dichlorobenzene	ug/kg	1000	770	77	63-125	
1,2-Dichloroethane	ug/kg	1000	723	72	57-125	
1,2-Dichloropropane	ug/kg	1000	851	85	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	763	76	59-125	
1,3-Dichlorobenzene	ug/kg	1000	724	72	64-125	
1,3-Dichloropropane	ug/kg	1000	808	81	64-125	
1,4-Dichlorobenzene	ug/kg	1000	741	74	63-125	
2,2-Dichloropropane	ug/kg	1000	720	72	37-126	
2-Butanone (MEK)	ug/kg	5000	4030	81	48-125	
2-Chlorotoluene	ug/kg	1000	815	82	62-125	
4-Chlorotoluene	ug/kg	1000	821	82	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4320	86	52-135	
Acetone	ug/kg	5000	4000	80	65-125	
Allyl chloride	ug/kg	1000	705	70	52-125	
Benzene	ug/kg	1000	729	73	61-125	
Bromobenzene	ug/kg	1000	732	73	64-125	
Bromochloromethane	ug/kg	1000	748	75	65-125	
Bromodichloromethane	ug/kg	1000	771	77	57-125	
Bromoform	ug/kg	1000	789	79	57-125	
Bromomethane	ug/kg	1000	670	67	60-125	
Carbon tetrachloride	ug/kg	1000	680	68	58-125	
Chlorobenzene	ug/kg	1000	752	75	66-125	
Chloroethane	ug/kg	1000	721	72	62-125	
Chloroform	ug/kg	1000	729	73	59-125	
Chloromethane	ug/kg	1000	828	83	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	783	78	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	742	74	61-125	
Dibromochloromethane	ug/kg	1000	752	75	60-125	
Dibromomethane	ug/kg	1000	729	73	69-125	
Dichlorodifluoromethane	ug/kg	1000	633	63	38-125	
Dichlorofluoromethane	ug/kg	1000	701	70	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	694	69	60-125	
Ethylbenzene	ug/kg	1000	706	71	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	795	80	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	781	78	65-125	
Methyl-tert-butyl ether	ug/kg	1000	799	80	59-125	
Methylene Chloride	ug/kg	1000	817	82	64-125	
n-Butylbenzene	ug/kg	1000	839	84	59-125	
n-Propylbenzene	ug/kg	1000	774	77	61-125	
Naphthalene	ug/kg	1000	789	79	53-125	
p-Isopropyltoluene	ug/kg	1000	787	79	63-125	
sec-Butylbenzene	ug/kg	1000	831	83	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	1000	787	79	66-125	
tert-Butylbenzene	ug/kg	1000	851	85	64-125	
Tetrachloroethene	ug/kg	1000	701	70	67-125	
Tetrahydrofuran	ug/kg	10000	7920	79	62-125	
Toluene	ug/kg	1000	695	70	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	719	72	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	764	76	56-125	
Trichloroethene	ug/kg	1000	726	73	67-125	
Trichlorofluoromethane	ug/kg	1000	636	64	65-125 L2	
Vinyl chloride	ug/kg	1000	798	80	57-125	
Xylene (Total)	ug/kg	3000	2270	76	62-125	
1,2-Dichloroethane-d4 (S)	%			93	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145949 3145950

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457121020 Result	Spike Conc.	MSD Spike Conc.	MSD Result							
1,1,1,2-Tetrachloroethane	ug/kg	<20.3	1390	1360	1500	1790	109	132	64-146	18	30	
1,1,1-Trichloroethane	ug/kg	<30.2	1390	1360	1580	1720	114	126	56-148	9	30	
1,1,2,2-Tetrachloroethane	ug/kg	<11.4	1390	1360	1780	2070	128	152	36-150	15	30	M1
1,1,2-Trichloroethane	ug/kg	<7.7	1390	1360	1560	1880	112	138	67-148	19	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<75.1	1390	1360	1220	1370	88	101	60-142	12	30	
1,1-Dichloroethane	ug/kg	<7.3	1390	1360	1650	1850	119	136	57-140	12	30	
1,1-Dichloroethene	ug/kg	<19.4	1390	1360	1360	1420	98	104	59-139	5	30	
1,1-Dichloropropene	ug/kg	<29.9	1390	1360	1620	1840	117	135	61-142	12	30	
1,2,3-Trichlorobenzene	ug/kg	<10.3	1390	1360	1620	1920	117	141	69-150	17	30	
1,2,3-Trichloropropane	ug/kg	<17.0	1390	1360	1540	1910	111	140	64-150	21	30	
1,2,4-Trichlorobenzene	ug/kg	<14.4	1390	1360	1640	1970	118	145	71-149	19	30	
1,2,4-Trimethylbenzene	ug/kg	<12.9	1390	1360	1710	2030	123	149	67-149	17	30	
1,2-Dibromo-3-chloropropane	ug/kg	<225	3470	3400	4040	4750	117	140	61-150	16	30	
1,2-Dibromoethane (EDB)	ug/kg	<6.8	1390	1360	1600	1890	115	138	67-147	17	30	
1,2-Dichlorobenzene	ug/kg	<2.6	1390	1360	1560	1850	113	135	70-142	17	30	
1,2-Dichloroethane	ug/kg	<7.1	1390	1360	1450	1640	105	120	58-132	12	30	
1,2-Dichloropropane	ug/kg	<11.2	1390	1360	1740	1940	126	143	64-144	11	30	
1,3,5-Trimethylbenzene	ug/kg	<10.3	1390	1360	1610	1930	116	142	71-146	18	30	
1,3-Dichlorobenzene	ug/kg	<2.4	1390	1360	1460	1730	105	127	71-142	17	30	
1,3-Dichloropropane	ug/kg	<9.0	1390	1360	1650	1980	119	145	68-140	18	30	M1
1,4-Dichlorobenzene	ug/kg	<4.0	1390	1360	1450	1750	105	128	68-142	18	30	
2,2-Dichloropropane	ug/kg	<8.1	1390	1360	1510	1690	109	124	34-150	12	30	
2-Butanone (MEK)	ug/kg	<34.4	6920	6820	8140	9560	117	140	51-150	16	30	
2-Chlorotoluene	ug/kg	<3.2	1390	1360	1680	1960	121	144	66-144	16	30	
4-Chlorotoluene	ug/kg	<3.3	1390	1360	1640	1990	119	146	66-140	19	30	M1

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	10457121020		3145949		3145950		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
4-Methyl-2-pentanone (MIBK)	ug/kg	<13.5	6920	6820	8580	10100	124	149	63-150	16	30		
Acetone	ug/kg	<403	6920	6820	8610	9970	124	146	54-150	15	30		
Allyl chloride	ug/kg	<54.3	1390	1360	1550	1700	112	125	53-135	10	30		
Benzene	ug/kg	<3.7	1390	1360	1600	1790	115	132	65-135	12	30		
Bromobenzene	ug/kg	<4.0	1390	1360	1460	1810	105	133	71-141	22	30		
Bromochloromethane	ug/kg	<22.4	1390	1360	1570	1820	113	134	62-145	15	30		
Bromodichloromethane	ug/kg	<22.1	1390	1360	1520	1830	110	134	59-148	18	30		
Bromoform	ug/kg	<98.0	1390	1360	1560	1820	112	133	57-145	16	30		
Bromomethane	ug/kg	<75.8	1390	1360	1010	1170	70	84	51-129	15	30		
Carbon tetrachloride	ug/kg	<30.9	1390	1360	1400	1580	101	116	55-144	12	30		
Chlorobenzene	ug/kg	<3.7	1390	1360	1540	1790	111	131	70-142	15	30		
Chloroethane	ug/kg	<33.7	1390	1360	1040	1120	75	82	61-135	8	30		
Chloroform	ug/kg	<32.4	1390	1360	1450	1630	105	119	58-135	11	30		
Chloromethane	ug/kg	<15.5	1390	1360	1170	1250	85	92	37-125	7	30		
cis-1,2-Dichloroethene	ug/kg	<10.7	1390	1360	1580	1770	114	130	60-138	11	30		
cis-1,3-Dichloropropene	ug/kg	<9.3	1390	1360	1630	1850	118	136	62-142	13	30		
Dibromochloromethane	ug/kg	<7.5	1390	1360	1500	1740	108	128	65-141	15	30		
Dibromomethane	ug/kg	<11.9	1390	1360	1530	1810	111	133	72-150	17	30		
Dichlorodifluoromethane	ug/kg	<21.0	1390	1360	654	609	47	45	30-125	7	30		
Dichlorofluoromethane	ug/kg	<89.5	1390	1360	1090	1260	78	92	62-148	15	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<39.6	1390	1360	1460	1660	105	122	62-135	13	30		
Ethylbenzene	ug/kg	<3.5	1390	1360	1470	1730	106	127	72-138	16	30		
Hexachloro-1,3-butadiene	ug/kg	<15.8	1390	1360	1540	2080	111	153	38-150	30	30	M1	
Isopropylbenzene (Cumene)	ug/kg	<2.9	1390	1360	1670	1980	120	146	75-148	17	30		
Methyl-tert-butyl ether	ug/kg	<7.7	1390	1360	1640	1890	119	139	63-139	14	30		
Methylene Chloride	ug/kg	133J	1390	1360	1610	1860	106	127	58-135	15	30		
n-Butylbenzene	ug/kg	<30.8	1390	1360	1710	2120	123	156	63-150	22	30	M1	
n-Propylbenzene	ug/kg	<3.5	1390	1360	1630	1940	118	142	70-146	17	30		
Naphthalene	ug/kg	<60.6	1390	1360	1690	2050	122	151	63-150	19	30	M1	
p-Isopropyltoluene	ug/kg	<19.7	1390	1360	1680	2010	121	148	72-150	18	30		
sec-Butylbenzene	ug/kg	<12.4	1390	1360	1720	2050	124	151	66-150	18	30	M1	
Styrene	ug/kg	<3.0	1390	1360	1690	2040	122	150	72-146	19	30	M1	
tert-Butylbenzene	ug/kg	<12.4	1390	1360	1710	2060	123	151	71-148	19	30	M1	
Tetrachloroethene	ug/kg	<22.8	1390	1360	1500	1770	108	130	70-150	16	30		
Tetrahydrofuran	ug/kg	<94.1	13900	13600	17400	20500	126	150	62-150	16	30		
Toluene	ug/kg	<15.8	1390	1360	1500	1680	108	123	65-142	11	30		
trans-1,2-Dichloroethene	ug/kg	<30.3	1390	1360	1590	1750	114	129	55-141	10	30		
trans-1,3-Dichloropropene	ug/kg	<9.0	1390	1360	1570	1810	113	133	57-147	15	30		
Trichloroethene	ug/kg	<10	1390	1360	1530	1730	110	127	62-150	12	30		
Trichlorofluoromethane	ug/kg	<113	1390	1360	887	976	64	72	51-150	10	30		
Vinyl chloride	ug/kg	<12.7	1390	1360	1140	1220	82	90	45-132	7	30		
Xylene (Total)	ug/kg	<15.0	4150	4090	4800	5530	115	135	75-140	14	30		
1,2-Dichloroethane-d4 (S)	%						93	92	75-125				
4-Bromofluorobenzene (S)	%						104	104	75-125				
Toluene-d8 (S)	%						99	103	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 580108

Analysis Method: EPA 8260B

QC Batch Method: EPA 5035/5030B

Analysis Description: 8260B MSV 5030 Med Level

Associated Lab Samples: 10457121022, 10457121023

METHOD BLANK: 3146275

Matrix: Solid

Associated Lab Samples: 10457121022, 10457121023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/11/18 23:46	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/11/18 23:46	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/11/18 23:46	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/11/18 23:46	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/11/18 23:46	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/11/18 23:46	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/11/18 23:46	
1,1-Dichloropropene	ug/kg	<23.1	200	23.1	12/11/18 23:46	MN
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/11/18 23:46	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/11/18 23:46	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/11/18 23:46	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/11/18 23:46	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/11/18 23:46	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/11/18 23:46	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/11/18 23:46	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/11/18 23:46	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/11/18 23:46	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/11/18 23:46	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/11/18 23:46	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/11/18 23:46	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 23:46	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/11/18 23:46	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/11/18 23:46	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/11/18 23:46	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/11/18 23:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/11/18 23:46	
Acetone	ug/kg	<311	1000	311	12/11/18 23:46	
Allyl chloride	ug/kg	<41.9	200	41.9	12/11/18 23:46	
Benzene	ug/kg	<2.8	20.0	2.8	12/11/18 23:46	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/11/18 23:46	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/11/18 23:46	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/11/18 23:46	
Bromoform	ug/kg	<75.7	200	75.7	12/11/18 23:46	
Bromomethane	ug/kg	<58.5	500	58.5	12/11/18 23:46	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/11/18 23:46	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/11/18 23:46	
Chloroethane	ug/kg	<26.0	500	26.0	12/11/18 23:46	
Chloroform	ug/kg	<25.0	50.0	25.0	12/11/18 23:46	
Chloromethane	ug/kg	<12.0	200	12.0	12/11/18 23:46	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/11/18 23:46	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/11/18 23:46	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3146275

Matrix: Solid

Associated Lab Samples: 10457121022, 10457121023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/11/18 23:46	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/11/18 23:46	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/11/18 23:46	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/11/18 23:46	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/11/18 23:46	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/11/18 23:46	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/11/18 23:46	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/11/18 23:46	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/11/18 23:46	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/11/18 23:46	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/11/18 23:46	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/11/18 23:46	
Naphthalene	ug/kg	<46.8	200	46.8	12/11/18 23:46	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/11/18 23:46	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 23:46	
Styrene	ug/kg	<2.3	50.0	2.3	12/11/18 23:46	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/11/18 23:46	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/11/18 23:46	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/11/18 23:46	
Toluene	ug/kg	<12.2	50.0	12.2	12/11/18 23:46	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/11/18 23:46	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/11/18 23:46	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/11/18 23:46	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/11/18 23:46	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/11/18 23:46	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/11/18 23:46	
1,2-Dichloroethane-d4 (S)	%	115	75-125		12/11/18 23:46	
4-Bromofluorobenzene (S)	%	102	75-125		12/11/18 23:46	
Toluene-d8 (S)	%	99	75-125		12/11/18 23:46	

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	681	68	59-125	
1,1,1-Trichloroethane	ug/kg	1000	897	90	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	643	64	58-125	
1,1,2-Trichloroethane	ug/kg	1000	685	69	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	864	86	65-125	
1,1-Dichloroethane	ug/kg	1000	797	80	63-125	
1,1-Dichloroethene	ug/kg	1000	914	91	59-125	
1,1-Dichloropropene	ug/kg	1000	835	84	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	688	69	55-126	
1,2,3-Trichloropropane	ug/kg	1000	640	64	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	700	70	62-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	679	68	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1650	66	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	675	68	64-125	
1,2-Dichlorobenzene	ug/kg	1000	687	69	63-125	
1,2-Dichloroethane	ug/kg	1000	729	73	57-125	
1,2-Dichloropropane	ug/kg	1000	708	71	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	703	70	59-125	
1,3-Dichlorobenzene	ug/kg	1000	689	69	64-125	
1,3-Dichloropropane	ug/kg	1000	678	68	64-125	
1,4-Dichlorobenzene	ug/kg	1000	659	66	63-125	
2,2-Dichloropropane	ug/kg	1000	801	80	37-126	
2-Butanone (MEK)	ug/kg	5000	3280	66	48-125	
2-Chlorotoluene	ug/kg	1000	661	66	62-125	
4-Chlorotoluene	ug/kg	1000	669	67	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3020	60	52-135	
Acetone	ug/kg	5000	3300	66	65-125	
Allyl chloride	ug/kg	1000	741	74	52-125	
Benzene	ug/kg	1000	742	74	61-125	
Bromobenzene	ug/kg	1000	701	70	64-125	
Bromochloromethane	ug/kg	1000	844	84	65-125	
Bromodichloromethane	ug/kg	1000	708	71	57-125	
Bromoform	ug/kg	1000	640	64	57-125	
Bromomethane	ug/kg	1000	1030	103	60-125	
Carbon tetrachloride	ug/kg	1000	854	85	58-125	
Chlorobenzene	ug/kg	1000	684	68	66-125	
Chloroethane	ug/kg	1000	820	82	62-125	CH,SS
Chloroform	ug/kg	1000	710	71	59-125	
Chloromethane	ug/kg	1000	743	74	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	804	80	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	691	69	61-125	
Dibromochloromethane	ug/kg	1000	657	66	60-125	
Dibromomethane	ug/kg	1000	722	72	69-125	
Dichlorodifluoromethane	ug/kg	1000	780	78	38-125	
Dichlorofluoromethane	ug/kg	1000	867	87	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	748	75	60-125	
Ethylbenzene	ug/kg	1000	705	70	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	773	77	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	782	78	65-125	
Methyl-tert-butyl ether	ug/kg	1000	746	75	59-125	
Methylene Chloride	ug/kg	1000	741	74	64-125	
n-Butylbenzene	ug/kg	1000	748	75	59-125	
n-Propylbenzene	ug/kg	1000	726	73	61-125	
Naphthalene	ug/kg	1000	652	65	53-125	
p-Isopropyltoluene	ug/kg	1000	739	74	63-125	
sec-Butylbenzene	ug/kg	1000	771	77	62-125	
Styrene	ug/kg	1000	713	71	66-125	
tert-Butylbenzene	ug/kg	1000	759	76	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3146276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	811	81	67-125	
Tetrahydrofuran	ug/kg	10000	6850	69	62-125	
Toluene	ug/kg	1000	678	68	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	885	89	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	701	70	56-125	
Trichloroethene	ug/kg	1000	813	81	67-125	
Trichlorofluoromethane	ug/kg	1000	1250	125	65-125	
Vinyl chloride	ug/kg	1000	821	82	57-125	
Xylene (Total)	ug/kg	3000	2130	71	62-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146277 3146278

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457092045 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/kg	<29.7	1840	2400	1910	2630	104	109	64-146	32	30	R1
1,1,1-Trichloroethane	ug/kg	<44.0	1840	2400	2360	3260	129	136	56-148	32	30	R1
1,1,2,2-Tetrachloroethane	ug/kg	<16.6	1840	2400	1740	2380	95	99	36-150	31	30	R1
1,1,2-Trichloroethane	ug/kg	<11.3	1840	2400	1860	2580	102	107	67-148	32	30	R1
1,1,2-Trichlorotrifluoroethane	ug/kg	<110	1840	2400	2190	2820	119	117	60-142	25	30	
1,1-Dichloroethane	ug/kg	<10.6	1840	2400	2050	2800	112	116	57-140	31	30	R1
1,1-Dichloroethene	ug/kg	<28.3	1840	2400	2300	3080	126	128	59-139	29	30	
1,1-Dichloropropene	ug/kg	<43.6	1840	2400	2100	2800	115	117	61-142	29	30	
1,2,3-Trichlorobenzene	ug/kg	<15.1	1840	2400	1870	2660	102	111	69-150	35	30	R1
1,2,3-Trichloropropane	ug/kg	<24.7	1840	2400	1830	2450	100	102	64-150	29	30	
1,2,4-Trichlorobenzene	ug/kg	<21.0	1840	2400	1930	2710	105	113	71-149	34	30	R1
1,2,4-Trimethylbenzene	ug/kg	<18.9	1840	2400	1870	2560	102	106	67-149	31	30	R1
1,2-Dibromo-3-chloropropane	ug/kg	<329	4580	6010	4560	6380	100	106	61-150	33	30	R1
1,2-Dibromoethane (EDB)	ug/kg	<0.26	1840	2400	1840	2580	101	107	67-147	33	30	R1
1,2-Dichlorobenzene	ug/kg	<3.8	1840	2400	1850	2600	101	108	70-142	34	30	R1
1,2-Dichloroethane	ug/kg	<10.4	1840	2400	1910	2670	104	111	58-132	33	30	R1
1,2-Dichloropropane	ug/kg	<16.3	1840	2400	1840	2560	100	106	64-144	33	30	R1
1,3,5-Trimethylbenzene	ug/kg	<15.1	1840	2400	1930	2650	106	110	71-146	31	30	R1
1,3-Dichlorobenzene	ug/kg	<3.4	1840	2400	1860	2540	102	105	71-142	31	30	R1
1,3-Dichloropropane	ug/kg	<13.1	1840	2400	1770	2490	97	103	68-140	34	30	R1
1,4-Dichlorobenzene	ug/kg	<5.9	1840	2400	1790	2470	98	103	68-142	32	30	R1
2,2-Dichloropropane	ug/kg	<11.8	1840	2400	2130	2830	116	117	34-150	28	30	
2-Butanone (MEK)	ug/kg	<50.3	9160	12000	8610	11900	94	99	51-150	32	30	R1
2-Chlorotoluene	ug/kg	<4.6	1840	2400	1830	2420	100	101	66-144	28	30	
4-Chlorotoluene	ug/kg	<4.8	1840	2400	1790	2530	97	105	66-140	34	30	R1
4-Methyl-2-pentanone (MIBK)	ug/kg	<19.6	9160	12000	8350	11400	91	95	63-150	31	30	R1
Acetone	ug/kg	<588	9160	12000	8710	12300	95	102	54-150	34	30	R1

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3146277		3146278									
Parameter	Units	10457092045 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max			Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD		
Allyl chloride	ug/kg	<79.2	1840	2400	1890	2590	103	108	53-135	31	30	R1	
Benzene	ug/kg	<5.3	1840	2400	1950	2700	106	112	65-135	32	30	R1	
Bromobenzene	ug/kg	<5.8	1840	2400	1860	2600	102	108	71-141	33	30	R1	
Bromochloromethane	ug/kg	<32.7	1840	2400	2200	3040	120	126	62-145	32	30	R1	
Bromodichloromethane	ug/kg	<32.3	1840	2400	1900	2680	104	111	59-148	34	30	R1	
Bromoform	ug/kg	<143	1840	2400	1810	2520	99	105	57-145	33	30	R1	
Bromomethane	ug/kg	<111	1840	2400	2120	2750	116	114	51-129	26	30		
Carbon tetrachloride	ug/kg	<45.2	1840	2400	2150	2860	117	119	55-144	28	30		
Chlorobenzene	ug/kg	<5.3	1840	2400	1810	2520	99	105	70-142	33	30	R1	
Chloroethane	ug/kg	<49.1	1840	2400	1650	2250	90	94	61-135	31	30	CH,R1, SS	
Chloroform	ug/kg	<47.2	1840	2400	1880	2630	103	109	58-135	33	30	R1	
Chloromethane	ug/kg	<22.7	1840	2400	1560	2050	85	85	37-125	27	30		
cis-1,2-Dichloroethene	ug/kg	<15.7	1840	2400	2210	3080	121	128	60-138	33	30	R1	
cis-1,3-Dichloropropene	ug/kg	<13.5	1840	2400	1920	2640	105	110	62-142	32	30	R1	
Dibromochloromethane	ug/kg	<11.0	1840	2400	1860	2510	102	104	65-141	30	30		
Dibromomethane	ug/kg	<17.3	1840	2400	1910	2720	104	113	72-150	35	30	R1	
Dichlorodifluoromethane	ug/kg	<30.6	1840	2400	1500	1780	82	74	30-125	17	30		
Dichlorofluoromethane	ug/kg	<131	1840	2400	1910	2590	104	108	62-148	30	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	<57.8	1840	2400	1980	2700	108	112	62-135	31	30	R1	
Ethylbenzene	ug/kg	<5.1	1840	2400	1880	2620	103	109	72-138	33	30	R1	
Hexachloro-1,3-butadiene	ug/kg	<23.0	1840	2400	2160	3010	118	125	38-150	33	30	R1	
Isopropylbenzene (Cumene)	ug/kg	<4.2	1840	2400	2140	2970	117	123	75-148	32	30	R1	
Methyl-tert-butyl ether	ug/kg	<11.2	1840	2400	1990	2790	109	116	63-139	33	30	R1	
Methylene Chloride	ug/kg	<178	1840	2400	1900	2760	104	115	58-135	37	30	R1	
n-Butylbenzene	ug/kg	<45.0	1840	2400	2070	2870	113	119	63-150	32	30	R1	
n-Propylbenzene	ug/kg	<5.0	1840	2400	1980	2740	108	114	70-146	32	30	R1	
Naphthalene	ug/kg	<88.4	1840	2400	1820	2530	100	105	63-150	32	30	R1	
p-Isopropyltoluene	ug/kg	<28.7	1840	2400	2030	2800	111	116	72-150	32	30	R1	
sec-Butylbenzene	ug/kg	<18.1	1840	2400	2130	2940	117	122	66-150	32	30	R1	
Styrene	ug/kg	<4.3	1840	2400	1880	2670	103	111	72-146	35	30	R1	
tert-Butylbenzene	ug/kg	<18.1	1840	2400	2050	2820	112	117	71-148	32	30	R1	
Tetrachloroethene	ug/kg	<33.3	1840	2400	2240	3100	122	129	70-150	32	30	R1	
Tetrahydrofuran	ug/kg	<137	18400	24000	18200	26200	99	109	62-150	36	30	R1	
Toluene	ug/kg	<23.0	1840	2400	1820	2510	99	104	65-142	32	30	R1	
trans-1,2-Dichloroethene	ug/kg	<44.2	1840	2400	2270	3090	124	129	55-141	31	30	R1	
trans-1,3-Dichloropropene	ug/kg	<13.1	1840	2400	1930	2610	105	109	57-147	30	30		
Trichloroethene	ug/kg	<14.6	1840	2400	2210	3000	121	125	62-150	30	30		
Trichlorofluoromethane	ug/kg	<165	1840	2400	2720	3510	149	146	51-150	25	30		
Vinyl chloride	ug/kg	<18.6	1840	2400	1680	2190	92	91	45-132	26	30		
Xylene (Total)	ug/kg	<21.9	5490	7210	5910	8140	108	113	75-140	32	30	RS	
1,2-Dichloroethane-d4 (S)	%						104	103	75-125				
4-Bromofluorobenzene (S)	%						95	98	75-125				
Toluene-d8 (S)	%						98	100	75-125				

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 580299 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
 Associated Lab Samples: 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030,  
 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037,  
 10457121038

METHOD BLANK: 3147112 Matrix: Solid

Associated Lab Samples: 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030,  
 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037,  
 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/12/18 13:05	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/12/18 13:05	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	200	8.8	12/12/18 13:05	MN
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/12/18 13:05	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/12/18 13:05	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/12/18 13:05	
1,1-Dichloroethene	ug/kg	<15.0	200	15.0	12/12/18 13:05	MN
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/12/18 13:05	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/12/18 13:05	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/12/18 13:05	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/12/18 13:05	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/12/18 13:05	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/12/18 13:05	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/12/18 13:05	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/12/18 13:05	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/12/18 13:05	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/12/18 13:05	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/12/18 13:05	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/12/18 13:05	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/12/18 13:05	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/12/18 13:05	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/12/18 13:05	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/12/18 13:05	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/12/18 13:05	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/12/18 13:05	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/12/18 13:05	
Acetone	ug/kg	1080	1000	311	12/12/18 13:05	P8
Allyl chloride	ug/kg	<41.9	200	41.9	12/12/18 13:05	
Benzene	ug/kg	<2.8	20.0	2.8	12/12/18 13:05	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/12/18 13:05	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/12/18 13:05	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/12/18 13:05	
Bromoform	ug/kg	<75.7	200	75.7	12/12/18 13:05	
Bromomethane	ug/kg	<58.5	500	58.5	12/12/18 13:05	
Carbon tetrachloride	ug/kg	<23.9	50.0	23.9	12/12/18 13:05	
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/12/18 13:05	
Chloroethane	ug/kg	<26.0	500	26.0	12/12/18 13:05	
Chloroform	ug/kg	<25.0	50.0	25.0	12/12/18 13:05	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3147112

Matrix: Solid

Associated Lab Samples: 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloromethane	ug/kg	<12.0	200	12.0	12/12/18 13:05	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/12/18 13:05	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/12/18 13:05	
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/12/18 13:05	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/12/18 13:05	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/12/18 13:05	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/12/18 13:05	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/12/18 13:05	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/12/18 13:05	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/12/18 13:05	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/12/18 13:05	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/12/18 13:05	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/12/18 13:05	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/12/18 13:05	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/12/18 13:05	
Naphthalene	ug/kg	<46.8	200	46.8	12/12/18 13:05	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/12/18 13:05	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/12/18 13:05	
Styrene	ug/kg	<2.3	50.0	2.3	12/12/18 13:05	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/12/18 13:05	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/12/18 13:05	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/12/18 13:05	
Toluene	ug/kg	<12.2	50.0	12.2	12/12/18 13:05	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/12/18 13:05	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/12/18 13:05	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/12/18 13:05	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/12/18 13:05	
Vinyl chloride	ug/kg	<9.8	50.0	9.8	12/12/18 13:05	MN
Xylene (Total)	ug/kg	<11.6	150	11.6	12/12/18 13:05	
1,2-Dichloroethane-d4 (S)	%	90	75-125		12/12/18 13:05	
4-Bromofluorobenzene (S)	%	99	75-125		12/12/18 13:05	
Toluene-d8 (S)	%	98	75-125		12/12/18 13:05	

LABORATORY CONTROL SAMPLE: 3147113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	871	87	59-125	
1,1,1-Trichloroethane	ug/kg	1000	862	86	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	750	75	58-125	
1,1,2-Trichloroethane	ug/kg	1000	862	86	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	805	80	65-125	
1,1-Dichloroethane	ug/kg	1000	846	85	63-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3147113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	1000	775	77	59-125	
1,1-Dichloropropene	ug/kg	1000	835	83	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	940	94	55-126	
1,2,3-Trichloropropane	ug/kg	1000	861	86	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	893	89	62-125	
1,2,4-Trimethylbenzene	ug/kg	1000	894	89	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2030	81	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	911	91	64-125	
1,2-Dichlorobenzene	ug/kg	1000	871	87	63-125	
1,2-Dichloroethane	ug/kg	1000	766	77	57-125	
1,2-Dichloropropane	ug/kg	1000	844	84	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	909	91	59-125	
1,3-Dichlorobenzene	ug/kg	1000	896	90	64-125	
1,3-Dichloropropane	ug/kg	1000	865	87	64-125	
1,4-Dichlorobenzene	ug/kg	1000	889	89	63-125	
2,2-Dichloropropane	ug/kg	1000	917	92	37-126	
2-Butanone (MEK)	ug/kg	5000	3440	69	48-125	
2-Chlorotoluene	ug/kg	1000	918	92	62-125	
4-Chlorotoluene	ug/kg	1000	891	89	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	3810	76	52-135	
Acetone	ug/kg	5000	5130	103	65-125	
Allyl chloride	ug/kg	1000	721	72	52-125	
Benzene	ug/kg	1000	879	88	61-125	
Bromobenzene	ug/kg	1000	883	88	64-125	
Bromochloromethane	ug/kg	1000	923	92	65-125	
Bromodichloromethane	ug/kg	1000	834	83	57-125	
Bromoform	ug/kg	1000	747	75	57-125	
Bromomethane	ug/kg	1000	751	75	60-125	SS
Carbon tetrachloride	ug/kg	1000	817	82	58-125	
Chlorobenzene	ug/kg	1000	869	87	66-125	
Chloroethane	ug/kg	1000	614	61	62-125	L2
Chloroform	ug/kg	1000	788	79	59-125	
Chloromethane	ug/kg	1000	667	67	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	895	90	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	890	89	61-125	
Dibromochloromethane	ug/kg	1000	833	83	60-125	
Dibromomethane	ug/kg	1000	954	95	69-125	
Dichlorodifluoromethane	ug/kg	1000	508	51	38-125	
Dichlorofluoromethane	ug/kg	1000	804	80	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	737	74	60-125	
Ethylbenzene	ug/kg	1000	840	84	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	982	98	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	874	87	65-125	
Methyl-tert-butyl ether	ug/kg	1000	840	84	59-125	
Methylene Chloride	ug/kg	1000	806	81	64-125	
n-Butylbenzene	ug/kg	1000	903	90	59-125	
n-Propylbenzene	ug/kg	1000	951	95	61-125	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3147113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	1000	818	82	53-125	
p-Isopropyltoluene	ug/kg	1000	857	86	63-125	
sec-Butylbenzene	ug/kg	1000	851	85	62-125	
Styrene	ug/kg	1000	900	90	66-125	
tert-Butylbenzene	ug/kg	1000	915	92	64-125	
Tetrachloroethene	ug/kg	1000	890	89	67-125	
Tetrahydrofuran	ug/kg	10000	10700	107	62-125	
Toluene	ug/kg	1000	888	89	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	877	88	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	894	89	56-125	
Trichloroethene	ug/kg	1000	866	87	67-125	
Trichlorofluoromethane	ug/kg	1000	702	70	65-125	
Vinyl chloride	ug/kg	1000	705	71	57-125	
Xylene (Total)	ug/kg	3000	2580	86	62-125	
1,2-Dichloroethane-d4 (S)	%			92	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147114 3147115

Parameter	Units	10457854001		3147114		3147115		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Result	MS Result	MSD Result					
1,1,1,2-Tetrachloroethane	ug/kg	ND	1160	1210	1060	1090	91	90	64-146	3	30	
1,1,1-Trichloroethane	ug/kg	ND	1160	1210	1070	1050	92	86	56-148	2	30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1160	1210	998	1030	86	85	36-150	3	30	
1,1,2-Trichloroethane	ug/kg	ND	1160	1210	1100	1160	94	96	67-148	6	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1160	1210	924	945	80	78	60-142	2	30	
1,1-Dichloroethane	ug/kg	ND	1160	1210	975	1030	84	85	57-140	6	30	
1,1-Dichloroethene	ug/kg	ND	1160	1210	864	885	74	73	59-139	2	30	
1,1-Dichloropropene	ug/kg	ND	1160	1210	951	1100	82	91	61-142	15	30	
1,2,3-Trichlorobenzene	ug/kg	ND	1160	1210	1320	1400	114	116	69-150	6	30	
1,2,3-Trichloropropane	ug/kg	ND	1160	1210	1140	1110	98	91	64-150	3	30	
1,2,4-Trichlorobenzene	ug/kg	ND	1160	1210	1320	1360	114	113	71-149	3	30	
1,2,4-Trimethylbenzene	ug/kg	75.7	1160	1210	1150	1250	92	97	67-149	8	30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2900	3020	2800	3010	97	99	61-150	7	30	
1,2-Dibromoethane (EDB)	ug/kg	ND	1160	1210	1090	1180	94	97	67-147	7	30	
1,2-Dichlorobenzene	ug/kg	ND	1160	1210	1090	1150	94	95	70-142	5	30	
1,2-Dichloroethane	ug/kg	ND	1160	1210	917	949	79	78	58-132	3	30	
1,2-Dichloropropane	ug/kg	ND	1160	1210	1030	1060	89	87	64-144	2	30	
1,3,5-Trimethylbenzene	ug/kg	ND	1160	1210	1160	1260	97	101	71-146	8	30	
1,3-Dichlorobenzene	ug/kg	ND	1160	1210	1130	1130	97	94	71-142	0	30	
1,3-Dichloropropane	ug/kg	ND	1160	1210	1080	1150	93	95	68-140	6	30	
1,4-Dichlorobenzene	ug/kg	ND	1160	1210	1090	1160	94	96	68-142	6	30	
2,2-Dichloropropane	ug/kg	ND	1160	1210	1100	1200	95	99	34-150	8	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	10457854001		3147114		3147115		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
2-Butanone (MEK)	ug/kg	ND	5810	6060	4420	4950	76	82	51-150	11	30		
2-Chlorotoluene	ug/kg	ND	1160	1210	1100	1150	94	95	66-144	5	30		
4-Chlorotoluene	ug/kg	ND	1160	1210	1080	1160	93	96	66-140	7	30		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5810	6060	5200	5620	90	93	63-150	8	30		
Acetone	ug/kg	ND	5810	6060	4030	5600	59	83	54-150	33	30	R1	
Allyl chloride	ug/kg	ND	1160	1210	830	903	71	75	53-135	8	30		
Benzene	ug/kg	ND	1160	1210	1030	1070	89	88	65-135	3	30		
Bromobenzene	ug/kg	ND	1160	1210	1110	1190	96	99	71-141	7	30		
Bromochloromethane	ug/kg	ND	1160	1210	994	1080	86	89	62-145	8	30		
Bromodichloromethane	ug/kg	ND	1160	1210	1040	1150	89	95	59-148	10	30		
Bromoform	ug/kg	ND	1160	1210	1030	1090	88	90	57-145	7	30		
Bromomethane	ug/kg	ND	1280	1330	944	911	74	68	51-129	4	30	SS	
Carbon tetrachloride	ug/kg	ND	1160	1210	985	985	85	81	55-144	0	30		
Chlorobenzene	ug/kg	ND	1160	1210	1070	1160	92	96	70-142	8	30		
Chloroethane	ug/kg	ND	1280	1330	917	916	72	69	61-135	0	30		
Chloroform	ug/kg	ND	1160	1210	941	1010	81	83	58-135	7	30		
Chloromethane	ug/kg	ND	1280	1330	725	739	57	55	37-125	2	30		
cis-1,2-Dichloroethene	ug/kg	ND	1160	1210	1060	1040	91	86	60-138	2	30		
cis-1,3-Dichloropropene	ug/kg	ND	1160	1210	1100	1170	95	96	62-142	6	30		
Dibromochloromethane	ug/kg	ND	1160	1210	1050	1120	91	92	65-141	6	30		
Dibromomethane	ug/kg	ND	1160	1210	1080	1170	93	97	72-150	8	30		
Dichlorodifluoromethane	ug/kg	ND	1280	1330	469	467	37	35	30-125	0	30		
Dichlorofluoromethane	ug/kg	ND	1280	1330	889	940	70	71	62-148	6	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	ND	1160	1210	956	943	82	78	62-135	1	30		
Ethylbenzene	ug/kg	ND	1160	1210	1030	1110	88	92	72-138	8	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1160	1210	1450	1530	125	126	38-150	5	30		
Isopropylbenzene (Cumene)	ug/kg	70.5	1160	1210	1190	1300	97	101	75-148	8	30		
Methyl-tert-butyl ether	ug/kg	ND	1160	1210	1040	1110	90	92	63-139	6	30		
Methylene Chloride	ug/kg	ND	1160	1210	979	984	84	81	58-135	0	30		
n-Butylbenzene	ug/kg	159	1160	1210	1380	1450	105	107	63-150	5	30		
n-Propylbenzene	ug/kg	ND	1160	1210	1190	1280	98	101	70-146	7	30		
Naphthalene	ug/kg	ND	1160	1210	1350	1540	103	115	63-150	13	30		
p-Isopropyltoluene	ug/kg	188	1160	1210	1330	1410	98	101	72-150	5	30		
sec-Butylbenzene	ug/kg	356	1160	1210	1490	1660	97	108	66-150	11	30		
Styrene	ug/kg	ND	1160	1210	1100	1160	95	96	72-146	5	30		
tert-Butylbenzene	ug/kg	ND	1160	1210	1170	1230	100	101	71-148	5	30		
Tetrachloroethene	ug/kg	ND	1160	1210	1130	1140	97	94	70-150	1	30		
Tetrahydrofuran	ug/kg	ND	11600	12100	13100	14200	113	117	62-150	8	30		
Toluene	ug/kg	ND	1160	1210	1030	1100	89	91	65-142	7	30		
trans-1,2-Dichloroethene	ug/kg	ND	1160	1210	889	1060	76	88	55-141	18	30		
trans-1,3-Dichloropropene	ug/kg	ND	1160	1210	1100	1110	94	92	57-147	1	30		
Trichloroethene	ug/kg	ND	1160	1210	1050	1160	90	96	62-150	10	30		
Trichlorofluoromethane	ug/kg	ND	1280	1330	811	808	63	61	51-150	0	30		
Vinyl chloride	ug/kg	ND	1280	1330	823	870	64	65	45-132	6	30		
Xylene (Total)	ug/kg	ND	3480	3640	3150	3440	90	95	75-140	9	30		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3147114		3147115		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457854001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dichloroethane-d4 (S)	%.					94	93	75-125			
4-Bromofluorobenzene (S)	%.					100	98	75-125			
Toluene-d8 (S)	%.					100	98	75-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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QC Batch: 578983 Analysis Method: EPA 8081B  
 QC Batch Method: EPA 3550 Analysis Description: 8081S GCS Pesticides  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019

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METHOD BLANK: 3140446 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	<0.30	3.3	0.30	12/11/18 20:53	
4,4'-DDE	ug/kg	<0.25	3.3	0.25	12/11/18 20:53	
4,4'-DDT	ug/kg	<0.42	3.3	0.42	12/11/18 20:53	
Aldrin	ug/kg	<0.17	1.7	0.17	12/11/18 20:53	
alpha-BHC	ug/kg	<0.12	1.7	0.12	12/11/18 20:53	
alpha-Chlordane	ug/kg	<0.14	1.7	0.14	12/11/18 20:53	
beta-BHC	ug/kg	<0.22	1.7	0.22	12/11/18 20:53	
Chlordane (Technical)	ug/kg	<3.0	16.7	3.0	12/11/18 20:53	
delta-BHC	ug/kg	<0.14	1.7	0.14	12/11/18 20:53	
Dieldrin	ug/kg	<0.32	3.3	0.32	12/11/18 20:53	
Endosulfan I	ug/kg	<0.15	1.7	0.15	12/11/18 20:53	
Endosulfan II	ug/kg	<0.34	3.3	0.34	12/11/18 20:53	
Endosulfan sulfate	ug/kg	<0.34	3.3	0.34	12/11/18 20:53	
Endrin	ug/kg	<0.30	3.3	0.30	12/11/18 20:53	
Endrin aldehyde	ug/kg	<1.0	3.3	1.0	12/11/18 20:53	
Endrin ketone	ug/kg	<0.39	3.3	0.39	12/11/18 20:53	
gamma-BHC (Lindane)	ug/kg	<0.14	1.7	0.14	12/11/18 20:53	
gamma-Chlordane	ug/kg	<0.38	1.7	0.38	12/11/18 20:53	
Heptachlor	ug/kg	<0.18	1.7	0.18	12/11/18 20:53	
Heptachlor epoxide	ug/kg	<0.16	1.7	0.16	12/11/18 20:53	
Methoxychlor	ug/kg	<2.5	16.7	2.5	12/11/18 20:53	
Toxaphene	ug/kg	<7.9	50.0	7.9	12/11/18 20:53	
Decachlorobiphenyl (S)	%	90	30-150		12/11/18 20:53	
Tetrachloro-m-xylene (S)	%	99	30-150		12/11/18 20:53	

LABORATORY CONTROL SAMPLE: 3140447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	33.3	30.5	92	62-127	
4,4'-DDE	ug/kg	33.3	33.7	101	66-125	
4,4'-DDT	ug/kg	33.3	30.2	91	67-128	
Aldrin	ug/kg	16.7	14.4	86	66-125	
alpha-BHC	ug/kg	16.7	14.5	87	64-125	
alpha-Chlordane	ug/kg	16.7	14.8	89	68-125	
beta-BHC	ug/kg	16.7	17.0	102	69-125	
delta-BHC	ug/kg	16.7	11.6	70	42-133	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3140447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dieldrin	ug/kg	33.3	32.8	98	69-126	
Endosulfan I	ug/kg	16.7	12.2	73	63-125	
Endosulfan II	ug/kg	33.3	28.8	86	69-125	
Endosulfan sulfate	ug/kg	33.3	29.3	88	56-137	
Endrin	ug/kg	33.3	30.6	92	69-125	
Endrin aldehyde	ug/kg	33.3	32.3	97	65-125	
Endrin ketone	ug/kg	33.3	29.3	88	69-129	
gamma-BHC (Lindane)	ug/kg	16.7	14.5	87	67-125	
gamma-Chlordane	ug/kg	16.7	14.5	87	63-125	
Heptachlor	ug/kg	16.7	15.1	91	69-125	
Heptachlor epoxide	ug/kg	16.7	14.2	85	68-125	
Methoxychlor	ug/kg	167	144	86	65-134	
Decachlorobiphenyl (S)	%			89	30-150	
Tetrachloro-m-xylene (S)	%			97	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141101 3141102

Parameter	Units	MS 3141101		MSD 3141102		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10457641001 Result	MS Spike Conc.	MSD Spike Conc.								
4,4'-DDD	ug/kg	ND	33.3	33.1	30.6	31.1	92	94	56-125	2	20	
4,4'-DDE	ug/kg	ND	33.3	33.1	32.2	33.4	97	101	32-150	4	20	
4,4'-DDT	ug/kg	ND	33.3	33.1	29.7	30.0	89	91	60-132	1	20	
Aldrin	ug/kg	ND	16.7	16.6	14.3	14.5	86	88	56-125	1	20	
alpha-BHC	ug/kg	ND	16.7	16.6	14.3	14.5	86	88	54-136	2	20	
alpha-Chlordane	ug/kg	ND	16.7	16.6	14.6	14.9	87	90	54-133	2	20	
beta-BHC	ug/kg	ND	16.7	16.6	16.9	17.4	101	105	30-150	3	20	
delta-BHC	ug/kg	ND	16.7	16.6	11.4	11.5	68	70	45-145	1	20	
Dieldrin	ug/kg	ND	33.3	33.1	32.1	32.6	96	98	47-150	1	20	
Endosulfan I	ug/kg	ND	16.7	16.6	12.4	12.5	75	76	35-145	1	20	
Endosulfan II	ug/kg	ND	33.3	33.1	28.9	29.3	87	88	50-147	1	20	
Endosulfan sulfate	ug/kg	ND	33.3	33.1	29.1	29.5	87	89	54-132	1	20	
Endrin	ug/kg	ND	33.3	33.1	30.7	31.1	92	94	62-125	1	20	
Endrin aldehyde	ug/kg	ND	33.3	33.1	32.1	32.6	96	98	33-150	1	20	
Endrin ketone	ug/kg	ND	33.3	33.1	29.2	29.5	87	89	56-144	1	20	
gamma-BHC (Lindane)	ug/kg	ND	16.7	16.6	14.3	14.5	86	87	63-125	1	20	
gamma-Chlordane	ug/kg	ND	16.7	16.6	13.9	14.2	83	86	45-132	2	20	
Heptachlor	ug/kg	ND	16.7	16.6	14.9	15.1	89	91	51-142	2	20	
Heptachlor epoxide	ug/kg	ND	16.7	16.6	14.0	14.3	84	87	50-142	3	20	
Methoxychlor	ug/kg	ND	167	166	144	145	86	88	58-139	1	20	
Decachlorobiphenyl (S)	%						90	89	30-150			
Tetrachloro-m-xylene (S)	%						96	97	30-150			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch:	579116	Analysis Method:	EPA 8081B
QC Batch Method:	EPA 3550	Analysis Description:	8081S GCS Pesticides
Associated Lab Samples:	10457121020, 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038		

METHOD BLANK:	3140962	Matrix:	Solid
Associated Lab Samples:	10457121020, 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	<0.30	3.3	0.30	12/11/18 22:43	
4,4'-DDE	ug/kg	<0.25	3.3	0.25	12/11/18 22:43	
4,4'-DDT	ug/kg	<0.42	3.3	0.42	12/11/18 22:43	
Aldrin	ug/kg	<0.17	1.7	0.17	12/11/18 22:43	
alpha-BHC	ug/kg	<0.12	1.7	0.12	12/11/18 22:43	
alpha-Chlordane	ug/kg	<0.14	1.7	0.14	12/11/18 22:43	
beta-BHC	ug/kg	<0.22	1.7	0.22	12/11/18 22:43	
Chlordane (Technical)	ug/kg	<3.0	16.7	3.0	12/11/18 22:43	
delta-BHC	ug/kg	<0.14	1.7	0.14	12/11/18 22:43	
Dieldrin	ug/kg	<0.32	3.3	0.32	12/11/18 22:43	
Endosulfan I	ug/kg	<0.15	1.7	0.15	12/11/18 22:43	
Endosulfan II	ug/kg	<0.34	3.3	0.34	12/11/18 22:43	
Endosulfan sulfate	ug/kg	<0.34	3.3	0.34	12/11/18 22:43	
Endrin	ug/kg	<0.30	3.3	0.30	12/11/18 22:43	
Endrin aldehyde	ug/kg	<1.0	3.3	1.0	12/11/18 22:43	
Endrin ketone	ug/kg	<0.39	3.3	0.39	12/11/18 22:43	
gamma-BHC (Lindane)	ug/kg	<0.14	1.7	0.14	12/11/18 22:43	
gamma-Chlordane	ug/kg	<0.38	1.7	0.38	12/11/18 22:43	
Heptachlor	ug/kg	<0.18	1.7	0.18	12/11/18 22:43	
Heptachlor epoxide	ug/kg	<0.16	1.7	0.16	12/11/18 22:43	
Methoxychlor	ug/kg	<2.5	16.7	2.5	12/11/18 22:43	
Toxaphene	ug/kg	<7.9	50.0	7.9	12/11/18 22:43	
Decachlorobiphenyl (S)	%	90	30-150		12/11/18 22:43	
Tetrachloro-m-xylene (S)	%	99	30-150		12/11/18 22:43	

LABORATORY CONTROL SAMPLE: 3140963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	33.3	30.7	92	62-127	
4,4'-DDE	ug/kg	33.3	33.3	100	66-125	
4,4'-DDT	ug/kg	33.3	29.6	89	67-128	
Aldrin	ug/kg	16.7	14.4	86	66-125	
alpha-BHC	ug/kg	16.7	14.4	87	64-125	
alpha-Chlordane	ug/kg	16.7	14.6	88	68-125	
beta-BHC	ug/kg	16.7	16.7	100	69-125	
delta-BHC	ug/kg	16.7	11.4	69	42-133	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3140963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dieldrin	ug/kg	33.3	32.5	97	69-126	
Endosulfan I	ug/kg	16.7	12.1	73	63-125	
Endosulfan II	ug/kg	33.3	29.2	87	69-125	
Endosulfan sulfate	ug/kg	33.3	29.4	88	56-137	
Endrin	ug/kg	33.3	30.9	93	69-125	
Endrin aldehyde	ug/kg	33.3	32.3	97	65-125	
Endrin ketone	ug/kg	33.3	29.4	88	69-129	
gamma-BHC (Lindane)	ug/kg	16.7	14.3	86	67-125	
gamma-Chlordane	ug/kg	16.7	14.1	85	63-125	
Heptachlor	ug/kg	16.7	15.0	90	69-125	
Heptachlor epoxide	ug/kg	16.7	14.0	84	68-125	
Methoxychlor	ug/kg	167	143	86	65-134	
Decachlorobiphenyl (S)	%			89	30-150	
Tetrachloro-m-xylene (S)	%			96	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141327 3141328

Parameter	Units	3141327		3141328		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
4,4'-DDD	ug/kg	55.5	40.9	41.2	33.2	33.8	-54	-53	56-125	2	20	M1
4,4'-DDE	ug/kg	318	40.9	41.2	35.3	35.5	-689	-684	32-150	1	20	M1
4,4'-DDT	ug/kg	5.3J	40.9	41.2	30.1	30.8	60	62	60-132	2	20	
Aldrin	ug/kg	<1.0	20.5	20.7	16.6	16.4	81	80	56-125	1	20	
alpha-BHC	ug/kg	2.5J	20.5	20.7	15.2	15.2	62	62	54-136	0	20	
alpha-Chlordane	ug/kg	1.7J	20.5	20.7	17.3	18.0	76	80	54-133	4	20	
beta-BHC	ug/kg	<1.4	20.5	20.7	20.4	20.4	99	99	30-150	0	20	
delta-BHC	ug/kg	<0.85	20.5	20.7	12.6	12.5	61	60	45-145	1	20	
Dieldrin	ug/kg	3.2J	40.9	41.2	35.5	36.2	79	80	47-150	2	20	
Endosulfan I	ug/kg	<0.93	20.5	20.7	15.3	15.8	71	73	35-145	4	20	
Endosulfan II	ug/kg	<2.1	40.9	41.2	33.3	34.2	81	83	50-147	3	20	
Endosulfan sulfate	ug/kg	<2.1	40.9	41.2	33.3	34.3	76	78	54-132	3	20	
Endrin	ug/kg	<1.8	40.9	41.2	33.6	34.5	82	84	62-125	3	20	
Endrin aldehyde	ug/kg	<6.4	40.9	41.2	36.8	38.5	90	93	33-150	4	20	
Endrin ketone	ug/kg	<2.4	40.9	41.2	31.9	33.1	78	80	56-144	4	20	
gamma-BHC (Lindane)	ug/kg	<0.88	20.5	20.7	15.7	15.7	77	76	63-125	0	20	
gamma-Chlordane	ug/kg	5.1J	20.5	20.7	16.4	16.5	55	55	45-132	1	20	
Heptachlor	ug/kg	<1.1	20.5	20.7	17.4	17.2	85	83	51-142	1	20	
Heptachlor epoxide	ug/kg	12.4	20.5	20.7	16.6	17.0	21	23	50-142	3	20	M1
Methoxychlor	ug/kg	<15.5	205	207	155	158	75	77	58-139	2	20	
Decachlorobiphenyl (S)	%						69	83	30-150			
Tetrachloro-m-xylene (S)	%						74	83	30-150			2M,D4

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch:	578982	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3550	Analysis Description:	8082A GCS PCB
Associated Lab Samples:	10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019		

METHOD BLANK:	3140442	Matrix:	Solid
Associated Lab Samples:	10457121001, 10457121002, 10457121003, 10457121004, 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/10/18 16:46	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/10/18 16:46	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/10/18 16:46	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/10/18 16:46	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/10/18 16:46	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/10/18 16:46	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/10/18 16:46	
Decachlorobiphenyl (S)	%	110	30-134		12/10/18 16:46	
Tetrachloro-m-xylene (S)	%	92	48-125		12/10/18 16:46	

LABORATORY CONTROL SAMPLE:	3140443					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	587	88	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	613	92	62-125	
Decachlorobiphenyl (S)	%			110	30-134	
Tetrachloro-m-xylene (S)	%			91	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3140444			3140445								
Parameter	Units	10457506001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	2010	2000	1850	1710	92	86	30-150	8	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	2010	2000	1700	1550	84	78	30-138	9	30	
Decachlorobiphenyl (S)	%						101	90	30-134			
Tetrachloro-m-xylene (S)	%						88	81	48-125			

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578984 Analysis Method: EPA 8082A  
 QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
 Associated Lab Samples: 10457121020, 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

METHOD BLANK: 3140450 Matrix: Solid  
 Associated Lab Samples: 10457121020, 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/07/18 16:20	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/07/18 16:20	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/07/18 16:20	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/07/18 16:20	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/07/18 16:20	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/07/18 16:20	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/07/18 16:20	
Decachlorobiphenyl (S)	%	107	30-134		12/07/18 16:20	
Tetrachloro-m-xylene (S)	%	88	48-125		12/07/18 16:20	

LABORATORY CONTROL SAMPLE: 3140451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	661	468	71	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	661	484	73	62-125	
Decachlorobiphenyl (S)	%			105	30-134	
Tetrachloro-m-xylene (S)	%			84	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3140452 3140453

Parameter	Units	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
		10457121020 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec				
PCB-1016 (Aroclor 1016)	ug/kg	<11.7	847	845	643	597	76	71	30-150	7	30
PCB-1260 (Aroclor 1260)	ug/kg	<10.0	847	845	661	624	78	74	30-138	6	30
Decachlorobiphenyl (S)	%						84	73	30-134		
Tetrachloro-m-xylene (S)	%						76	75	48-125		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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QC Batch: 578582 Analysis Method: EPA 8270D  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid MSSV  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121006, 10457121007, 10457121008,  
 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015,  
 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

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METHOD BLANK: 3138318 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121006, 10457121007, 10457121008,  
 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015,  
 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<36.2	330	36.2	12/04/18 17:13	
1,2-Dichlorobenzene	ug/kg	<34.6	330	34.6	12/04/18 17:13	
1,2-Diphenylhydrazine	ug/kg	<40.5	330	40.5	12/04/18 17:13	
1,3-Dichlorobenzene	ug/kg	<22.6	330	22.6	12/04/18 17:13	
1,4-Dichlorobenzene	ug/kg	<36.7	330	36.7	12/04/18 17:13	
1-Methylnaphthalene	ug/kg	<30.5	330	30.5	12/04/18 17:13	
2,4,5-Trichlorophenol	ug/kg	<42.5	330	42.5	12/04/18 17:13	
2,4,6-Trichlorophenol	ug/kg	<51.1	330	51.1	12/04/18 17:13	
2,4-Dichlorophenol	ug/kg	<55.1	330	55.1	12/04/18 17:13	
2,4-Dimethylphenol	ug/kg	<129	330	129	12/04/18 17:13	
2,4-Dinitrophenol	ug/kg	<154	330	154	12/04/18 17:13	
2,4-Dinitrotoluene	ug/kg	<42.0	330	42.0	12/04/18 17:13	
2,6-Dinitrotoluene	ug/kg	<43.7	330	43.7	12/04/18 17:13	
2-Chloronaphthalene	ug/kg	<29.2	330	29.2	12/04/18 17:13	
2-Chlorophenol	ug/kg	<37.6	330	37.6	12/04/18 17:13	
2-Methylnaphthalene	ug/kg	<29.8	330	29.8	12/04/18 17:13	
2-Methylphenol(o-Cresol)	ug/kg	<20.6	330	20.6	12/04/18 17:13	
2-Nitroaniline	ug/kg	<82.8	330	82.8	12/04/18 17:13	
2-Nitrophenol	ug/kg	<40.2	330	40.2	12/04/18 17:13	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.6	660	18.6	12/04/18 17:13	
3,3'-Dichlorobenzidine	ug/kg	<111	330	111	12/04/18 17:13	
3-Nitroaniline	ug/kg	<36.0	330	36.0	12/04/18 17:13	
4,6-Dinitro-2-methylphenol	ug/kg	<327	1700	327	12/04/18 17:13	
4-Bromophenylphenyl ether	ug/kg	<39.3	330	39.3	12/04/18 17:13	
4-Chloro-3-methylphenol	ug/kg	<52.8	330	52.8	12/04/18 17:13	
4-Chloroaniline	ug/kg	<87.9	330	87.9	12/04/18 17:13	
4-Chlorophenylphenyl ether	ug/kg	<40.9	330	40.9	12/04/18 17:13	
4-Nitroaniline	ug/kg	<48.2	330	48.2	12/04/18 17:13	
4-Nitrophenol	ug/kg	<64.0	330	64.0	12/04/18 17:13	
Acenaphthene	ug/kg	<35.2	330	35.2	12/04/18 17:13	
Acenaphthylene	ug/kg	<42.1	330	42.1	12/04/18 17:13	
Anthracene	ug/kg	<38.7	330	38.7	12/04/18 17:13	
Benzo(a)anthracene	ug/kg	<33.9	330	33.9	12/04/18 17:13	
Benzo(a)pyrene	ug/kg	<37.4	330	37.4	12/04/18 17:13	
Benzo(b)fluoranthene	ug/kg	<32.3	330	32.3	12/04/18 17:13	
Benzo(g,h,i)perylene	ug/kg	<35.3	330	35.3	12/04/18 17:13	
Benzo(k)fluoranthene	ug/kg	<41.2	330	41.2	12/04/18 17:13	
bis(2-Chloroethoxy)methane	ug/kg	<33.8	330	33.8	12/04/18 17:13	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3138318

Matrix: Solid

Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011, 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018, 10457121019, 10457121020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	<26.1	330	26.1	12/04/18 17:13	
bis(2-Chloroisopropyl) ether	ug/kg	<34.0	330	34.0	12/04/18 17:13	
bis(2-Ethylhexyl)phthalate	ug/kg	<68.8	330	68.8	12/04/18 17:13	
Butylbenzylphthalate	ug/kg	<30.2	330	30.2	12/04/18 17:13	
Carbazole	ug/kg	<27.4	330	27.4	12/04/18 17:13	
Chrysene	ug/kg	<34.8	330	34.8	12/04/18 17:13	
Di-n-butylphthalate	ug/kg	<45.2	330	45.2	12/04/18 17:13	
Di-n-octylphthalate	ug/kg	<38.3	330	38.3	12/04/18 17:13	
Dibenz(a,h)anthracene	ug/kg	<35.1	330	35.1	12/04/18 17:13	
Dibenzofuran	ug/kg	<41.8	330	41.8	12/04/18 17:13	
Diethylphthalate	ug/kg	<29.4	330	29.4	12/04/18 17:13	
Dimethylphthalate	ug/kg	<44.8	330	44.8	12/04/18 17:13	
Fluoranthene	ug/kg	<37.9	330	37.9	12/04/18 17:13	
Fluorene	ug/kg	<151	330	151	12/04/18 17:13	
Hexachloro-1,3-butadiene	ug/kg	<50.2	330	50.2	12/04/18 17:13	
Hexachlorobenzene	ug/kg	<53.8	330	53.8	12/04/18 17:13	
Hexachloroethane	ug/kg	<42.9	330	42.9	12/04/18 17:13	
Indeno(1,2,3-cd)pyrene	ug/kg	<19.9	330	19.9	12/04/18 17:13	
Isophorone	ug/kg	<25.4	330	25.4	12/04/18 17:13	
N-Nitroso-di-n-propylamine	ug/kg	<151	330	151	12/04/18 17:13	
N-Nitrosodimethylamine	ug/kg	<40.5	330	40.5	12/04/18 17:13	
N-Nitrosodiphenylamine	ug/kg	<21.4	330	21.4	12/04/18 17:13	
Naphthalene	ug/kg	<25.4	330	25.4	12/04/18 17:13	
Nitrobenzene	ug/kg	<36.3	330	36.3	12/04/18 17:13	
Pentachlorophenol	ug/kg	<193	670	193	12/04/18 17:13	
Phenanthrene	ug/kg	<38.4	330	38.4	12/04/18 17:13	
Phenol	ug/kg	<21.6	330	21.6	12/04/18 17:13	
Pyrene	ug/kg	<25.1	330	25.1	12/04/18 17:13	
2,4,6-Tribromophenol (S)	%	81	60-125		12/04/18 17:13	
2-Fluorobiphenyl (S)	%	71	30-132		12/04/18 17:13	
2-Fluorophenol (S)	%	65	40-125		12/04/18 17:13	
Nitrobenzene-d5 (S)	%	71	43-125		12/04/18 17:13	
p-Terphenyl-d14 (S)	%	89	62-125		12/04/18 17:13	
Phenol-d6 (S)	%	70	48-125		12/04/18 17:13	

LABORATORY CONTROL SAMPLE: 3138319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1280	77	46-125	
1,2-Dichlorobenzene	ug/kg	1670	1190	72	41-125	
1,2-Diphenylhydrazine	ug/kg	1670	1350	81	63-125	
1,3-Dichlorobenzene	ug/kg	1670	1160	70	38-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3138319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	1670	1190	71	39-125	
1-Methylnaphthalene	ug/kg	1670	1330	80	56-125	
2,4,5-Trichlorophenol	ug/kg	1670	1380	83	63-125	
2,4,6-Trichlorophenol	ug/kg	1670	1420	85	61-125	
2,4-Dichlorophenol	ug/kg	1670	1350	81	57-125	
2,4-Dimethylphenol	ug/kg	1670	1180	71	51-125	
2,4-Dinitrophenol	ug/kg	1670	1110	67	30-132	
2,4-Dinitrotoluene	ug/kg	1670	1430	86	62-125	
2,6-Dinitrotoluene	ug/kg	1670	1410	84	63-125	
2-Chloronaphthalene	ug/kg	1670	1320	79	61-125	
2-Chlorophenol	ug/kg	1670	1250	75	46-125	
2-Methylnaphthalene	ug/kg	1670	1310	79	55-125	
2-Methylphenol(o-Cresol)	ug/kg	1670	1210	73	50-125	
2-Nitroaniline	ug/kg	1670	1450	87	61-125	
2-Nitrophenol	ug/kg	1670	1340	80	43-125	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1220	73	54-125	
3,3'-Dichlorobenzidine	ug/kg	1670	1120	67	47-125	
3-Nitroaniline	ug/kg	1670	1160	70	57-125	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1340J	80	30-141	
4-Bromophenylphenyl ether	ug/kg	1670	1490	89	63-125	
4-Chloro-3-methylphenol	ug/kg	1670	1400	84	64-125	
4-Chloroaniline	ug/kg	1670	890	53	36-125	
4-Chlorophenylphenyl ether	ug/kg	1670	1370	82	64-125	
4-Nitroaniline	ug/kg	1670	1340	80	59-125	
4-Nitrophenol	ug/kg	1670	1340	80	54-125	
Acenaphthene	ug/kg	1670	1370	82	62-125	
Acenaphthylene	ug/kg	1670	1360	81	61-125	
Anthracene	ug/kg	1670	1490	89	66-125	
Benzo(a)anthracene	ug/kg	1670	1440	86	69-125	
Benzo(a)pyrene	ug/kg	1670	1470	88	67-125	
Benzo(b)fluoranthene	ug/kg	1670	1470	88	67-125	
Benzo(g,h,i)perylene	ug/kg	1670	1190	72	63-125	
Benzo(k)fluoranthene	ug/kg	1670	1500	90	68-125	
bis(2-Chloroethoxy)methane	ug/kg	1670	1300	78	52-125	
bis(2-Chloroethyl) ether	ug/kg	1670	1230	74	41-125	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1250	75	37-125	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1480	89	69-131	
Butylbenzylphthalate	ug/kg	1670	1470	88	69-129	
Carbazole	ug/kg	1670	1440	87	66-125	
Chrysene	ug/kg	1670	1420	85	68-125	
Di-n-butylphthalate	ug/kg	1670	1470	88	69-125	
Di-n-octylphthalate	ug/kg	1670	1490	90	69-133	
Dibenz(a,h)anthracene	ug/kg	1670	1420	85	64-125	
Dibenzofuran	ug/kg	1670	1370	82	65-125	
Diethylphthalate	ug/kg	1670	1400	84	67-125	
Dimethylphthalate	ug/kg	1670	1370	82	67-125	
Fluoranthene	ug/kg	1670	1490	89	66-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3138319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1670	1410	85	66-125	
Hexachloro-1,3-butadiene	ug/kg	1670	1270	76	40-125	
Hexachlorobenzene	ug/kg	1670	1400	84	62-125	
Hexachloroethane	ug/kg	1670	1240	74	33-125	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1440	87	64-125	
Isophorone	ug/kg	1670	1290	77	57-125	
N-Nitroso-di-n-propylamine	ug/kg	1670	1250	75	50-125	
N-Nitrosodimethylamine	ug/kg	1670	1060	63	36-125	
N-Nitrosodiphenylamine	ug/kg	1670	1480	89	65-125	
Naphthalene	ug/kg	1670	1250	75	48-125	
Nitrobenzene	ug/kg	1670	1270	76	48-125	
Pentachlorophenol	ug/kg	1670	1050	63	41-125	
Phenanthrene	ug/kg	1670	1460	88	66-125	
Phenol	ug/kg	1670	1200	72	46-125	
Pyrene	ug/kg	1670	1470	88	69-125	
2,4,6-Tribromophenol (S)	%			83	60-125	
2-Fluorobiphenyl (S)	%			76	30-132	
2-Fluorophenol (S)	%			65	40-125	
Nitrobenzene-d5 (S)	%			72	43-125	
p-Terphenyl-d14 (S)	%			83	62-125	
Phenol-d6 (S)	%			70	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138409 3138410

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457121001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	<43.5	2000	2000	1290	1290	64	64	30-127	0	30	
1,2-Dichlorobenzene	ug/kg	<41.6	2000	2000	1130	1210	56	60	30-125	7	30	
1,2-Diphenylhydrazine	ug/kg	<48.7	2000	2000	1630	1580	81	79	30-150	3	30	
1,3-Dichlorobenzene	ug/kg	<27.2	2000	2000	1090	1180	55	59	30-125	8	30	
1,4-Dichlorobenzene	ug/kg	<44.1	2000	2000	1100	1200	55	60	30-125	8	30	
1-Methylnaphthalene	ug/kg	<36.7	2000	2000	1540	1470	77	73	42-125	5	30	
2,4,5-Trichlorophenol	ug/kg	<51.1	2000	2000	1650	1580	82	79	30-150	4	30	
2,4,6-Trichlorophenol	ug/kg	<61.5	2000	2000	1710	1650	85	82	30-150	4	30	
2,4-Dichlorophenol	ug/kg	<66.3	2000	2000	1620	1530	81	76	30-135	6	30	
2,4-Dimethylphenol	ug/kg	<155	2000	2000	1560	1450	78	72	30-148	7	30	
2,4-Dinitrophenol	ug/kg	<185	2000	2000	740	730	37	36	30-125	1	30	
2,4-Dinitrotoluene	ug/kg	<50.5	2000	2000	1680	1650	84	82	30-150	2	30	
2,6-Dinitrotoluene	ug/kg	<52.6	2000	2000	1640	1620	82	81	30-150	1	30	
2-Chloronaphthalene	ug/kg	<35.1	2000	2000	1610	1520	81	76	30-138	6	30	
2-Chlorophenol	ug/kg	<45.2	2000	2000	1330	1270	66	63	30-130	5	30	
2-Methylnaphthalene	ug/kg	<35.8	2000	2000	1540	1450	77	73	46-125	6	30	
2-Methylphenol(o-Cresol)	ug/kg	<24.8	2000	2000	1460	1320	73	66	30-133	10	30	
2-Nitroaniline	ug/kg	<99.6	2000	2000	1730	1670	86	83	30-150	3	30	
2-Nitrophenol	ug/kg	<48.4	2000	2000	1440	1360	72	68	30-134	5	30	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138409			3138410								
Parameter	Units	10457121001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
3&4-Methylphenol(m&p Cresol)	ug/kg	<22.4	2000	2000	1540	1390	77	69	30-138	11	30
3,3'-Dichlorobenzidine	ug/kg	<133	2000	2000	1390	1640	69	82	30-149	16	30
3-Nitroaniline	ug/kg	<43.3	2000	2000	1200	1400	60	70	30-150	15	30
4,6-Dinitro-2-methylphenol	ug/kg	<393	2000	2000	1000J	1060J	50	53	30-133		30
4-Bromophenylphenyl ether	ug/kg	<47.3	2000	2000	1770	1710	89	85	44-125	4	30
4-Chloro-3-methylphenol	ug/kg	<63.5	2000	2000	1670	1610	83	80	30-150	4	30
4-Chloroaniline	ug/kg	<106	2000	2000	921	1240	46	62	30-125	29	30
4-Chlorophenylphenyl ether	ug/kg	<49.2	2000	2000	1650	1600	82	80	44-125	3	30
4-Nitroaniline	ug/kg	<58.0	2000	2000	1560	1570	78	78	30-150	1	30
4-Nitrophenol	ug/kg	<77.0	2000	2000	1600	1500	80	75	30-150	6	30
Acenaphthene	ug/kg	<42.3	2000	2000	1630	1560	81	78	40-125	4	30
Acenaphthylene	ug/kg	<50.6	2000	2000	1640	1580	82	79	30-150	4	30
Anthracene	ug/kg	<46.6	2000	2000	1750	1690	87	85	30-150	3	30
Benzo(a)anthracene	ug/kg	<40.8	2000	2000	1710	1690	85	84	30-150	1	30
Benzo(a)pyrene	ug/kg	<45.0	2000	2000	1780	1750	89	87	30-150	2	30
Benzo(b)fluoranthene	ug/kg	<38.9	2000	2000	1770	1750	88	87	30-150	1	30
Benzo(g,h,i)perylene	ug/kg	<42.5	2000	2000	1770	1790	88	89	30-150	1	30
Benzo(k)fluoranthene	ug/kg	<49.6	2000	2000	1750	1710	88	85	30-150	3	30
bis(2-Chloroethoxy)methane	ug/kg	<40.7	2000	2000	1510	1400	75	70	30-134	8	30
bis(2-Chloroethyl) ether	ug/kg	<31.4	2000	2000	1210	1260	60	63	30-125	4	30
bis(2-Chloroisopropyl) ether	ug/kg	<40.9	2000	2000	1230	1250	62	62	30-125	1	30
bis(2-Ethylhexyl)phthalate	ug/kg	<82.8	2000	2000	1750	1740	87	87	30-150	1	30
Butylbenzylphthalate	ug/kg	<36.3	2000	2000	1720	1710	86	85	30-150	1	30
Carbazole	ug/kg	<33.0	2000	2000	1720	1690	86	84	41-125	2	30
Chrysene	ug/kg	<41.9	2000	2000	1690	1670	84	83	30-150	1	30
Di-n-butylphthalate	ug/kg	<54.4	2000	2000	1710	1670	86	83	30-150	2	30
Di-n-octylphthalate	ug/kg	<46.1	2000	2000	1780	1750	89	87	30-150	2	30
Dibenz(a,h)anthracene	ug/kg	<42.2	2000	2000	1750	1720	87	86	30-150	2	30
Dibenzofuran	ug/kg	<50.3	2000	2000	1660	1580	83	79	45-125	5	30
Diethylphthalate	ug/kg	<35.4	2000	2000	1680	1620	84	81	30-150	4	30
Dimethylphthalate	ug/kg	<53.9	2000	2000	1630	1570	81	78	30-150	4	30
Fluoranthene	ug/kg	<45.6	2000	2000	1760	1730	88	87	30-150	2	30
Fluorene	ug/kg	<182	2000	2000	1700	1640	85	82	30-150	4	30
Hexachloro-1,3-butadiene	ug/kg	<60.4	2000	2000	1210	1260	61	63	30-128	4	30
Hexachlorobenzene	ug/kg	<64.7	2000	2000	1660	1620	83	81	30-150	3	30
Hexachloroethane	ug/kg	<51.6	2000	2000	1120	1200	56	60	30-125	7	30
Indeno(1,2,3-cd)pyrene	ug/kg	<23.9	2000	2000	1810	1780	90	89	30-150	2	30
Isophorone	ug/kg	<30.6	2000	2000	1500	1440	75	72	30-140	4	30
N-Nitroso-di-n-propylamine	ug/kg	<182	2000	2000	1490	1370	74	68	30-147	8	30
N-Nitrosodimethylamine	ug/kg	<48.7	2000	2000	1020	1090	51	54	30-125	6	30
N-Nitrosodiphenylamine	ug/kg	<25.7	2000	2000	1750	1720	87	86	30-150	2	30
Naphthalene	ug/kg	<30.6	2000	2000	1340	1300	67	65	44-125	3	30
Nitrobenzene	ug/kg	<43.7	2000	2000	1330	1300	67	65	30-136	2	30
Pentachlorophenol	ug/kg	<232	2000	2000	1290	1220	64	61	30-150	6	30
Phenanthrene	ug/kg	<46.2	2000	2000	1710	1700	85	85	30-150	1	30

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	10457121001		3138409		3138410		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Phenol	ug/kg	<26.0	2000	2000	1390	1270	69	63	30-129	9	30			
Pyrene	ug/kg	<30.2	2000	2000	1770	1760	88	87	30-150	1	30			
2,4,6-Tribromophenol (S)	%						83	76	60-125					
2-Fluorobiphenyl (S)	%						72	68	30-132					
2-Fluorophenol (S)	%						55	54	40-125					
Nitrobenzene-d5 (S)	%						63	60	43-125					
p-Terphenyl-d14 (S)	%						81	77	62-125					
Phenol-d6 (S)	%						68	60	48-125					

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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QC Batch: 578833 Analysis Method: EPA 8270D  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid MSSV  
 Associated Lab Samples: 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035

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METHOD BLANK: 3139394 Matrix: Solid  
 Associated Lab Samples: 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<36.2	330	36.2	12/05/18 19:43	
1,2-Dichlorobenzene	ug/kg	<34.6	330	34.6	12/05/18 19:43	
1,2-Diphenylhydrazine	ug/kg	<40.5	330	40.5	12/05/18 19:43	
1,3-Dichlorobenzene	ug/kg	<22.6	330	22.6	12/05/18 19:43	
1,4-Dichlorobenzene	ug/kg	<36.7	330	36.7	12/05/18 19:43	
1-Methylnaphthalene	ug/kg	<30.5	330	30.5	12/05/18 19:43	
2,4,5-Trichlorophenol	ug/kg	<42.5	330	42.5	12/05/18 19:43	
2,4,6-Trichlorophenol	ug/kg	<51.1	330	51.1	12/05/18 19:43	
2,4-Dichlorophenol	ug/kg	<55.1	330	55.1	12/05/18 19:43	
2,4-Dimethylphenol	ug/kg	<129	330	129	12/05/18 19:43	
2,4-Dinitrophenol	ug/kg	<154	330	154	12/05/18 19:43	
2,4-Dinitrotoluene	ug/kg	<42.0	330	42.0	12/05/18 19:43	
2,6-Dinitrotoluene	ug/kg	<43.7	330	43.7	12/05/18 19:43	
2-Chloronaphthalene	ug/kg	<29.2	330	29.2	12/05/18 19:43	
2-Chlorophenol	ug/kg	<37.6	330	37.6	12/05/18 19:43	
2-Methylnaphthalene	ug/kg	<29.8	330	29.8	12/05/18 19:43	
2-Methylphenol(o-Cresol)	ug/kg	<20.6	330	20.6	12/05/18 19:43	
2-Nitroaniline	ug/kg	<82.8	330	82.8	12/05/18 19:43	
2-Nitrophenol	ug/kg	<40.2	330	40.2	12/05/18 19:43	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.6	660	18.6	12/05/18 19:43	
3,3'-Dichlorobenzidine	ug/kg	<111	330	111	12/05/18 19:43	
3-Nitroaniline	ug/kg	<36.0	330	36.0	12/05/18 19:43	
4,6-Dinitro-2-methylphenol	ug/kg	<327	1700	327	12/05/18 19:43	
4-Bromophenylphenyl ether	ug/kg	<39.3	330	39.3	12/05/18 19:43	
4-Chloro-3-methylphenol	ug/kg	<52.8	330	52.8	12/05/18 19:43	
4-Chloroaniline	ug/kg	<87.9	330	87.9	12/05/18 19:43	
4-Chlorophenylphenyl ether	ug/kg	<40.9	330	40.9	12/05/18 19:43	
4-Nitroaniline	ug/kg	<48.2	330	48.2	12/05/18 19:43	
4-Nitrophenol	ug/kg	<64.0	330	64.0	12/05/18 19:43	
Acenaphthene	ug/kg	<35.2	330	35.2	12/05/18 19:43	
Acenaphthylene	ug/kg	<42.1	330	42.1	12/05/18 19:43	
Anthracene	ug/kg	<38.7	330	38.7	12/05/18 19:43	
Benzo(a)anthracene	ug/kg	<33.9	330	33.9	12/05/18 19:43	
Benzo(a)pyrene	ug/kg	<37.4	330	37.4	12/05/18 19:43	
Benzo(b)fluoranthene	ug/kg	<32.3	330	32.3	12/05/18 19:43	
Benzo(g,h,i)perylene	ug/kg	<35.3	330	35.3	12/05/18 19:43	
Benzo(k)fluoranthene	ug/kg	<41.2	330	41.2	12/05/18 19:43	
bis(2-Chloroethoxy)methane	ug/kg	<33.8	330	33.8	12/05/18 19:43	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3139394

Matrix: Solid

Associated Lab Samples: 10457121021, 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	<26.1	330	26.1	12/05/18 19:43	
bis(2-Chloroisopropyl) ether	ug/kg	<34.0	330	34.0	12/05/18 19:43	
bis(2-Ethylhexyl)phthalate	ug/kg	<68.8	330	68.8	12/05/18 19:43	
Butylbenzylphthalate	ug/kg	<30.2	330	30.2	12/05/18 19:43	
Carbazole	ug/kg	<27.4	330	27.4	12/05/18 19:43	
Chrysene	ug/kg	<34.8	330	34.8	12/05/18 19:43	
Di-n-butylphthalate	ug/kg	<45.2	330	45.2	12/05/18 19:43	
Di-n-octylphthalate	ug/kg	<38.3	330	38.3	12/05/18 19:43	
Dibenz(a,h)anthracene	ug/kg	<35.1	330	35.1	12/05/18 19:43	
Dibenzofuran	ug/kg	<41.8	330	41.8	12/05/18 19:43	
Diethylphthalate	ug/kg	<29.4	330	29.4	12/05/18 19:43	
Dimethylphthalate	ug/kg	<44.8	330	44.8	12/05/18 19:43	
Fluoranthene	ug/kg	<37.9	330	37.9	12/05/18 19:43	
Fluorene	ug/kg	<151	330	151	12/05/18 19:43	
Hexachloro-1,3-butadiene	ug/kg	<50.2	330	50.2	12/05/18 19:43	
Hexachlorobenzene	ug/kg	<53.8	330	53.8	12/05/18 19:43	
Hexachloroethane	ug/kg	<42.9	330	42.9	12/05/18 19:43	
Indeno(1,2,3-cd)pyrene	ug/kg	<19.9	330	19.9	12/05/18 19:43	
Isophorone	ug/kg	<25.4	330	25.4	12/05/18 19:43	
N-Nitroso-di-n-propylamine	ug/kg	<151	330	151	12/05/18 19:43	
N-Nitrosodimethylamine	ug/kg	<40.5	330	40.5	12/05/18 19:43	
N-Nitrosodiphenylamine	ug/kg	<21.4	330	21.4	12/05/18 19:43	
Naphthalene	ug/kg	<25.4	330	25.4	12/05/18 19:43	
Nitrobenzene	ug/kg	<36.3	330	36.3	12/05/18 19:43	
Pentachlorophenol	ug/kg	<193	670	193	12/05/18 19:43	
Phenanthrene	ug/kg	<38.4	330	38.4	12/05/18 19:43	
Phenol	ug/kg	<21.6	330	21.6	12/05/18 19:43	
Pyrene	ug/kg	<25.1	330	25.1	12/05/18 19:43	
2,4,6-Tribromophenol (S)	%	81	60-125		12/05/18 19:43	
2-Fluorobiphenyl (S)	%	77	30-132		12/05/18 19:43	
2-Fluorophenol (S)	%	71	40-125		12/05/18 19:43	
Nitrobenzene-d5 (S)	%	74	43-125		12/05/18 19:43	
p-Terphenyl-d14 (S)	%	90	62-125		12/05/18 19:43	
Phenol-d6 (S)	%	74	48-125		12/05/18 19:43	

LABORATORY CONTROL SAMPLE: 3139395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1420	85	46-125	
1,2-Dichlorobenzene	ug/kg	1670	1400	84	41-125	
1,2-Diphenylhydrazine	ug/kg	1670	1580	95	63-125	
1,3-Dichlorobenzene	ug/kg	1670	1400	84	38-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3139395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	1670	1420	85	39-125	
1-Methylnaphthalene	ug/kg	1670	1470	88	56-125	
2,4,5-Trichlorophenol	ug/kg	1670	1550	93	63-125	
2,4,6-Trichlorophenol	ug/kg	1670	1520	91	61-125	
2,4-Dichlorophenol	ug/kg	1670	1450	87	57-125	
2,4-Dimethylphenol	ug/kg	1670	1420	85	51-125	
2,4-Dinitrophenol	ug/kg	1670	1220	73	30-132	
2,4-Dinitrotoluene	ug/kg	1670	1590	96	62-125	
2,6-Dinitrotoluene	ug/kg	1670	1560	94	63-125	
2-Chloronaphthalene	ug/kg	1670	1490	89	61-125	
2-Chlorophenol	ug/kg	1670	1410	85	46-125	
2-Methylnaphthalene	ug/kg	1670	1450	87	55-125	
2-Methylphenol(o-Cresol)	ug/kg	1670	1440	86	50-125	
2-Nitroaniline	ug/kg	1670	1570	94	61-125	
2-Nitrophenol	ug/kg	1670	1440	87	43-125	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1440	86	54-125	
3,3'-Dichlorobenzidine	ug/kg	1670	1230	74	47-125	
3-Nitroaniline	ug/kg	1670	1200	72	57-125	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1560J	94	30-141	
4-Bromophenylphenyl ether	ug/kg	1670	1590	95	63-125	
4-Chloro-3-methylphenol	ug/kg	1670	1530	92	64-125	
4-Chloroaniline	ug/kg	1670	979	59	36-125	
4-Chlorophenylphenyl ether	ug/kg	1670	1550	93	64-125	
4-Nitroaniline	ug/kg	1670	1520	91	59-125	
4-Nitrophenol	ug/kg	1670	1590	95	54-125	
Acenaphthene	ug/kg	1670	1510	91	62-125	
Acenaphthylene	ug/kg	1670	1520	91	61-125	
Anthracene	ug/kg	1670	1590	95	66-125	
Benzo(a)anthracene	ug/kg	1670	1580	95	69-125	
Benzo(a)pyrene	ug/kg	1670	1640	98	67-125	
Benzo(b)fluoranthene	ug/kg	1670	1660	99	67-125	
Benzo(g,h,i)perylene	ug/kg	1670	1630	98	63-125	
Benzo(k)fluoranthene	ug/kg	1670	1650	99	68-125	
bis(2-Chloroethoxy)methane	ug/kg	1670	1470	88	52-125	
bis(2-Chloroethyl) ether	ug/kg	1670	1430	86	41-125	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1410	85	37-125	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1620	97	69-131	
Butylbenzylphthalate	ug/kg	1670	1600	96	69-129	
Carbazole	ug/kg	1670	1590	95	66-125	
Chrysene	ug/kg	1670	1580	95	68-125	
Di-n-butylphthalate	ug/kg	1670	1640	98	69-125	
Di-n-octylphthalate	ug/kg	1670	1610	96	69-133	
Dibenz(a,h)anthracene	ug/kg	1670	1640	99	64-125	
Dibenzofuran	ug/kg	1670	1540	92	65-125	
Diethylphthalate	ug/kg	1670	1590	96	67-125	
Dimethylphthalate	ug/kg	1670	1570	94	67-125	
Fluoranthene	ug/kg	1670	1600	96	66-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3139395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1670	1550	93	66-125	
Hexachloro-1,3-butadiene	ug/kg	1670	1410	85	40-125	
Hexachlorobenzene	ug/kg	1670	1550	93	62-125	
Hexachloroethane	ug/kg	1670	1410	85	33-125	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1640	98	64-125	
Isophorone	ug/kg	1670	1480	89	57-125	
N-Nitroso-di-n-propylamine	ug/kg	1670	1450	87	50-125	
N-Nitrosodimethylamine	ug/kg	1670	1380	83	36-125	
N-Nitrosodiphenylamine	ug/kg	1670	1560	94	65-125	
Naphthalene	ug/kg	1670	1450	87	48-125	
Nitrobenzene	ug/kg	1670	1450	87	48-125	
Pentachlorophenol	ug/kg	1670	1270	76	41-125	
Phenanthrene	ug/kg	1670	1590	95	66-125	
Phenol	ug/kg	1670	1420	85	46-125	
Pyrene	ug/kg	1670	1600	96	69-125	
2,4,6-Tribromophenol (S)	%			91	60-125	
2-Fluorobiphenyl (S)	%			82	30-132	
2-Fluorophenol (S)	%			79	40-125	
Nitrobenzene-d5 (S)	%			80	43-125	
p-Terphenyl-d14 (S)	%			88	62-125	
Phenol-d6 (S)	%			81	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3139551 3139552

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457441001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	ND	2220	2230	1720	1890	77	85	30-127	10	30	
1,2-Dichlorobenzene	ug/kg	ND	2220	2230	1660	1850	74	83	30-125	11	30	
1,2-Diphenylhydrazine	ug/kg	ND	2220	2230	2030	2120	91	95	30-150	4	30	
1,3-Dichlorobenzene	ug/kg	ND	2220	2230	1650	1850	74	83	30-125	11	30	
1,4-Dichlorobenzene	ug/kg	ND	2220	2230	1680	1850	75	83	30-125	10	30	
1-Methylnaphthalene	ug/kg	ND	2220	2230	1910	2020	85	90	42-125	6	30	
2,4,5-Trichlorophenol	ug/kg	ND	2220	2230	2020	2060	91	92	30-150	2	30	
2,4,6-Trichlorophenol	ug/kg	ND	2220	2230	1990	2080	89	93	30-150	4	30	
2,4-Dichlorophenol	ug/kg	ND	2220	2230	1870	2010	84	90	30-135	7	30	
2,4-Dimethylphenol	ug/kg	ND	2220	2230	1900	1940	85	87	30-148	2	30	
2,4-Dinitrophenol	ug/kg	ND	2220	2230	1670	1720	75	77	30-125	3	30	
2,4-Dinitrotoluene	ug/kg	ND	2220	2230	2020	2150	91	96	30-150	6	30	
2,6-Dinitrotoluene	ug/kg	ND	2220	2230	2010	2110	91	94	30-150	5	30	
2-Chloronaphthalene	ug/kg	ND	2220	2230	1910	2030	86	90	30-138	6	30	
2-Chlorophenol	ug/kg	ND	2220	2230	1660	1860	75	83	30-130	11	30	
2-Methylnaphthalene	ug/kg	ND	2220	2230	1900	2020	84	89	46-125	6	30	
2-Methylphenol(o-Cresol)	ug/kg	ND	2220	2230	1750	1890	79	84	30-133	8	30	
2-Nitroaniline	ug/kg	ND	2220	2230	2040	2090	92	93	30-150	2	30	
2-Nitrophenol	ug/kg	ND	2220	2230	1780	1940	80	86	30-134	9	30	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3139551		3139552									
Parameter	Units	10457441001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	2220	2230	1800	1940	81	87	30-138	8	30		
3,3'-Dichlorobenzidine	ug/kg	ND	2220	2230	1530	1910	69	85	30-149	22	30		
3-Nitroaniline	ug/kg	ND	2220	2230	1350	1620	61	72	30-150	18	30		
4,6-Dinitro-2-methylphenol	ug/kg	ND	2220	2230	1940J	2070J	87	92	30-133		30		
4-Bromophenylphenyl ether	ug/kg	ND	2220	2230	2030	2100	92	94	44-125	3	30		
4-Chloro-3-methylphenol	ug/kg	ND	2220	2230	2030	2110	91	94	30-150	3	30		
4-Chloroaniline	ug/kg	ND	2220	2230	1130	1410	51	63	30-125	23	30		
4-Chlorophenylphenyl ether	ug/kg	ND	2220	2230	2000	2090	90	93	44-125	4	30		
4-Nitroaniline	ug/kg	ND	2220	2230	1930	2050	87	91	30-150	6	30		
4-Nitrophenol	ug/kg	ND	2220	2230	2030	2110	91	94	30-150	4	30		
Acenaphthene	ug/kg	ND	2220	2230	2000	2070	90	93	40-125	4	30		
Acenaphthylene	ug/kg	ND	2220	2230	2000	2100	90	94	30-150	5	30		
Anthracene	ug/kg	ND	2220	2230	2040	2100	92	94	30-150	3	30		
Benzo(a)anthracene	ug/kg	ND	2220	2230	2020	2130	91	95	30-150	5	30		
Benzo(a)pyrene	ug/kg	ND	2220	2230	2080	2180	94	97	30-150	5	30		
Benzo(b)fluoranthene	ug/kg	ND	2220	2230	2120	2230	95	99	30-150	5	30		
Benzo(g,h,i)perylene	ug/kg	ND	2220	2230	2060	2150	93	96	30-150	4	30		
Benzo(k)fluoranthene	ug/kg	ND	2220	2230	2090	2190	94	98	30-150	5	30		
bis(2-Chloroethoxy)methane	ug/kg	ND	2220	2230	1850	1980	83	88	30-134	7	30		
bis(2-Chloroethyl) ether	ug/kg	ND	2220	2230	1690	1860	76	83	30-125	10	30		
bis(2-Chloroisopropyl) ether	ug/kg	ND	2220	2230	1670	1850	75	83	30-125	10	30		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	2220	2230	2050	2190	92	98	30-150	6	30		
Butylbenzylphthalate	ug/kg	ND	2220	2230	2030	2190	91	98	30-150	8	30		
Carbazole	ug/kg	ND	2220	2230	2030	2150	91	96	41-125	6	30		
Chrysene	ug/kg	ND	2220	2230	2020	2160	91	97	30-150	7	30		
Di-n-butylphthalate	ug/kg	ND	2220	2230	2060	2170	93	97	30-150	5	30		
Di-n-octylphthalate	ug/kg	ND	2220	2230	2050	2180	92	97	30-150	6	30		
Dibenz(a,h)anthracene	ug/kg	ND	2220	2230	2050	2160	92	97	30-150	5	30		
Dibenzofuran	ug/kg	ND	2220	2230	2000	2060	90	92	45-125	3	30		
Diethylphthalate	ug/kg	ND	2220	2230	2040	2120	92	95	30-150	4	30		
Dimethylphthalate	ug/kg	ND	2220	2230	2010	2090	90	93	30-150	4	30		
Fluoranthene	ug/kg	ND	2220	2230	2020	2140	91	95	30-150	5	30		
Fluorene	ug/kg	ND	2220	2230	1990	2120	90	94	30-150	6	30		
Hexachloro-1,3-butadiene	ug/kg	ND	2220	2230	1680	1890	75	84	30-128	12	30		
Hexachlorobenzene	ug/kg	ND	2220	2230	1990	2060	89	92	30-150	4	30		
Hexachloroethane	ug/kg	ND	2220	2230	1690	1920	76	86	30-125	13	30		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	2220	2230	2070	2170	93	97	30-150	5	30		
Isophorone	ug/kg	ND	2220	2230	1930	2020	87	90	30-140	5	30		
N-Nitroso-di-n-propylamine	ug/kg	ND	2220	2230	1780	1930	80	86	30-147	8	30		
N-Nitrosodimethylamine	ug/kg	ND	2220	2230	1720	1840	78	82	30-125	7	30		
N-Nitrosodiphenylamine	ug/kg	ND	2220	2230	2030	2110	91	94	30-150	4	30		
Naphthalene	ug/kg	ND	2220	2230	1790	1980	80	88	44-125	10	30		
Nitrobenzene	ug/kg	ND	2220	2230	1740	1940	78	87	30-136	11	30		
Pentachlorophenol	ug/kg	ND	2220	2230	1650	1670	74	74	30-150	1	30		
Phenanthrene	ug/kg	ND	2220	2230	2020	2120	91	95	30-150	5	30		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	10457441001		3139551		3139552		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Phenol	ug/kg	ND	2220	2230	1690	1870	76	84	30-129	10	30			
Pyrene	ug/kg	ND	2220	2230	2040	2170	92	97	30-150	6	30			
2,4,6-Tribromophenol (S)	%.						70	75	60-125					
2-Fluorobiphenyl (S)	%.						41	50	30-132					
2-Fluorophenol (S)	%.						60	74	40-125					
Nitrobenzene-d5 (S)	%.						53	67	43-125					
p-Terphenyl-d14 (S)	%.						79	84	62-125					
Phenol-d6 (S)	%.						64	76	48-125					

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578883 Analysis Method: EPA 8270D  
QC Batch Method: EPA 3550 Analysis Description: 8270D Solid MSSV  
Associated Lab Samples: 10457121036, 10457121037, 10457121038

METHOD BLANK: 3139846 Matrix: Solid

Associated Lab Samples: 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<36.2	330	36.2	12/11/18 13:29	
1,2-Dichlorobenzene	ug/kg	<34.6	330	34.6	12/11/18 13:29	
1,2-Diphenylhydrazine	ug/kg	<40.5	330	40.5	12/11/18 13:29	
1,3-Dichlorobenzene	ug/kg	<22.6	330	22.6	12/11/18 13:29	
1,4-Dichlorobenzene	ug/kg	<36.7	330	36.7	12/11/18 13:29	
1-Methylnaphthalene	ug/kg	<30.5	330	30.5	12/11/18 13:29	
2,4,5-Trichlorophenol	ug/kg	<42.5	330	42.5	12/11/18 13:29	
2,4,6-Trichlorophenol	ug/kg	<51.1	330	51.1	12/11/18 13:29	
2,4-Dichlorophenol	ug/kg	<55.1	330	55.1	12/11/18 13:29	
2,4-Dimethylphenol	ug/kg	<129	330	129	12/11/18 13:29	
2,4-Dinitrophenol	ug/kg	<154	330	154	12/11/18 13:29	
2,4-Dinitrotoluene	ug/kg	<42.0	330	42.0	12/11/18 13:29	
2,6-Dinitrotoluene	ug/kg	<43.7	330	43.7	12/11/18 13:29	
2-Chloronaphthalene	ug/kg	<29.2	330	29.2	12/11/18 13:29	
2-Chlorophenol	ug/kg	<37.6	330	37.6	12/11/18 13:29	
2-Methylnaphthalene	ug/kg	<29.8	330	29.8	12/11/18 13:29	
2-Methylphenol(o-Cresol)	ug/kg	<20.6	330	20.6	12/11/18 13:29	
2-Nitroaniline	ug/kg	<82.8	330	82.8	12/11/18 13:29	
2-Nitrophenol	ug/kg	<40.2	330	40.2	12/11/18 13:29	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.6	660	18.6	12/11/18 13:29	
3,3'-Dichlorobenzidine	ug/kg	<111	330	111	12/11/18 13:29	
3-Nitroaniline	ug/kg	<36.0	330	36.0	12/11/18 13:29	
4,6-Dinitro-2-methylphenol	ug/kg	<327	1700	327	12/11/18 13:29	
4-Bromophenylphenyl ether	ug/kg	<39.3	330	39.3	12/11/18 13:29	
4-Chloro-3-methylphenol	ug/kg	<52.8	330	52.8	12/11/18 13:29	
4-Chloroaniline	ug/kg	<87.9	330	87.9	12/11/18 13:29	
4-Chlorophenylphenyl ether	ug/kg	<40.9	330	40.9	12/11/18 13:29	
4-Nitroaniline	ug/kg	<48.2	330	48.2	12/11/18 13:29	
4-Nitrophenol	ug/kg	<64.0	330	64.0	12/11/18 13:29	
Acenaphthene	ug/kg	<35.2	330	35.2	12/11/18 13:29	
Acenaphthylene	ug/kg	<42.1	330	42.1	12/11/18 13:29	
Anthracene	ug/kg	<38.7	330	38.7	12/11/18 13:29	
Benzo(a)anthracene	ug/kg	<33.9	330	33.9	12/11/18 13:29	
Benzo(a)pyrene	ug/kg	<37.4	330	37.4	12/11/18 13:29	
Benzo(b)fluoranthene	ug/kg	<32.3	330	32.3	12/11/18 13:29	
Benzo(g,h,i)perylene	ug/kg	<35.3	330	35.3	12/11/18 13:29	
Benzo(k)fluoranthene	ug/kg	<41.2	330	41.2	12/11/18 13:29	
bis(2-Chloroethoxy)methane	ug/kg	<33.8	330	33.8	12/11/18 13:29	
bis(2-Chloroethyl) ether	ug/kg	<26.1	330	26.1	12/11/18 13:29	
bis(2-Chloroisopropyl) ether	ug/kg	<34.0	330	34.0	12/11/18 13:29	
bis(2-Ethylhexyl)phthalate	ug/kg	<68.8	330	68.8	12/11/18 13:29	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3139846

Matrix: Solid

Associated Lab Samples: 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	<30.2	330	30.2	12/11/18 13:29	
Carbazole	ug/kg	<27.4	330	27.4	12/11/18 13:29	
Chrysene	ug/kg	<34.8	330	34.8	12/11/18 13:29	
Di-n-butylphthalate	ug/kg	<45.2	330	45.2	12/11/18 13:29	
Di-n-octylphthalate	ug/kg	<38.3	330	38.3	12/11/18 13:29	
Dibenz(a,h)anthracene	ug/kg	<35.1	330	35.1	12/11/18 13:29	
Dibenzofuran	ug/kg	<41.8	330	41.8	12/11/18 13:29	
Diethylphthalate	ug/kg	<29.4	330	29.4	12/11/18 13:29	
Dimethylphthalate	ug/kg	<44.8	330	44.8	12/11/18 13:29	
Fluoranthene	ug/kg	<37.9	330	37.9	12/11/18 13:29	
Fluorene	ug/kg	<151	330	151	12/11/18 13:29	
Hexachloro-1,3-butadiene	ug/kg	<50.2	330	50.2	12/11/18 13:29	
Hexachlorobenzene	ug/kg	<53.8	330	53.8	12/11/18 13:29	
Hexachloroethane	ug/kg	<42.9	330	42.9	12/11/18 13:29	
Indeno(1,2,3-cd)pyrene	ug/kg	<19.9	330	19.9	12/11/18 13:29	
Isophorone	ug/kg	<25.4	330	25.4	12/11/18 13:29	
N-Nitroso-di-n-propylamine	ug/kg	<151	330	151	12/11/18 13:29	
N-Nitrosodimethylamine	ug/kg	<40.5	330	40.5	12/11/18 13:29	
N-Nitrosodiphenylamine	ug/kg	<21.4	330	21.4	12/11/18 13:29	
Naphthalene	ug/kg	<25.4	330	25.4	12/11/18 13:29	
Nitrobenzene	ug/kg	<36.3	330	36.3	12/11/18 13:29	
Pentachlorophenol	ug/kg	<193	670	193	12/11/18 13:29	
Phenanthrene	ug/kg	<38.4	330	38.4	12/11/18 13:29	
Phenol	ug/kg	<21.6	330	21.6	12/11/18 13:29	
Pyrene	ug/kg	<25.1	330	25.1	12/11/18 13:29	
2,4,6-Tribromophenol (S)	%	80	60-125		12/11/18 13:29	
2-Fluorobiphenyl (S)	%	75	30-132		12/11/18 13:29	
2-Fluorophenol (S)	%	72	40-125		12/11/18 13:29	
Nitrobenzene-d5 (S)	%	73	43-125		12/11/18 13:29	
p-Terphenyl-d14 (S)	%	88	62-125		12/11/18 13:29	
Phenol-d6 (S)	%	75	48-125		12/11/18 13:29	

LABORATORY CONTROL SAMPLE: 3139847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1350	81	46-125	
1,2-Dichlorobenzene	ug/kg	1670	1310	78	41-125	
1,2-Diphenylhydrazine	ug/kg	1670	1510	91	63-125	
1,3-Dichlorobenzene	ug/kg	1670	1290	77	38-125	
1,4-Dichlorobenzene	ug/kg	1670	1310	79	39-125	
1-Methylnaphthalene	ug/kg	1670	1460	88	56-125	
2,4,5-Trichlorophenol	ug/kg	1670	1500	90	63-125	
2,4,6-Trichlorophenol	ug/kg	1670	1480	89	61-125	
2,4-Dichlorophenol	ug/kg	1670	1430	86	57-125	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3139847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/kg	1670	1310	79	51-125	
2,4-Dinitrophenol	ug/kg	1670	1230	74	30-132	
2,4-Dinitrotoluene	ug/kg	1670	1530	92	62-125	
2,6-Dinitrotoluene	ug/kg	1670	1510	91	63-125	
2-Chloronaphthalene	ug/kg	1670	1450	87	61-125	
2-Chlorophenol	ug/kg	1670	1330	80	46-125	
2-Methylnaphthalene	ug/kg	1670	1440	87	55-125	
2-Methylphenol(o-Cresol)	ug/kg	1670	1340	80	50-125	
2-Nitroaniline	ug/kg	1670	1500	90	61-125	
2-Nitrophenol	ug/kg	1670	1390	84	43-125	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1380	83	54-125	
3,3'-Dichlorobenzidine	ug/kg	1670	1530	92	47-125	
3-Nitroaniline	ug/kg	1670	1470	88	57-125	
4,6-Dinitro-2-methylphenol	ug/kg	1670	1510J	91	30-141	
4-Bromophenylphenyl ether	ug/kg	1670	1510	90	63-125	
4-Chloro-3-methylphenol	ug/kg	1670	1520	91	64-125	
4-Chloroaniline	ug/kg	1670	1380	83	36-125	
4-Chlorophenylphenyl ether	ug/kg	1670	1490	90	64-125	
4-Nitroaniline	ug/kg	1670	1460	88	59-125	
4-Nitrophenol	ug/kg	1670	1480	89	54-125	
Acenaphthene	ug/kg	1670	1480	89	62-125	
Acenaphthylene	ug/kg	1670	1470	88	61-125	
Anthracene	ug/kg	1670	1510	91	66-125	
Benzo(a)anthracene	ug/kg	1670	1520	91	69-125	
Benzo(a)pyrene	ug/kg	1670	1530	92	67-125	
Benzo(b)fluoranthene	ug/kg	1670	1580	95	67-125	
Benzo(g,h,i)perylene	ug/kg	1670	1500	90	63-125	
Benzo(k)fluoranthene	ug/kg	1670	1550	93	68-125	
bis(2-Chloroethoxy)methane	ug/kg	1670	1420	85	52-125	
bis(2-Chloroethyl) ether	ug/kg	1670	1290	77	41-125	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1260	76	37-125	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1580	95	69-131	
Butylbenzylphthalate	ug/kg	1670	1570	94	69-129	
Carbazole	ug/kg	1670	1510	91	66-125	
Chrysene	ug/kg	1670	1530	92	68-125	
Di-n-butylphthalate	ug/kg	1670	1570	94	69-125	
Di-n-octylphthalate	ug/kg	1670	1580	95	69-133	
Dibenz(a,h)anthracene	ug/kg	1670	1520	91	64-125	
Dibenzofuran	ug/kg	1670	1470	88	65-125	
Diethylphthalate	ug/kg	1670	1520	91	67-125	
Dimethylphthalate	ug/kg	1670	1510	90	67-125	
Fluoranthene	ug/kg	1670	1530	92	66-125	
Fluorene	ug/kg	1670	1490	90	66-125	
Hexachloro-1,3-butadiene	ug/kg	1670	1340	80	40-125	
Hexachlorobenzene	ug/kg	1670	1460	87	62-125	
Hexachloroethane	ug/kg	1670	1310	79	33-125	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1510	91	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3139847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1460	88	57-125	
N-Nitroso-di-n-propylamine	ug/kg	1670	1370	82	50-125	
N-Nitrosodimethylamine	ug/kg	1670	1290	77	36-125	
N-Nitrosodiphenylamine	ug/kg	1670	1500	90	65-125	
Naphthalene	ug/kg	1670	1390	83	48-125	
Nitrobenzene	ug/kg	1670	1360	82	48-125	
Pentachlorophenol	ug/kg	1670	1190	71	41-125	
Phenanthrene	ug/kg	1670	1500	90	66-125	
Phenol	ug/kg	1670	1330	80	46-125	
Pyrene	ug/kg	1670	1540	92	69-125	
2,4,6-Tribromophenol (S)	%			86	60-125	
2-Fluorobiphenyl (S)	%			83	30-132	
2-Fluorophenol (S)	%			74	40-125	
Nitrobenzene-d5 (S)	%			76	43-125	
p-Terphenyl-d14 (S)	%			88	62-125	
Phenol-d6 (S)	%			77	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3139848 3139849

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457121036 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	<44.0	2030	2030	1650	1550	82	77	30-127	6	30	
1,2-Dichlorobenzene	ug/kg	<42.1	2030	2030	1570	1490	78	74	30-125	5	30	
1,2-Diphenylhydrazine	ug/kg	<49.3	2030	2030	1840	1860	91	92	30-150	1	30	
1,3-Dichlorobenzene	ug/kg	<27.5	2030	2030	1570	1490	78	74	30-125	5	30	
1,4-Dichlorobenzene	ug/kg	<44.6	2030	2030	1580	1490	78	74	30-125	6	30	
1-Methylnaphthalene	ug/kg	<37.1	2030	2030	1790	1740	89	86	42-125	3	30	
2,4,5-Trichlorophenol	ug/kg	<51.7	2030	2030	1810	1840	89	91	30-150	2	30	
2,4,6-Trichlorophenol	ug/kg	<62.2	2030	2030	1820	1820	90	90	30-150	0	30	
2,4-Dichlorophenol	ug/kg	<67.0	2030	2030	1780	1710	88	84	30-135	4	30	
2,4-Dimethylphenol	ug/kg	<157	2030	2030	1510	1540	75	76	30-148	2	30	
2,4-Dinitrophenol	ug/kg	<187	2030	2030	689	639	34	32	30-125	8	30	
2,4-Dinitrotoluene	ug/kg	<51.1	2030	2030	1860	1880	92	93	30-150	1	30	
2,6-Dinitrotoluene	ug/kg	<53.2	2030	2030	1880	1850	93	91	30-150	2	30	
2-Chloronaphthalene	ug/kg	<35.5	2030	2030	1750	1750	86	86	30-138	0	30	
2-Chlorophenol	ug/kg	<45.7	2030	2030	1620	1560	80	77	30-130	4	30	
2-Methylnaphthalene	ug/kg	<36.2	2030	2030	1780	1730	88	85	46-125	3	30	
2-Methylphenol(o-Cresol)	ug/kg	<25.1	2030	2030	1680	1600	83	79	30-133	5	30	
2-Nitroaniline	ug/kg	<101	2030	2030	1820	1840	90	91	30-150	1	30	
2-Nitrophenol	ug/kg	<48.9	2030	2030	1700	1590	84	79	30-134	7	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	<22.6	2030	2030	1710	1660	84	82	30-138	3	30	
3,3'-Dichlorobenzidine	ug/kg	<135	2030	2030	1860	1930	92	95	30-149	4	30	
3-Nitroaniline	ug/kg	<43.8	2030	2030	1240	1450	61	72	30-150	16	30	
4,6-Dinitro-2-methylphenol	ug/kg	<398	2030	2030	951J	890J	47	44	30-133		30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3139848			3139849							
Parameter	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	Max	Qual
		10457121036	Spike	Spike	Result							
4-Bromophenylphenyl ether	ug/kg	<47.8	2030	2030	1850	1860	92	92	44-125	0	30	
4-Chloro-3-methylphenol	ug/kg	<64.2	2030	2030	1900	1870	94	92	30-150	1	30	
4-Chloroaniline	ug/kg	<107	2030	2030	1380	1510	68	75	30-125	10	30	
4-Chlorophenylphenyl ether	ug/kg	<49.7	2030	2030	1830	1840	90	91	44-125	0	30	
4-Nitroaniline	ug/kg	<58.6	2030	2030	1610	1680	79	83	30-150	4	30	
4-Nitrophenol	ug/kg	<77.8	2030	2030	1750	1750	86	86	30-150	0	30	
Acenaphthene	ug/kg	<42.8	2030	2030	1740	1760	86	87	40-125	1	30	
Acenaphthylene	ug/kg	<51.2	2030	2030	1800	1790	89	89	30-150	0	30	
Anthracene	ug/kg	<47.1	2030	2030	1850	1850	91	91	30-150	0	30	
Benzo(a)anthracene	ug/kg	103J	2030	2030	1870	1860	87	87	30-150	1	30	
Benzo(a)pyrene	ug/kg	103J	2030	2030	1920	1940	90	91	30-150	1	30	
Benzo(b)fluoranthene	ug/kg	123J	2030	2030	1970	1980	91	91	30-150	0	30	
Benzo(g,h,i)perylene	ug/kg	69.6J	2030	2030	2000	2000	95	95	30-150	0	30	
Benzo(k)fluoranthene	ug/kg	<50.1	2030	2030	1940	1940	93	94	30-150	0	30	
bis(2-Chloroethoxy)methane	ug/kg	<41.1	2030	2030	1760	1680	87	83	30-134	5	30	
bis(2-Chloroethyl) ether	ug/kg	<31.7	2030	2030	1600	1490	79	74	30-125	7	30	
bis(2-Chloroisopropyl) ether	ug/kg	<41.4	2030	2030	1550	1480	76	73	30-125	4	30	
bis(2-Ethylhexyl)phthalate	ug/kg	<83.7	2030	2030	1950	1950	97	96	30-150	0	30	
Butylbenzylphthalate	ug/kg	<36.7	2030	2030	1950	1970	95	96	30-150	1	30	
Carbazole	ug/kg	<33.3	2030	2030	1860	1860	91	91	41-125	0	30	
Chrysene	ug/kg	112J	2030	2030	1910	1900	89	88	30-150	0	30	
Di-n-butylphthalate	ug/kg	<55.0	2030	2030	1890	1910	93	94	30-150	1	30	
Di-n-octylphthalate	ug/kg	<46.6	2030	2030	1920	1940	95	96	30-150	1	30	
Dibenz(a,h)anthracene	ug/kg	<42.7	2030	2030	1960	1970	97	97	30-150	1	30	
Dibenzofuran	ug/kg	<50.8	2030	2030	1820	1820	90	90	45-125	0	30	
Diethylphthalate	ug/kg	<35.8	2030	2030	1880	1890	93	93	30-150	0	30	
Dimethylphthalate	ug/kg	<54.5	2030	2030	1850	1860	91	92	30-150	1	30	
Fluoranthene	ug/kg	166J	2030	2030	1870	1870	84	84	30-150	0	30	
Fluorene	ug/kg	<184	2030	2030	1840	1840	91	91	30-150	0	30	
Hexachloro-1,3-butadiene	ug/kg	<61.1	2030	2030	1630	1520	81	75	30-128	7	30	
Hexachlorobenzene	ug/kg	<65.4	2030	2030	1790	1800	89	89	30-150	0	30	
Hexachloroethane	ug/kg	<52.2	2030	2030	1510	1430	74	71	30-125	5	30	
Indeno(1,2,3-cd)pyrene	ug/kg	60.7J	2030	2030	1970	1990	94	95	30-150	1	30	
Isophorone	ug/kg	<30.9	2030	2030	1800	1760	89	87	30-140	2	30	
N-Nitroso-di-n-propylamine	ug/kg	<184	2030	2030	1720	1660	85	82	30-147	3	30	
N-Nitrosodimethylamine	ug/kg	<49.3	2030	2030	1610	1500	79	74	30-125	7	30	
N-Nitrosodiphenylamine	ug/kg	<26.0	2030	2030	1860	1870	92	92	30-150	1	30	
Naphthalene	ug/kg	<30.9	2030	2030	1690	1610	83	79	44-125	5	30	
Nitrobenzene	ug/kg	<44.2	2030	2030	1680	1580	83	78	30-136	7	30	
Pentachlorophenol	ug/kg	<235	2030	2030	1440	1490	71	74	30-150	4	30	
Phenanthrene	ug/kg	59.4J	2030	2030	1840	1860	88	89	30-150	1	30	
Phenol	ug/kg	<26.3	2030	2030	1630	1570	80	78	30-129	3	30	
Pyrene	ug/kg	164J	2030	2030	1920	1930	87	87	30-150	0	30	
2,4,6-Tribromophenol (S)	%						76	84	60-125			
2-Fluorobiphenyl (S)	%						57	69	30-132			
2-Fluorophenol (S)	%						65	68	40-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3139848		3139849		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrobenzene-d5 (S)	%.					66	71	43-125			
p-Terphenyl-d14 (S)	%.					74	82	62-125			
Phenol-d6 (S)	%.					68	72	48-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579832

Analysis Method: EPA 8270D

QC Batch Method: EPA 3550

Analysis Description: 8270D Solid MSSV

Associated Lab Samples: 10457121005

METHOD BLANK: 3145196

Matrix: Solid

Associated Lab Samples: 10457121005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<36.2	330	36.2	12/13/18 16:37	
1,2-Dichlorobenzene	ug/kg	<34.6	330	34.6	12/13/18 16:37	
1,2-Diphenylhydrazine	ug/kg	<40.5	330	40.5	12/13/18 16:37	
1,3-Dichlorobenzene	ug/kg	<22.6	330	22.6	12/13/18 16:37	
1,4-Dichlorobenzene	ug/kg	<36.7	330	36.7	12/13/18 16:37	
1-Methylnaphthalene	ug/kg	<30.5	330	30.5	12/13/18 16:37	
2,4,5-Trichlorophenol	ug/kg	<42.5	330	42.5	12/13/18 16:37	
2,4,6-Trichlorophenol	ug/kg	<51.1	330	51.1	12/13/18 16:37	
2,4-Dichlorophenol	ug/kg	<55.1	330	55.1	12/13/18 16:37	
2,4-Dimethylphenol	ug/kg	<129	330	129	12/13/18 16:37	
2,4-Dinitrophenol	ug/kg	<154	330	154	12/13/18 16:37	
2,4-Dinitrotoluene	ug/kg	<42.0	330	42.0	12/13/18 16:37	
2,6-Dinitrotoluene	ug/kg	<43.7	330	43.7	12/13/18 16:37	
2-Chloronaphthalene	ug/kg	<29.2	330	29.2	12/13/18 16:37	
2-Chlorophenol	ug/kg	<37.6	330	37.6	12/13/18 16:37	
2-Methylnaphthalene	ug/kg	<29.8	330	29.8	12/13/18 16:37	
2-Methylphenol(o-Cresol)	ug/kg	<20.6	330	20.6	12/13/18 16:37	
2-Nitroaniline	ug/kg	<82.8	330	82.8	12/13/18 16:37	
2-Nitrophenol	ug/kg	<40.2	330	40.2	12/13/18 16:37	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.6	660	18.6	12/13/18 16:37	
3,3'-Dichlorobenzidine	ug/kg	<111	330	111	12/13/18 16:37	
3-Nitroaniline	ug/kg	<36.0	330	36.0	12/13/18 16:37	
4,6-Dinitro-2-methylphenol	ug/kg	<327	1700	327	12/13/18 16:37	
4-Bromophenylphenyl ether	ug/kg	<39.3	330	39.3	12/13/18 16:37	
4-Chloro-3-methylphenol	ug/kg	<52.8	330	52.8	12/13/18 16:37	
4-Chloroaniline	ug/kg	<87.9	330	87.9	12/13/18 16:37	
4-Chlorophenylphenyl ether	ug/kg	<40.9	330	40.9	12/13/18 16:37	
4-Nitroaniline	ug/kg	<48.2	330	48.2	12/13/18 16:37	
4-Nitrophenol	ug/kg	<64.0	330	64.0	12/13/18 16:37	
Acenaphthene	ug/kg	<35.2	330	35.2	12/13/18 16:37	
Acenaphthylene	ug/kg	<42.1	330	42.1	12/13/18 16:37	
Anthracene	ug/kg	<38.7	330	38.7	12/13/18 16:37	
Benzo(a)anthracene	ug/kg	<33.9	330	33.9	12/13/18 16:37	
Benzo(a)pyrene	ug/kg	<37.4	330	37.4	12/13/18 16:37	
Benzo(b)fluoranthene	ug/kg	<32.3	330	32.3	12/13/18 16:37	
Benzo(g,h,i)perylene	ug/kg	<35.3	330	35.3	12/13/18 16:37	
Benzo(k)fluoranthene	ug/kg	<41.2	330	41.2	12/13/18 16:37	
bis(2-Chloroethoxy)methane	ug/kg	<33.8	330	33.8	12/13/18 16:37	
bis(2-Chloroethyl) ether	ug/kg	<26.1	330	26.1	12/13/18 16:37	
bis(2-Chloroisopropyl) ether	ug/kg	<34.0	330	34.0	12/13/18 16:37	
bis(2-Ethylhexyl)phthalate	ug/kg	<68.8	330	68.8	12/13/18 16:37	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

METHOD BLANK: 3145196

Matrix: Solid

Associated Lab Samples: 10457121005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	<30.2	330	30.2	12/13/18 16:37	
Carbazole	ug/kg	<27.4	330	27.4	12/13/18 16:37	
Chrysene	ug/kg	<34.8	330	34.8	12/13/18 16:37	
Di-n-butylphthalate	ug/kg	<45.2	330	45.2	12/13/18 16:37	
Di-n-octylphthalate	ug/kg	<38.3	330	38.3	12/13/18 16:37	
Dibenz(a,h)anthracene	ug/kg	<35.1	330	35.1	12/13/18 16:37	
Dibenzofuran	ug/kg	<41.8	330	41.8	12/13/18 16:37	
Diethylphthalate	ug/kg	<29.4	330	29.4	12/13/18 16:37	
Dimethylphthalate	ug/kg	<44.8	330	44.8	12/13/18 16:37	
Fluoranthene	ug/kg	<37.9	330	37.9	12/13/18 16:37	
Fluorene	ug/kg	<151	330	151	12/13/18 16:37	
Hexachloro-1,3-butadiene	ug/kg	<50.2	330	50.2	12/13/18 16:37	
Hexachlorobenzene	ug/kg	<53.8	330	53.8	12/13/18 16:37	
Hexachloroethane	ug/kg	<42.9	330	42.9	12/13/18 16:37	
Indeno(1,2,3-cd)pyrene	ug/kg	<19.9	330	19.9	12/13/18 16:37	
Isophorone	ug/kg	<25.4	330	25.4	12/13/18 16:37	
N-Nitroso-di-n-propylamine	ug/kg	<151	330	151	12/13/18 16:37	
N-Nitrosodimethylamine	ug/kg	<40.5	330	40.5	12/13/18 16:37	
N-Nitrosodiphenylamine	ug/kg	<21.4	330	21.4	12/13/18 16:37	
Naphthalene	ug/kg	<25.4	330	25.4	12/13/18 16:37	
Nitrobenzene	ug/kg	<36.3	330	36.3	12/13/18 16:37	
Pentachlorophenol	ug/kg	<193	670	193	12/13/18 16:37	
Phenanthrene	ug/kg	<38.4	330	38.4	12/13/18 16:37	
Phenol	ug/kg	<21.6	330	21.6	12/13/18 16:37	
Pyrene	ug/kg	<25.1	330	25.1	12/13/18 16:37	
2,4,6-Tribromophenol (S)	%	57	60-125		12/13/18 16:37	S0
2-Fluorobiphenyl (S)	%	53	30-132		12/13/18 16:37	
2-Fluorophenol (S)	%	52	40-125		12/13/18 16:37	
Nitrobenzene-d5 (S)	%	56	43-125		12/13/18 16:37	
p-Terphenyl-d14 (S)	%	79	62-125		12/13/18 16:37	
Phenol-d6 (S)	%	52	48-125		12/13/18 16:37	

LABORATORY CONTROL SAMPLE: 3145197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1210	73	46-125	
1,2-Dichlorobenzene	ug/kg	1670	1170	70	41-125	
1,2-Diphenylhydrazine	ug/kg	1670	1450	87	63-125	
1,3-Dichlorobenzene	ug/kg	1670	1160	70	38-125	
1,4-Dichlorobenzene	ug/kg	1670	1180	71	39-125	
1-Methylnaphthalene	ug/kg	1670	1310	78	56-125	
2,4,5-Trichlorophenol	ug/kg	1670	1430	86	63-125	
2,4,6-Trichlorophenol	ug/kg	1670	1430	86	61-125	
2,4-Dichlorophenol	ug/kg	1670	1350	81	57-125	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/kg	1670	1150	69	51-125	
2,4-Dinitrophenol	ug/kg	1670	925	56	30-132	
2,4-Dinitrotoluene	ug/kg	1670	1460	87	62-125	
2,6-Dinitrotoluene	ug/kg	1670	1430	86	63-125	
2-Chloronaphthalene	ug/kg	1670	1370	82	61-125	
2-Chlorophenol	ug/kg	1670	1200	72	46-125	
2-Methylnaphthalene	ug/kg	1670	1300	78	55-125	
2-Methylphenol(o-Cresol)	ug/kg	1670	1210	72	50-125	
2-Nitroaniline	ug/kg	1670	1410	84	61-125	
2-Nitrophenol	ug/kg	1670	1250	75	43-125	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1280	77	54-125	
3,3'-Dichlorobenzidine	ug/kg	1670	1140	69	47-125	
3-Nitroaniline	ug/kg	1670	897	54	57-125	L2
4,6-Dinitro-2-methylphenol	ug/kg	1670	1070J	64	30-141	
4-Bromophenylphenyl ether	ug/kg	1670	1390	83	63-125	
4-Chloro-3-methylphenol	ug/kg	1670	1400	84	64-125	
4-Chloroaniline	ug/kg	1670	660	40	36-125	
4-Chlorophenylphenyl ether	ug/kg	1670	1420	85	64-125	
4-Nitroaniline	ug/kg	1670	1270	76	59-125	
4-Nitrophenol	ug/kg	1670	1450	87	54-125	
Acenaphthene	ug/kg	1670	1360	82	62-125	
Acenaphthylene	ug/kg	1670	1420	85	61-125	
Anthracene	ug/kg	1670	1430	86	66-125	
Benzo(a)anthracene	ug/kg	1670	1460	88	69-125	
Benzo(a)pyrene	ug/kg	1670	1460	88	67-125	
Benzo(b)fluoranthene	ug/kg	1670	1490	90	67-125	
Benzo(g,h,i)perylene	ug/kg	1670	1470	88	63-125	
Benzo(k)fluoranthene	ug/kg	1670	1500	90	68-125	
bis(2-Chloroethoxy)methane	ug/kg	1670	1290	77	52-125	
bis(2-Chloroethyl) ether	ug/kg	1670	1180	71	41-125	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1140	68	37-125	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1530	92	69-131	
Butylbenzylphthalate	ug/kg	1670	1520	91	69-129	
Carbazole	ug/kg	1670	1460	88	66-125	
Chrysene	ug/kg	1670	1460	88	68-125	
Di-n-butylphthalate	ug/kg	1670	1540	93	69-125	
Di-n-octylphthalate	ug/kg	1670	1540	92	69-133	
Dibenz(a,h)anthracene	ug/kg	1670	1460	87	64-125	
Dibenzofuran	ug/kg	1670	1400	84	65-125	
Diethylphthalate	ug/kg	1670	1480	89	67-125	
Dimethylphthalate	ug/kg	1670	1420	85	67-125	
Fluoranthene	ug/kg	1670	1470	88	66-125	
Fluorene	ug/kg	1670	1420	85	66-125	
Hexachloro-1,3-butadiene	ug/kg	1670	1180	71	40-125	
Hexachlorobenzene	ug/kg	1670	1390	83	62-125	
Hexachloroethane	ug/kg	1670	1130	68	33-125	
Indeno(1,2,3-cd)pyrene	ug/kg	1670	1470	88	64-125	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

LABORATORY CONTROL SAMPLE: 3145197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/kg	1670	1310	79	57-125	
N-Nitroso-di-n-propylamine	ug/kg	1670	1220	73	50-125	
N-Nitrosodimethylamine	ug/kg	1670	1200	72	36-125	
N-Nitrosodiphenylamine	ug/kg	1670	1440	87	65-125	
Naphthalene	ug/kg	1670	1240	74	48-125	
Nitrobenzene	ug/kg	1670	1240	75	48-125	
Pentachlorophenol	ug/kg	1670	1230	74	41-125	
Phenanthrene	ug/kg	1670	1460	87	66-125	
Phenol	ug/kg	1670	1230	74	46-125	
Pyrene	ug/kg	1670	1450	87	69-125	
2,4,6-Tribromophenol (S)	%			79	60-125	
2-Fluorobiphenyl (S)	%			76	30-132	
2-Fluorophenol (S)	%			69	40-125	
Nitrobenzene-d5 (S)	%			68	43-125	
p-Terphenyl-d14 (S)	%			79	62-125	
Phenol-d6 (S)	%			69	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145198 3145199

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457121005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	<42.9	1980	1980	1510	1340	76	68	30-127	12	30	
1,2-Dichlorobenzene	ug/kg	<41.0	1980	1980	1450	1300	73	66	30-125	11	30	
1,2-Diphenylhydrazine	ug/kg	<48.0	1980	1980	1670	1530	84	78	30-150	9	30	
1,3-Dichlorobenzene	ug/kg	<26.8	1980	1980	1430	1290	72	66	30-125	10	30	
1,4-Dichlorobenzene	ug/kg	<43.5	1980	1980	1450	1330	73	67	30-125	8	30	
1-Methylnaphthalene	ug/kg	<36.1	1980	1980	1610	1440	82	73	42-125	12	30	
2,4,5-Trichlorophenol	ug/kg	<50.3	1980	1980	1720	1550	87	78	30-150	10	30	
2,4,6-Trichlorophenol	ug/kg	<60.5	1980	1980	1700	1520	86	77	30-150	11	30	
2,4-Dichlorophenol	ug/kg	<65.3	1980	1980	1620	1460	82	74	30-135	10	30	
2,4-Dimethylphenol	ug/kg	<153	1980	1980	1180	1070	60	54	30-148	10	30	
2,4-Dinitrophenol	ug/kg	<182	1980	1980	783	731	40	37	30-125	7	30	
2,4-Dinitrotoluene	ug/kg	<49.8	1980	1980	1670	1540	84	78	30-150	8	30	
2,6-Dinitrotoluene	ug/kg	<51.8	1980	1980	1660	1530	84	78	30-150	8	30	
2-Chloronaphthalene	ug/kg	<34.6	1980	1980	1650	1460	83	74	30-138	12	30	
2-Chlorophenol	ug/kg	<44.5	1980	1980	1480	1300	75	66	30-130	13	30	
2-Methylnaphthalene	ug/kg	<35.3	1980	1980	1600	1410	81	72	46-125	13	30	
2-Methylphenol(o-Cresol)	ug/kg	<24.4	1980	1980	1500	1300	76	66	30-133	14	30	
2-Nitroaniline	ug/kg	<98.1	1980	1980	1650	1500	83	76	30-150	9	30	
2-Nitrophenol	ug/kg	<47.6	1980	1980	1550	1380	78	70	30-134	11	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	<22.0	1980	1980	1530	1360	77	69	30-138	12	30	
3,3'-Dichlorobenzidine	ug/kg	<131	1980	1980	1330	1270	67	64	30-149	5	30	
3-Nitroaniline	ug/kg	<42.6	1980	1980	1100	1030	55	52	30-150	6	30	
4,6-Dinitro-2-methylphenol	ug/kg	<387	1980	1980	945J	884J	48	45	30-133		30	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3145198		3145199									
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		10457121005	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
4-Bromophenylphenyl ether	ug/kg	<46.6	1980	1980	1680	1560	85	79	44-125	8	30		
4-Chloro-3-methylphenol	ug/kg	<62.5	1980	1980	1680	1540	85	78	30-150	9	30		
4-Chloroaniline	ug/kg	<104	1980	1980	658	707	33	36	30-125	7	30		
4-Chlorophenylphenyl ether	ug/kg	<48.5	1980	1980	1670	1520	84	77	44-125	10	30		
4-Nitroaniline	ug/kg	<57.1	1980	1980	1500	1360	76	69	30-150	10	30		
4-Nitrophenol	ug/kg	<75.8	1980	1980	1690	1520	85	77	30-150	11	30		
Acenaphthene	ug/kg	<41.7	1980	1980	1620	1440	82	73	40-125	12	30		
Acenaphthylene	ug/kg	<49.9	1980	1980	1690	1490	85	75	30-150	13	30		
Anthracene	ug/kg	<45.8	1980	1980	1820	1590	91	79	30-150	13	30		
Benzo(a)anthracene	ug/kg	164J	1980	1980	2420	1730	114	79	30-150	33	30	R1	
Benzo(a)pyrene	ug/kg	182J	1980	1980	2510	1820	117	83	30-150	32	30	R1	
Benzo(b)fluoranthene	ug/kg	195J	1980	1980	2470	1810	115	82	30-150	30	30		
Benzo(g,h,i)perylene	ug/kg	118J	1980	1980	2370	1830	114	87	30-150	26	30		
Benzo(k)fluoranthene	ug/kg	75.8J	1980	1980	2170	1780	106	87	30-150	20	30		
bis(2-Chloroethoxy)methane	ug/kg	<40.0	1980	1980	1560	1390	79	71	30-134	12	30		
bis(2-Chloroethyl) ether	ug/kg	<30.9	1980	1980	1420	1280	72	65	30-125	11	30		
bis(2-Chloroisopropyl) ether	ug/kg	<40.3	1980	1980	1390	1240	70	63	30-125	11	30		
bis(2-Ethylhexyl)phthalate	ug/kg	<81.5	1980	1980	1830	1670	93	85	30-150	9	30		
Butylbenzylphthalate	ug/kg	<35.8	1980	1980	1820	1660	92	84	30-150	9	30		
Carbazole	ug/kg	<32.5	1980	1980	1720	1590	87	81	41-125	8	30		
Chrysene	ug/kg	159J	1980	1980	2470	1750	117	81	30-150	34	30	R1	
Di-n-butylphthalate	ug/kg	<53.5	1980	1980	1820	1690	92	86	30-150	7	30		
Di-n-octylphthalate	ug/kg	<45.4	1980	1980	1810	1690	91	86	30-150	6	30		
Dibenz(a,h)anthracene	ug/kg	<41.6	1980	1980	1870	1690	95	85	30-150	10	30		
Dibenzofuran	ug/kg	<49.5	1980	1980	1670	1500	84	76	45-125	11	30		
Diethylphthalate	ug/kg	<34.8	1980	1980	1720	1560	87	79	30-150	10	30		
Dimethylphthalate	ug/kg	<53.1	1980	1980	1680	1540	85	78	30-150	9	30		
Fluoranthene	ug/kg	272J	1980	1980	3020	1880	139	82	30-150	46	30	R1	
Fluorene	ug/kg	<179	1980	1980	1670	1510	84	76	30-150	10	30		
Hexachloro-1,3-butadiene	ug/kg	<59.5	1980	1980	1490	1340	75	68	30-128	11	30		
Hexachlorobenzene	ug/kg	<63.7	1980	1980	1610	1480	82	75	30-150	8	30		
Hexachloroethane	ug/kg	<50.8	1980	1980	1380	1240	70	63	30-125	10	30		
Indeno(1,2,3-cd)pyrene	ug/kg	102J	1980	1980	2240	1800	108	86	30-150	22	30		
Isophorone	ug/kg	<30.1	1980	1980	1580	1390	80	70	30-140	13	30		
N-Nitroso-di-n-propylamine	ug/kg	<179	1980	1980	1490	1330	75	67	30-147	11	30		
N-Nitrosodimethylamine	ug/kg	<48.0	1980	1980	1440	1290	73	65	30-125	11	30		
N-Nitrosodiphenylamine	ug/kg	<25.4	1980	1980	1670	1550	84	79	30-150	7	30		
Naphthalene	ug/kg	<30.1	1980	1980	1550	1370	78	70	44-125	12	30		
Nitrobenzene	ug/kg	<43.0	1980	1980	1510	1330	76	68	30-136	12	30		
Pentachlorophenol	ug/kg	<229	1980	1980	1450	1380	73	70	30-150	5	30		
Phenanthrene	ug/kg	46.3J	1980	1980	1880	1630	93	80	30-150	14	30		
Phenol	ug/kg	<25.6	1980	1980	1500	1320	76	67	30-129	13	30		
Pyrene	ug/kg	305J	1980	1980	3170	1890	145	80	30-150	51	30	R1	
2,4,6-Tribromophenol (S)	%						77	72	60-125				
2-Fluorobiphenyl (S)	%						76	69	30-132				
2-Fluorophenol (S)	%						69	64	40-125				

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Units	3145198		3145199		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrobenzene-d5 (S)	%.					70	64	43-125			
p-Terphenyl-d14 (S)	%.					77	73	62-125			
Phenol-d6 (S)	%.					71	64	48-125			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578581 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004

METHOD BLANK: 3138313 Matrix: Solid  
 Associated Lab Samples: 10457121001, 10457121002, 10457121003, 10457121004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/10/18 16:02	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/10/18 16:02	
n-Triacontane (S)	%.	87	50-150		12/10/18 16:02	
o-Terphenyl (S)	%.	84	50-150		12/10/18 16:02	

LABORATORY CONTROL SAMPLE: 3138314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	53.2	106	50-150	
Motor Oil Range	mg/kg	50	50.0	100	50-150	
n-Triacontane (S)	%.			104	50-150	
o-Terphenyl (S)	%.			99	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3138315 3138316

Parameter	Units	10457092041		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	Spike Conc.	Result	MSD Result	% Rec	% Rec				
Diesel Fuel Range	mg/kg	25.9	58.8	59.8	163	148	233	204	50-150	10	30	M1
Motor Oil Range	mg/kg	34.7	58.8	59.8	144	137	186	172	50-150	5	30	M1
n-Triacontane (S)	%.						98	94	50-150			
o-Terphenyl (S)	%.						103	103	50-150			

SAMPLE DUPLICATE: 3138317

Parameter	Units	10457092051 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	11.6J	<2.9		30	
Motor Oil Range	mg/kg	20.4	<5.2		30	
n-Triacontane (S)	%.	83	86	3		
o-Terphenyl (S)	%.	81	85	4		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 578827 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS  
 Associated Lab Samples: 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011,  
 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018,  
 10457121019, 10457121020, 10457121021

METHOD BLANK: 3139341 Matrix: Solid  
 Associated Lab Samples: 10457121005, 10457121006, 10457121007, 10457121008, 10457121009, 10457121010, 10457121011,  
 10457121012, 10457121013, 10457121014, 10457121015, 10457121016, 10457121017, 10457121018,  
 10457121019, 10457121020, 10457121021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/12/18 13:34	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/12/18 13:34	
n-Triacontane (S)	%	113	50-150		12/12/18 13:34	
o-Terphenyl (S)	%	103	50-150		12/12/18 13:34	

LABORATORY CONTROL SAMPLE: 3139342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	54.1	108	50-150	
Motor Oil Range	mg/kg	50	51.7	103	50-150	
n-Triacontane (S)	%			105	50-150	
o-Terphenyl (S)	%			99	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3139343 3139344

Parameter	Units	10457121005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel Range	mg/kg	5.6J	59	59.2	76.1	72.9	120	114	50-150	4	30	
Motor Oil Range	mg/kg	19.1	59	59.2	98.8	91.7	135	123	50-150	8	30	
n-Triacontane (S)	%						101	105	50-150			
o-Terphenyl (S)	%						100	99	50-150			

SAMPLE DUPLICATE: 3139345

Parameter	Units	10457121013 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	14.2J	28.2		30	
Motor Oil Range	mg/kg	85.4	203	81	30 D6	
n-Triacontane (S)	%	102	101	2		
o-Terphenyl (S)	%	101	101	1		

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

QC Batch: 579115

Analysis Method: NWTPH-Dx

QC Batch Method: EPA 3550

Analysis Description: NWTPH-Dx GCS

Associated Lab Samples: 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

METHOD BLANK: 3140940

Matrix: Solid

Associated Lab Samples: 10457121022, 10457121023, 10457121024, 10457121025, 10457121026, 10457121027, 10457121028, 10457121029, 10457121030, 10457121031, 10457121032, 10457121033, 10457121034, 10457121035, 10457121036, 10457121037, 10457121038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/13/18 10:03	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/13/18 10:03	
n-Triacontane (S)	%	96	50-150		12/13/18 10:03	
o-Terphenyl (S)	%	92	50-150		12/13/18 10:03	

LABORATORY CONTROL SAMPLE: 3140941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	52.1	104	50-150	
Motor Oil Range	mg/kg	50	52.0	104	50-150	
n-Triacontane (S)	%			99	50-150	
o-Terphenyl (S)	%			92	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3140942 3140943

Parameter	Units	10457121022		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Diesel Fuel Range	mg/kg	334J	61.1	61.7	255J	131J	-130	-330	50-150		30	M6	
Motor Oil Range	mg/kg	525	61.1	61.7	386	198J	-227	-530	50-150		30	M6	
n-Triacontane (S)	%						0	0	50-150			S4	
o-Terphenyl (S)	%						0	0	50-150			S4	

SAMPLE DUPLICATE: 3140944

Parameter	Units	10457121032 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/kg	<3.0	<3.0		30	
Motor Oil Range	mg/kg	<5.4	<5.4		30	
n-Triacontane (S)	%	98	95	4		
o-Terphenyl (S)	%	94	87	9		

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## QUALIFIERS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 579699

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 592251

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 592440

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 592690

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1M Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

2M Sample was light brown in color.

3M Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

4M Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

5M Sample was yellow in color.

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

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### ANALYTE QUALIFIERS

D4	Sample was diluted due to the presence of high levels of target analytes.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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### METHOD CROSS REFERENCE TABLE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV 5030 Med Level	Solid	SW-846 8260B	SW-846 5030B
8260B MSV 5035 Low Level	Solid	SW-846 8260B	SW-846 5035A/5030B

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121001	TP-1 (2)	EPA 3550	578983	EPA 8081B	579953
10457121002	TP-1 (5)	EPA 3550	578983	EPA 8081B	579953
10457121003	TP-2 (3)	EPA 3550	578983	EPA 8081B	579953
10457121004	TP-2 (6)	EPA 3550	578983	EPA 8081B	579953
10457121005	TP-3 (3)	EPA 3550	578983	EPA 8081B	579953
10457121006	TP-3 (6)	EPA 3550	578983	EPA 8081B	579953
10457121007	TP-4 (3)	EPA 3550	578983	EPA 8081B	579953
10457121008	TP-4 (6)	EPA 3550	578983	EPA 8081B	579953
10457121009	TP-5 (3)	EPA 3550	578983	EPA 8081B	579953
10457121010	TP-5 (6)	EPA 3550	578983	EPA 8081B	579953
10457121011	TP-6 (2)	EPA 3550	578983	EPA 8081B	579953
10457121012	TP-6 (5)	EPA 3550	578983	EPA 8081B	579953
10457121013	TP-7 (2)	EPA 3550	578983	EPA 8081B	579953
10457121014	TP-7 (5)	EPA 3550	578983	EPA 8081B	579953
10457121015	TP-8 (7)	EPA 3550	578983	EPA 8081B	579953
10457121016	TP-9 (6)	EPA 3550	578983	EPA 8081B	579953
10457121017	TP-9 (8)	EPA 3550	578983	EPA 8081B	579953
10457121018	TP-10 (3)	EPA 3550	578983	EPA 8081B	579953
10457121019	TP-10 (7)	EPA 3550	578983	EPA 8081B	579953
10457121020	TP-11 (3)	EPA 3550	579116	EPA 8081B	580274
10457121021	TP-11 (6)	EPA 3550	579116	EPA 8081B	580274
10457121022	TP-12 (2)	EPA 3550	579116	EPA 8081B	580274
10457121023	TP-12 (5)	EPA 3550	579116	EPA 8081B	580274
10457121024	TP-13 (2)	EPA 3550	579116	EPA 8081B	580274
10457121025	TP-13 (5)	EPA 3550	579116	EPA 8081B	580274
10457121026	TP-14 (3)	EPA 3550	579116	EPA 8081B	580274
10457121027	TP-14 (6)	EPA 3550	579116	EPA 8081B	580274
10457121028	TP-15 (3)	EPA 3550	579116	EPA 8081B	580274
10457121029	TP-15 (8)	EPA 3550	579116	EPA 8081B	580274
10457121030	TP-16 (2)	EPA 3550	579116	EPA 8081B	580274
10457121031	TP-16 (8)	EPA 3550	579116	EPA 8081B	580274
10457121032	TP-17 (3)	EPA 3550	579116	EPA 8081B	580274
10457121033	TP-17 (6)	EPA 3550	579116	EPA 8081B	580274
10457121034	TP-18 (3)	EPA 3550	579116	EPA 8081B	580274
10457121035	TP-18 (6)	EPA 3550	579116	EPA 8081B	580274
10457121036	TP-19 (2)	EPA 3550	579116	EPA 8081B	580274
10457121037	TP-19 (5)	EPA 3550	579116	EPA 8081B	580274
10457121038	TP-19 (8)	EPA 3550	579116	EPA 8081B	580274
10457121001	TP-1 (2)	EPA 3550	578982	EPA 8082A	579368
10457121002	TP-1 (5)	EPA 3550	578982	EPA 8082A	579368
10457121003	TP-2 (3)	EPA 3550	578982	EPA 8082A	579368
10457121004	TP-2 (6)	EPA 3550	578982	EPA 8082A	579368
10457121005	TP-3 (3)	EPA 3550	578982	EPA 8082A	579368
10457121006	TP-3 (6)	EPA 3550	578982	EPA 8082A	579368
10457121007	TP-4 (3)	EPA 3550	578982	EPA 8082A	579368
10457121008	TP-4 (6)	EPA 3550	578982	EPA 8082A	579368
10457121009	TP-5 (3)	EPA 3550	578982	EPA 8082A	579368
10457121010	TP-5 (6)	EPA 3550	578982	EPA 8082A	579368

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10457121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121011	TP-6 (2)	EPA 3550	578982	EPA 8082A	579368
10457121012	TP-6 (5)	EPA 3550	578982	EPA 8082A	579368
10457121013	TP-7 (2)	EPA 3550	578982	EPA 8082A	579368
10457121014	TP-7 (5)	EPA 3550	578982	EPA 8082A	579368
10457121015	TP-8 (7)	EPA 3550	578982	EPA 8082A	579368
10457121016	TP-9 (6)	EPA 3550	578982	EPA 8082A	579368
10457121017	TP-9 (8)	EPA 3550	578982	EPA 8082A	579368
10457121018	TP-10 (3)	EPA 3550	578982	EPA 8082A	579368
10457121019	TP-10 (7)	EPA 3550	578982	EPA 8082A	579368
10457121020	TP-11 (3)	EPA 3550	578984	EPA 8082A	579645
10457121021	TP-11 (6)	EPA 3550	578984	EPA 8082A	579645
10457121022	TP-12 (2)	EPA 3550	578984	EPA 8082A	579645
10457121023	TP-12 (5)	EPA 3550	578984	EPA 8082A	579645
10457121024	TP-13 (2)	EPA 3550	578984	EPA 8082A	579645
10457121025	TP-13 (5)	EPA 3550	578984	EPA 8082A	579645
10457121026	TP-14 (3)	EPA 3550	578984	EPA 8082A	579645
10457121027	TP-14 (6)	EPA 3550	578984	EPA 8082A	579645
10457121028	TP-15 (3)	EPA 3550	578984	EPA 8082A	579645
10457121029	TP-15 (8)	EPA 3550	578984	EPA 8082A	579645
10457121030	TP-16 (2)	EPA 3550	578984	EPA 8082A	579645
10457121031	TP-16 (8)	EPA 3550	578984	EPA 8082A	579645
10457121032	TP-17 (3)	EPA 3550	578984	EPA 8082A	579645
10457121033	TP-17 (6)	EPA 3550	578984	EPA 8082A	579645
10457121034	TP-18 (3)	EPA 3550	578984	EPA 8082A	579645
10457121035	TP-18 (6)	EPA 3550	578984	EPA 8082A	579645
10457121036	TP-19 (2)	EPA 3550	578984	EPA 8082A	579645
10457121037	TP-19 (5)	EPA 3550	578984	EPA 8082A	579645
10457121038	TP-19 (8)	EPA 3550	578984	EPA 8082A	579645
10457121001	TP-1 (2)	EPA 3550	578581	NWTPH-Dx	580070
10457121002	TP-1 (5)	EPA 3550	578581	NWTPH-Dx	580070
10457121003	TP-2 (3)	EPA 3550	578581	NWTPH-Dx	580070
10457121004	TP-2 (6)	EPA 3550	578581	NWTPH-Dx	580070
10457121005	TP-3 (3)	EPA 3550	578827	NWTPH-Dx	580211
10457121006	TP-3 (6)	EPA 3550	578827	NWTPH-Dx	580211
10457121007	TP-4 (3)	EPA 3550	578827	NWTPH-Dx	580211
10457121008	TP-4 (6)	EPA 3550	578827	NWTPH-Dx	580211
10457121009	TP-5 (3)	EPA 3550	578827	NWTPH-Dx	580211
10457121010	TP-5 (6)	EPA 3550	578827	NWTPH-Dx	580211
10457121011	TP-6 (2)	EPA 3550	578827	NWTPH-Dx	580211
10457121012	TP-6 (5)	EPA 3550	578827	NWTPH-Dx	580211
10457121013	TP-7 (2)	EPA 3550	578827	NWTPH-Dx	580211
10457121014	TP-7 (5)	EPA 3550	578827	NWTPH-Dx	580211
10457121015	TP-8 (7)	EPA 3550	578827	NWTPH-Dx	580211
10457121016	TP-9 (6)	EPA 3550	578827	NWTPH-Dx	580211
10457121017	TP-9 (8)	EPA 3550	578827	NWTPH-Dx	580211
10457121018	TP-10 (3)	EPA 3550	578827	NWTPH-Dx	580211
10457121019	TP-10 (7)	EPA 3550	578827	NWTPH-Dx	580211

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121020	TP-11 (3)	EPA 3550	578827	NWTPH-Dx	580211
10457121021	TP-11 (6)	EPA 3550	578827	NWTPH-Dx	580211
10457121022	TP-12 (2)	EPA 3550	579115	NWTPH-Dx	580580
10457121023	TP-12 (5)	EPA 3550	579115	NWTPH-Dx	580580
10457121024	TP-13 (2)	EPA 3550	579115	NWTPH-Dx	580580
10457121025	TP-13 (5)	EPA 3550	579115	NWTPH-Dx	580580
10457121026	TP-14 (3)	EPA 3550	579115	NWTPH-Dx	580580
10457121027	TP-14 (6)	EPA 3550	579115	NWTPH-Dx	580580
10457121028	TP-15 (3)	EPA 3550	579115	NWTPH-Dx	580580
10457121029	TP-15 (8)	EPA 3550	579115	NWTPH-Dx	580580
10457121030	TP-16 (2)	EPA 3550	579115	NWTPH-Dx	580580
10457121031	TP-16 (8)	EPA 3550	579115	NWTPH-Dx	580580
10457121032	TP-17 (3)	EPA 3550	579115	NWTPH-Dx	580580
10457121033	TP-17 (6)	EPA 3550	579115	NWTPH-Dx	580580
10457121034	TP-18 (3)	EPA 3550	579115	NWTPH-Dx	580580
10457121035	TP-18 (6)	EPA 3550	579115	NWTPH-Dx	580580
10457121036	TP-19 (2)	EPA 3550	579115	NWTPH-Dx	580580
10457121037	TP-19 (5)	EPA 3550	579115	NWTPH-Dx	580580
10457121038	TP-19 (8)	EPA 3550	579115	NWTPH-Dx	580580
10457121001	TP-1 (2)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121002	TP-1 (5)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121003	TP-2 (3)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121004	TP-2 (6)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121005	TP-3 (3)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121006	TP-3 (6)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121007	TP-4 (3)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121008	TP-4 (6)	NWTPH-Gx	579273	NWTPH-Gx	579699
10457121009	TP-5 (3)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121010	TP-5 (6)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121011	TP-6 (2)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121012	TP-6 (5)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121013	TP-7 (2)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121014	TP-7 (5)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121015	TP-8 (7)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121016	TP-9 (6)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121017	TP-9 (8)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121018	TP-10 (3)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121019	TP-10 (7)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121020	TP-11 (3)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121021	TP-11 (6)	NWTPH-Gx	579855	NWTPH-Gx	580017
10457121022	TP-12 (2)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121023	TP-12 (5)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121024	TP-13 (2)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121025	TP-13 (5)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121026	TP-14 (3)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121027	TP-14 (6)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121028	TP-15 (3)	NWTPH-Gx	580025	NWTPH-Gx	580288

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121029	TP-15 (8)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121030	TP-16 (2)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121031	TP-16 (8)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121032	TP-17 (3)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121033	TP-17 (6)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121034	TP-18 (3)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121035	TP-18 (6)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121036	TP-19 (2)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121037	TP-19 (5)	NWTPH-Gx	580025	NWTPH-Gx	580288
10457121038	TP-19 (8)	NWTPH-Gx	580073	NWTPH-Gx	580290
10457121001	TP-1 (2)	EPA 3050	578650	EPA 6010D	579517
10457121002	TP-1 (5)	EPA 3050	578650	EPA 6010D	579517
10457121003	TP-2 (3)	EPA 3050	578650	EPA 6010D	579517
10457121004	TP-2 (6)	EPA 3050	578650	EPA 6010D	579517
10457121005	TP-3 (3)	EPA 3050	578650	EPA 6010D	579517
10457121006	TP-3 (6)	EPA 3050	578650	EPA 6010D	579517
10457121007	TP-4 (3)	EPA 3050	578650	EPA 6010D	579517
10457121008	TP-4 (6)	EPA 3050	578650	EPA 6010D	579517
10457121009	TP-5 (3)	EPA 3050	578650	EPA 6010D	579517
10457121010	TP-5 (6)	EPA 3050	578650	EPA 6010D	579517
10457121011	TP-6 (2)	EPA 3050	578650	EPA 6010D	579517
10457121012	TP-6 (5)	EPA 3050	578650	EPA 6010D	579517
10457121013	TP-7 (2)	EPA 3050	578650	EPA 6010D	579517
10457121014	TP-7 (5)	EPA 3050	578650	EPA 6010D	579517
10457121015	TP-8 (7)	EPA 3050	578650	EPA 6010D	579517
10457121016	TP-9 (6)	EPA 3050	578650	EPA 6010D	579517
10457121017	TP-9 (8)	EPA 3050	578650	EPA 6010D	579517
10457121018	TP-10 (3)	EPA 3050	578650	EPA 6010D	579517
10457121019	TP-10 (7)	EPA 3050	578650	EPA 6010D	579517
10457121020	TP-11 (3)	EPA 3050	578650	EPA 6010D	579517
10457121021	TP-11 (6)	EPA 3050	578651	EPA 6010D	579818
10457121022	TP-12 (2)	EPA 3050	578651	EPA 6010D	579818
10457121023	TP-12 (5)	EPA 3050	578651	EPA 6010D	579818
10457121024	TP-13 (2)	EPA 3050	578651	EPA 6010D	579818
10457121025	TP-13 (5)	EPA 3050	578651	EPA 6010D	579818
10457121026	TP-14 (3)	EPA 3050	578651	EPA 6010D	579818
10457121027	TP-14 (6)	EPA 3050	578651	EPA 6010D	579818
10457121028	TP-15 (3)	EPA 3050	578651	EPA 6010D	579818
10457121029	TP-15 (8)	EPA 3050	578651	EPA 6010D	579818
10457121030	TP-16 (2)	EPA 3050	578651	EPA 6010D	579818
10457121031	TP-16 (8)	EPA 3050	578651	EPA 6010D	579818
10457121032	TP-17 (3)	EPA 3050	578651	EPA 6010D	579818
10457121033	TP-17 (6)	EPA 3050	578651	EPA 6010D	579818
10457121034	TP-18 (3)	EPA 3050	578651	EPA 6010D	579818
10457121035	TP-18 (6)	EPA 3050	578651	EPA 6010D	579818
10457121036	TP-19 (2)	EPA 3050	578651	EPA 6010D	579818
10457121037	TP-19 (5)	EPA 3050	578651	EPA 6010D	579818

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121038	TP-19 (8)	EPA 3050	578651	EPA 6010D	579818
10457121001	TP-1 (2)	EPA 7471B	578656	EPA 7471B	579613
10457121002	TP-1 (5)	EPA 7471B	578656	EPA 7471B	579613
10457121003	TP-2 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121004	TP-2 (6)	EPA 7471B	578656	EPA 7471B	579613
10457121005	TP-3 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121006	TP-3 (6)	EPA 7471B	578656	EPA 7471B	579613
10457121007	TP-4 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121008	TP-4 (6)	EPA 7471B	578656	EPA 7471B	579613
10457121009	TP-5 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121010	TP-5 (6)	EPA 7471B	578656	EPA 7471B	579613
10457121011	TP-6 (2)	EPA 7471B	578656	EPA 7471B	579613
10457121012	TP-6 (5)	EPA 7471B	578656	EPA 7471B	579613
10457121013	TP-7 (2)	EPA 7471B	578656	EPA 7471B	579613
10457121014	TP-7 (5)	EPA 7471B	578656	EPA 7471B	579613
10457121015	TP-8 (7)	EPA 7471B	578656	EPA 7471B	579613
10457121016	TP-9 (6)	EPA 7471B	578656	EPA 7471B	579613
10457121017	TP-9 (8)	EPA 7471B	578656	EPA 7471B	579613
10457121018	TP-10 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121019	TP-10 (7)	EPA 7471B	578656	EPA 7471B	579613
10457121020	TP-11 (3)	EPA 7471B	578656	EPA 7471B	579613
10457121021	TP-11 (6)	EPA 7471B	578657	EPA 7471B	579668
10457121022	TP-12 (2)	EPA 7471B	578657	EPA 7471B	579668
10457121023	TP-12 (5)	EPA 7471B	578657	EPA 7471B	579668
10457121024	TP-13 (2)	EPA 7471B	578657	EPA 7471B	579668
10457121025	TP-13 (5)	EPA 7471B	578657	EPA 7471B	579668
10457121026	TP-14 (3)	EPA 7471B	578657	EPA 7471B	579668
10457121027	TP-14 (6)	EPA 7471B	578657	EPA 7471B	579668
10457121028	TP-15 (3)	EPA 7471B	578657	EPA 7471B	579668
10457121029	TP-15 (8)	EPA 7471B	578657	EPA 7471B	579668
10457121030	TP-16 (2)	EPA 7471B	578657	EPA 7471B	579668
10457121031	TP-16 (8)	EPA 7471B	578657	EPA 7471B	579668
10457121032	TP-17 (3)	EPA 7471B	578657	EPA 7471B	579668
10457121033	TP-17 (6)	EPA 7471B	578657	EPA 7471B	579668
10457121034	TP-18 (3)	EPA 7471B	578657	EPA 7471B	579668
10457121035	TP-18 (6)	EPA 7471B	578657	EPA 7471B	579668
10457121036	TP-19 (2)	EPA 7471B	578657	EPA 7471B	579668
10457121037	TP-19 (5)	EPA 7471B	578657	EPA 7471B	579668
10457121038	TP-19 (8)	EPA 7471B	578657	EPA 7471B	579668
10457121001	TP-1 (2)	ASTM D2974	580352		
10457121002	TP-1 (5)	ASTM D2974	580352		
10457121003	TP-2 (3)	ASTM D2974	580352		
10457121004	TP-2 (6)	ASTM D2974	580352		
10457121005	TP-3 (3)	ASTM D2974	580352		
10457121006	TP-3 (6)	ASTM D2974	580352		
10457121007	TP-4 (3)	ASTM D2974	580352		
10457121008	TP-4 (6)	ASTM D2974	580352		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121009	TP-5 (3)	ASTM D2974	580352		
10457121010	TP-5 (6)	ASTM D2974	580352		
10457121011	TP-6 (2)	ASTM D2974	580352		
10457121012	TP-6 (5)	ASTM D2974	580352		
10457121013	TP-7 (2)	ASTM D2974	580355		
10457121014	TP-7 (5)	ASTM D2974	580355		
10457121015	TP-8 (7)	ASTM D2974	580355		
10457121016	TP-9 (6)	ASTM D2974	580355		
10457121017	TP-9 (8)	ASTM D2974	580355		
10457121018	TP-10 (3)	ASTM D2974	580355		
10457121019	TP-10 (7)	ASTM D2974	580355		
10457121020	TP-11 (3)	ASTM D2974	580355		
10457121021	TP-11 (6)	ASTM D2974	580355		
10457121022	TP-12 (2)	ASTM D2974	580355		
10457121023	TP-12 (5)	ASTM D2974	580355		
10457121024	TP-13 (2)	ASTM D2974	580355		
10457121025	TP-13 (5)	ASTM D2974	580355		
10457121026	TP-14 (3)	ASTM D2974	580355		
10457121027	TP-14 (6)	ASTM D2974	580355		
10457121028	TP-15 (3)	ASTM D2974	580355		
10457121029	TP-15 (8)	ASTM D2974	580355		
10457121030	TP-16 (2)	ASTM D2974	580355		
10457121031	TP-16 (8)	ASTM D2974	580355		
10457121032	TP-17 (3)	ASTM D2974	580355		
10457121033	TP-17 (6)	ASTM D2974	580358		
10457121034	TP-18 (3)	ASTM D2974	580358		
10457121035	TP-18 (6)	ASTM D2974	580358		
10457121036	TP-19 (2)	ASTM D2974	580358		
10457121037	TP-19 (5)	ASTM D2974	580358		
10457121038	TP-19 (8)	ASTM D2974	580358		
10457121001	TP-1 (2)	EPA 3550	578582	EPA 8270D	578832
10457121002	TP-1 (5)	EPA 3550	578582	EPA 8270D	578832
10457121003	TP-2 (3)	EPA 3550	578582	EPA 8270D	578832
10457121004	TP-2 (6)	EPA 3550	578582	EPA 8270D	578832
10457121005	TP-3 (3)	EPA 3550	579832	EPA 8270D	580784
10457121006	TP-3 (6)	EPA 3550	578582	EPA 8270D	578832
10457121007	TP-4 (3)	EPA 3550	578582	EPA 8270D	578832
10457121008	TP-4 (6)	EPA 3550	578582	EPA 8270D	578832
10457121009	TP-5 (3)	EPA 3550	578582	EPA 8270D	578832
10457121010	TP-5 (6)	EPA 3550	578582	EPA 8270D	578832
10457121011	TP-6 (2)	EPA 3550	578582	EPA 8270D	578832
10457121012	TP-6 (5)	EPA 3550	578582	EPA 8270D	578832
10457121013	TP-7 (2)	EPA 3550	578582	EPA 8270D	578832
10457121014	TP-7 (5)	EPA 3550	578582	EPA 8270D	578832
10457121015	TP-8 (7)	EPA 3550	578582	EPA 8270D	578832
10457121016	TP-9 (6)	EPA 3550	578582	EPA 8270D	578832

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121017	TP-9 (8)	EPA 3550	578582	EPA 8270D	578832
10457121018	TP-10 (3)	EPA 3550	578582	EPA 8270D	578832
10457121019	TP-10 (7)	EPA 3550	578582	EPA 8270D	578832
10457121020	TP-11 (3)	EPA 3550	578582	EPA 8270D	578832
10457121021	TP-11 (6)	EPA 3550	578833	EPA 8270D	579090
10457121022	TP-12 (2)	EPA 3550	578833	EPA 8270D	579090
10457121023	TP-12 (5)	EPA 3550	578833	EPA 8270D	579090
10457121024	TP-13 (2)	EPA 3550	578833	EPA 8270D	579090
10457121025	TP-13 (5)	EPA 3550	578833	EPA 8270D	579090
10457121026	TP-14 (3)	EPA 3550	578833	EPA 8270D	579090
10457121027	TP-14 (6)	EPA 3550	578833	EPA 8270D	579090
10457121028	TP-15 (3)	EPA 3550	578833	EPA 8270D	579090
10457121029	TP-15 (8)	EPA 3550	578833	EPA 8270D	579090
10457121030	TP-16 (2)	EPA 3550	578833	EPA 8270D	579090
10457121031	TP-16 (8)	EPA 3550	578833	EPA 8270D	579090
10457121032	TP-17 (3)	EPA 3550	578833	EPA 8270D	579090
10457121033	TP-17 (6)	EPA 3550	578833	EPA 8270D	579090
10457121034	TP-18 (3)	EPA 3550	578833	EPA 8270D	579090
10457121035	TP-18 (6)	EPA 3550	578833	EPA 8270D	579090
10457121036	TP-19 (2)	EPA 3550	578883	EPA 8270D	580175
10457121037	TP-19 (5)	EPA 3550	578883	EPA 8270D	580175
10457121038	TP-19 (8)	EPA 3550	578883	EPA 8270D	580175
10457121001	TP-1 (2)	EPA 5035 Low	592201	EPA 8260B	592251
10457121002	TP-1 (5)	EPA 5035 Low	592201	EPA 8260B	592251
10457121003	TP-2 (3)	EPA 5035 Low	592201	EPA 8260B	592251
10457121004	TP-2 (6)	EPA 5035 Low	592201	EPA 8260B	592251
10457121005	TP-3 (3)	EPA 5035 Low	592201	EPA 8260B	592251
10457121006	TP-3 (6)	EPA 5035 Low	592201	EPA 8260B	592251
10457121007	TP-4 (3)	EPA 5035 Low	592201	EPA 8260B	592251
10457121008	TP-4 (6)	EPA 5035 Low	592201	EPA 8260B	592251
10457121009	TP-5 (3)	EPA 5035 Low	592201	EPA 8260B	592251
10457121010	TP-5 (6)	EPA 5035 Low	592201	EPA 8260B	592251
10457121011	TP-6 (2)	EPA 5035 Low	592201	EPA 8260B	592251
10457121012	TP-6 (5)	EPA 5035 Low	592201	EPA 8260B	592251
10457121013	TP-7 (2)	EPA 5035 Low	592201	EPA 8260B	592251
10457121014	TP-7 (5)	EPA 5035 Low	592201	EPA 8260B	592251
10457121015	TP-8 (7)	EPA 5035 Low	592201	EPA 8260B	592251
10457121016	TP-9 (6)	EPA 5035 Low	592201	EPA 8260B	592251
10457121017	TP-9 (8)	EPA 5035 Low	592382	EPA 8260B	592440
10457121018	TP-10 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121019	TP-10 (7)	EPA 5035 Low	592382	EPA 8260B	592440
10457121020	TP-11 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121021	TP-11 (6)	EPA 5035 Low	592382	EPA 8260B	592440
10457121022	TP-12 (2)	EPA 5035 Low	592382	EPA 8260B	592440
10457121023	TP-12 (5)	EPA 5035 Low	592382	EPA 8260B	592440
10457121024	TP-13 (2)	EPA 5035 Low	592382	EPA 8260B	592440
10457121025	TP-13 (5)	EPA 5035 Low	592382	EPA 8260B	592440

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121026	TP-14 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121027	TP-14 (6)	EPA 5035 Low	592382	EPA 8260B	592440
10457121028	TP-15 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121029	TP-15 (8)	EPA 5035 Low	592382	EPA 8260B	592440
10457121030	TP-16 (2)	EPA 5035 Low	592382	EPA 8260B	592440
10457121031	TP-16 (8)	EPA 5035 Low	592382	EPA 8260B	592440
10457121032	TP-17 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121033	TP-17 (6)	EPA 5035 Low	592382	EPA 8260B	592440
10457121034	TP-18 (3)	EPA 5035 Low	592382	EPA 8260B	592440
10457121035	TP-18 (6)	EPA 5035 Low	592382	EPA 8260B	592440
10457121036	TP-19 (2)	EPA 5035 Low	592382	EPA 8260B	592440
10457121037	TP-19 (5)	EPA 5035 Low	592666	EPA 8260B	592690
10457121038	TP-19 (8)	EPA 5035 Low	592666	EPA 8260B	592690
10457121001	TP-1 (2)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121002	TP-1 (5)	EPA 5035/5030B	579622	EPA 8260B	579650
10457121003	TP-2 (3)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121004	TP-2 (6)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121005	TP-3 (3)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121006	TP-3 (6)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121007	TP-4 (3)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121008	TP-4 (6)	EPA 5035/5030B	579279	EPA 8260B	579392
10457121009	TP-5 (3)	EPA 5035/5030B	579856	EPA 8260B	580010
10457121010	TP-5 (6)	EPA 5035/5030B	579856	EPA 8260B	580010
10457121011	TP-6 (2)	EPA 5035/5030B	579856	EPA 8260B	580010
10457121012	TP-6 (5)	EPA 5035/5030B	579856	EPA 8260B	580010
10457121013	TP-7 (2)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121014	TP-7 (5)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121015	TP-8 (7)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121016	TP-9 (6)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121017	TP-9 (8)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121018	TP-10 (3)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121019	TP-10 (7)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121020	TP-11 (3)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121021	TP-11 (6)	EPA 5035/5030B	579857	EPA 8260B	580011
10457121022	TP-12 (2)	EPA 5035/5030B	580108	EPA 8260B	580298
10457121023	TP-12 (5)	EPA 5035/5030B	580108	EPA 8260B	580298
10457121024	TP-13 (2)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121025	TP-13 (5)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121026	TP-14 (3)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121027	TP-14 (6)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121028	TP-15 (3)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121029	TP-15 (8)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121030	TP-16 (2)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121031	TP-16 (8)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121032	TP-17 (3)	EPA 5035/5030B	580299	EPA 8260B	580303

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10457121

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457121033	TP-17 (6)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121034	TP-18 (3)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121035	TP-18 (6)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121036	TP-19 (2)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121037	TP-19 (5)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121038	TP-19 (8)	EPA 5035/5030B	580299	EPA 8260B	580303
10457121039	Trip Blanks	EPA 5035/5030B	579279	EPA 8260B	579392

## REPORT OF LABORATORY ANALYSIS

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**NO# : 10457121**



**Section A**  
 Required Client Information:  
 Company: GeoEngineers  
 Address: 503 E. Second Ave  
Spokane, WA 99202  
 Email To: j.sugalski@geoengineers.com  
 Phone: 509-345-3725  
 Requested Due Date/TAT: STD

**Section B**  
 Required Project Information:  
 Report To: JR Sugalski  
 Copy To:  
 Purchase Order No.:  
 Project Name: Stubblefield  
 Project Number: 0504-139-00

**Section C**  
 Invoices Information:  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER Eroly-WA

Site Location: WA  
 STATE: WA

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	# OF CONTAINERS	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				COMPOSITE START	COMPOSITE END/GRAB											
1	TP-1(2)	DW	SL G	11/26	11/26	Unpreserved	10									
2	TP-2(5)	WT	SL G	1200		NaOH	10									
3	TP-2(3)	WW		1300		HCl	10									
4	TP-2(6)	P		1330		HNO3	10									
5	TP-3(3)	SL		1420		H2SO4	10									
6	TP-3(6)	OL		1440		Other	10									
7	TP-4(3)	WP		1520			10									
8	TP-4(6)	AR		1540			10									
9	TP-5(3)	TS		1000			10									
10	TP-5(6)	OT		1020			10									
11	TP-6(3)			1100			10									
12	TP-6(6)			1120			10									

**Requested Analysis Filtered (Y/N)**

**Requested Analysis Test**

**Temp in °C**

**DATE SIGNED** 11/29/17  
**SIGNATURE OF SAMPLER:** Josh Lee

**DATE SIGNED** 11/29/17  
**SIGNATURE OF SAMPLER:** [Signature]

**ORIGINAL**

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>Geo Engineers</u> Address: <u>523 East Second Ave</u> <u>Spokane, WA 99202</u> Email To: <u>jruss@geoengineers.com</u> Phone: <u>509-363-3205</u> Fax: Requested Due Date/TAT: <u>Std.</u>		<b>Section B</b> Required Project Information: Report To: <u>JR Syslab</u> Copy To: Purchase Order No.: Project Name: <u>Stubblefield</u> Project Number: <u>0504-139-00</u>		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:	
Page: <u>2</u> of <u>4</u> 2302139		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>Ecology-WA</u>		Site Location STATE: <u>WA</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END (GRAB)										
1	TP-9(2)	DW	SL	G		11/27	1140		11/27	1140	10					013
2	TP-7(5)	WT					1200									014
3	TP-8(7)	WW					1230									015
4	TP-9(6)	P					1300									016
5	TP-9(8)	SL					1320									017
6	TP-10(3)	OL					1420									018
7	TP-10(7)	WP					1440									019
8	TP-11(3)	AR					1520									020
9	TP-11(6)	TS					1540									021
10	TP-12(2)	OT				11/28	0820		11/28	0820						022
11	TP-12(5)						0840									023
12	TP-13(2)						0920									024

ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION: <u>PLUWA Pace</u> DATE: <u>11/30/18</u> TIME: <u>955</u>		ACCEPTED BY / AFFILIATION: <u>PLUWA Pace</u> DATE: <u>11/29/18</u> TIME:		SAMPLE CONDITIONS Received on Ice (Y/N): <u>Y</u> Sealed Cooler (Y/N): <u>Y</u> Custody (Y/N): <u>Y</u> Samples Intact (Y/N): <u>Y</u>	
Temp in °C: <u>1.0</u> <u>1.0</u> <u>2.2</u> <u>0.9</u> <u>3.9</u> <u>1.0</u>		Residual Chlorine (Y/N):		Pace Project No./ Lab I.D.:	

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Josh Lee

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 11/29/18

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4  
2302140

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <u>Geo Engineers</u>	Report To: <u>JR Snylich</u>	Attention:
Address: <u>503 East Second Ave</u>	Copy To:	Company Name:
<u>Spokane, WA 99202</u>	Purchase Order No.:	Address:
Email To: <u>jsnylich@geoengineers.com</u>	Project Name: <u>Stubble field</u>	Site Location: <u>WA</u>
Phone: <u>509-365-5145</u>	Project Number: <u>0504-139-00</u>	STATE:
Requested Due Date/TAT:		

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END					
		Drinking Water WT Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	(see valid codes to left)	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C
1	TP-13(5)		SL G	11/28	0940	10	Unpreserved	V	V	025
2	TP-14(3)				1000					026
3	TP-14(6)				1020					027
4	TP-15(3)				1120					028
5	TP-15(8)				1100					029
6	TP-16(2)				1220					030
7	TP-16(8)				1240					031
8	TP-17(3)				1300					032
9	TP-17(6)				1320					033
10	TP-18(3)				1350					034
11	TP-18(6)				1400					035
12	TP-19(2)				1440					036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	RECEIVED ON	Temp in °C	Samples Intact (Y/N)
				<u>MUT Pace</u>	<u>11/20/18</u>	<u>955</u>	<u>2.9</u>	<u>2.9</u>	<u>Y</u>
							<u>1.0</u>	<u>1.0</u>	<u>Y</u>
							<u>2.8</u>	<u>2.8</u>	<u>Y</u>
							<u>3.9</u>	<u>3.9</u>	<u>Y</u>
							<u>1.0</u>	<u>1.0</u>	<u>Y</u>

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Josh Lee  
SIGNATURE of SAMPLER: [Signature]  
DATE Signed (MM/DD/YYYY): 11/29/18

ORIGINAL



**Sample Condition Upon Receipt**      **Client Name:** Geo Engineers      **Project #:** **WO#: 10457121**

**Courier:**  Fed Ex     UPS     USPS     Client  
 Commercial     Pace     Speedee     Other: \_\_\_\_\_

**Tracking Number:** 4635 0193 9097/4756/8849/8870/8860/8892/8804

**PM:** JMG      **Due Date:** 12/07/18  
**CLIENT:** GeoEngineers

**Custody Seal on Cooler/Box Present?**  Yes     No      **Seals Intact?**  Yes     No

**Packing Material:**  Bubble Wrap     Bubble Bags     None     Other: PB      **Temp Blank?**  Yes     No

**Thermometer Used:**  G87A9170600254     G87A9155100842      **Type of Ice:**  Wet     Blue     None     Dry     Melted

**Cooler Temp Read (°C):** 2.9, 1.0, 0.4, 2.2, 0.8, 3.9, 1.0      **Cooler Temp Corrected (°C):** 3.9, 1.0, 2.2, 0.8      **Biological Tissue Frozen?**  Yes     No     N/A

**Temp should be above freezing to 6°C**      **Correction Factor:** true      **Date and Initials of Person Examining Contents:** M.D 11/30/18

**USDA Regulated Soil** (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes     No      Did samples originate from a foreign source (internationally including Hawaii and Puerto Rico)?  Yes     No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <u>SL</u>	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH    Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>092418-3</u>	

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes     No

**Person Contacted:** \_\_\_\_\_      **Date/Time:** \_\_\_\_\_

**Comments/Resolution:** \_\_\_\_\_





March 08, 2019

JR Sugalski  
GeoEngineers  
523 East 2nd Avenue  
Spokane, WA 99202

RE: Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457528

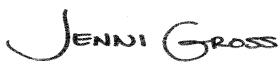
Dear JR Sugalski:

Enclosed are the analytical results for sample(s) received by the laboratory on December 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on March 8, 2019 to report all results to the method detection limit, to update a standard spike concentration for semi volatiles analysis by method 8270 on Pace samples 001-006 and to analyze all samples for VOCs by method 8260 low level.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross  
jennifer.gross@pacelabs.com  
(206)957-2426  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10457528001	MW-1 (2-3)	Solid	11/29/18 08:30	12/04/18 10:10
10457528002	MW-1 (15-16)	Solid	11/29/18 09:00	12/04/18 10:10
10457528003	MW-2 (2.5-4)	Solid	11/29/18 12:10	12/04/18 10:10
10457528004	MW-3 (7-8.5)	Solid	11/30/18 09:00	12/04/18 10:10
10457528005	MW-4 (3-4.5)	Solid	11/30/18 12:30	12/04/18 10:10
10457528006	MW-4 (7-8.5)	Solid	11/30/18 12:50	12/04/18 10:10
10457528007	Trip Blank	Solid	11/29/18 00:00	12/04/18 10:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457528001	MW-1 (2-3)	EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AG1	2
		EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
10457528002	MW-1 (15-16)	EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AG1	2
		EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
		EPA 8270D by SIM	STB	20
10457528003	MW-2 (2.5-4)	EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	JVM	4
		NWTPH-Gx	AG1	2
		EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
10457528004	MW-3 (7-8.5)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10457528005	MW-4 (3-4.5)	EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
10457528006	MW-4 (7-8.5)	EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		EPA 8081B	XV1	24
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 6010D	DM	12
		EPA 7471B	LMW	1
		ASTM D2974	JDL	1
		EPA 8270D	AT1	54
		EPA 8270D by SIM	STB	20
		EPA 8260B	CD2	5
		EPA 8260B	GDM	70
		10457528007	Trip Blank	NWTPH-Gx
EPA 8260B	GDM			70

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Date:** March 08, 2019

During an internal data review it was found that the standard spike was incorrectly entered and all laboratory control sample(LCS), laboratory control sample duplicate(LCSD), matrix spike(MS) and matrix spike duplicate(MSD) were being biased high as a result. The concentration of the standard spike has been corrected and samples footnoted accordingly. Samples 001-006 were prepared for VOCs by method 8260 low level using sample jars that were stored in a non-volatiles compliant refrigerator.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8081B

**Description:** 8081B GCS Pesticides

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

6 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 579544

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3143403)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 3143404)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579544

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457188015

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 3143403)
  - beta-BHC
- MSD (Lab ID: 3143404)
  - beta-BHC

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8081B

**Description:** 8081B GCS Pesticides

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 579544

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457188015

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- gamma-Chlordane

R1: RPD value was outside control limits.

- MSD (Lab ID: 3143404)
- beta-BHC

### Additional Comments:

Analyte Comments:

QC Batch: 579544

3M: Sample was dark brown in color.

- MS (Lab ID: 3143403)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 3143404)
  - Tetrachloro-m-xylene (S)

7M: Sample was yellow in color. Sample was initially analyzed at 2X with failing CCV recoveries.

- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Tetrachloro-m-xylene (S)

8M: Sample was yellow in color. Sample was initially analyzed at 2X with failing CCVs

- MW-4 (3-4.5) (Lab ID: 10457528005)
  - Tetrachloro-m-xylene (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MS (Lab ID: 3143403)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 3143404)
  - Tetrachloro-m-xylene (S)
- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Tetrachloro-m-xylene (S)
- MW-4 (3-4.5) (Lab ID: 10457528005)
  - Tetrachloro-m-xylene (S)
- MW-4 (7-8.5) (Lab ID: 10457528006)
  - Tetrachloro-m-xylene (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8082A

**Description:** 8082A GCS PCB

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

6 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

6 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 580196

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580196 [OEXT/463 (Lab ID: 3146528)]
  - Diesel Fuel Range
  - Motor Oil Range

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

Batch Comments:

All samples re-extracted outside of method hold criteria.

- QC Batch: 581111

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 580196

C0: Result confirmed by second analysis.

- MW-1 (15-16) (Lab ID: 10457528002)
  - Diesel Fuel Range
- MW-1 (2-3) (Lab ID: 10457528001)
  - Diesel Fuel Range
- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Diesel Fuel Range

C1: Result could not be confirmed by second analysis.

- MW-1 (15-16) (Lab ID: 10457528002)
  - Motor Oil Range
- MW-1 (2-3) (Lab ID: 10457528001)
  - Motor Oil Range
- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Motor Oil Range

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

7 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with NWTPH-Gx with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 580461

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580461 [GCV/2007 (Lab ID: 3147712)
  - TPH as Gas
- BLANK for HBN 580461 [GCV/2007 (Lab ID: 3147713)
  - TPH as Gas

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 580461

2M: Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

- MW-1 (15-16) (Lab ID: 10457528002)
- TPH as Gas

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

6 samples were analyzed for EPA 6010D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579221

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457608001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3141922)
  - Antimony
  - Arsenic
  - Copper
  - Selenium
  - Thallium
- MSD (Lab ID: 3141923)
  - Antimony
  - Arsenic
  - Selenium
  - Zinc

R1: RPD value was outside control limits.

- MSD (Lab ID: 3141923)
  - Copper

### Additional Comments:

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 579221

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-1 (15-16) (Lab ID: 10457528002)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- MW-1 (2-3) (Lab ID: 10457528001)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Nickel
  - Antimony
  - Selenium
  - Thallium
- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium
- MW-3 (7-8.5) (Lab ID: 10457528004)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Nickel
  - Antimony
  - Selenium
  - Thallium
- MW-4 (3-4.5) (Lab ID: 10457528005)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Antimony
  - Selenium
  - Thallium

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 6010D

**Description:** 6010D MET ICP

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 579221

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-4 (7-8.5) (Lab ID: 10457528006)
  - Silver
  - Arsenic
  - Beryllium
  - Cadmium
  - Nickel
  - Antimony
  - Selenium
  - Thallium

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 7471B

**Description:** 7471B Mercury

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

6 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

6 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- MW-1 (15-16) (Lab ID: 10457528002)
- MW-1 (2-3) (Lab ID: 10457528001)
- MW-2 (2.5-4) (Lab ID: 10457528003)
- MW-3 (7-8.5) (Lab ID: 10457528004)
- MW-4 (3-4.5) (Lab ID: 10457528005)
- MW-4 (7-8.5) (Lab ID: 10457528006)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

QC Batch: 579832

P3: Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.

- MW-1 (15-16) (Lab ID: 10457528002)

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 579832

S0: Surrogate recovery outside laboratory control limits.

- BLANK (Lab ID: 3145196)
  - 2,4,6-Tribromophenol (S)
- MW-1 (15-16) (Lab ID: 10457528002)
  - 2,4,6-Tribromophenol (S)
  - 2-Fluorobiphenyl (S)
  - 2-Fluorophenol (S)
  - Nitrobenzene-d5 (S)
  - Phenol-d6 (S)
  - p-Terphenyl-d14 (S)

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 579832

S0: Surrogate recovery outside laboratory control limits.

- MW-2 (2.5-4) (Lab ID: 10457528003)
  - 2,4,6-Tribromophenol (S)
- MW-4 (3-4.5) (Lab ID: 10457528005)
  - 2,4,6-Tribromophenol (S)
- MW-4 (7-8.5) (Lab ID: 10457528006)
  - 2,4,6-Tribromophenol (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

### General Information:

6 samples were analyzed for EPA 8270D by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3550 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 579374

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 12119477001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3142432)
  - 2-Methylnaphthalene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Fluoranthene
  - Naphthalene
  - Pyrene
- MSD (Lab ID: 3142433)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8270D by SIM

**Description:** 8270D MSSV PAH by SIM

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 579374

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 12119477001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Chrysene
- Fluoranthene
- Indeno(1,2,3-cd)pyrene
- Phenanthrene
- Pyrene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3142433)
  - Anthracene
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Benzo(b)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Chrysene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Phenanthrene
  - Pyrene

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457528

---

**Method:** EPA 8260B  
**Description:** 8260B MSV 5035 Low Level  
**Client:** GeoEngineers\_WA  
**Date:** March 08, 2019

### General Information:

6 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- MW-1 (15-16) (Lab ID: 10457528002)
- MW-1 (2-3) (Lab ID: 10457528001)
- MW-2 (2.5-4) (Lab ID: 10457528003)
- MW-3 (7-8.5) (Lab ID: 10457528004)
- MW-4 (3-4.5) (Lab ID: 10457528005)
- MW-4 (7-8.5) (Lab ID: 10457528006)

### Sample Preparation:

The samples were prepared in accordance with EPA 5035 Low with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 592666

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5035 Low Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 592666

4M: Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

- MW-2 (2.5-4) (Lab ID: 10457528003)
  - 1,2-Dichloroethane-d4 (S)
- MW-3 (7-8.5) (Lab ID: 10457528004)
  - 1,2-Dichloroethane-d4 (S)

5M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- MW-1 (15-16) (Lab ID: 10457528002)
  - 1,2-Dichloroethane-d4 (S)
- MW-4 (3-4.5) (Lab ID: 10457528005)
  - 1,2-Dichloroethane-d4 (S)
- MW-4 (7-8.5) (Lab ID: 10457528006)
  - 1,2-Dichloroethane-d4 (S)

6M: Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

- MW-1 (2-3) (Lab ID: 10457528001)
  - 1,2-Dichloroethane-d4 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

**General Information:**

7 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

QC Batch: 580422

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3147586)
  - Trichlorofluoromethane
- MS (Lab ID: 3148404)
  - Trichlorofluoromethane
- MSD (Lab ID: 3148405)
  - Trichlorofluoromethane

QC Batch: 580653

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3148818)
  - Trichlorofluoromethane
- MS (Lab ID: 3148819)
  - Trichlorofluoromethane
- MSD (Lab ID: 3148820)
  - Trichlorofluoromethane

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 580422

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580422 [MSV/4680 (Lab ID: 3147585)]
  - Benzene

QC Batch: 580653

B: Analyte was detected in the associated method blank.

- BLANK for HBN 580653 [MSV/4682 (Lab ID: 3148817)]
  - Benzene

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 580422

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3147586)
  - Chloroethane
  - Trichlorofluoromethane

QC Batch: 580653

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 3148818)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 580422

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457268001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3148404)
  - Chloroethane
  - Trichlorofluoromethane
- MSD (Lab ID: 3148405)
  - Chloroethane
  - Trichlorofluoromethane

QC Batch: 580653

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457360006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3148819)
  - Chloroethane
  - Trichlorofluoromethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

QC Batch: 580653

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10457360006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 3148820)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3148820)
  - 1,1-Dichloropropene
  - Bromomethane
  - Carbon tetrachloride
  - Isopropylbenzene (Cumene)

R1: RPD value was outside control limits.

- MSD (Lab ID: 3148820)
  - 1,1-Dichloroethene
  - 1,1-Dichloropropene
  - Allyl chloride
  - Benzene
  - Bromochloromethane
  - Diethyl ether (Ethyl ether)
  - Methylene Chloride
  - Tetrachloroethene
  - trans-1,2-Dichloroethene

### Additional Comments:

Analyte Comments:

QC Batch: 580422

1M: Preserved from glass jar with headspace outside of 48 hours from collection.

- MW-1 (15-16) (Lab ID: 10457528002)
  - 1,2-Dichloroethane-d4 (S)

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3147585)
  - Dichlorofluoromethane
- LCS (Lab ID: 3147586)
  - Dichlorofluoromethane
- MS (Lab ID: 3148404)
  - Dichlorofluoromethane
- MSD (Lab ID: 3148405)
  - Dichlorofluoromethane
- MW-1 (15-16) (Lab ID: 10457528002)
  - Dichlorofluoromethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

---

**Method:** EPA 8260B

**Description:** 8260B MSV 5030 Med Level

**Client:** GeoEngineers\_WA

**Date:** March 08, 2019

Analyte Comments:

QC Batch: 580422

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MW-1 (2-3) (Lab ID: 10457528001)
  - Dichlorofluoromethane
- MW-2 (2.5-4) (Lab ID: 10457528003)
  - Dichlorofluoromethane
- Trip Blank (Lab ID: 10457528007)
  - Dichlorofluoromethane

QC Batch: 580653

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3148817)
  - Dichlorofluoromethane
- LCS (Lab ID: 3148818)
  - Dichlorofluoromethane
- MS (Lab ID: 3148819)
  - Dichlorofluoromethane
- MSD (Lab ID: 3148820)
  - Dichlorofluoromethane
- MW-3 (7-8.5) (Lab ID: 10457528004)
  - Dichlorofluoromethane
- MW-4 (3-4.5) (Lab ID: 10457528005)
  - Dichlorofluoromethane
- MW-4 (7-8.5) (Lab ID: 10457528006)
  - Dichlorofluoromethane

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (2-3)**      **Lab ID: 10457528001**      Collected: 11/29/18 08:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
4,4'-DDD	<0.40	ug/kg	4.4	0.40	1	12/07/18 10:43	12/13/18 23:46	72-54-8	
4,4'-DDE	2.6J	ug/kg	4.4	0.33	1	12/07/18 10:43	12/13/18 23:46	72-55-9	
4,4'-DDT	2.4J	ug/kg	4.4	0.56	1	12/07/18 10:43	12/13/18 23:46	50-29-3	
Aldrin	<0.22	ug/kg	2.2	0.22	1	12/07/18 10:43	12/13/18 23:46	309-00-2	
Chlordane (Technical)	<4.0	ug/kg	22.2	4.0	1	12/07/18 10:43	12/13/18 23:46	57-74-9	
Dieldrin	<0.43	ug/kg	4.4	0.43	1	12/07/18 10:43	12/13/18 23:46	60-57-1	
Endosulfan I	<0.20	ug/kg	2.2	0.20	1	12/07/18 10:43	12/13/18 23:46	959-98-8	
Endosulfan II	<0.45	ug/kg	4.4	0.45	1	12/07/18 10:43	12/13/18 23:46	33213-65-9	
Endosulfan sulfate	<0.46	ug/kg	4.4	0.46	1	12/07/18 10:43	12/13/18 23:46	1031-07-8	
Endrin	<0.40	ug/kg	4.4	0.40	1	12/07/18 10:43	12/13/18 23:46	72-20-8	
Endrin aldehyde	<1.4	ug/kg	4.4	1.4	1	12/07/18 10:43	12/13/18 23:46	7421-93-4	
Endrin ketone	<0.52	ug/kg	4.4	0.52	1	12/07/18 10:43	12/13/18 23:46	53494-70-5	
Heptachlor	<0.24	ug/kg	2.2	0.24	1	12/07/18 10:43	12/13/18 23:46	76-44-8	
Heptachlor epoxide	<0.21	ug/kg	2.2	0.21	1	12/07/18 10:43	12/13/18 23:46	1024-57-3	
Methoxychlor	<3.3	ug/kg	22.2	3.3	1	12/07/18 10:43	12/13/18 23:46	72-43-5	
Toxaphene	<10.5	ug/kg	66.6	10.5	1	12/07/18 10:43	12/13/18 23:46	8001-35-2	
alpha-BHC	<0.16	ug/kg	2.2	0.16	1	12/07/18 10:43	12/13/18 23:46	319-84-6	
alpha-Chlordane	<0.18	ug/kg	2.2	0.18	1	12/07/18 10:43	12/13/18 23:46	5103-71-9	
beta-BHC	<0.30	ug/kg	2.2	0.30	1	12/07/18 10:43	12/13/18 23:46	319-85-7	
delta-BHC	<0.18	ug/kg	2.2	0.18	1	12/07/18 10:43	12/13/18 23:46	319-86-8	
gamma-BHC (Lindane)	<0.19	ug/kg	2.2	0.19	1	12/07/18 10:43	12/13/18 23:46	58-89-9	
gamma-Chlordane	<0.51	ug/kg	2.2	0.51	1	12/07/18 10:43	12/13/18 23:46	5103-74-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	79	%	30-150		1	12/07/18 10:43	12/13/18 23:46	877-09-8	
Decachlorobiphenyl (S)	77	%	30-150		1	12/07/18 10:43	12/13/18 23:46	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<12.2	ug/kg	43.6	12.2	1	12/06/18 17:46	12/10/18 13:36	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.3	ug/kg	43.6	15.3	1	12/06/18 17:46	12/10/18 13:36	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.5	ug/kg	43.6	17.5	1	12/06/18 17:46	12/10/18 13:36	11141-16-5	
PCB-1242 (Aroclor 1242)	<14.8	ug/kg	43.6	14.8	1	12/06/18 17:46	12/10/18 13:36	53469-21-9	
PCB-1248 (Aroclor 1248)	<13.1	ug/kg	43.6	13.1	1	12/06/18 17:46	12/10/18 13:36	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.8	ug/kg	43.6	12.8	1	12/06/18 17:46	12/10/18 13:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<10.4	ug/kg	43.6	10.4	1	12/06/18 17:46	12/10/18 13:36	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	85	%	48-125		1	12/06/18 17:46	12/10/18 13:36	877-09-8	
Decachlorobiphenyl (S)	97	%	30-134		1	12/06/18 17:46	12/10/18 13:36	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	3.5J	mg/kg	19.7	3.2	1	12/11/18 13:13	12/14/18 16:21	68334-30-5	B,C0
Motor Oil Range	13.3	mg/kg	13.1	5.7	1	12/11/18 13:13	12/14/18 16:21		B,C1
<b>Surrogates</b>									
n-Triacontane (S)	90	%	50-150		1	12/11/18 13:13	12/14/18 16:21	638-68-6	
o-Terphenyl (S)	88	%	50-150		1	12/11/18 13:13	12/14/18 16:21	84-15-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (2-3)**      **Lab ID: 10457528001**      Collected: 11/29/18 08:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.96	mg/kg	7.4	0.96	1	12/12/18 14:51	12/13/18 19:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	97	%	50-150		1	12/12/18 14:51	12/13/18 19:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.4	mg/kg	6.3	2.4	5	12/06/18 10:26	12/07/18 15:06	7440-36-0	D3
Arsenic	<1.3	mg/kg	6.3	1.3	5	12/06/18 10:26	12/07/18 15:06	7440-38-2	D3
Beryllium	<0.084	mg/kg	1.6	0.084	5	12/06/18 10:26	12/07/18 15:06	7440-41-7	D3
Cadmium	0.16J	mg/kg	0.94	0.13	5	12/06/18 10:26	12/07/18 15:06	7440-43-9	D3
Chromium	6.9	mg/kg	3.1	0.54	5	12/06/18 10:26	12/07/18 15:06	7440-47-3	
Copper	11.6	mg/kg	3.1	0.35	5	12/06/18 10:26	12/07/18 15:06	7440-50-8	
Lead	3.3	mg/kg	3.1	0.71	5	12/06/18 10:26	12/07/18 15:06	7439-92-1	
Nickel	5.6J	mg/kg	6.3	0.40	5	12/06/18 10:26	12/07/18 15:06	7440-02-0	D3
Selenium	<2.1	mg/kg	6.3	2.1	5	12/06/18 10:26	12/07/18 15:06	7782-49-2	D3
Silver	<0.23	mg/kg	3.1	0.23	5	12/06/18 10:26	12/07/18 15:06	7440-22-4	D3
Thallium	<1.4	mg/kg	6.3	1.4	5	12/06/18 10:26	12/07/18 15:06	7440-28-0	D3
Zinc	30.4	mg/kg	6.3	2.8	5	12/06/18 10:26	12/07/18 15:06	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<0.0094	mg/kg	0.024	0.0094	1	12/06/18 10:00	12/10/18 17:50	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	24.9	%	0.10	0.10	1		12/14/18 10:44		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<47.8	ug/kg	436	47.8	1	12/10/18 08:54	12/13/18 20:03	120-82-1	
1,2-Dichlorobenzene	<45.7	ug/kg	436	45.7	1	12/10/18 08:54	12/13/18 20:03	95-50-1	
1,2-Diphenylhydrazine	<53.5	ug/kg	436	53.5	1	12/10/18 08:54	12/13/18 20:03	122-66-7	
1,3-Dichlorobenzene	<29.8	ug/kg	436	29.8	1	12/10/18 08:54	12/13/18 20:03	541-73-1	
1,4-Dichlorobenzene	<48.4	ug/kg	436	48.4	1	12/10/18 08:54	12/13/18 20:03	106-46-7	
2,4,5-Trichlorophenol	<56.1	ug/kg	436	56.1	1	12/10/18 08:54	12/13/18 20:03	95-95-4	
2,4,6-Trichlorophenol	<67.5	ug/kg	436	67.5	1	12/10/18 08:54	12/13/18 20:03	88-06-2	
2,4-Dichlorophenol	<72.7	ug/kg	436	72.7	1	12/10/18 08:54	12/13/18 20:03	120-83-2	
2,4-Dimethylphenol	<170	ug/kg	436	170	1	12/10/18 08:54	12/13/18 20:03	105-67-9	
2,4-Dinitrophenol	<203	ug/kg	436	203	1	12/10/18 08:54	12/13/18 20:03	51-28-5	
2,4-Dinitrotoluene	<55.4	ug/kg	436	55.4	1	12/10/18 08:54	12/13/18 20:03	121-14-2	
2,6-Dinitrotoluene	<57.7	ug/kg	436	57.7	1	12/10/18 08:54	12/13/18 20:03	606-20-2	
2-Chloronaphthalene	<38.5	ug/kg	436	38.5	1	12/10/18 08:54	12/13/18 20:03	91-58-7	
2-Chlorophenol	<49.6	ug/kg	436	49.6	1	12/10/18 08:54	12/13/18 20:03	95-57-8	
2-Methylphenol(o-Cresol)	<27.2	ug/kg	436	27.2	1	12/10/18 08:54	12/13/18 20:03	95-48-7	
2-Nitroaniline	<109	ug/kg	436	109	1	12/10/18 08:54	12/13/18 20:03	88-74-4	
2-Nitrophenol	<53.1	ug/kg	436	53.1	1	12/10/18 08:54	12/13/18 20:03	88-75-5	
3&4-Methylphenol(m&p Cresol)	<24.6	ug/kg	871	24.6	1	12/10/18 08:54	12/13/18 20:03		
3,3'-Dichlorobenzidine	<146	ug/kg	436	146	1	12/10/18 08:54	12/13/18 20:03	91-94-1	
3-Nitroaniline	<47.5	ug/kg	436	47.5	1	12/10/18 08:54	12/13/18 20:03	99-09-2	L2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (2-3)**      **Lab ID: 10457528001**      Collected: 11/29/18 08:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
4,6-Dinitro-2-methylphenol	<432	ug/kg	2240	432	1	12/10/18 08:54	12/13/18 20:03	534-52-1	
4-Bromophenylphenyl ether	<51.9	ug/kg	436	51.9	1	12/10/18 08:54	12/13/18 20:03	101-55-3	
4-Chloro-3-methylphenol	<69.7	ug/kg	436	69.7	1	12/10/18 08:54	12/13/18 20:03	59-50-7	
4-Chloroaniline	<116	ug/kg	436	116	1	12/10/18 08:54	12/13/18 20:03	106-47-8	
4-Chlorophenylphenyl ether	<54.0	ug/kg	436	54.0	1	12/10/18 08:54	12/13/18 20:03	7005-72-3	
4-Nitroaniline	<63.6	ug/kg	436	63.6	1	12/10/18 08:54	12/13/18 20:03	100-01-6	
4-Nitrophenol	<84.5	ug/kg	436	84.5	1	12/10/18 08:54	12/13/18 20:03	100-02-7	
Butylbenzylphthalate	<39.9	ug/kg	436	39.9	1	12/10/18 08:54	12/13/18 20:03	85-68-7	
Carbazole	<36.2	ug/kg	436	36.2	1	12/10/18 08:54	12/13/18 20:03	86-74-8	
Di-n-butylphthalate	<59.7	ug/kg	436	59.7	1	12/10/18 08:54	12/13/18 20:03	84-74-2	
Di-n-octylphthalate	<50.6	ug/kg	436	50.6	1	12/10/18 08:54	12/13/18 20:03	117-84-0	
Dibenzofuran	<55.2	ug/kg	436	55.2	1	12/10/18 08:54	12/13/18 20:03	132-64-9	
Diethylphthalate	<38.8	ug/kg	436	38.8	1	12/10/18 08:54	12/13/18 20:03	84-66-2	
Dimethylphthalate	<59.1	ug/kg	436	59.1	1	12/10/18 08:54	12/13/18 20:03	131-11-3	
Hexachloro-1,3-butadiene	<66.3	ug/kg	436	66.3	1	12/10/18 08:54	12/13/18 20:03	87-68-3	
Hexachlorobenzene	<71.0	ug/kg	436	71.0	1	12/10/18 08:54	12/13/18 20:03	118-74-1	
Hexachloroethane	<56.6	ug/kg	436	56.6	1	12/10/18 08:54	12/13/18 20:03	67-72-1	
Isophorone	<33.5	ug/kg	436	33.5	1	12/10/18 08:54	12/13/18 20:03	78-59-1	
N-Nitroso-di-n-propylamine	<199	ug/kg	436	199	1	12/10/18 08:54	12/13/18 20:03	621-64-7	
N-Nitrosodimethylamine	<53.5	ug/kg	436	53.5	1	12/10/18 08:54	12/13/18 20:03	62-75-9	
N-Nitrosodiphenylamine	<28.3	ug/kg	436	28.3	1	12/10/18 08:54	12/13/18 20:03	86-30-6	
Nitrobenzene	<47.9	ug/kg	436	47.9	1	12/10/18 08:54	12/13/18 20:03	98-95-3	
Pentachlorophenol	<255	ug/kg	884	255	1	12/10/18 08:54	12/13/18 20:03	87-86-5	
Phenol	<28.5	ug/kg	436	28.5	1	12/10/18 08:54	12/13/18 20:03	108-95-2	
bis(2-Chloroethoxy)methane	<44.6	ug/kg	436	44.6	1	12/10/18 08:54	12/13/18 20:03	111-91-1	
bis(2-Chloroethyl) ether	<34.5	ug/kg	436	34.5	1	12/10/18 08:54	12/13/18 20:03	111-44-4	
bis(2-Chloroisopropyl) ether	<44.9	ug/kg	436	44.9	1	12/10/18 08:54	12/13/18 20:03	108-60-1	
bis(2-Ethylhexyl)phthalate	<90.8	ug/kg	436	90.8	1	12/10/18 08:54	12/13/18 20:03	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	75	%	43-125		1	12/10/18 08:54	12/13/18 20:03	4165-60-0	
2-Fluorobiphenyl (S)	76	%	30-132		1	12/10/18 08:54	12/13/18 20:03	321-60-8	
p-Terphenyl-d14 (S)	80	%	62-125		1	12/10/18 08:54	12/13/18 20:03	1718-51-0	
Phenol-d6 (S)	74	%	48-125		1	12/10/18 08:54	12/13/18 20:03	13127-88-3	
2-Fluorophenol (S)	71	%	40-125		1	12/10/18 08:54	12/13/18 20:03	367-12-4	
2,4,6-Tribromophenol (S)	66	%	60-125		1	12/10/18 08:54	12/13/18 20:03	118-79-6	
<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.71	ug/kg	13.3	0.71	1	12/06/18 19:27	12/07/18 18:35	90-12-0	
2-Methylnaphthalene	<0.67	ug/kg	13.3	0.67	1	12/06/18 19:27	12/07/18 18:35	91-57-6	
Acenaphthene	<0.54	ug/kg	13.3	0.54	1	12/06/18 19:27	12/07/18 18:35	83-32-9	
Acenaphthylene	<0.66	ug/kg	13.3	0.66	1	12/06/18 19:27	12/07/18 18:35	208-96-8	
Anthracene	<0.62	ug/kg	13.3	0.62	1	12/06/18 19:27	12/07/18 18:35	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	13.3	1.4	1	12/06/18 19:27	12/07/18 18:35	56-55-3	
Benzo(a)pyrene	<0.91	ug/kg	13.3	0.91	1	12/06/18 19:27	12/07/18 18:35	50-32-8	
Benzo(b)fluoranthene	<0.49	ug/kg	13.3	0.49	1	12/06/18 19:27	12/07/18 18:35	205-99-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (2-3)**      **Lab ID: 10457528001**      Collected: 11/29/18 08:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(g,h,i)perylene	<0.84	ug/kg	13.3	0.84	1	12/06/18 19:27	12/07/18 18:35	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	13.3	1.1	1	12/06/18 19:27	12/07/18 18:35	207-08-9	
Chrysene	<1.8	ug/kg	13.3	1.8	1	12/06/18 19:27	12/07/18 18:35	218-01-9	
Dibenz(a,h)anthracene	<0.61	ug/kg	13.3	0.61	1	12/06/18 19:27	12/07/18 18:35	53-70-3	
Fluoranthene	<0.57	ug/kg	13.3	0.57	1	12/06/18 19:27	12/07/18 18:35	206-44-0	
Fluorene	<0.41	ug/kg	13.3	0.41	1	12/06/18 19:27	12/07/18 18:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.89	ug/kg	13.3	0.89	1	12/06/18 19:27	12/07/18 18:35	193-39-5	
Naphthalene	<1.0	ug/kg	13.3	1.0	1	12/06/18 19:27	12/07/18 18:35	91-20-3	
Phenanthrene	<2.5	ug/kg	13.3	2.5	1	12/06/18 19:27	12/07/18 18:35	85-01-8	
Pyrene	<2.0	ug/kg	13.3	2.0	1	12/06/18 19:27	12/07/18 18:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	73	%	42-125		1	12/06/18 19:27	12/07/18 18:35	321-60-8	
p-Terphenyl-d14 (S)	74	%	57-125		1	12/06/18 19:27	12/07/18 18:35	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.30	ug/kg	5.3	0.30	1	03/06/19 14:15	03/06/19 19:34	106-93-4	
Methylene Chloride	<4.8	ug/kg	26.4	4.8	1	03/06/19 14:15	03/06/19 19:34	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	03/06/19 14:15	03/06/19 19:34	17060-07-0	6M,H3
Toluene-d8 (S)	99	%	75-125		1	03/06/19 14:15	03/06/19 19:34	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1	03/06/19 14:15	03/06/19 19:34	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<23.1	ug/kg	73.5	23.1	1	12/12/18 17:36	12/13/18 01:50	630-20-6	
1,1,1-Trichloroethane	<34.3	ug/kg	73.5	34.3	1	12/12/18 17:36	12/13/18 01:50	71-55-6	
1,1,2,2-Tetrachloroethane	<13.0	ug/kg	73.5	13.0	1	12/12/18 17:36	12/13/18 01:50	79-34-5	
1,1,2-Trichloroethane	<8.8	ug/kg	73.5	8.8	1	12/12/18 17:36	12/13/18 01:50	79-00-5	
1,1,2-Trichlorotrifluoroethane	<85.3	ug/kg	294	85.3	1	12/12/18 17:36	12/13/18 01:50	76-13-1	
1,1-Dichloroethane	<8.2	ug/kg	73.5	8.2	1	12/12/18 17:36	12/13/18 01:50	75-34-3	
1,1-Dichloroethene	<22.1	ug/kg	73.5	22.1	1	12/12/18 17:36	12/13/18 01:50	75-35-4	
1,1-Dichloropropene	<34.0	ug/kg	73.5	34.0	1	12/12/18 17:36	12/13/18 01:50	563-58-6	
1,2,3-Trichlorobenzene	<11.7	ug/kg	73.5	11.7	1	12/12/18 17:36	12/13/18 01:50	87-61-6	
1,2,3-Trichloropropane	<19.3	ug/kg	294	19.3	1	12/12/18 17:36	12/13/18 01:50	96-18-4	
1,2,4-Trichlorobenzene	<16.3	ug/kg	73.5	16.3	1	12/12/18 17:36	12/13/18 01:50	120-82-1	
1,2,4-Trimethylbenzene	<14.7	ug/kg	73.5	14.7	1	12/12/18 17:36	12/13/18 01:50	95-63-6	
1,2-Dibromo-3-chloropropane	<256	ug/kg	735	256	1	12/12/18 17:36	12/13/18 01:50	96-12-8	
1,2-Dibromoethane (EDB)	<7.7	ug/kg	73.5	7.7	1	12/12/18 17:36	12/13/18 01:50	106-93-4	
1,2-Dichlorobenzene	<3.0	ug/kg	73.5	3.0	1	12/12/18 17:36	12/13/18 01:50	95-50-1	
1,2-Dichloroethane	<8.1	ug/kg	73.5	8.1	1	12/12/18 17:36	12/13/18 01:50	107-06-2	
1,2-Dichloropropane	<12.7	ug/kg	73.5	12.7	1	12/12/18 17:36	12/13/18 01:50	78-87-5	
1,3,5-Trimethylbenzene	<11.7	ug/kg	73.5	11.7	1	12/12/18 17:36	12/13/18 01:50	108-67-8	
1,3-Dichlorobenzene	<2.7	ug/kg	73.5	2.7	1	12/12/18 17:36	12/13/18 01:50	541-73-1	
1,3-Dichloropropane	<10.2	ug/kg	73.5	10.2	1	12/12/18 17:36	12/13/18 01:50	142-28-9	
1,4-Dichlorobenzene	<4.6	ug/kg	73.5	4.6	1	12/12/18 17:36	12/13/18 01:50	106-46-7	
2,2-Dichloropropane	<9.2	ug/kg	294	9.2	1	12/12/18 17:36	12/13/18 01:50	594-20-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Sample: MW-1 (2-3) Lab ID: 10457528001 Collected: 11/29/18 08:30 Received: 12/04/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Butanone (MEK)	<39.1	ug/kg	368	39.1	1	12/12/18 17:36	12/13/18 01:50	78-93-3	
2-Chlorotoluene	<3.6	ug/kg	73.5	3.6	1	12/12/18 17:36	12/13/18 01:50	95-49-8	
4-Chlorotoluene	<3.8	ug/kg	73.5	3.8	1	12/12/18 17:36	12/13/18 01:50	106-43-4	
4-Methyl-2-pentanone (MIBK)	<15.3	ug/kg	368	15.3	1	12/12/18 17:36	12/13/18 01:50	108-10-1	
Acetone	<457	ug/kg	1470	457	1	12/12/18 17:36	12/13/18 01:50	67-64-1	
Allyl chloride	<61.6	ug/kg	294	61.6	1	12/12/18 17:36	12/13/18 01:50	107-05-1	
Benzene	<4.1	ug/kg	29.4	4.1	1	12/12/18 17:36	12/13/18 01:50	71-43-2	
Bromobenzene	<4.5	ug/kg	73.5	4.5	1	12/12/18 17:36	12/13/18 01:50	108-86-1	
Bromochloromethane	<25.4	ug/kg	73.5	25.4	1	12/12/18 17:36	12/13/18 01:50	74-97-5	
Bromodichloromethane	<25.1	ug/kg	73.5	25.1	1	12/12/18 17:36	12/13/18 01:50	75-27-4	
Bromoform	<111	ug/kg	294	111	1	12/12/18 17:36	12/13/18 01:50	75-25-2	
Bromomethane	<86.0	ug/kg	735	86.0	1	12/12/18 17:36	12/13/18 01:50	74-83-9	
Carbon tetrachloride	<35.1	ug/kg	294	35.1	1	12/12/18 17:36	12/13/18 01:50	56-23-5	
Chlorobenzene	<4.1	ug/kg	73.5	4.1	1	12/12/18 17:36	12/13/18 01:50	108-90-7	
Chloroethane	<38.2	ug/kg	735	38.2	1	12/12/18 17:36	12/13/18 01:50	75-00-3	
Chloroform	<36.8	ug/kg	73.5	36.8	1	12/12/18 17:36	12/13/18 01:50	67-66-3	
Chloromethane	<17.6	ug/kg	294	17.6	1	12/12/18 17:36	12/13/18 01:50	74-87-3	
Dibromochloromethane	<8.5	ug/kg	294	8.5	1	12/12/18 17:36	12/13/18 01:50	124-48-1	
Dibromomethane	<13.5	ug/kg	73.5	13.5	1	12/12/18 17:36	12/13/18 01:50	74-95-3	
Dichlorodifluoromethane	<23.8	ug/kg	294	23.8	1	12/12/18 17:36	12/13/18 01:50	75-71-8	
Dichlorofluoromethane	<102	ug/kg	735	102	1	12/12/18 17:36	12/13/18 01:50	75-43-4	N2
Diethyl ether (Ethyl ether)	<45.0	ug/kg	294	45.0	1	12/12/18 17:36	12/13/18 01:50	60-29-7	
Ethylbenzene	<4.0	ug/kg	73.5	4.0	1	12/12/18 17:36	12/13/18 01:50	100-41-4	
Hexachloro-1,3-butadiene	<17.9	ug/kg	368	17.9	1	12/12/18 17:36	12/13/18 01:50	87-68-3	
Isopropylbenzene (Cumene)	<3.3	ug/kg	73.5	3.3	1	12/12/18 17:36	12/13/18 01:50	98-82-8	
Methyl-tert-butyl ether	<8.7	ug/kg	73.5	8.7	1	12/12/18 17:36	12/13/18 01:50	1634-04-4	
Methylene Chloride	<138	ug/kg	294	138	1	12/12/18 17:36	12/13/18 01:50	75-09-2	
Naphthalene	<68.8	ug/kg	294	68.8	1	12/12/18 17:36	12/13/18 01:50	91-20-3	
Styrene	<3.4	ug/kg	73.5	3.4	1	12/12/18 17:36	12/13/18 01:50	100-42-5	
Tetrachloroethene	<25.9	ug/kg	73.5	25.9	1	12/12/18 17:36	12/13/18 01:50	127-18-4	
Tetrahydrofuran	<107	ug/kg	2940	107	1	12/12/18 17:36	12/13/18 01:50	109-99-9	
Toluene	<17.9	ug/kg	73.5	17.9	1	12/12/18 17:36	12/13/18 01:50	108-88-3	
Trichloroethene	<11.3	ug/kg	73.5	11.3	1	12/12/18 17:36	12/13/18 01:50	79-01-6	
Trichlorofluoromethane	<128	ug/kg	294	128	1	12/12/18 17:36	12/13/18 01:50	75-69-4	
Vinyl chloride	<14.5	ug/kg	29.4	14.5	1	12/12/18 17:36	12/13/18 01:50	75-01-4	
Xylene (Total)	<17.1	ug/kg	221	17.1	1	12/12/18 17:36	12/13/18 01:50	1330-20-7	
cis-1,2-Dichloroethene	<12.2	ug/kg	73.5	12.2	1	12/12/18 17:36	12/13/18 01:50	156-59-2	
cis-1,3-Dichloropropene	<10.5	ug/kg	73.5	10.5	1	12/12/18 17:36	12/13/18 01:50	10061-01-5	
n-Butylbenzene	<35.0	ug/kg	73.5	35.0	1	12/12/18 17:36	12/13/18 01:50	104-51-8	
n-Propylbenzene	<3.9	ug/kg	73.5	3.9	1	12/12/18 17:36	12/13/18 01:50	103-65-1	
p-Isopropyltoluene	<22.3	ug/kg	73.5	22.3	1	12/12/18 17:36	12/13/18 01:50	99-87-6	
sec-Butylbenzene	<14.1	ug/kg	73.5	14.1	1	12/12/18 17:36	12/13/18 01:50	135-98-8	
tert-Butylbenzene	<14.1	ug/kg	73.5	14.1	1	12/12/18 17:36	12/13/18 01:50	98-06-6	
trans-1,2-Dichloroethene	<34.4	ug/kg	73.5	34.4	1	12/12/18 17:36	12/13/18 01:50	156-60-5	
trans-1,3-Dichloropropene	<10.2	ug/kg	73.5	10.2	1	12/12/18 17:36	12/13/18 01:50	10061-02-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (2-3)**      **Lab ID: 10457528001**      Collected: 11/29/18 08:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	12/12/18 17:36	12/13/18 01:50	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	12/12/18 17:36	12/13/18 01:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/12/18 17:36	12/13/18 01:50	460-00-4	

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B      Preparation Method: EPA 3550							
Aldrin	<0.19	ug/kg	1.9	0.19	1	12/07/18 10:43	12/14/18 00:05	309-00-2	
alpha-BHC	<0.14	ug/kg	1.9	0.14	1	12/07/18 10:43	12/14/18 00:05	319-84-6	
beta-BHC	<0.25	ug/kg	1.9	0.25	1	12/07/18 10:43	12/14/18 00:05	319-85-7	
delta-BHC	<0.16	ug/kg	1.9	0.16	1	12/07/18 10:43	12/14/18 00:05	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.9	0.16	1	12/07/18 10:43	12/14/18 00:05	58-89-9	
Chlordane (Technical)	<3.5	ug/kg	19.0	3.5	1	12/07/18 10:43	12/14/18 00:05	57-74-9	
alpha-Chlordane	<0.15	ug/kg	1.9	0.15	1	12/07/18 10:43	12/14/18 00:05	5103-71-9	
gamma-Chlordane	<0.44	ug/kg	1.9	0.44	1	12/07/18 10:43	12/14/18 00:05	5103-74-2	
4,4'-DDD	<0.35	ug/kg	3.8	0.35	1	12/07/18 10:43	12/14/18 00:05	72-54-8	
4,4'-DDE	0.36J	ug/kg	3.8	0.28	1	12/07/18 10:43	12/14/18 00:05	72-55-9	
4,4'-DDT	<0.48	ug/kg	3.8	0.48	1	12/07/18 10:43	12/14/18 00:05	50-29-3	
Dieldrin	<0.37	ug/kg	3.8	0.37	1	12/07/18 10:43	12/14/18 00:05	60-57-1	
Endosulfan I	<0.17	ug/kg	1.9	0.17	1	12/07/18 10:43	12/14/18 00:05	959-98-8	
Endosulfan II	<0.38	ug/kg	3.8	0.38	1	12/07/18 10:43	12/14/18 00:05	33213-65-9	
Endosulfan sulfate	<0.39	ug/kg	3.8	0.39	1	12/07/18 10:43	12/14/18 00:05	1031-07-8	
Endrin	<0.34	ug/kg	3.8	0.34	1	12/07/18 10:43	12/14/18 00:05	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.8	1.2	1	12/07/18 10:43	12/14/18 00:05	7421-93-4	
Endrin ketone	<0.45	ug/kg	3.8	0.45	1	12/07/18 10:43	12/14/18 00:05	53494-70-5	
Heptachlor	<0.21	ug/kg	1.9	0.21	1	12/07/18 10:43	12/14/18 00:05	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	1.9	0.18	1	12/07/18 10:43	12/14/18 00:05	1024-57-3	
Methoxychlor	<2.9	ug/kg	19.0	2.9	1	12/07/18 10:43	12/14/18 00:05	72-43-5	
Toxaphene	<9.0	ug/kg	57.0	9.0	1	12/07/18 10:43	12/14/18 00:05	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	30-150		1	12/07/18 10:43	12/14/18 00:05	877-09-8	
Decachlorobiphenyl (S)	84	%	30-150		1	12/07/18 10:43	12/14/18 00:05	2051-24-3	

**8082A GCS PCB**

Analytical Method: EPA 8082A      Preparation Method: EPA 3550

PCB-1016 (Aroclor 1016)	<10.4	ug/kg	37.2	10.4	1	12/06/18 17:46	12/10/18 13:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.1	ug/kg	37.2	13.1	1	12/06/18 17:46	12/10/18 13:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<14.9	ug/kg	37.2	14.9	1	12/06/18 17:46	12/10/18 13:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.6	ug/kg	37.2	12.6	1	12/06/18 17:46	12/10/18 13:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.2	ug/kg	37.2	11.2	1	12/06/18 17:46	12/10/18 13:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.0	ug/kg	37.2	11.0	1	12/06/18 17:46	12/10/18 13:52	11097-69-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1260 (Aroclor 1260)	<b>&lt;8.9</b>	ug/kg	37.2	8.9	1	12/06/18 17:46	12/10/18 13:52	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	48-125		1	12/06/18 17:46	12/10/18 13:52	877-09-8	
Decachlorobiphenyl (S)	96	%	30-134		1	12/06/18 17:46	12/10/18 13:52	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>4.6J</b>	mg/kg	17.2	2.8	1	12/11/18 13:13	12/14/18 16:55	68334-30-5	B,C0
Motor Oil Range	<b>13.2</b>	mg/kg	11.5	5.0	1	12/11/18 13:13	12/14/18 16:55		B,C1
<b>Surrogates</b>									
n-Triacontane (S)	107	%	50-150		1	12/11/18 13:13	12/14/18 16:55	638-68-6	
o-Terphenyl (S)	98	%	50-150		1	12/11/18 13:13	12/14/18 16:55	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>3.6J</b>	mg/kg	5.6	0.73	1	12/12/18 14:51	12/13/18 19:28		2M,B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/12/18 14:51	12/13/18 19:28	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.1</b>	mg/kg	5.5	2.1	5	12/06/18 10:26	12/07/18 15:11	7440-36-0	D3
Arsenic	<b>2.1J</b>	mg/kg	5.5	1.1	5	12/06/18 10:26	12/07/18 15:11	7440-38-2	D3
Beryllium	<b>0.12J</b>	mg/kg	1.4	0.074	5	12/06/18 10:26	12/07/18 15:11	7440-41-7	D3
Cadmium	<b>&lt;0.11</b>	mg/kg	0.83	0.11	5	12/06/18 10:26	12/07/18 15:11	7440-43-9	D3
Chromium	<b>11.1</b>	mg/kg	2.8	0.47	5	12/06/18 10:26	12/07/18 15:11	7440-47-3	
Copper	<b>16.1</b>	mg/kg	2.8	0.31	5	12/06/18 10:26	12/07/18 15:11	7440-50-8	
Lead	<b>5.3</b>	mg/kg	2.8	0.62	5	12/06/18 10:26	12/07/18 15:11	7439-92-1	
Nickel	<b>9.5</b>	mg/kg	5.5	0.35	5	12/06/18 10:26	12/07/18 15:11	7440-02-0	
Selenium	<b>&lt;1.8</b>	mg/kg	5.5	1.8	5	12/06/18 10:26	12/07/18 15:11	7782-49-2	D3
Silver	<b>&lt;0.20</b>	mg/kg	2.8	0.20	5	12/06/18 10:26	12/07/18 15:11	7440-22-4	D3
Thallium	<b>&lt;1.3</b>	mg/kg	5.5	1.3	5	12/06/18 10:26	12/07/18 15:11	7440-28-0	D3
Zinc	<b>48.5</b>	mg/kg	5.5	2.4	5	12/06/18 10:26	12/07/18 15:11	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.011J</b>	mg/kg	0.019	0.0077	1	12/06/18 10:00	12/10/18 17:57	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>13.0</b>	%	0.10	0.10	1		12/14/18 10:44		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<b>&lt;1240</b>	ug/kg	11300	1240	1	12/10/18 08:54	12/13/18 20:33	120-82-1	
1,2-Dichlorobenzene	<b>&lt;1190</b>	ug/kg	11300	1190	1	12/10/18 08:54	12/13/18 20:33	95-50-1	
1,2-Diphenylhydrazine	<b>&lt;1390</b>	ug/kg	11300	1390	1	12/10/18 08:54	12/13/18 20:33	122-66-7	
1,3-Dichlorobenzene	<b>&lt;776</b>	ug/kg	11300	776	1	12/10/18 08:54	12/13/18 20:33	541-73-1	
1,4-Dichlorobenzene	<b>&lt;1260</b>	ug/kg	11300	1260	1	12/10/18 08:54	12/13/18 20:33	106-46-7	
2,4,5-Trichlorophenol	<b>&lt;1460</b>	ug/kg	11300	1460	1	12/10/18 08:54	12/13/18 20:33	95-95-4	
2,4,6-Trichlorophenol	<b>&lt;1750</b>	ug/kg	11300	1750	1	12/10/18 08:54	12/13/18 20:33	88-06-2	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4-Dichlorophenol	<1890	ug/kg	11300	1890	1	12/10/18 08:54	12/13/18 20:33	120-83-2	
2,4-Dimethylphenol	<4430	ug/kg	11300	4430	1	12/10/18 08:54	12/13/18 20:33	105-67-9	
2,4-Dinitrophenol	<5280	ug/kg	11300	5280	1	12/10/18 08:54	12/13/18 20:33	51-28-5	
2,4-Dinitrotoluene	<1440	ug/kg	11300	1440	1	12/10/18 08:54	12/13/18 20:33	121-14-2	
2,6-Dinitrotoluene	<1500	ug/kg	11300	1500	1	12/10/18 08:54	12/13/18 20:33	606-20-2	
2-Chloronaphthalene	<1000	ug/kg	11300	1000	1	12/10/18 08:54	12/13/18 20:33	91-58-7	
2-Chlorophenol	<1290	ug/kg	11300	1290	1	12/10/18 08:54	12/13/18 20:33	95-57-8	
2-Methylphenol(o-Cresol)	<707	ug/kg	11300	707	1	12/10/18 08:54	12/13/18 20:33	95-48-7	
2-Nitroaniline	<2840	ug/kg	11300	2840	1	12/10/18 08:54	12/13/18 20:33	88-74-4	
2-Nitrophenol	<1380	ug/kg	11300	1380	1	12/10/18 08:54	12/13/18 20:33	88-75-5	
3&4-Methylphenol(m&p Cresol)	<638	ug/kg	22600	638	1	12/10/18 08:54	12/13/18 20:33		
3,3'-Dichlorobenzidine	<3810	ug/kg	11300	3810	1	12/10/18 08:54	12/13/18 20:33	91-94-1	
3-Nitroaniline	<1240	ug/kg	11300	1240	1	12/10/18 08:54	12/13/18 20:33	99-09-2	L2
4,6-Dinitro-2-methylphenol	<11200	ug/kg	58300	11200	1	12/10/18 08:54	12/13/18 20:33	534-52-1	
4-Bromophenylphenyl ether	<1350	ug/kg	11300	1350	1	12/10/18 08:54	12/13/18 20:33	101-55-3	
4-Chloro-3-methylphenol	<1810	ug/kg	11300	1810	1	12/10/18 08:54	12/13/18 20:33	59-50-7	
4-Chloroaniline	<3020	ug/kg	11300	3020	1	12/10/18 08:54	12/13/18 20:33	106-47-8	
4-Chlorophenylphenyl ether	<1400	ug/kg	11300	1400	1	12/10/18 08:54	12/13/18 20:33	7005-72-3	
4-Nitroaniline	<1650	ug/kg	11300	1650	1	12/10/18 08:54	12/13/18 20:33	100-01-6	
4-Nitrophenol	<2200	ug/kg	11300	2200	1	12/10/18 08:54	12/13/18 20:33	100-02-7	
Butylbenzylphthalate	<1040	ug/kg	11300	1040	1	12/10/18 08:54	12/13/18 20:33	85-68-7	
Carbazole	<940	ug/kg	11300	940	1	12/10/18 08:54	12/13/18 20:33	86-74-8	
Di-n-butylphthalate	2050J	ug/kg	11300	1550	1	12/10/18 08:54	12/13/18 20:33	84-74-2	
Di-n-octylphthalate	<1310	ug/kg	11300	1310	1	12/10/18 08:54	12/13/18 20:33	117-84-0	
Dibenzofuran	<1430	ug/kg	11300	1430	1	12/10/18 08:54	12/13/18 20:33	132-64-9	
Diethylphthalate	<1010	ug/kg	11300	1010	1	12/10/18 08:54	12/13/18 20:33	84-66-2	
Dimethylphthalate	<1540	ug/kg	11300	1540	1	12/10/18 08:54	12/13/18 20:33	131-11-3	
Hexachloro-1,3-butadiene	<1720	ug/kg	11300	1720	1	12/10/18 08:54	12/13/18 20:33	87-68-3	
Hexachlorobenzene	<1850	ug/kg	11300	1850	1	12/10/18 08:54	12/13/18 20:33	118-74-1	
Hexachloroethane	<1470	ug/kg	11300	1470	1	12/10/18 08:54	12/13/18 20:33	67-72-1	
Isophorone	<872	ug/kg	11300	872	1	12/10/18 08:54	12/13/18 20:33	78-59-1	
N-Nitroso-di-n-propylamine	<5180	ug/kg	11300	5180	1	12/10/18 08:54	12/13/18 20:33	621-64-7	
N-Nitrosodimethylamine	<1390	ug/kg	11300	1390	1	12/10/18 08:54	12/13/18 20:33	62-75-9	
N-Nitrosodiphenylamine	<734	ug/kg	11300	734	1	12/10/18 08:54	12/13/18 20:33	86-30-6	
Nitrobenzene	<1250	ug/kg	11300	1250	1	12/10/18 08:54	12/13/18 20:33	98-95-3	
Pentachlorophenol	<6620	ug/kg	23000	6620	1	12/10/18 08:54	12/13/18 20:33	87-86-5	
Phenol	<741	ug/kg	11300	741	1	12/10/18 08:54	12/13/18 20:33	108-95-2	
bis(2-Chloroethoxy)methane	<1160	ug/kg	11300	1160	1	12/10/18 08:54	12/13/18 20:33	111-91-1	
bis(2-Chloroethyl) ether	<896	ug/kg	11300	896	1	12/10/18 08:54	12/13/18 20:33	111-44-4	
bis(2-Chloroisopropyl) ether	<1170	ug/kg	11300	1170	1	12/10/18 08:54	12/13/18 20:33	108-60-1	
bis(2-Ethylhexyl)phthalate	<2360	ug/kg	11300	2360	1	12/10/18 08:54	12/13/18 20:33	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	0	%	43-125		1	12/10/18 08:54	12/13/18 20:33	4165-60-0	P3,S0
2-Fluorobiphenyl (S)	0	%	30-132		1	12/10/18 08:54	12/13/18 20:33	321-60-8	S0
p-Terphenyl-d14 (S)	0	%	62-125		1	12/10/18 08:54	12/13/18 20:33	1718-51-0	S0

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
<b>Surrogates</b>									
Phenol-d6 (S)	0	%	48-125		1	12/10/18 08:54	12/13/18 20:33	13127-88-3	S0
2-Fluorophenol (S)	0	%	40-125		1	12/10/18 08:54	12/13/18 20:33	367-12-4	S0
2,4,6-Tribromophenol (S)	0	%	60-125		1	12/10/18 08:54	12/13/18 20:33	118-79-6	S0

<b>8270D MSSV PAH by SIM</b> Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.61	ug/kg	11.4	0.61	1	12/06/18 19:27	12/07/18 18:55	90-12-0	
2-Methylnaphthalene	<0.58	ug/kg	11.4	0.58	1	12/06/18 19:27	12/07/18 18:55	91-57-6	
Acenaphthene	<0.47	ug/kg	11.4	0.47	1	12/06/18 19:27	12/07/18 18:55	83-32-9	
Acenaphthylene	<0.57	ug/kg	11.4	0.57	1	12/06/18 19:27	12/07/18 18:55	208-96-8	
Anthracene	<0.53	ug/kg	11.4	0.53	1	12/06/18 19:27	12/07/18 18:55	120-12-7	
Benzo(a)anthracene	<1.2	ug/kg	11.4	1.2	1	12/06/18 19:27	12/07/18 18:55	56-55-3	
Benzo(a)pyrene	<0.79	ug/kg	11.4	0.79	1	12/06/18 19:27	12/07/18 18:55	50-32-8	
Benzo(b)fluoranthene	<0.43	ug/kg	11.4	0.43	1	12/06/18 19:27	12/07/18 18:55	205-99-2	
Benzo(g,h,i)perylene	<0.72	ug/kg	11.4	0.72	1	12/06/18 19:27	12/07/18 18:55	191-24-2	
Benzo(k)fluoranthene	<0.97	ug/kg	11.4	0.97	1	12/06/18 19:27	12/07/18 18:55	207-08-9	
Chrysene	<1.6	ug/kg	11.4	1.6	1	12/06/18 19:27	12/07/18 18:55	218-01-9	
Dibenz(a,h)anthracene	<0.53	ug/kg	11.4	0.53	1	12/06/18 19:27	12/07/18 18:55	53-70-3	
Fluoranthene	<0.49	ug/kg	11.4	0.49	1	12/06/18 19:27	12/07/18 18:55	206-44-0	
Fluorene	<0.36	ug/kg	11.4	0.36	1	12/06/18 19:27	12/07/18 18:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.77	ug/kg	11.4	0.77	1	12/06/18 19:27	12/07/18 18:55	193-39-5	
Naphthalene	<0.88	ug/kg	11.4	0.88	1	12/06/18 19:27	12/07/18 18:55	91-20-3	
Phenanthrene	<2.2	ug/kg	11.4	2.2	1	12/06/18 19:27	12/07/18 18:55	85-01-8	
Pyrene	<1.7	ug/kg	11.4	1.7	1	12/06/18 19:27	12/07/18 18:55	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	55	%	42-125		1	12/06/18 19:27	12/07/18 18:55	321-60-8	
p-Terphenyl-d14 (S)	78	%	57-125		1	12/06/18 19:27	12/07/18 18:55	1718-51-0	

<b>8260B MSV 5035 Low Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.5	0.25	1	03/06/19 14:15	03/06/19 19:53	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.3	4.1	1	03/06/19 14:15	03/06/19 19:53	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	03/06/19 14:15	03/06/19 19:53	17060-07-0	5M, H3
Toluene-d8 (S)	100	%	75-125		1	03/06/19 14:15	03/06/19 19:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	03/06/19 14:15	03/06/19 19:53	460-00-4	

<b>8260B MSV 5030 Med Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<17.5	ug/kg	55.8	17.5	1	12/12/18 17:36	12/13/18 02:07	630-20-6	
1,1,1-Trichloroethane	<26.0	ug/kg	55.8	26.0	1	12/12/18 17:36	12/13/18 02:07	71-55-6	
1,1,2,2-Tetrachloroethane	<9.8	ug/kg	55.8	9.8	1	12/12/18 17:36	12/13/18 02:07	79-34-5	
1,1,2-Trichloroethane	<6.7	ug/kg	55.8	6.7	1	12/12/18 17:36	12/13/18 02:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	<64.7	ug/kg	223	64.7	1	12/12/18 17:36	12/13/18 02:07	76-13-1	
1,1-Dichloroethane	<6.3	ug/kg	55.8	6.3	1	12/12/18 17:36	12/13/18 02:07	75-34-3	
1,1-Dichloroethene	<16.7	ug/kg	55.8	16.7	1	12/12/18 17:36	12/13/18 02:07	75-35-4	
1,1-Dichloropropene	<25.8	ug/kg	55.8	25.8	1	12/12/18 17:36	12/13/18 02:07	563-58-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2,3-Trichlorobenzene	<8.9	ug/kg	55.8	8.9	1	12/12/18 17:36	12/13/18 02:07	87-61-6	
1,2,3-Trichloropropane	<14.6	ug/kg	223	14.6	1	12/12/18 17:36	12/13/18 02:07	96-18-4	
1,2,4-Trichlorobenzene	<12.4	ug/kg	55.8	12.4	1	12/12/18 17:36	12/13/18 02:07	120-82-1	
1,2,4-Trimethylbenzene	<11.2	ug/kg	55.8	11.2	1	12/12/18 17:36	12/13/18 02:07	95-63-6	
1,2-Dibromo-3-chloropropane	<194	ug/kg	558	194	1	12/12/18 17:36	12/13/18 02:07	96-12-8	
1,2-Dibromoethane (EDB)	<5.9	ug/kg	55.8	5.9	1	12/12/18 17:36	12/13/18 02:07	106-93-4	
1,2-Dichlorobenzene	<2.3	ug/kg	55.8	2.3	1	12/12/18 17:36	12/13/18 02:07	95-50-1	
1,2-Dichloroethane	<6.1	ug/kg	55.8	6.1	1	12/12/18 17:36	12/13/18 02:07	107-06-2	
1,2-Dichloropropane	<9.6	ug/kg	55.8	9.6	1	12/12/18 17:36	12/13/18 02:07	78-87-5	
1,3,5-Trimethylbenzene	<8.9	ug/kg	55.8	8.9	1	12/12/18 17:36	12/13/18 02:07	108-67-8	
1,3-Dichlorobenzene	<2.0	ug/kg	55.8	2.0	1	12/12/18 17:36	12/13/18 02:07	541-73-1	
1,3-Dichloropropane	<7.7	ug/kg	55.8	7.7	1	12/12/18 17:36	12/13/18 02:07	142-28-9	
1,4-Dichlorobenzene	<3.5	ug/kg	55.8	3.5	1	12/12/18 17:36	12/13/18 02:07	106-46-7	
2,2-Dichloropropane	<7.0	ug/kg	223	7.0	1	12/12/18 17:36	12/13/18 02:07	594-20-7	
2-Butanone (MEK)	<29.7	ug/kg	279	29.7	1	12/12/18 17:36	12/13/18 02:07	78-93-3	
2-Chlorotoluene	<2.7	ug/kg	55.8	2.7	1	12/12/18 17:36	12/13/18 02:07	95-49-8	
4-Chlorotoluene	<2.9	ug/kg	55.8	2.9	1	12/12/18 17:36	12/13/18 02:07	106-43-4	
4-Methyl-2-pentanone (MIBK)	<11.6	ug/kg	279	11.6	1	12/12/18 17:36	12/13/18 02:07	108-10-1	
Acetone	<347	ug/kg	1120	347	1	12/12/18 17:36	12/13/18 02:07	67-64-1	
Allyl chloride	<46.7	ug/kg	223	46.7	1	12/12/18 17:36	12/13/18 02:07	107-05-1	
Benzene	<3.1	ug/kg	22.3	3.1	1	12/12/18 17:36	12/13/18 02:07	71-43-2	
Bromobenzene	<3.4	ug/kg	55.8	3.4	1	12/12/18 17:36	12/13/18 02:07	108-86-1	
Bromochloromethane	<19.3	ug/kg	55.8	19.3	1	12/12/18 17:36	12/13/18 02:07	74-97-5	
Bromodichloromethane	<19.1	ug/kg	55.8	19.1	1	12/12/18 17:36	12/13/18 02:07	75-27-4	
Bromoform	<84.4	ug/kg	223	84.4	1	12/12/18 17:36	12/13/18 02:07	75-25-2	
Bromomethane	<65.2	ug/kg	558	65.2	1	12/12/18 17:36	12/13/18 02:07	74-83-9	
Carbon tetrachloride	<26.6	ug/kg	223	26.6	1	12/12/18 17:36	12/13/18 02:07	56-23-5	
Chlorobenzene	<3.1	ug/kg	55.8	3.1	1	12/12/18 17:36	12/13/18 02:07	108-90-7	
Chloroethane	<29.0	ug/kg	558	29.0	1	12/12/18 17:36	12/13/18 02:07	75-00-3	
Chloroform	<27.9	ug/kg	55.8	27.9	1	12/12/18 17:36	12/13/18 02:07	67-66-3	
Chloromethane	<13.4	ug/kg	223	13.4	1	12/12/18 17:36	12/13/18 02:07	74-87-3	
Dibromochloromethane	<6.5	ug/kg	223	6.5	1	12/12/18 17:36	12/13/18 02:07	124-48-1	
Dibromomethane	<10.2	ug/kg	55.8	10.2	1	12/12/18 17:36	12/13/18 02:07	74-95-3	
Dichlorodifluoromethane	<18.1	ug/kg	223	18.1	1	12/12/18 17:36	12/13/18 02:07	75-71-8	
Dichlorofluoromethane	<77.0	ug/kg	558	77.0	1	12/12/18 17:36	12/13/18 02:07	75-43-4	N2
Diethyl ether (Ethyl ether)	<34.1	ug/kg	223	34.1	1	12/12/18 17:36	12/13/18 02:07	60-29-7	
Ethylbenzene	<3.0	ug/kg	55.8	3.0	1	12/12/18 17:36	12/13/18 02:07	100-41-4	
Hexachloro-1,3-butadiene	<13.6	ug/kg	279	13.6	1	12/12/18 17:36	12/13/18 02:07	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/kg	55.8	2.5	1	12/12/18 17:36	12/13/18 02:07	98-82-8	
Methyl-tert-butyl ether	<6.6	ug/kg	55.8	6.6	1	12/12/18 17:36	12/13/18 02:07	1634-04-4	
Methylene Chloride	<105	ug/kg	223	105	1	12/12/18 17:36	12/13/18 02:07	75-09-2	
Naphthalene	<52.2	ug/kg	223	52.2	1	12/12/18 17:36	12/13/18 02:07	91-20-3	
Styrene	<2.5	ug/kg	55.8	2.5	1	12/12/18 17:36	12/13/18 02:07	100-42-5	
Tetrachloroethene	<19.6	ug/kg	55.8	19.6	1	12/12/18 17:36	12/13/18 02:07	127-18-4	
Tetrahydrofuran	<81.1	ug/kg	2230	81.1	1	12/12/18 17:36	12/13/18 02:07	109-99-9	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-1 (15-16)**      **Lab ID: 10457528002**      Collected: 11/29/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Toluene	<13.6	ug/kg	55.8	13.6	1	12/12/18 17:36	12/13/18 02:07	108-88-3	
Trichloroethene	<8.6	ug/kg	55.8	8.6	1	12/12/18 17:36	12/13/18 02:07	79-01-6	
Trichlorofluoromethane	<97.2	ug/kg	223	97.2	1	12/12/18 17:36	12/13/18 02:07	75-69-4	
Vinyl chloride	<11.0	ug/kg	22.3	11.0	1	12/12/18 17:36	12/13/18 02:07	75-01-4	
Xylene (Total)	<12.9	ug/kg	167	12.9	1	12/12/18 17:36	12/13/18 02:07	1330-20-7	
cis-1,2-Dichloroethene	<9.2	ug/kg	55.8	9.2	1	12/12/18 17:36	12/13/18 02:07	156-59-2	
cis-1,3-Dichloropropene	<8.0	ug/kg	55.8	8.0	1	12/12/18 17:36	12/13/18 02:07	10061-01-5	
n-Butylbenzene	<26.5	ug/kg	55.8	26.5	1	12/12/18 17:36	12/13/18 02:07	104-51-8	
n-Propylbenzene	<3.0	ug/kg	55.8	3.0	1	12/12/18 17:36	12/13/18 02:07	103-65-1	
p-Isopropyltoluene	<16.9	ug/kg	55.8	16.9	1	12/12/18 17:36	12/13/18 02:07	99-87-6	
sec-Butylbenzene	<10.7	ug/kg	55.8	10.7	1	12/12/18 17:36	12/13/18 02:07	135-98-8	
tert-Butylbenzene	<10.7	ug/kg	55.8	10.7	1	12/12/18 17:36	12/13/18 02:07	98-06-6	
trans-1,2-Dichloroethene	<26.1	ug/kg	55.8	26.1	1	12/12/18 17:36	12/13/18 02:07	156-60-5	
trans-1,3-Dichloropropene	<7.7	ug/kg	55.8	7.7	1	12/12/18 17:36	12/13/18 02:07	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	112	%	75-125		1	12/12/18 17:36	12/13/18 02:07	17060-07-0	1M
Toluene-d8 (S)	100	%	75-125		1	12/12/18 17:36	12/13/18 02:07	2037-26-5	
4-Bromofluorobenzene (S)	95	%	75-125		1	12/12/18 17:36	12/13/18 02:07	460-00-4	

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<1.2	ug/kg	12.4	1.2	5	12/07/18 10:43	12/13/18 22:52	309-00-2	
alpha-BHC	<0.90	ug/kg	12.4	0.90	5	12/07/18 10:43	12/13/18 22:52	319-84-6	
beta-BHC	<1.7	ug/kg	12.4	1.7	5	12/07/18 10:43	12/13/18 22:52	319-85-7	
delta-BHC	<1.0	ug/kg	12.4	1.0	5	12/07/18 10:43	12/13/18 22:52	319-86-8	
gamma-BHC (Lindane)	<1.1	ug/kg	12.4	1.1	5	12/07/18 10:43	12/13/18 22:52	58-89-9	
Chlordane (Technical)	<22.6	ug/kg	124	22.6	5	12/07/18 10:43	12/13/18 22:52	57-74-9	
alpha-Chlordane	<1.0	ug/kg	12.4	1.0	5	12/07/18 10:43	12/13/18 22:52	5103-71-9	
gamma-Chlordane	<2.9	ug/kg	12.4	2.9	5	12/07/18 10:43	12/13/18 22:52	5103-74-2	
4,4'-DDD	<2.3	ug/kg	24.8	2.3	5	12/07/18 10:43	12/13/18 22:52	72-54-8	
4,4'-DDE	2.4J	ug/kg	24.8	1.8	5	12/07/18 10:43	12/13/18 22:52	72-55-9	
4,4'-DDT	<3.1	ug/kg	24.8	3.1	5	12/07/18 10:43	12/13/18 22:52	50-29-3	
Dieldrin	<2.4	ug/kg	24.8	2.4	5	12/07/18 10:43	12/13/18 22:52	60-57-1	
Endosulfan I	<1.1	ug/kg	12.4	1.1	5	12/07/18 10:43	12/13/18 22:52	959-98-8	
Endosulfan II	<2.5	ug/kg	24.8	2.5	5	12/07/18 10:43	12/13/18 22:52	33213-65-9	
Endosulfan sulfate	<2.6	ug/kg	24.8	2.6	5	12/07/18 10:43	12/13/18 22:52	1031-07-8	
Endrin	<2.2	ug/kg	24.8	2.2	5	12/07/18 10:43	12/13/18 22:52	72-20-8	
Endrin aldehyde	<7.7	ug/kg	24.8	7.7	5	12/07/18 10:43	12/13/18 22:52	7421-93-4	
Endrin ketone	<2.9	ug/kg	24.8	2.9	5	12/07/18 10:43	12/13/18 22:52	53494-70-5	
Heptachlor	<1.3	ug/kg	12.4	1.3	5	12/07/18 10:43	12/13/18 22:52	76-44-8	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Heptachlor epoxide	<1.2	ug/kg	12.4	1.2	5	12/07/18 10:43	12/13/18 22:52	1024-57-3	
Methoxychlor	<18.7	ug/kg	124	18.7	5	12/07/18 10:43	12/13/18 22:52	72-43-5	
Toxaphene	<58.8	ug/kg	372	58.8	5	12/07/18 10:43	12/13/18 22:52	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	30-150		5	12/07/18 10:43	12/13/18 22:52	877-09-8	7M, D3
Decachlorobiphenyl (S)	100	%	30-150		5	12/07/18 10:43	12/13/18 22:52	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<13.7	ug/kg	49.2	13.7	1	12/06/18 17:46	12/10/18 14:08	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.3	ug/kg	49.2	17.3	1	12/06/18 17:46	12/10/18 14:08	11104-28-2	
PCB-1232 (Aroclor 1232)	<19.7	ug/kg	49.2	19.7	1	12/06/18 17:46	12/10/18 14:08	11141-16-5	
PCB-1242 (Aroclor 1242)	<16.7	ug/kg	49.2	16.7	1	12/06/18 17:46	12/10/18 14:08	53469-21-9	
PCB-1248 (Aroclor 1248)	<14.7	ug/kg	49.2	14.7	1	12/06/18 17:46	12/10/18 14:08	12672-29-6	
PCB-1254 (Aroclor 1254)	<14.5	ug/kg	49.2	14.5	1	12/06/18 17:46	12/10/18 14:08	11097-69-1	
PCB-1260 (Aroclor 1260)	<11.8	ug/kg	49.2	11.8	1	12/06/18 17:46	12/10/18 14:08	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	48-125		1	12/06/18 17:46	12/10/18 14:08	877-09-8	
Decachlorobiphenyl (S)	101	%	30-134		1	12/06/18 17:46	12/10/18 14:08	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	8.3J	mg/kg	22.1	3.6	1	12/11/18 13:13	12/14/18 17:06	68334-30-5	B,C0
Motor Oil Range	29.9	mg/kg	14.8	6.4	1	12/11/18 13:13	12/14/18 17:06		B,C1
<b>Surrogates</b>									
n-Triacontane (S)	103	%	50-150		1	12/11/18 13:13	12/14/18 17:06	638-68-6	
o-Terphenyl (S)	99	%	50-150		1	12/11/18 13:13	12/14/18 17:06	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	3.5J	mg/kg	7.7	1.0	1	12/12/18 14:51	12/13/18 19:45		B
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	103	%	50-150		1	12/12/18 14:51	12/13/18 19:45	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.7	mg/kg	7.2	2.7	5	12/06/18 10:26	12/07/18 15:13	7440-36-0	D3
Arsenic	<1.5	mg/kg	7.2	1.5	5	12/06/18 10:26	12/07/18 15:13	7440-38-2	D3
Beryllium	<0.097	mg/kg	1.8	0.097	5	12/06/18 10:26	12/07/18 15:13	7440-41-7	D3
Cadmium	0.17J	mg/kg	1.1	0.14	5	12/06/18 10:26	12/07/18 15:13	7440-43-9	D3
Chromium	5.4	mg/kg	3.6	0.62	5	12/06/18 10:26	12/07/18 15:13	7440-47-3	
Copper	17.7	mg/kg	3.6	0.40	5	12/06/18 10:26	12/07/18 15:13	7440-50-8	
Lead	16.0	mg/kg	3.6	0.82	5	12/06/18 10:26	12/07/18 15:13	7439-92-1	
Nickel	8.1	mg/kg	7.2	0.45	5	12/06/18 10:26	12/07/18 15:13	7440-02-0	
Selenium	<2.4	mg/kg	7.2	2.4	5	12/06/18 10:26	12/07/18 15:13	7782-49-2	D3
Silver	<0.26	mg/kg	3.6	0.26	5	12/06/18 10:26	12/07/18 15:13	7440-22-4	D3
Thallium	<1.7	mg/kg	7.2	1.7	5	12/06/18 10:26	12/07/18 15:13	7440-28-0	D3
Zinc	65.0	mg/kg	7.2	3.2	5	12/06/18 10:26	12/07/18 15:13	7440-66-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.012	mg/kg	0.030	0.012	1	12/06/18 10:00	12/10/18 17:59	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	32.9	%	0.10	0.10	1		12/14/18 10:44		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<53.9	ug/kg	492	53.9	1	12/10/18 08:54	12/13/18 21:02	120-82-1	
1,2-Dichlorobenzene	<51.5	ug/kg	492	51.5	1	12/10/18 08:54	12/13/18 21:02	95-50-1	
1,2-Diphenylhydrazine	<60.3	ug/kg	492	60.3	1	12/10/18 08:54	12/13/18 21:02	122-66-7	
1,3-Dichlorobenzene	<33.7	ug/kg	492	33.7	1	12/10/18 08:54	12/13/18 21:02	541-73-1	
1,4-Dichlorobenzene	<54.7	ug/kg	492	54.7	1	12/10/18 08:54	12/13/18 21:02	106-46-7	
2,4,5-Trichlorophenol	<63.3	ug/kg	492	63.3	1	12/10/18 08:54	12/13/18 21:02	95-95-4	
2,4,6-Trichlorophenol	<76.1	ug/kg	492	76.1	1	12/10/18 08:54	12/13/18 21:02	88-06-2	
2,4-Dichlorophenol	<82.1	ug/kg	492	82.1	1	12/10/18 08:54	12/13/18 21:02	120-83-2	
2,4-Dimethylphenol	<192	ug/kg	492	192	1	12/10/18 08:54	12/13/18 21:02	105-67-9	
2,4-Dinitrophenol	<229	ug/kg	492	229	1	12/10/18 08:54	12/13/18 21:02	51-28-5	
2,4-Dinitrotoluene	<62.6	ug/kg	492	62.6	1	12/10/18 08:54	12/13/18 21:02	121-14-2	
2,6-Dinitrotoluene	<65.1	ug/kg	492	65.1	1	12/10/18 08:54	12/13/18 21:02	606-20-2	
2-Chloronaphthalene	<43.5	ug/kg	492	43.5	1	12/10/18 08:54	12/13/18 21:02	91-58-7	
2-Chlorophenol	<56.0	ug/kg	492	56.0	1	12/10/18 08:54	12/13/18 21:02	95-57-8	
2-Methylphenol(o-Cresol)	<30.7	ug/kg	492	30.7	1	12/10/18 08:54	12/13/18 21:02	95-48-7	
2-Nitroaniline	<123	ug/kg	492	123	1	12/10/18 08:54	12/13/18 21:02	88-74-4	
2-Nitrophenol	<59.9	ug/kg	492	59.9	1	12/10/18 08:54	12/13/18 21:02	88-75-5	
3&4-Methylphenol(m&p Cresol)	<27.7	ug/kg	983	27.7	1	12/10/18 08:54	12/13/18 21:02		
3,3'-Dichlorobenzidine	<165	ug/kg	492	165	1	12/10/18 08:54	12/13/18 21:02	91-94-1	
3-Nitroaniline	<53.6	ug/kg	492	53.6	1	12/10/18 08:54	12/13/18 21:02	99-09-2	L2
4,6-Dinitro-2-methylphenol	<487	ug/kg	2530	487	1	12/10/18 08:54	12/13/18 21:02	534-52-1	
4-Bromophenylphenyl ether	<58.5	ug/kg	492	58.5	1	12/10/18 08:54	12/13/18 21:02	101-55-3	
4-Chloro-3-methylphenol	<78.6	ug/kg	492	78.6	1	12/10/18 08:54	12/13/18 21:02	59-50-7	
4-Chloroaniline	<131	ug/kg	492	131	1	12/10/18 08:54	12/13/18 21:02	106-47-8	
4-Chlorophenylphenyl ether	<60.9	ug/kg	492	60.9	1	12/10/18 08:54	12/13/18 21:02	7005-72-3	
4-Nitroaniline	<71.8	ug/kg	492	71.8	1	12/10/18 08:54	12/13/18 21:02	100-01-6	
4-Nitrophenol	<95.3	ug/kg	492	95.3	1	12/10/18 08:54	12/13/18 21:02	100-02-7	
Butylbenzylphthalate	<45.0	ug/kg	492	45.0	1	12/10/18 08:54	12/13/18 21:02	85-68-7	
Carbazole	<40.8	ug/kg	492	40.8	1	12/10/18 08:54	12/13/18 21:02	86-74-8	
Di-n-butylphthalate	<67.3	ug/kg	492	67.3	1	12/10/18 08:54	12/13/18 21:02	84-74-2	
Di-n-octylphthalate	<57.0	ug/kg	492	57.0	1	12/10/18 08:54	12/13/18 21:02	117-84-0	
Dibenzofuran	<62.3	ug/kg	492	62.3	1	12/10/18 08:54	12/13/18 21:02	132-64-9	
Diethylphthalate	<43.8	ug/kg	492	43.8	1	12/10/18 08:54	12/13/18 21:02	84-66-2	
Dimethylphthalate	<66.7	ug/kg	492	66.7	1	12/10/18 08:54	12/13/18 21:02	131-11-3	
Hexachloro-1,3-butadiene	<74.8	ug/kg	492	74.8	1	12/10/18 08:54	12/13/18 21:02	87-68-3	
Hexachlorobenzene	<80.1	ug/kg	492	80.1	1	12/10/18 08:54	12/13/18 21:02	118-74-1	
Hexachloroethane	<63.9	ug/kg	492	63.9	1	12/10/18 08:54	12/13/18 21:02	67-72-1	
Isophorone	<37.8	ug/kg	492	37.8	1	12/10/18 08:54	12/13/18 21:02	78-59-1	
N-Nitroso-di-n-propylamine	<225	ug/kg	492	225	1	12/10/18 08:54	12/13/18 21:02	621-64-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
N-Nitrosodimethylamine	<60.3	ug/kg	492	60.3	1	12/10/18 08:54	12/13/18 21:02	62-75-9	
N-Nitrosodiphenylamine	<31.9	ug/kg	492	31.9	1	12/10/18 08:54	12/13/18 21:02	86-30-6	
Nitrobenzene	<54.1	ug/kg	492	54.1	1	12/10/18 08:54	12/13/18 21:02	98-95-3	
Pentachlorophenol	<287	ug/kg	998	287	1	12/10/18 08:54	12/13/18 21:02	87-86-5	
Phenol	<32.2	ug/kg	492	32.2	1	12/10/18 08:54	12/13/18 21:02	108-95-2	
bis(2-Chloroethoxy)methane	<50.3	ug/kg	492	50.3	1	12/10/18 08:54	12/13/18 21:02	111-91-1	
bis(2-Chloroethyl) ether	<38.9	ug/kg	492	38.9	1	12/10/18 08:54	12/13/18 21:02	111-44-4	
bis(2-Chloroisopropyl) ether	<50.6	ug/kg	492	50.6	1	12/10/18 08:54	12/13/18 21:02	108-60-1	
bis(2-Ethylhexyl)phthalate	<102	ug/kg	492	102	1	12/10/18 08:54	12/13/18 21:02	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	71	%	43-125		1	12/10/18 08:54	12/13/18 21:02	4165-60-0	
2-Fluorobiphenyl (S)	71	%	30-132		1	12/10/18 08:54	12/13/18 21:02	321-60-8	
p-Terphenyl-d14 (S)	79	%	62-125		1	12/10/18 08:54	12/13/18 21:02	1718-51-0	
Phenol-d6 (S)	67	%	48-125		1	12/10/18 08:54	12/13/18 21:02	13127-88-3	
2-Fluorophenol (S)	60	%	40-125		1	12/10/18 08:54	12/13/18 21:02	367-12-4	
2,4,6-Tribromophenol (S)	54	%	60-125		1	12/10/18 08:54	12/13/18 21:02	118-79-6	S0
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.79	ug/kg	14.8	0.79	1	12/06/18 19:27	12/07/18 19:15	90-12-0	
2-Methylnaphthalene	<0.75	ug/kg	14.8	0.75	1	12/06/18 19:27	12/07/18 19:15	91-57-6	
Acenaphthene	<0.61	ug/kg	14.8	0.61	1	12/06/18 19:27	12/07/18 19:15	83-32-9	
Acenaphthylene	<0.73	ug/kg	14.8	0.73	1	12/06/18 19:27	12/07/18 19:15	208-96-8	
Anthracene	<0.69	ug/kg	14.8	0.69	1	12/06/18 19:27	12/07/18 19:15	120-12-7	
Benzo(a)anthracene	18.1	ug/kg	14.8	1.6	1	12/06/18 19:27	12/07/18 19:15	56-55-3	
Benzo(a)pyrene	19.8	ug/kg	14.8	1.0	1	12/06/18 19:27	12/07/18 19:15	50-32-8	
Benzo(b)fluoranthene	19.6	ug/kg	14.8	0.55	1	12/06/18 19:27	12/07/18 19:15	205-99-2	
Benzo(g,h,i)perylene	<0.94	ug/kg	14.8	0.94	1	12/06/18 19:27	12/07/18 19:15	191-24-2	
Benzo(k)fluoranthene	<1.3	ug/kg	14.8	1.3	1	12/06/18 19:27	12/07/18 19:15	207-08-9	
Chrysene	17.0	ug/kg	14.8	2.0	1	12/06/18 19:27	12/07/18 19:15	218-01-9	
Dibenz(a,h)anthracene	<0.68	ug/kg	14.8	0.68	1	12/06/18 19:27	12/07/18 19:15	53-70-3	
Fluoranthene	32.6	ug/kg	14.8	0.64	1	12/06/18 19:27	12/07/18 19:15	206-44-0	
Fluorene	<0.46	ug/kg	14.8	0.46	1	12/06/18 19:27	12/07/18 19:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.99	ug/kg	14.8	0.99	1	12/06/18 19:27	12/07/18 19:15	193-39-5	
Naphthalene	<1.1	ug/kg	14.8	1.1	1	12/06/18 19:27	12/07/18 19:15	91-20-3	
Phenanthrene	15.4	ug/kg	14.8	2.9	1	12/06/18 19:27	12/07/18 19:15	85-01-8	
Pyrene	33.1	ug/kg	14.8	2.3	1	12/06/18 19:27	12/07/18 19:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	74	%	42-125		1	12/06/18 19:27	12/07/18 19:15	321-60-8	
p-Terphenyl-d14 (S)	77	%	57-125		1	12/06/18 19:27	12/07/18 19:15	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.32	ug/kg	5.6	0.32	1	03/06/19 14:15	03/06/19 20:12	106-93-4	
Methylene Chloride	<5.1	ug/kg	27.9	5.1	1	03/06/19 14:15	03/06/19 20:12	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1	03/06/19 14:15	03/06/19 20:12	17060-07-0	4M,H3

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low							
<b>Surrogates</b>									
Toluene-d8 (S)	100	%	75-125		1	03/06/19 14:15	03/06/19 20:12	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-125		1	03/06/19 14:15	03/06/19 20:12	460-00-4	
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<24.1	ug/kg	76.7	24.1	1	12/12/18 17:36	12/13/18 07:39	630-20-6	
1,1,1-Trichloroethane	<35.7	ug/kg	76.7	35.7	1	12/12/18 17:36	12/13/18 07:39	71-55-6	
1,1,2,2-Tetrachloroethane	<13.5	ug/kg	76.7	13.5	1	12/12/18 17:36	12/13/18 07:39	79-34-5	
1,1,2-Trichloroethane	<9.2	ug/kg	76.7	9.2	1	12/12/18 17:36	12/13/18 07:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	<89.0	ug/kg	307	89.0	1	12/12/18 17:36	12/13/18 07:39	76-13-1	
1,1-Dichloroethane	<8.6	ug/kg	76.7	8.6	1	12/12/18 17:36	12/13/18 07:39	75-34-3	
1,1-Dichloroethene	<23.0	ug/kg	76.7	23.0	1	12/12/18 17:36	12/13/18 07:39	75-35-4	
1,1-Dichloropropene	<35.4	ug/kg	76.7	35.4	1	12/12/18 17:36	12/13/18 07:39	563-58-6	
1,2,3-Trichlorobenzene	<12.3	ug/kg	76.7	12.3	1	12/12/18 17:36	12/13/18 07:39	87-61-6	
1,2,3-Trichloropropane	<20.1	ug/kg	307	20.1	1	12/12/18 17:36	12/13/18 07:39	96-18-4	
1,2,4-Trichlorobenzene	<17.0	ug/kg	76.7	17.0	1	12/12/18 17:36	12/13/18 07:39	120-82-1	
1,2,4-Trimethylbenzene	<15.3	ug/kg	76.7	15.3	1	12/12/18 17:36	12/13/18 07:39	95-63-6	
1,2-Dibromo-3-chloropropane	<267	ug/kg	767	267	1	12/12/18 17:36	12/13/18 07:39	96-12-8	
1,2-Dibromoethane (EDB)	<8.1	ug/kg	76.7	8.1	1	12/12/18 17:36	12/13/18 07:39	106-93-4	
1,2-Dichlorobenzene	<3.1	ug/kg	76.7	3.1	1	12/12/18 17:36	12/13/18 07:39	95-50-1	
1,2-Dichloroethane	<8.4	ug/kg	76.7	8.4	1	12/12/18 17:36	12/13/18 07:39	107-06-2	
1,2-Dichloropropane	<13.2	ug/kg	76.7	13.2	1	12/12/18 17:36	12/13/18 07:39	78-87-5	
1,3,5-Trimethylbenzene	<12.2	ug/kg	76.7	12.2	1	12/12/18 17:36	12/13/18 07:39	108-67-8	
1,3-Dichlorobenzene	<2.8	ug/kg	76.7	2.8	1	12/12/18 17:36	12/13/18 07:39	541-73-1	
1,3-Dichloropropane	<10.6	ug/kg	76.7	10.6	1	12/12/18 17:36	12/13/18 07:39	142-28-9	
1,4-Dichlorobenzene	<4.8	ug/kg	76.7	4.8	1	12/12/18 17:36	12/13/18 07:39	106-46-7	
2,2-Dichloropropane	<9.6	ug/kg	307	9.6	1	12/12/18 17:36	12/13/18 07:39	594-20-7	
2-Butanone (MEK)	<40.8	ug/kg	383	40.8	1	12/12/18 17:36	12/13/18 07:39	78-93-3	
2-Chlorotoluene	<3.8	ug/kg	76.7	3.8	1	12/12/18 17:36	12/13/18 07:39	95-49-8	
4-Chlorotoluene	<3.9	ug/kg	76.7	3.9	1	12/12/18 17:36	12/13/18 07:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	<16.0	ug/kg	383	16.0	1	12/12/18 17:36	12/13/18 07:39	108-10-1	
Acetone	<477	ug/kg	1530	477	1	12/12/18 17:36	12/13/18 07:39	67-64-1	
Allyl chloride	<64.3	ug/kg	307	64.3	1	12/12/18 17:36	12/13/18 07:39	107-05-1	
Benzene	<4.3	ug/kg	30.7	4.3	1	12/12/18 17:36	12/13/18 07:39	71-43-2	
Bromobenzene	<4.7	ug/kg	76.7	4.7	1	12/12/18 17:36	12/13/18 07:39	108-86-1	
Bromochloromethane	<26.5	ug/kg	76.7	26.5	1	12/12/18 17:36	12/13/18 07:39	74-97-5	
Bromodichloromethane	<26.2	ug/kg	76.7	26.2	1	12/12/18 17:36	12/13/18 07:39	75-27-4	
Bromoform	<116	ug/kg	307	116	1	12/12/18 17:36	12/13/18 07:39	75-25-2	
Bromomethane	<89.7	ug/kg	767	89.7	1	12/12/18 17:36	12/13/18 07:39	74-83-9	
Carbon tetrachloride	<36.7	ug/kg	307	36.7	1	12/12/18 17:36	12/13/18 07:39	56-23-5	
Chlorobenzene	<4.3	ug/kg	76.7	4.3	1	12/12/18 17:36	12/13/18 07:39	108-90-7	
Chloroethane	<39.9	ug/kg	767	39.9	1	12/12/18 17:36	12/13/18 07:39	75-00-3	
Chloroform	<38.3	ug/kg	76.7	38.3	1	12/12/18 17:36	12/13/18 07:39	67-66-3	
Chloromethane	<18.4	ug/kg	307	18.4	1	12/12/18 17:36	12/13/18 07:39	74-87-3	
Dibromochloromethane	<8.9	ug/kg	307	8.9	1	12/12/18 17:36	12/13/18 07:39	124-48-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-2 (2.5-4)**      **Lab ID: 10457528003**      Collected: 11/29/18 12:10      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B							
Dibromomethane	<14.1	ug/kg	76.7	14.1	1	12/12/18 17:36	12/13/18 07:39	74-95-3	
Dichlorodifluoromethane	<24.9	ug/kg	307	24.9	1	12/12/18 17:36	12/13/18 07:39	75-71-8	
Dichlorofluoromethane	<106	ug/kg	767	106	1	12/12/18 17:36	12/13/18 07:39	75-43-4	N2
Diethyl ether (Ethyl ether)	<46.9	ug/kg	307	46.9	1	12/12/18 17:36	12/13/18 07:39	60-29-7	
Ethylbenzene	<4.2	ug/kg	76.7	4.2	1	12/12/18 17:36	12/13/18 07:39	100-41-4	
Hexachloro-1,3-butadiene	<18.7	ug/kg	383	18.7	1	12/12/18 17:36	12/13/18 07:39	87-68-3	
Isopropylbenzene (Cumene)	<3.4	ug/kg	76.7	3.4	1	12/12/18 17:36	12/13/18 07:39	98-82-8	
Methyl-tert-butyl ether	<9.1	ug/kg	76.7	9.1	1	12/12/18 17:36	12/13/18 07:39	1634-04-4	
Methylene Chloride	<144	ug/kg	307	144	1	12/12/18 17:36	12/13/18 07:39	75-09-2	
Naphthalene	<71.8	ug/kg	307	71.8	1	12/12/18 17:36	12/13/18 07:39	91-20-3	
Styrene	<3.5	ug/kg	76.7	3.5	1	12/12/18 17:36	12/13/18 07:39	100-42-5	
Tetrachloroethene	<27.0	ug/kg	76.7	27.0	1	12/12/18 17:36	12/13/18 07:39	127-18-4	
Tetrahydrofuran	<112	ug/kg	3070	112	1	12/12/18 17:36	12/13/18 07:39	109-99-9	
Toluene	<18.7	ug/kg	76.7	18.7	1	12/12/18 17:36	12/13/18 07:39	108-88-3	
Trichloroethene	<11.8	ug/kg	76.7	11.8	1	12/12/18 17:36	12/13/18 07:39	79-01-6	
Trichlorofluoromethane	<134	ug/kg	307	134	1	12/12/18 17:36	12/13/18 07:39	75-69-4	
Vinyl chloride	<15.1	ug/kg	30.7	15.1	1	12/12/18 17:36	12/13/18 07:39	75-01-4	
Xylene (Total)	<17.8	ug/kg	230	17.8	1	12/12/18 17:36	12/13/18 07:39	1330-20-7	
cis-1,2-Dichloroethene	<12.7	ug/kg	76.7	12.7	1	12/12/18 17:36	12/13/18 07:39	156-59-2	
cis-1,3-Dichloropropene	<11.0	ug/kg	76.7	11.0	1	12/12/18 17:36	12/13/18 07:39	10061-01-5	
n-Butylbenzene	<36.5	ug/kg	76.7	36.5	1	12/12/18 17:36	12/13/18 07:39	104-51-8	
n-Propylbenzene	<4.1	ug/kg	76.7	4.1	1	12/12/18 17:36	12/13/18 07:39	103-65-1	
p-Isopropyltoluene	<23.3	ug/kg	76.7	23.3	1	12/12/18 17:36	12/13/18 07:39	99-87-6	
sec-Butylbenzene	<14.7	ug/kg	76.7	14.7	1	12/12/18 17:36	12/13/18 07:39	135-98-8	
tert-Butylbenzene	<14.7	ug/kg	76.7	14.7	1	12/12/18 17:36	12/13/18 07:39	98-06-6	
trans-1,2-Dichloroethene	<35.9	ug/kg	76.7	35.9	1	12/12/18 17:36	12/13/18 07:39	156-60-5	
trans-1,3-Dichloropropene	<10.7	ug/kg	76.7	10.7	1	12/12/18 17:36	12/13/18 07:39	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-125		1	12/12/18 17:36	12/13/18 07:39	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	12/12/18 17:36	12/13/18 07:39	2037-26-5	
4-Bromofluorobenzene (S)	96	%	75-125		1	12/12/18 17:36	12/13/18 07:39	460-00-4	

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>		Analytical Method: EPA 8081B    Preparation Method: EPA 3550							
Aldrin	<0.20	ug/kg	1.9	0.20	1	12/07/18 10:43	12/14/18 00:23	309-00-2	
alpha-BHC	<0.14	ug/kg	1.9	0.14	1	12/07/18 10:43	12/14/18 00:23	319-84-6	
beta-BHC	<0.26	ug/kg	1.9	0.26	1	12/07/18 10:43	12/14/18 00:23	319-85-7	
delta-BHC	<0.16	ug/kg	1.9	0.16	1	12/07/18 10:43	12/14/18 00:23	319-86-8	
gamma-BHC (Lindane)	<0.16	ug/kg	1.9	0.16	1	12/07/18 10:43	12/14/18 00:23	58-89-9	
Chlordane (Technical)	<3.5	ug/kg	19.4	3.5	1	12/07/18 10:43	12/14/18 00:23	57-74-9	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B Preparation Method: EPA 3550									
alpha-Chlordane	<0.16	ug/kg	1.9	0.16	1	12/07/18 10:43	12/14/18 00:23	5103-71-9	
gamma-Chlordane	<0.45	ug/kg	1.9	0.45	1	12/07/18 10:43	12/14/18 00:23	5103-74-2	
4,4'-DDD	<0.35	ug/kg	3.9	0.35	1	12/07/18 10:43	12/14/18 00:23	72-54-8	
4,4'-DDE	<0.29	ug/kg	3.9	0.29	1	12/07/18 10:43	12/14/18 00:23	72-55-9	
4,4'-DDT	<0.49	ug/kg	3.9	0.49	1	12/07/18 10:43	12/14/18 00:23	50-29-3	
Dieldrin	<0.37	ug/kg	3.9	0.37	1	12/07/18 10:43	12/14/18 00:23	60-57-1	
Endosulfan I	<0.17	ug/kg	1.9	0.17	1	12/07/18 10:43	12/14/18 00:23	959-98-8	
Endosulfan II	<0.39	ug/kg	3.9	0.39	1	12/07/18 10:43	12/14/18 00:23	33213-65-9	
Endosulfan sulfate	<0.40	ug/kg	3.9	0.40	1	12/07/18 10:43	12/14/18 00:23	1031-07-8	
Endrin	<0.34	ug/kg	3.9	0.34	1	12/07/18 10:43	12/14/18 00:23	72-20-8	
Endrin aldehyde	<1.2	ug/kg	3.9	1.2	1	12/07/18 10:43	12/14/18 00:23	7421-93-4	
Endrin ketone	<0.46	ug/kg	3.9	0.46	1	12/07/18 10:43	12/14/18 00:23	53494-70-5	
Heptachlor	<0.21	ug/kg	1.9	0.21	1	12/07/18 10:43	12/14/18 00:23	76-44-8	
Heptachlor epoxide	<0.18	ug/kg	1.9	0.18	1	12/07/18 10:43	12/14/18 00:23	1024-57-3	
Methoxychlor	<2.9	ug/kg	19.4	2.9	1	12/07/18 10:43	12/14/18 00:23	72-43-5	
Toxaphene	<9.2	ug/kg	58.1	9.2	1	12/07/18 10:43	12/14/18 00:23	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	82	%	30-150		1	12/07/18 10:43	12/14/18 00:23	877-09-8	
Decachlorobiphenyl (S)	84	%	30-150		1	12/07/18 10:43	12/14/18 00:23	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<10.6	ug/kg	38.0	10.6	1	12/06/18 17:46	12/10/18 14:24	12674-11-2	
PCB-1221 (Aroclor 1221)	<13.4	ug/kg	38.0	13.4	1	12/06/18 17:46	12/10/18 14:24	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.2	ug/kg	38.0	15.2	1	12/06/18 17:46	12/10/18 14:24	11141-16-5	
PCB-1242 (Aroclor 1242)	<12.9	ug/kg	38.0	12.9	1	12/06/18 17:46	12/10/18 14:24	53469-21-9	
PCB-1248 (Aroclor 1248)	<11.4	ug/kg	38.0	11.4	1	12/06/18 17:46	12/10/18 14:24	12672-29-6	
PCB-1254 (Aroclor 1254)	<11.2	ug/kg	38.0	11.2	1	12/06/18 17:46	12/10/18 14:24	11097-69-1	
PCB-1260 (Aroclor 1260)	<9.1	ug/kg	38.0	9.1	1	12/06/18 17:46	12/10/18 14:24	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	87	%	48-125		1	12/06/18 17:46	12/10/18 14:24	877-09-8	
Decachlorobiphenyl (S)	106	%	30-134		1	12/06/18 17:46	12/10/18 14:24	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<2.7	mg/kg	17.0	2.7	1	12/14/18 19:17	12/15/18 16:32	68334-30-5	
Motor Oil Range	<4.9	mg/kg	11.3	4.9	1	12/14/18 19:17	12/15/18 16:32		
<b>Surrogates</b>									
n-Triacontane (S)	97	%	50-150		1	12/14/18 19:17	12/15/18 16:32	638-68-6	
o-Terphenyl (S)	92	%	50-150		1	12/14/18 19:17	12/15/18 16:32	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	1.4J	mg/kg	5.9	0.78	1	12/13/18 15:01	12/14/18 03:20		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	98	%	50-150		1	12/13/18 15:01	12/14/18 03:20	98-08-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3050									
Antimony	<2.1	mg/kg	5.5	2.1	5	12/06/18 10:26	12/07/18 15:24	7440-36-0	D3
Arsenic	1.3J	mg/kg	5.5	1.1	5	12/06/18 10:26	12/07/18 15:24	7440-38-2	D3
Beryllium	<0.074	mg/kg	1.4	0.074	5	12/06/18 10:26	12/07/18 15:24	7440-41-7	D3
Cadmium	<0.11	mg/kg	0.83	0.11	5	12/06/18 10:26	12/07/18 15:24	7440-43-9	D3
Chromium	4.1	mg/kg	2.8	0.47	5	12/06/18 10:26	12/07/18 15:24	7440-47-3	
Copper	14.0	mg/kg	2.8	0.31	5	12/06/18 10:26	12/07/18 15:24	7440-50-8	
Lead	3.5	mg/kg	2.8	0.62	5	12/06/18 10:26	12/07/18 15:24	7439-92-1	
Nickel	5.4J	mg/kg	5.5	0.35	5	12/06/18 10:26	12/07/18 15:24	7440-02-0	D3
Selenium	<1.8	mg/kg	5.5	1.8	5	12/06/18 10:26	12/07/18 15:24	7782-49-2	D3
Silver	<0.20	mg/kg	2.8	0.20	5	12/06/18 10:26	12/07/18 15:24	7440-22-4	D3
Thallium	<1.3	mg/kg	5.5	1.3	5	12/06/18 10:26	12/07/18 15:24	7440-28-0	D3
Zinc	43.5	mg/kg	5.5	2.4	5	12/06/18 10:26	12/07/18 15:24	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B    Preparation Method: EPA 7471B									
Mercury	<0.0094	mg/kg	0.023	0.0094	1	12/06/18 10:00	12/10/18 18:01	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	14.3	%	0.10	0.10	1		12/14/18 10:44		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<42.1	ug/kg	384	42.1	1	12/10/18 08:54	12/13/18 21:31	120-82-1	
1,2-Dichlorobenzene	<40.3	ug/kg	384	40.3	1	12/10/18 08:54	12/13/18 21:31	95-50-1	
1,2-Diphenylhydrazine	<47.1	ug/kg	384	47.1	1	12/10/18 08:54	12/13/18 21:31	122-66-7	
1,3-Dichlorobenzene	<26.3	ug/kg	384	26.3	1	12/10/18 08:54	12/13/18 21:31	541-73-1	
1,4-Dichlorobenzene	<42.7	ug/kg	384	42.7	1	12/10/18 08:54	12/13/18 21:31	106-46-7	
2,4,5-Trichlorophenol	<49.5	ug/kg	384	49.5	1	12/10/18 08:54	12/13/18 21:31	95-95-4	
2,4,6-Trichlorophenol	<59.5	ug/kg	384	59.5	1	12/10/18 08:54	12/13/18 21:31	88-06-2	
2,4-Dichlorophenol	<64.1	ug/kg	384	64.1	1	12/10/18 08:54	12/13/18 21:31	120-83-2	
2,4-Dimethylphenol	<150	ug/kg	384	150	1	12/10/18 08:54	12/13/18 21:31	105-67-9	
2,4-Dinitrophenol	<179	ug/kg	384	179	1	12/10/18 08:54	12/13/18 21:31	51-28-5	
2,4-Dinitrotoluene	<48.9	ug/kg	384	48.9	1	12/10/18 08:54	12/13/18 21:31	121-14-2	
2,6-Dinitrotoluene	<50.9	ug/kg	384	50.9	1	12/10/18 08:54	12/13/18 21:31	606-20-2	
2-Chloronaphthalene	<34.0	ug/kg	384	34.0	1	12/10/18 08:54	12/13/18 21:31	91-58-7	
2-Chlorophenol	<43.8	ug/kg	384	43.8	1	12/10/18 08:54	12/13/18 21:31	95-57-8	
2-Methylphenol(o-Cresol)	<24.0	ug/kg	384	24.0	1	12/10/18 08:54	12/13/18 21:31	95-48-7	
2-Nitroaniline	<96.4	ug/kg	384	96.4	1	12/10/18 08:54	12/13/18 21:31	88-74-4	
2-Nitrophenol	<46.8	ug/kg	384	46.8	1	12/10/18 08:54	12/13/18 21:31	88-75-5	
3&4-Methylphenol(m&p Cresol)	<21.6	ug/kg	768	21.6	1	12/10/18 08:54	12/13/18 21:31		
3,3'-Dichlorobenzidine	<129	ug/kg	384	129	1	12/10/18 08:54	12/13/18 21:31	91-94-1	
3-Nitroaniline	<41.9	ug/kg	384	41.9	1	12/10/18 08:54	12/13/18 21:31	99-09-2	L2
4,6-Dinitro-2-methylphenol	<381	ug/kg	1980	381	1	12/10/18 08:54	12/13/18 21:31	534-52-1	
4-Bromophenylphenyl ether	<45.7	ug/kg	384	45.7	1	12/10/18 08:54	12/13/18 21:31	101-55-3	
4-Chloro-3-methylphenol	<61.5	ug/kg	384	61.5	1	12/10/18 08:54	12/13/18 21:31	59-50-7	
4-Chloroaniline	<102	ug/kg	384	102	1	12/10/18 08:54	12/13/18 21:31	106-47-8	
4-Chlorophenylphenyl ether	<47.6	ug/kg	384	47.6	1	12/10/18 08:54	12/13/18 21:31	7005-72-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
4-Nitroaniline	<56.1	ug/kg	384	56.1	1	12/10/18 08:54	12/13/18 21:31	100-01-6	
4-Nitrophenol	<74.5	ug/kg	384	74.5	1	12/10/18 08:54	12/13/18 21:31	100-02-7	
Butylbenzylphthalate	<35.1	ug/kg	384	35.1	1	12/10/18 08:54	12/13/18 21:31	85-68-7	
Carbazole	<31.9	ug/kg	384	31.9	1	12/10/18 08:54	12/13/18 21:31	86-74-8	
Di-n-butylphthalate	<52.6	ug/kg	384	52.6	1	12/10/18 08:54	12/13/18 21:31	84-74-2	
Di-n-octylphthalate	<44.6	ug/kg	384	44.6	1	12/10/18 08:54	12/13/18 21:31	117-84-0	
Dibenzofuran	<48.6	ug/kg	384	48.6	1	12/10/18 08:54	12/13/18 21:31	132-64-9	
Diethylphthalate	<34.2	ug/kg	384	34.2	1	12/10/18 08:54	12/13/18 21:31	84-66-2	
Dimethylphthalate	<52.1	ug/kg	384	52.1	1	12/10/18 08:54	12/13/18 21:31	131-11-3	
Hexachloro-1,3-butadiene	<58.4	ug/kg	384	58.4	1	12/10/18 08:54	12/13/18 21:31	87-68-3	
Hexachlorobenzene	<62.6	ug/kg	384	62.6	1	12/10/18 08:54	12/13/18 21:31	118-74-1	
Hexachloroethane	<49.9	ug/kg	384	49.9	1	12/10/18 08:54	12/13/18 21:31	67-72-1	
Isophorone	<29.6	ug/kg	384	29.6	1	12/10/18 08:54	12/13/18 21:31	78-59-1	
N-Nitroso-di-n-propylamine	<176	ug/kg	384	176	1	12/10/18 08:54	12/13/18 21:31	621-64-7	
N-Nitrosodimethylamine	<47.1	ug/kg	384	47.1	1	12/10/18 08:54	12/13/18 21:31	62-75-9	
N-Nitrosodiphenylamine	<24.9	ug/kg	384	24.9	1	12/10/18 08:54	12/13/18 21:31	86-30-6	
Nitrobenzene	<42.2	ug/kg	384	42.2	1	12/10/18 08:54	12/13/18 21:31	98-95-3	
Pentachlorophenol	<225	ug/kg	780	225	1	12/10/18 08:54	12/13/18 21:31	87-86-5	
Phenol	<25.1	ug/kg	384	25.1	1	12/10/18 08:54	12/13/18 21:31	108-95-2	
bis(2-Chloroethoxy)methane	<39.3	ug/kg	384	39.3	1	12/10/18 08:54	12/13/18 21:31	111-91-1	
bis(2-Chloroethyl) ether	<30.4	ug/kg	384	30.4	1	12/10/18 08:54	12/13/18 21:31	111-44-4	
bis(2-Chloroisopropyl) ether	<39.6	ug/kg	384	39.6	1	12/10/18 08:54	12/13/18 21:31	108-60-1	
bis(2-Ethylhexyl)phthalate	<80.1	ug/kg	384	80.1	1	12/10/18 08:54	12/13/18 21:31	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	75	%	43-125		1	12/10/18 08:54	12/13/18 21:31	4165-60-0	
2-Fluorobiphenyl (S)	75	%	30-132		1	12/10/18 08:54	12/13/18 21:31	321-60-8	
p-Terphenyl-d14 (S)	81	%	62-125		1	12/10/18 08:54	12/13/18 21:31	1718-51-0	
Phenol-d6 (S)	73	%	48-125		1	12/10/18 08:54	12/13/18 21:31	13127-88-3	
2-Fluorophenol (S)	69	%	40-125		1	12/10/18 08:54	12/13/18 21:31	367-12-4	
2,4,6-Tribromophenol (S)	64	%	60-125		1	12/10/18 08:54	12/13/18 21:31	118-79-6	
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550									
1-Methylnaphthalene	<0.62	ug/kg	11.6	0.62	1	12/06/18 19:27	12/07/18 19:35	90-12-0	
2-Methylnaphthalene	<0.59	ug/kg	11.6	0.59	1	12/06/18 19:27	12/07/18 19:35	91-57-6	
Acenaphthene	<0.47	ug/kg	11.6	0.47	1	12/06/18 19:27	12/07/18 19:35	83-32-9	
Acenaphthylene	<0.57	ug/kg	11.6	0.57	1	12/06/18 19:27	12/07/18 19:35	208-96-8	
Anthracene	<0.54	ug/kg	11.6	0.54	1	12/06/18 19:27	12/07/18 19:35	120-12-7	
Benzo(a)anthracene	<1.3	ug/kg	11.6	1.3	1	12/06/18 19:27	12/07/18 19:35	56-55-3	
Benzo(a)pyrene	<0.80	ug/kg	11.6	0.80	1	12/06/18 19:27	12/07/18 19:35	50-32-8	
Benzo(b)fluoranthene	<0.43	ug/kg	11.6	0.43	1	12/06/18 19:27	12/07/18 19:35	205-99-2	
Benzo(g,h,i)perylene	<0.73	ug/kg	11.6	0.73	1	12/06/18 19:27	12/07/18 19:35	191-24-2	
Benzo(k)fluoranthene	<0.98	ug/kg	11.6	0.98	1	12/06/18 19:27	12/07/18 19:35	207-08-9	
Chrysene	<1.6	ug/kg	11.6	1.6	1	12/06/18 19:27	12/07/18 19:35	218-01-9	
Dibenz(a,h)anthracene	<0.53	ug/kg	11.6	0.53	1	12/06/18 19:27	12/07/18 19:35	53-70-3	
Fluoranthene	<0.50	ug/kg	11.6	0.50	1	12/06/18 19:27	12/07/18 19:35	206-44-0	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Fluorene	<0.36	ug/kg	11.6	0.36	1	12/06/18 19:27	12/07/18 19:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.78	ug/kg	11.6	0.78	1	12/06/18 19:27	12/07/18 19:35	193-39-5	
Naphthalene	<0.89	ug/kg	11.6	0.89	1	12/06/18 19:27	12/07/18 19:35	91-20-3	
Phenanthrene	<2.2	ug/kg	11.6	2.2	1	12/06/18 19:27	12/07/18 19:35	85-01-8	
Pyrene	<1.8	ug/kg	11.6	1.8	1	12/06/18 19:27	12/07/18 19:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	75	%	42-125		1	12/06/18 19:27	12/07/18 19:35	321-60-8	
p-Terphenyl-d14 (S)	79	%	57-125		1	12/06/18 19:27	12/07/18 19:35	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.25	ug/kg	4.5	0.25	1	03/06/19 14:15	03/06/19 20:31	106-93-4	
Methylene Chloride	<4.1	ug/kg	22.3	4.1	1	03/06/19 14:15	03/06/19 20:31	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	03/06/19 14:15	03/06/19 20:31	17060-07-0	4M,H3
Toluene-d8 (S)	99	%	75-125		1	03/06/19 14:15	03/06/19 20:31	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125		1	03/06/19 14:15	03/06/19 20:31	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<18.8	ug/kg	59.9	18.8	1	12/13/18 09:18	12/13/18 17:06	630-20-6	
1,1,1-Trichloroethane	<27.9	ug/kg	59.9	27.9	1	12/13/18 09:18	12/13/18 17:06	71-55-6	
1,1,2,2-Tetrachloroethane	<10.6	ug/kg	59.9	10.6	1	12/13/18 09:18	12/13/18 17:06	79-34-5	
1,1,2-Trichloroethane	<7.2	ug/kg	59.9	7.2	1	12/13/18 09:18	12/13/18 17:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	<69.5	ug/kg	240	69.5	1	12/13/18 09:18	12/13/18 17:06	76-13-1	
1,1-Dichloroethane	<6.7	ug/kg	59.9	6.7	1	12/13/18 09:18	12/13/18 17:06	75-34-3	
1,1-Dichloroethene	<18.0	ug/kg	59.9	18.0	1	12/13/18 09:18	12/13/18 17:06	75-35-4	
1,1-Dichloropropene	<27.7	ug/kg	59.9	27.7	1	12/13/18 09:18	12/13/18 17:06	563-58-6	
1,2,3-Trichlorobenzene	<9.6	ug/kg	59.9	9.6	1	12/13/18 09:18	12/13/18 17:06	87-61-6	
1,2,3-Trichloropropane	<15.7	ug/kg	240	15.7	1	12/13/18 09:18	12/13/18 17:06	96-18-4	
1,2,4-Trichlorobenzene	<13.3	ug/kg	59.9	13.3	1	12/13/18 09:18	12/13/18 17:06	120-82-1	
1,2,4-Trimethylbenzene	<12.0	ug/kg	59.9	12.0	1	12/13/18 09:18	12/13/18 17:06	95-63-6	
1,2-Dibromo-3-chloropropane	<209	ug/kg	599	209	1	12/13/18 09:18	12/13/18 17:06	96-12-8	
1,2-Dibromoethane (EDB)	<6.3	ug/kg	59.9	6.3	1	12/13/18 09:18	12/13/18 17:06	106-93-4	
1,2-Dichlorobenzene	<2.4	ug/kg	59.9	2.4	1	12/13/18 09:18	12/13/18 17:06	95-50-1	
1,2-Dichloroethane	<6.6	ug/kg	59.9	6.6	1	12/13/18 09:18	12/13/18 17:06	107-06-2	
1,2-Dichloropropane	<10.3	ug/kg	59.9	10.3	1	12/13/18 09:18	12/13/18 17:06	78-87-5	
1,3,5-Trimethylbenzene	<9.6	ug/kg	59.9	9.6	1	12/13/18 09:18	12/13/18 17:06	108-67-8	
1,3-Dichlorobenzene	<2.2	ug/kg	59.9	2.2	1	12/13/18 09:18	12/13/18 17:06	541-73-1	
1,3-Dichloropropane	<8.3	ug/kg	59.9	8.3	1	12/13/18 09:18	12/13/18 17:06	142-28-9	
1,4-Dichlorobenzene	<3.7	ug/kg	59.9	3.7	1	12/13/18 09:18	12/13/18 17:06	106-46-7	
2,2-Dichloropropane	<7.5	ug/kg	240	7.5	1	12/13/18 09:18	12/13/18 17:06	594-20-7	
2-Butanone (MEK)	<31.9	ug/kg	300	31.9	1	12/13/18 09:18	12/13/18 17:06	78-93-3	
2-Chlorotoluene	<2.9	ug/kg	59.9	2.9	1	12/13/18 09:18	12/13/18 17:06	95-49-8	
4-Chlorotoluene	<3.1	ug/kg	59.9	3.1	1	12/13/18 09:18	12/13/18 17:06	106-43-4	
4-Methyl-2-pentanone (MIBK)	<12.5	ug/kg	300	12.5	1	12/13/18 09:18	12/13/18 17:06	108-10-1	
Acetone	<373	ug/kg	1200	373	1	12/13/18 09:18	12/13/18 17:06	67-64-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-3 (7-8.5)**      **Lab ID: 10457528004**      Collected: 11/30/18 09:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Allyl chloride	<50.2	ug/kg	240	50.2	1	12/13/18 09:18	12/13/18 17:06	107-05-1	
Benzene	<3.4	ug/kg	24.0	3.4	1	12/13/18 09:18	12/13/18 17:06	71-43-2	B
Bromobenzene	<3.7	ug/kg	59.9	3.7	1	12/13/18 09:18	12/13/18 17:06	108-86-1	
Bromochloromethane	<20.7	ug/kg	59.9	20.7	1	12/13/18 09:18	12/13/18 17:06	74-97-5	
Bromodichloromethane	<20.5	ug/kg	59.9	20.5	1	12/13/18 09:18	12/13/18 17:06	75-27-4	
Bromoform	<90.7	ug/kg	240	90.7	1	12/13/18 09:18	12/13/18 17:06	75-25-2	
Bromomethane	<70.1	ug/kg	599	70.1	1	12/13/18 09:18	12/13/18 17:06	74-83-9	
Carbon tetrachloride	<28.6	ug/kg	240	28.6	1	12/13/18 09:18	12/13/18 17:06	56-23-5	
Chlorobenzene	<3.4	ug/kg	59.9	3.4	1	12/13/18 09:18	12/13/18 17:06	108-90-7	
Chloroethane	<31.2	ug/kg	599	31.2	1	12/13/18 09:18	12/13/18 17:06	75-00-3	
Chloroform	<30.0	ug/kg	59.9	30.0	1	12/13/18 09:18	12/13/18 17:06	67-66-3	
Chloromethane	<14.4	ug/kg	240	14.4	1	12/13/18 09:18	12/13/18 17:06	74-87-3	
Dibromochloromethane	<7.0	ug/kg	240	7.0	1	12/13/18 09:18	12/13/18 17:06	124-48-1	
Dibromomethane	<11.0	ug/kg	59.9	11.0	1	12/13/18 09:18	12/13/18 17:06	74-95-3	
Dichlorodifluoromethane	<19.4	ug/kg	240	19.4	1	12/13/18 09:18	12/13/18 17:06	75-71-8	
Dichlorofluoromethane	<82.8	ug/kg	599	82.8	1	12/13/18 09:18	12/13/18 17:06	75-43-4	N2
Diethyl ether (Ethyl ether)	<36.7	ug/kg	240	36.7	1	12/13/18 09:18	12/13/18 17:06	60-29-7	
Ethylbenzene	<3.3	ug/kg	59.9	3.3	1	12/13/18 09:18	12/13/18 17:06	100-41-4	
Hexachloro-1,3-butadiene	<14.6	ug/kg	300	14.6	1	12/13/18 09:18	12/13/18 17:06	87-68-3	
Isopropylbenzene (Cumene)	<2.7	ug/kg	59.9	2.7	1	12/13/18 09:18	12/13/18 17:06	98-82-8	
Methyl-tert-butyl ether	<7.1	ug/kg	59.9	7.1	1	12/13/18 09:18	12/13/18 17:06	1634-04-4	
Methylene Chloride	<113	ug/kg	240	113	1	12/13/18 09:18	12/13/18 17:06	75-09-2	
Naphthalene	<56.1	ug/kg	240	56.1	1	12/13/18 09:18	12/13/18 17:06	91-20-3	
Styrene	<2.7	ug/kg	59.9	2.7	1	12/13/18 09:18	12/13/18 17:06	100-42-5	
Tetrachloroethene	<21.1	ug/kg	59.9	21.1	1	12/13/18 09:18	12/13/18 17:06	127-18-4	
Tetrahydrofuran	<87.1	ug/kg	2400	87.1	1	12/13/18 09:18	12/13/18 17:06	109-99-9	
Toluene	<14.6	ug/kg	59.9	14.6	1	12/13/18 09:18	12/13/18 17:06	108-88-3	
Trichloroethene	<9.2	ug/kg	59.9	9.2	1	12/13/18 09:18	12/13/18 17:06	79-01-6	
Trichlorofluoromethane	<105	ug/kg	240	105	1	12/13/18 09:18	12/13/18 17:06	75-69-4	
Vinyl chloride	<11.8	ug/kg	24.0	11.8	1	12/13/18 09:18	12/13/18 17:06	75-01-4	
Xylene (Total)	<13.9	ug/kg	180	13.9	1	12/13/18 09:18	12/13/18 17:06	1330-20-7	
cis-1,2-Dichloroethene	<9.9	ug/kg	59.9	9.9	1	12/13/18 09:18	12/13/18 17:06	156-59-2	
cis-1,3-Dichloropropene	<8.6	ug/kg	59.9	8.6	1	12/13/18 09:18	12/13/18 17:06	10061-01-5	
n-Butylbenzene	<28.5	ug/kg	59.9	28.5	1	12/13/18 09:18	12/13/18 17:06	104-51-8	
n-Propylbenzene	<3.2	ug/kg	59.9	3.2	1	12/13/18 09:18	12/13/18 17:06	103-65-1	
p-Isopropyltoluene	<18.2	ug/kg	59.9	18.2	1	12/13/18 09:18	12/13/18 17:06	99-87-6	
sec-Butylbenzene	<11.5	ug/kg	59.9	11.5	1	12/13/18 09:18	12/13/18 17:06	135-98-8	
tert-Butylbenzene	<11.5	ug/kg	59.9	11.5	1	12/13/18 09:18	12/13/18 17:06	98-06-6	
trans-1,2-Dichloroethene	<28.0	ug/kg	59.9	28.0	1	12/13/18 09:18	12/13/18 17:06	156-60-5	
trans-1,3-Dichloropropene	<8.3	ug/kg	59.9	8.3	1	12/13/18 09:18	12/13/18 17:06	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	12/13/18 09:18	12/13/18 17:06	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/13/18 09:18	12/13/18 17:06	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/13/18 09:18	12/13/18 17:06	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b>									
Analytical Method: EPA 8081B    Preparation Method: EPA 3550									
Aldrin	<1.1	ug/kg	10.5	1.1	5	12/07/18 10:43	12/13/18 23:10	309-00-2	
alpha-BHC	<0.76	ug/kg	10.5	0.76	5	12/07/18 10:43	12/13/18 23:10	319-84-6	
beta-BHC	<1.4	ug/kg	10.5	1.4	5	12/07/18 10:43	12/13/18 23:10	319-85-7	
delta-BHC	<0.87	ug/kg	10.5	0.87	5	12/07/18 10:43	12/13/18 23:10	319-86-8	
gamma-BHC (Lindane)	<0.90	ug/kg	10.5	0.90	5	12/07/18 10:43	12/13/18 23:10	58-89-9	
Chlordane (Technical)	<19.2	ug/kg	105	19.2	5	12/07/18 10:43	12/13/18 23:10	57-74-9	
alpha-Chlordane	<0.85	ug/kg	10.5	0.85	5	12/07/18 10:43	12/13/18 23:10	5103-71-9	
gamma-Chlordane	<2.4	ug/kg	10.5	2.4	5	12/07/18 10:43	12/13/18 23:10	5103-74-2	
4,4'-DDD	<1.9	ug/kg	21.0	1.9	5	12/07/18 10:43	12/13/18 23:10	72-54-8	
4,4'-DDE	<1.6	ug/kg	21.0	1.6	5	12/07/18 10:43	12/13/18 23:10	72-55-9	
4,4'-DDT	<2.6	ug/kg	21.0	2.6	5	12/07/18 10:43	12/13/18 23:10	50-29-3	
Dieldrin	<2.0	ug/kg	21.0	2.0	5	12/07/18 10:43	12/13/18 23:10	60-57-1	
Endosulfan I	<0.95	ug/kg	10.5	0.95	5	12/07/18 10:43	12/13/18 23:10	959-98-8	
Endosulfan II	<2.1	ug/kg	21.0	2.1	5	12/07/18 10:43	12/13/18 23:10	33213-65-9	
Endosulfan sulfate	<2.2	ug/kg	21.0	2.2	5	12/07/18 10:43	12/13/18 23:10	1031-07-8	
Endrin	<1.9	ug/kg	21.0	1.9	5	12/07/18 10:43	12/13/18 23:10	72-20-8	
Endrin aldehyde	<6.6	ug/kg	21.0	6.6	5	12/07/18 10:43	12/13/18 23:10	7421-93-4	
Endrin ketone	<2.5	ug/kg	21.0	2.5	5	12/07/18 10:43	12/13/18 23:10	53494-70-5	
Heptachlor	<1.1	ug/kg	10.5	1.1	5	12/07/18 10:43	12/13/18 23:10	76-44-8	
Heptachlor epoxide	<0.99	ug/kg	10.5	0.99	5	12/07/18 10:43	12/13/18 23:10	1024-57-3	
Methoxychlor	<15.8	ug/kg	105	15.8	5	12/07/18 10:43	12/13/18 23:10	72-43-5	
Toxaphene	<49.9	ug/kg	315	49.9	5	12/07/18 10:43	12/13/18 23:10	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	84	%	30-150		5	12/07/18 10:43	12/13/18 23:10	877-09-8	8M,D3
Decachlorobiphenyl (S)	98	%	30-150		5	12/07/18 10:43	12/13/18 23:10	2051-24-3	
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<11.6	ug/kg	41.7	11.6	1	12/06/18 17:46	12/10/18 14:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<14.7	ug/kg	41.7	14.7	1	12/06/18 17:46	12/10/18 14:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.7	ug/kg	41.7	16.7	1	12/06/18 17:46	12/10/18 14:39	11141-16-5	
PCB-1242 (Aroclor 1242)	21.0J	ug/kg	41.7	14.2	1	12/06/18 17:46	12/10/18 14:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<12.5	ug/kg	41.7	12.5	1	12/06/18 17:46	12/10/18 14:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<12.3	ug/kg	41.7	12.3	1	12/06/18 17:46	12/10/18 14:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<10	ug/kg	41.7	10	1	12/06/18 17:46	12/10/18 14:39	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	91	%	48-125		1	12/06/18 17:46	12/10/18 14:39	877-09-8	
Decachlorobiphenyl (S)	110	%	30-134		1	12/06/18 17:46	12/10/18 14:39	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3550									
Diesel Fuel Range	29.7	mg/kg	19.0	3.1	1	12/14/18 19:17	12/15/18 17:04	68334-30-5	
Motor Oil Range	33.8	mg/kg	12.6	5.5	1	12/14/18 19:17	12/15/18 17:04		
<b>Surrogates</b>									
n-Triacontane (S)	100	%	50-150		1	12/14/18 19:17	12/15/18 17:04	638-68-6	
o-Terphenyl (S)	93	%	50-150		1	12/14/18 19:17	12/15/18 17:04	84-15-1	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<0.94	mg/kg	7.1	0.94	1	12/13/18 15:01	12/14/18 03:37		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	90	%	50-150		1	12/13/18 15:01	12/14/18 03:37	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<2.2	mg/kg	5.8	2.2	5	12/06/18 10:26	12/07/18 15:25	7440-36-0	D3
Arsenic	5.6J	mg/kg	5.8	1.2	5	12/06/18 10:26	12/07/18 15:25	7440-38-2	D3
Beryllium	0.11J	mg/kg	1.4	0.077	5	12/06/18 10:26	12/07/18 15:25	7440-41-7	D3
Cadmium	<0.11	mg/kg	0.87	0.11	5	12/06/18 10:26	12/07/18 15:25	7440-43-9	D3
Chromium	9.8	mg/kg	2.9	0.50	5	12/06/18 10:26	12/07/18 15:25	7440-47-3	
Copper	25.8	mg/kg	2.9	0.32	5	12/06/18 10:26	12/07/18 15:25	7440-50-8	
Lead	6.7	mg/kg	2.9	0.65	5	12/06/18 10:26	12/07/18 15:25	7439-92-1	
Nickel	16.8	mg/kg	5.8	0.36	5	12/06/18 10:26	12/07/18 15:25	7440-02-0	
Selenium	<1.9	mg/kg	5.8	1.9	5	12/06/18 10:26	12/07/18 15:25	7782-49-2	D3
Silver	<0.21	mg/kg	2.9	0.21	5	12/06/18 10:26	12/07/18 15:25	7440-22-4	D3
Thallium	<1.3	mg/kg	5.8	1.3	5	12/06/18 10:26	12/07/18 15:25	7440-28-0	D3
Zinc	71.6	mg/kg	5.8	2.5	5	12/06/18 10:26	12/07/18 15:25	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.017J	mg/kg	0.022	0.0088	1	12/06/18 10:00	12/10/18 18:03	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	21.3	%	0.10	0.10	1		12/14/18 10:44		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<45.7	ug/kg	416	45.7	1	12/10/18 08:54	12/13/18 22:01	120-82-1	
1,2-Dichlorobenzene	<43.7	ug/kg	416	43.7	1	12/10/18 08:54	12/13/18 22:01	95-50-1	
1,2-Diphenylhydrazine	<51.1	ug/kg	416	51.1	1	12/10/18 08:54	12/13/18 22:01	122-66-7	
1,3-Dichlorobenzene	<28.5	ug/kg	416	28.5	1	12/10/18 08:54	12/13/18 22:01	541-73-1	
1,4-Dichlorobenzene	<46.3	ug/kg	416	46.3	1	12/10/18 08:54	12/13/18 22:01	106-46-7	
2,4,5-Trichlorophenol	<53.6	ug/kg	416	53.6	1	12/10/18 08:54	12/13/18 22:01	95-95-4	
2,4,6-Trichlorophenol	<64.5	ug/kg	416	64.5	1	12/10/18 08:54	12/13/18 22:01	88-06-2	
2,4-Dichlorophenol	<69.5	ug/kg	416	69.5	1	12/10/18 08:54	12/13/18 22:01	120-83-2	
2,4-Dimethylphenol	<163	ug/kg	416	163	1	12/10/18 08:54	12/13/18 22:01	105-67-9	
2,4-Dinitrophenol	<194	ug/kg	416	194	1	12/10/18 08:54	12/13/18 22:01	51-28-5	
2,4-Dinitrotoluene	<53.0	ug/kg	416	53.0	1	12/10/18 08:54	12/13/18 22:01	121-14-2	
2,6-Dinitrotoluene	<55.1	ug/kg	416	55.1	1	12/10/18 08:54	12/13/18 22:01	606-20-2	
2-Chloronaphthalene	<36.8	ug/kg	416	36.8	1	12/10/18 08:54	12/13/18 22:01	91-58-7	
2-Chlorophenol	<47.4	ug/kg	416	47.4	1	12/10/18 08:54	12/13/18 22:01	95-57-8	
2-Methylphenol(o-Cresol)	<26.0	ug/kg	416	26.0	1	12/10/18 08:54	12/13/18 22:01	95-48-7	
2-Nitroaniline	<104	ug/kg	416	104	1	12/10/18 08:54	12/13/18 22:01	88-74-4	
2-Nitrophenol	<50.7	ug/kg	416	50.7	1	12/10/18 08:54	12/13/18 22:01	88-75-5	
3&4-Methylphenol(m&p Cresol)	<23.5	ug/kg	833	23.5	1	12/10/18 08:54	12/13/18 22:01		
3,3'-Dichlorobenzidine	<140	ug/kg	416	140	1	12/10/18 08:54	12/13/18 22:01	91-94-1	
3-Nitroaniline	<45.4	ug/kg	416	45.4	1	12/10/18 08:54	12/13/18 22:01	99-09-2	L2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3550									
4,6-Dinitro-2-methylphenol	<413	ug/kg	2150	413	1	12/10/18 08:54	12/13/18 22:01	534-52-1	
4-Bromophenylphenyl ether	<49.6	ug/kg	416	49.6	1	12/10/18 08:54	12/13/18 22:01	101-55-3	
4-Chloro-3-methylphenol	<66.6	ug/kg	416	66.6	1	12/10/18 08:54	12/13/18 22:01	59-50-7	
4-Chloroaniline	<111	ug/kg	416	111	1	12/10/18 08:54	12/13/18 22:01	106-47-8	
4-Chlorophenylphenyl ether	<51.6	ug/kg	416	51.6	1	12/10/18 08:54	12/13/18 22:01	7005-72-3	
4-Nitroaniline	<60.8	ug/kg	416	60.8	1	12/10/18 08:54	12/13/18 22:01	100-01-6	
4-Nitrophenol	<80.8	ug/kg	416	80.8	1	12/10/18 08:54	12/13/18 22:01	100-02-7	
Butylbenzylphthalate	<38.1	ug/kg	416	38.1	1	12/10/18 08:54	12/13/18 22:01	85-68-7	
Carbazole	<34.6	ug/kg	416	34.6	1	12/10/18 08:54	12/13/18 22:01	86-74-8	
Di-n-butylphthalate	<57.0	ug/kg	416	57.0	1	12/10/18 08:54	12/13/18 22:01	84-74-2	
Di-n-octylphthalate	<48.3	ug/kg	416	48.3	1	12/10/18 08:54	12/13/18 22:01	117-84-0	
Dibenzofuran	<52.7	ug/kg	416	52.7	1	12/10/18 08:54	12/13/18 22:01	132-64-9	
Diethylphthalate	<37.1	ug/kg	416	37.1	1	12/10/18 08:54	12/13/18 22:01	84-66-2	
Dimethylphthalate	<56.5	ug/kg	416	56.5	1	12/10/18 08:54	12/13/18 22:01	131-11-3	
Hexachloro-1,3-butadiene	<63.3	ug/kg	416	63.3	1	12/10/18 08:54	12/13/18 22:01	87-68-3	
Hexachlorobenzene	<67.9	ug/kg	416	67.9	1	12/10/18 08:54	12/13/18 22:01	118-74-1	
Hexachloroethane	<54.1	ug/kg	416	54.1	1	12/10/18 08:54	12/13/18 22:01	67-72-1	
Isophorone	<32.0	ug/kg	416	32.0	1	12/10/18 08:54	12/13/18 22:01	78-59-1	
N-Nitroso-di-n-propylamine	<191	ug/kg	416	191	1	12/10/18 08:54	12/13/18 22:01	621-64-7	
N-Nitrosodimethylamine	<51.1	ug/kg	416	51.1	1	12/10/18 08:54	12/13/18 22:01	62-75-9	
N-Nitrosodiphenylamine	<27.0	ug/kg	416	27.0	1	12/10/18 08:54	12/13/18 22:01	86-30-6	
Nitrobenzene	<45.8	ug/kg	416	45.8	1	12/10/18 08:54	12/13/18 22:01	98-95-3	
Pentachlorophenol	<244	ug/kg	845	244	1	12/10/18 08:54	12/13/18 22:01	87-86-5	
Phenol	<27.3	ug/kg	416	27.3	1	12/10/18 08:54	12/13/18 22:01	108-95-2	
bis(2-Chloroethoxy)methane	<42.6	ug/kg	416	42.6	1	12/10/18 08:54	12/13/18 22:01	111-91-1	
bis(2-Chloroethyl) ether	<32.9	ug/kg	416	32.9	1	12/10/18 08:54	12/13/18 22:01	111-44-4	
bis(2-Chloroisopropyl) ether	<42.9	ug/kg	416	42.9	1	12/10/18 08:54	12/13/18 22:01	108-60-1	
bis(2-Ethylhexyl)phthalate	<86.8	ug/kg	416	86.8	1	12/10/18 08:54	12/13/18 22:01	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	70	%	43-125		1	12/10/18 08:54	12/13/18 22:01	4165-60-0	
2-Fluorobiphenyl (S)	74	%	30-132		1	12/10/18 08:54	12/13/18 22:01	321-60-8	
p-Terphenyl-d14 (S)	78	%	62-125		1	12/10/18 08:54	12/13/18 22:01	1718-51-0	
Phenol-d6 (S)	69	%	48-125		1	12/10/18 08:54	12/13/18 22:01	13127-88-3	
2-Fluorophenol (S)	62	%	40-125		1	12/10/18 08:54	12/13/18 22:01	367-12-4	
2,4,6-Tribromophenol (S)	56	%	60-125		1	12/10/18 08:54	12/13/18 22:01	118-79-6	S0

### 8270D MSSV PAH by SIM

Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550

1-Methylnaphthalene	<0.67	ug/kg	12.6	0.67	1	12/06/18 19:27	12/07/18 19:56	90-12-0	
2-Methylnaphthalene	<0.63	ug/kg	12.6	0.63	1	12/06/18 19:27	12/07/18 19:56	91-57-6	
Acenaphthene	<0.51	ug/kg	12.6	0.51	1	12/06/18 19:27	12/07/18 19:56	83-32-9	
Acenaphthylene	<0.62	ug/kg	12.6	0.62	1	12/06/18 19:27	12/07/18 19:56	208-96-8	
Anthracene	<0.59	ug/kg	12.6	0.59	1	12/06/18 19:27	12/07/18 19:56	120-12-7	
Benzo(a)anthracene	<1.4	ug/kg	12.6	1.4	1	12/06/18 19:27	12/07/18 19:56	56-55-3	
Benzo(a)pyrene	<0.86	ug/kg	12.6	0.86	1	12/06/18 19:27	12/07/18 19:56	50-32-8	
Benzo(b)fluoranthene	<0.47	ug/kg	12.6	0.47	1	12/06/18 19:27	12/07/18 19:56	205-99-2	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV PAH by SIM</b>									
Analytical Method: EPA 8270D by SIM      Preparation Method: EPA 3550									
Benzo(g,h,i)perylene	<0.80	ug/kg	12.6	0.80	1	12/06/18 19:27	12/07/18 19:56	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/kg	12.6	1.1	1	12/06/18 19:27	12/07/18 19:56	207-08-9	
Chrysene	<1.7	ug/kg	12.6	1.7	1	12/06/18 19:27	12/07/18 19:56	218-01-9	
Dibenz(a,h)anthracene	<0.58	ug/kg	12.6	0.58	1	12/06/18 19:27	12/07/18 19:56	53-70-3	
Fluoranthene	<0.54	ug/kg	12.6	0.54	1	12/06/18 19:27	12/07/18 19:56	206-44-0	
Fluorene	<0.39	ug/kg	12.6	0.39	1	12/06/18 19:27	12/07/18 19:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.84	ug/kg	12.6	0.84	1	12/06/18 19:27	12/07/18 19:56	193-39-5	
Naphthalene	<0.97	ug/kg	12.6	0.97	1	12/06/18 19:27	12/07/18 19:56	91-20-3	
Phenanthrene	<2.4	ug/kg	12.6	2.4	1	12/06/18 19:27	12/07/18 19:56	85-01-8	
Pyrene	<1.9	ug/kg	12.6	1.9	1	12/06/18 19:27	12/07/18 19:56	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	42-125		1	12/06/18 19:27	12/07/18 19:56	321-60-8	
p-Terphenyl-d14 (S)	78	%	57-125		1	12/06/18 19:27	12/07/18 19:56	1718-51-0	
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low									
1,2-Dibromoethane (EDB)	<0.28	ug/kg	5.0	0.28	1	03/06/19 14:15	03/06/19 20:50	106-93-4	
Methylene Chloride	<4.6	ug/kg	24.9	4.6	1	03/06/19 14:15	03/06/19 20:50	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	03/06/19 14:15	03/06/19 20:50	17060-07-0	5M,H3
Toluene-d8 (S)	100	%	75-125		1	03/06/19 14:15	03/06/19 20:50	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125		1	03/06/19 14:15	03/06/19 20:50	460-00-4	
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<20.8	ug/kg	66.4	20.8	1	12/13/18 09:18	12/13/18 17:23	630-20-6	
1,1,1-Trichloroethane	<30.9	ug/kg	66.4	30.9	1	12/13/18 09:18	12/13/18 17:23	71-55-6	
1,1,2,2-Tetrachloroethane	<11.7	ug/kg	66.4	11.7	1	12/13/18 09:18	12/13/18 17:23	79-34-5	
1,1,2-Trichloroethane	<7.9	ug/kg	66.4	7.9	1	12/13/18 09:18	12/13/18 17:23	79-00-5	
1,1,2-Trichlorotrifluoroethane	<77.0	ug/kg	266	77.0	1	12/13/18 09:18	12/13/18 17:23	76-13-1	
1,1-Dichloroethane	<7.4	ug/kg	66.4	7.4	1	12/13/18 09:18	12/13/18 17:23	75-34-3	
1,1-Dichloroethene	<19.9	ug/kg	66.4	19.9	1	12/13/18 09:18	12/13/18 17:23	75-35-4	
1,1-Dichloropropene	<30.7	ug/kg	66.4	30.7	1	12/13/18 09:18	12/13/18 17:23	563-58-6	
1,2,3-Trichlorobenzene	<10.6	ug/kg	66.4	10.6	1	12/13/18 09:18	12/13/18 17:23	87-61-6	
1,2,3-Trichloropropane	<17.4	ug/kg	266	17.4	1	12/13/18 09:18	12/13/18 17:23	96-18-4	
1,2,4-Trichlorobenzene	<14.7	ug/kg	66.4	14.7	1	12/13/18 09:18	12/13/18 17:23	120-82-1	
1,2,4-Trimethylbenzene	<13.3	ug/kg	66.4	13.3	1	12/13/18 09:18	12/13/18 17:23	95-63-6	
1,2-Dibromo-3-chloropropane	<231	ug/kg	664	231	1	12/13/18 09:18	12/13/18 17:23	96-12-8	
1,2-Dibromoethane (EDB)	<7.0	ug/kg	66.4	7.0	1	12/13/18 09:18	12/13/18 17:23	106-93-4	
1,2-Dichlorobenzene	<2.7	ug/kg	66.4	2.7	1	12/13/18 09:18	12/13/18 17:23	95-50-1	
1,2-Dichloroethane	<7.3	ug/kg	66.4	7.3	1	12/13/18 09:18	12/13/18 17:23	107-06-2	
1,2-Dichloropropane	<11.4	ug/kg	66.4	11.4	1	12/13/18 09:18	12/13/18 17:23	78-87-5	
1,3,5-Trimethylbenzene	<10.6	ug/kg	66.4	10.6	1	12/13/18 09:18	12/13/18 17:23	108-67-8	
1,3-Dichlorobenzene	<2.4	ug/kg	66.4	2.4	1	12/13/18 09:18	12/13/18 17:23	541-73-1	
1,3-Dichloropropane	<9.2	ug/kg	66.4	9.2	1	12/13/18 09:18	12/13/18 17:23	142-28-9	
1,4-Dichlorobenzene	<4.1	ug/kg	66.4	4.1	1	12/13/18 09:18	12/13/18 17:23	106-46-7	
2,2-Dichloropropane	<8.3	ug/kg	266	8.3	1	12/13/18 09:18	12/13/18 17:23	594-20-7	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
2-Butanone (MEK)	<35.3	ug/kg	332	35.3	1	12/13/18 09:18	12/13/18 17:23	78-93-3	
2-Chlorotoluene	<3.3	ug/kg	66.4	3.3	1	12/13/18 09:18	12/13/18 17:23	95-49-8	
4-Chlorotoluene	<3.4	ug/kg	66.4	3.4	1	12/13/18 09:18	12/13/18 17:23	106-43-4	
4-Methyl-2-pentanone (MIBK)	<13.8	ug/kg	332	13.8	1	12/13/18 09:18	12/13/18 17:23	108-10-1	
Acetone	<413	ug/kg	1330	413	1	12/13/18 09:18	12/13/18 17:23	67-64-1	
Allyl chloride	<55.6	ug/kg	266	55.6	1	12/13/18 09:18	12/13/18 17:23	107-05-1	
Benzene	<3.7	ug/kg	26.6	3.7	1	12/13/18 09:18	12/13/18 17:23	71-43-2	
Bromobenzene	<4.1	ug/kg	66.4	4.1	1	12/13/18 09:18	12/13/18 17:23	108-86-1	
Bromochloromethane	<23.0	ug/kg	66.4	23.0	1	12/13/18 09:18	12/13/18 17:23	74-97-5	
Bromodichloromethane	<22.7	ug/kg	66.4	22.7	1	12/13/18 09:18	12/13/18 17:23	75-27-4	
Bromoform	<101	ug/kg	266	101	1	12/13/18 09:18	12/13/18 17:23	75-25-2	
Bromomethane	<77.7	ug/kg	664	77.7	1	12/13/18 09:18	12/13/18 17:23	74-83-9	
Carbon tetrachloride	<31.7	ug/kg	266	31.7	1	12/13/18 09:18	12/13/18 17:23	56-23-5	
Chlorobenzene	<3.7	ug/kg	66.4	3.7	1	12/13/18 09:18	12/13/18 17:23	108-90-7	
Chloroethane	<34.5	ug/kg	664	34.5	1	12/13/18 09:18	12/13/18 17:23	75-00-3	
Chloroform	<33.2	ug/kg	66.4	33.2	1	12/13/18 09:18	12/13/18 17:23	67-66-3	
Chloromethane	<15.9	ug/kg	266	15.9	1	12/13/18 09:18	12/13/18 17:23	74-87-3	
Dibromochloromethane	<7.7	ug/kg	266	7.7	1	12/13/18 09:18	12/13/18 17:23	124-48-1	
Dibromomethane	<12.2	ug/kg	66.4	12.2	1	12/13/18 09:18	12/13/18 17:23	74-95-3	
Dichlorodifluoromethane	<21.5	ug/kg	266	21.5	1	12/13/18 09:18	12/13/18 17:23	75-71-8	
Dichlorofluoromethane	<91.7	ug/kg	664	91.7	1	12/13/18 09:18	12/13/18 17:23	75-43-4	N2
Diethyl ether (Ethyl ether)	<40.6	ug/kg	266	40.6	1	12/13/18 09:18	12/13/18 17:23	60-29-7	
Ethylbenzene	<3.6	ug/kg	66.4	3.6	1	12/13/18 09:18	12/13/18 17:23	100-41-4	
Hexachloro-1,3-butadiene	<16.2	ug/kg	332	16.2	1	12/13/18 09:18	12/13/18 17:23	87-68-3	
Isopropylbenzene (Cumene)	<2.9	ug/kg	66.4	2.9	1	12/13/18 09:18	12/13/18 17:23	98-82-8	
Methyl-tert-butyl ether	<7.9	ug/kg	66.4	7.9	1	12/13/18 09:18	12/13/18 17:23	1634-04-4	
Methylene Chloride	<125	ug/kg	266	125	1	12/13/18 09:18	12/13/18 17:23	75-09-2	
Naphthalene	<62.1	ug/kg	266	62.1	1	12/13/18 09:18	12/13/18 17:23	91-20-3	
Styrene	<3.0	ug/kg	66.4	3.0	1	12/13/18 09:18	12/13/18 17:23	100-42-5	
Tetrachloroethene	<23.4	ug/kg	66.4	23.4	1	12/13/18 09:18	12/13/18 17:23	127-18-4	
Tetrahydrofuran	<96.5	ug/kg	2660	96.5	1	12/13/18 09:18	12/13/18 17:23	109-99-9	
Toluene	<16.2	ug/kg	66.4	16.2	1	12/13/18 09:18	12/13/18 17:23	108-88-3	
Trichloroethene	<10.2	ug/kg	66.4	10.2	1	12/13/18 09:18	12/13/18 17:23	79-01-6	
Trichlorofluoromethane	<116	ug/kg	266	116	1	12/13/18 09:18	12/13/18 17:23	75-69-4	
Vinyl chloride	<13.1	ug/kg	26.6	13.1	1	12/13/18 09:18	12/13/18 17:23	75-01-4	
Xylene (Total)	<15.4	ug/kg	199	15.4	1	12/13/18 09:18	12/13/18 17:23	1330-20-7	
cis-1,2-Dichloroethene	<11.0	ug/kg	66.4	11.0	1	12/13/18 09:18	12/13/18 17:23	156-59-2	
cis-1,3-Dichloropropene	<9.5	ug/kg	66.4	9.5	1	12/13/18 09:18	12/13/18 17:23	10061-01-5	
n-Butylbenzene	<31.6	ug/kg	66.4	31.6	1	12/13/18 09:18	12/13/18 17:23	104-51-8	
n-Propylbenzene	<3.5	ug/kg	66.4	3.5	1	12/13/18 09:18	12/13/18 17:23	103-65-1	
p-Isopropyltoluene	<20.2	ug/kg	66.4	20.2	1	12/13/18 09:18	12/13/18 17:23	99-87-6	
sec-Butylbenzene	<12.7	ug/kg	66.4	12.7	1	12/13/18 09:18	12/13/18 17:23	135-98-8	
tert-Butylbenzene	<12.7	ug/kg	66.4	12.7	1	12/13/18 09:18	12/13/18 17:23	98-06-6	
trans-1,2-Dichloroethene	<31.1	ug/kg	66.4	31.1	1	12/13/18 09:18	12/13/18 17:23	156-60-5	
trans-1,3-Dichloropropene	<9.2	ug/kg	66.4	9.2	1	12/13/18 09:18	12/13/18 17:23	10061-02-6	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (3-4.5)**      **Lab ID: 10457528005**      Collected: 11/30/18 12:30      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b> Analytical Method: EPA 8260B      Preparation Method: EPA 5035/5030B									
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	12/13/18 09:18	12/13/18 17:23	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	12/13/18 09:18	12/13/18 17:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1	12/13/18 09:18	12/13/18 17:23	460-00-4	

**Sample: MW-4 (7-8.5)**      **Lab ID: 10457528006**      Collected: 11/30/18 12:50      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8081B GCS Pesticides</b> Analytical Method: EPA 8081B      Preparation Method: EPA 3550									
Aldrin	<0.53	ug/kg	5.3	0.53	2	12/07/18 10:43	12/13/18 23:28	309-00-2	
alpha-BHC	<0.38	ug/kg	5.3	0.38	2	12/07/18 10:43	12/13/18 23:28	319-84-6	
beta-BHC	<0.71	ug/kg	5.3	0.71	2	12/07/18 10:43	12/13/18 23:28	319-85-7	
delta-BHC	<0.44	ug/kg	5.3	0.44	2	12/07/18 10:43	12/13/18 23:28	319-86-8	
gamma-BHC (Lindane)	<0.45	ug/kg	5.3	0.45	2	12/07/18 10:43	12/13/18 23:28	58-89-9	
Chlordane (Technical)	<9.6	ug/kg	52.9	9.6	2	12/07/18 10:43	12/13/18 23:28	57-74-9	
alpha-Chlordane	<0.43	ug/kg	5.3	0.43	2	12/07/18 10:43	12/13/18 23:28	5103-71-9	
gamma-Chlordane	<1.2	ug/kg	5.3	1.2	2	12/07/18 10:43	12/13/18 23:28	5103-74-2	
4,4'-DDD	<0.96	ug/kg	10.5	0.96	2	12/07/18 10:43	12/13/18 23:28	72-54-8	
4,4'-DDE	<0.79	ug/kg	10.5	0.79	2	12/07/18 10:43	12/13/18 23:28	72-55-9	
4,4'-DDT	<1.3	ug/kg	10.5	1.3	2	12/07/18 10:43	12/13/18 23:28	50-29-3	
Dieldrin	<1.0	ug/kg	10.5	1.0	2	12/07/18 10:43	12/13/18 23:28	60-57-1	
Endosulfan I	<0.48	ug/kg	5.3	0.48	2	12/07/18 10:43	12/13/18 23:28	959-98-8	
Endosulfan II	<1.1	ug/kg	10.5	1.1	2	12/07/18 10:43	12/13/18 23:28	33213-65-9	
Endosulfan sulfate	<1.1	ug/kg	10.5	1.1	2	12/07/18 10:43	12/13/18 23:28	1031-07-8	
Endrin	<0.94	ug/kg	10.5	0.94	2	12/07/18 10:43	12/13/18 23:28	72-20-8	
Endrin aldehyde	<3.3	ug/kg	10.5	3.3	2	12/07/18 10:43	12/13/18 23:28	7421-93-4	
Endrin ketone	<1.2	ug/kg	10.5	1.2	2	12/07/18 10:43	12/13/18 23:28	53494-70-5	
Heptachlor	<0.57	ug/kg	5.3	0.57	2	12/07/18 10:43	12/13/18 23:28	76-44-8	
Heptachlor epoxide	<0.50	ug/kg	5.3	0.50	2	12/07/18 10:43	12/13/18 23:28	1024-57-3	
Methoxychlor	<7.9	ug/kg	52.9	7.9	2	12/07/18 10:43	12/13/18 23:28	72-43-5	
Toxaphene	<25.1	ug/kg	158	25.1	2	12/07/18 10:43	12/13/18 23:28	8001-35-2	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	88	%	30-150		2	12/07/18 10:43	12/13/18 23:28	877-09-8	D3
Decachlorobiphenyl (S)	91	%	30-150		2	12/07/18 10:43	12/13/18 23:28	2051-24-3	

<b>8082A GCS PCB</b> Analytical Method: EPA 8082A      Preparation Method: EPA 3550									
PCB-1016 (Aroclor 1016)	<14.6	ug/kg	52.3	14.6	1	12/06/18 17:46	12/10/18 14:55	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.4	ug/kg	52.3	18.4	1	12/06/18 17:46	12/10/18 14:55	11104-28-2	
PCB-1232 (Aroclor 1232)	<20.9	ug/kg	52.3	20.9	1	12/06/18 17:46	12/10/18 14:55	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.7	ug/kg	52.3	17.7	1	12/06/18 17:46	12/10/18 14:55	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.7	ug/kg	52.3	15.7	1	12/06/18 17:46	12/10/18 14:55	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.4	ug/kg	52.3	15.4	1	12/06/18 17:46	12/10/18 14:55	11097-69-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (7-8.5)**      **Lab ID: 10457528006**      Collected: 11/30/18 12:50      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA 3550									
PCB-1260 (Aroclor 1260)	<b>145</b>	ug/kg	52.3	12.5	1	12/06/18 17:46	12/10/18 14:55	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	86	%	48-125		1	12/06/18 17:46	12/10/18 14:55	877-09-8	
Decachlorobiphenyl (S)	104	%	30-134		1	12/06/18 17:46	12/10/18 14:55	2051-24-3	
<b>NWTPH-Dx GCS</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3550									
Diesel Fuel Range	<b>85.1</b>	mg/kg	23.2	3.8	1	12/14/18 19:17	12/15/18 15:39	68334-30-5	
Motor Oil Range	<b>127</b>	mg/kg	15.5	6.7	1	12/14/18 19:17	12/15/18 15:39		
<b>Surrogates</b>									
n-Triacontane (S)	106	%	50-150		1	12/14/18 19:17	12/15/18 15:39	638-68-6	
o-Terphenyl (S)	101	%	50-150		1	12/14/18 19:17	12/15/18 15:39	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
TPH as Gas	<b>2.7J</b>	mg/kg	7.9	1.0	1	12/13/18 15:01	12/14/18 04:11		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91	%	50-150		1	12/13/18 15:01	12/14/18 04:11	98-08-8	
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3050									
Antimony	<b>&lt;2.8</b>	mg/kg	7.5	2.8	5	12/06/18 10:26	12/07/18 15:27	7440-36-0	D3
Arsenic	<b>&lt;1.5</b>	mg/kg	7.5	1.5	5	12/06/18 10:26	12/07/18 15:27	7440-38-2	D3
Beryllium	<b>&lt;0.10</b>	mg/kg	1.9	0.10	5	12/06/18 10:26	12/07/18 15:27	7440-41-7	D3
Cadmium	<b>&lt;0.15</b>	mg/kg	1.1	0.15	5	12/06/18 10:26	12/07/18 15:27	7440-43-9	D3
Chromium	<b>8.6</b>	mg/kg	3.8	0.65	5	12/06/18 10:26	12/07/18 15:27	7440-47-3	
Copper	<b>18.0</b>	mg/kg	3.8	0.42	5	12/06/18 10:26	12/07/18 15:27	7440-50-8	
Lead	<b>499</b>	mg/kg	3.8	0.85	5	12/06/18 10:26	12/07/18 15:27	7439-92-1	
Nickel	<b>6.2J</b>	mg/kg	7.5	0.47	5	12/06/18 10:26	12/07/18 15:27	7440-02-0	D3
Selenium	<b>&lt;2.5</b>	mg/kg	7.5	2.5	5	12/06/18 10:26	12/07/18 15:27	7782-49-2	D3
Silver	<b>&lt;0.27</b>	mg/kg	3.8	0.27	5	12/06/18 10:26	12/07/18 15:27	7440-22-4	D3
Thallium	<b>&lt;1.7</b>	mg/kg	7.5	1.7	5	12/06/18 10:26	12/07/18 15:27	7440-28-0	D3
Zinc	<b>63.2</b>	mg/kg	7.5	3.3	5	12/06/18 10:26	12/07/18 15:27	7440-66-6	
<b>7471B Mercury</b>									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	<b>0.041</b>	mg/kg	0.026	0.011	1	12/06/18 10:00	12/10/18 18:05	7439-97-6	
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Percent Moisture	<b>36.8</b>	%	0.10	0.10	1		12/14/18 10:45		
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3550									
1,2,4-Trichlorobenzene	<b>&lt;56.8</b>	ug/kg	518	56.8	1	12/10/18 08:54	12/13/18 22:30	120-82-1	
1,2-Dichlorobenzene	<b>&lt;54.3</b>	ug/kg	518	54.3	1	12/10/18 08:54	12/13/18 22:30	95-50-1	
1,2-Diphenylhydrazine	<b>&lt;63.6</b>	ug/kg	518	63.6	1	12/10/18 08:54	12/13/18 22:30	122-66-7	
1,3-Dichlorobenzene	<b>&lt;35.5</b>	ug/kg	518	35.5	1	12/10/18 08:54	12/13/18 22:30	541-73-1	
1,4-Dichlorobenzene	<b>&lt;57.6</b>	ug/kg	518	57.6	1	12/10/18 08:54	12/13/18 22:30	106-46-7	
2,4,5-Trichlorophenol	<b>&lt;66.7</b>	ug/kg	518	66.7	1	12/10/18 08:54	12/13/18 22:30	95-95-4	
2,4,6-Trichlorophenol	<b>&lt;80.2</b>	ug/kg	518	80.2	1	12/10/18 08:54	12/13/18 22:30	88-06-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (7-8.5)**      **Lab ID: 10457528006**      Collected: 11/30/18 12:50      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3550									
2,4-Dichlorophenol	<86.5	ug/kg	518	86.5	1	12/10/18 08:54	12/13/18 22:30	120-83-2	
2,4-Dimethylphenol	<203	ug/kg	518	203	1	12/10/18 08:54	12/13/18 22:30	105-67-9	
2,4-Dinitrophenol	<242	ug/kg	518	242	1	12/10/18 08:54	12/13/18 22:30	51-28-5	
2,4-Dinitrotoluene	<66.0	ug/kg	518	66.0	1	12/10/18 08:54	12/13/18 22:30	121-14-2	
2,6-Dinitrotoluene	<68.6	ug/kg	518	68.6	1	12/10/18 08:54	12/13/18 22:30	606-20-2	
2-Chloronaphthalene	<45.9	ug/kg	518	45.9	1	12/10/18 08:54	12/13/18 22:30	91-58-7	
2-Chlorophenol	<59.0	ug/kg	518	59.0	1	12/10/18 08:54	12/13/18 22:30	95-57-8	
2-Methylphenol(o-Cresol)	<32.3	ug/kg	518	32.3	1	12/10/18 08:54	12/13/18 22:30	95-48-7	
2-Nitroaniline	<130	ug/kg	518	130	1	12/10/18 08:54	12/13/18 22:30	88-74-4	
2-Nitrophenol	<63.1	ug/kg	518	63.1	1	12/10/18 08:54	12/13/18 22:30	88-75-5	
3&4-Methylphenol(m&p Cresol)	<29.2	ug/kg	1040	29.2	1	12/10/18 08:54	12/13/18 22:30		
3,3'-Dichlorobenzidine	<174	ug/kg	518	174	1	12/10/18 08:54	12/13/18 22:30	91-94-1	
3-Nitroaniline	<56.5	ug/kg	518	56.5	1	12/10/18 08:54	12/13/18 22:30	99-09-2	L2
4,6-Dinitro-2-methylphenol	<514	ug/kg	2670	514	1	12/10/18 08:54	12/13/18 22:30	534-52-1	
4-Bromophenylphenyl ether	<61.7	ug/kg	518	61.7	1	12/10/18 08:54	12/13/18 22:30	101-55-3	
4-Chloro-3-methylphenol	<82.9	ug/kg	518	82.9	1	12/10/18 08:54	12/13/18 22:30	59-50-7	
4-Chloroaniline	<138	ug/kg	518	138	1	12/10/18 08:54	12/13/18 22:30	106-47-8	
4-Chlorophenylphenyl ether	<64.2	ug/kg	518	64.2	1	12/10/18 08:54	12/13/18 22:30	7005-72-3	
4-Nitroaniline	<75.7	ug/kg	518	75.7	1	12/10/18 08:54	12/13/18 22:30	100-01-6	
4-Nitrophenol	<101	ug/kg	518	101	1	12/10/18 08:54	12/13/18 22:30	100-02-7	
Butylbenzylphthalate	<47.4	ug/kg	518	47.4	1	12/10/18 08:54	12/13/18 22:30	85-68-7	
Carbazole	<43.0	ug/kg	518	43.0	1	12/10/18 08:54	12/13/18 22:30	86-74-8	
Di-n-butylphthalate	<71.0	ug/kg	518	71.0	1	12/10/18 08:54	12/13/18 22:30	84-74-2	
Di-n-octylphthalate	<60.1	ug/kg	518	60.1	1	12/10/18 08:54	12/13/18 22:30	117-84-0	
Dibenzofuran	<65.6	ug/kg	518	65.6	1	12/10/18 08:54	12/13/18 22:30	132-64-9	
Diethylphthalate	<46.2	ug/kg	518	46.2	1	12/10/18 08:54	12/13/18 22:30	84-66-2	
Dimethylphthalate	<70.4	ug/kg	518	70.4	1	12/10/18 08:54	12/13/18 22:30	131-11-3	
Hexachloro-1,3-butadiene	<78.8	ug/kg	518	78.8	1	12/10/18 08:54	12/13/18 22:30	87-68-3	
Hexachlorobenzene	<84.5	ug/kg	518	84.5	1	12/10/18 08:54	12/13/18 22:30	118-74-1	
Hexachloroethane	<67.4	ug/kg	518	67.4	1	12/10/18 08:54	12/13/18 22:30	67-72-1	
Isophorone	<39.9	ug/kg	518	39.9	1	12/10/18 08:54	12/13/18 22:30	78-59-1	
N-Nitroso-di-n-propylamine	<237	ug/kg	518	237	1	12/10/18 08:54	12/13/18 22:30	621-64-7	
N-Nitrosodimethylamine	<63.6	ug/kg	518	63.6	1	12/10/18 08:54	12/13/18 22:30	62-75-9	
N-Nitrosodiphenylamine	<33.6	ug/kg	518	33.6	1	12/10/18 08:54	12/13/18 22:30	86-30-6	
Nitrobenzene	<57.0	ug/kg	518	57.0	1	12/10/18 08:54	12/13/18 22:30	98-95-3	
Pentachlorophenol	<303	ug/kg	1050	303	1	12/10/18 08:54	12/13/18 22:30	87-86-5	
Phenol	<33.9	ug/kg	518	33.9	1	12/10/18 08:54	12/13/18 22:30	108-95-2	
bis(2-Chloroethoxy)methane	<53.1	ug/kg	518	53.1	1	12/10/18 08:54	12/13/18 22:30	111-91-1	
bis(2-Chloroethyl) ether	<41.0	ug/kg	518	41.0	1	12/10/18 08:54	12/13/18 22:30	111-44-4	
bis(2-Chloroisopropyl) ether	<53.4	ug/kg	518	53.4	1	12/10/18 08:54	12/13/18 22:30	108-60-1	
bis(2-Ethylhexyl)phthalate	<108	ug/kg	518	108	1	12/10/18 08:54	12/13/18 22:30	117-81-7	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	66	%	43-125		1	12/10/18 08:54	12/13/18 22:30	4165-60-0	
2-Fluorobiphenyl (S)	72	%	30-132		1	12/10/18 08:54	12/13/18 22:30	321-60-8	
p-Terphenyl-d14 (S)	83	%	62-125		1	12/10/18 08:54	12/13/18 22:30	1718-51-0	

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## ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (7-8.5)**      **Lab ID: 10457528006**      Collected: 11/30/18 12:50      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**8270D MSSV**

Analytical Method: EPA 8270D    Preparation Method: EPA 3550

**Surrogates**

Phenol-d6 (S)	63	%	48-125		1	12/10/18 08:54	12/13/18 22:30	13127-88-3	
2-Fluorophenol (S)	54	%	40-125		1	12/10/18 08:54	12/13/18 22:30	367-12-4	
2,4,6-Tribromophenol (S)	51	%	60-125		1	12/10/18 08:54	12/13/18 22:30	118-79-6	S0

**8270D MSSV PAH by SIM**

Analytical Method: EPA 8270D by SIM    Preparation Method: EPA 3550

1-Methylnaphthalene	<0.84	ug/kg	15.7	0.84	1	12/06/18 19:27	12/07/18 20:16	90-12-0	
2-Methylnaphthalene	<0.79	ug/kg	15.7	0.79	1	12/06/18 19:27	12/07/18 20:16	91-57-6	
Acenaphthene	<0.64	ug/kg	15.7	0.64	1	12/06/18 19:27	12/07/18 20:16	83-32-9	
Acenaphthylene	<0.78	ug/kg	15.7	0.78	1	12/06/18 19:27	12/07/18 20:16	208-96-8	
Anthracene	<0.74	ug/kg	15.7	0.74	1	12/06/18 19:27	12/07/18 20:16	120-12-7	
Benzo(a)anthracene	<1.7	ug/kg	15.7	1.7	1	12/06/18 19:27	12/07/18 20:16	56-55-3	
Benzo(a)pyrene	<1.1	ug/kg	15.7	1.1	1	12/06/18 19:27	12/07/18 20:16	50-32-8	
Benzo(b)fluoranthene	<0.59	ug/kg	15.7	0.59	1	12/06/18 19:27	12/07/18 20:16	205-99-2	
Benzo(g,h,i)perylene	<1.0	ug/kg	15.7	1.0	1	12/06/18 19:27	12/07/18 20:16	191-24-2	
Benzo(k)fluoranthene	<1.3	ug/kg	15.7	1.3	1	12/06/18 19:27	12/07/18 20:16	207-08-9	
Chrysene	<2.1	ug/kg	15.7	2.1	1	12/06/18 19:27	12/07/18 20:16	218-01-9	
Dibenz(a,h)anthracene	<0.73	ug/kg	15.7	0.73	1	12/06/18 19:27	12/07/18 20:16	53-70-3	
Fluoranthene	<0.67	ug/kg	15.7	0.67	1	12/06/18 19:27	12/07/18 20:16	206-44-0	
Fluorene	<0.49	ug/kg	15.7	0.49	1	12/06/18 19:27	12/07/18 20:16	86-73-7	
Indeno(1,2,3-cd)pyrene	<1.1	ug/kg	15.7	1.1	1	12/06/18 19:27	12/07/18 20:16	193-39-5	
Naphthalene	<1.2	ug/kg	15.7	1.2	1	12/06/18 19:27	12/07/18 20:16	91-20-3	
Phenanthrene	<3.0	ug/kg	15.7	3.0	1	12/06/18 19:27	12/07/18 20:16	85-01-8	
Pyrene	<2.4	ug/kg	15.7	2.4	1	12/06/18 19:27	12/07/18 20:16	129-00-0	

**Surrogates**

2-Fluorobiphenyl (S)	73	%	42-125		1	12/06/18 19:27	12/07/18 20:16	321-60-8	
p-Terphenyl-d14 (S)	78	%	57-125		1	12/06/18 19:27	12/07/18 20:16	1718-51-0	

**8260B MSV 5035 Low Level**

Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low

1,2-Dibromoethane (EDB)	<0.34	ug/kg	6.0	0.34	1	03/06/19 14:15	03/06/19 21:10	106-93-4	
Methylene Chloride	<5.5	ug/kg	30.2	5.5	1	03/06/19 14:15	03/06/19 21:10	75-09-2	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1	03/06/19 14:15	03/06/19 21:10	17060-07-0	5M, H3
Toluene-d8 (S)	99	%	75-125		1	03/06/19 14:15	03/06/19 21:10	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125		1	03/06/19 14:15	03/06/19 21:10	460-00-4	

**8260B MSV 5030 Med Level**

Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B

1,1,1,2-Tetrachloroethane	<25.7	ug/kg	82.0	25.7	1	12/13/18 09:18	12/13/18 17:41	630-20-6	
1,1,1-Trichloroethane	<38.2	ug/kg	82.0	38.2	1	12/13/18 09:18	12/13/18 17:41	71-55-6	
1,1,2,2-Tetrachloroethane	<14.4	ug/kg	82.0	14.4	1	12/13/18 09:18	12/13/18 17:41	79-34-5	
1,1,2-Trichloroethane	<9.8	ug/kg	82.0	9.8	1	12/13/18 09:18	12/13/18 17:41	79-00-5	
1,1,2-Trichlorotrifluoroethane	<95.1	ug/kg	328	95.1	1	12/13/18 09:18	12/13/18 17:41	76-13-1	
1,1-Dichloroethane	<9.2	ug/kg	82.0	9.2	1	12/13/18 09:18	12/13/18 17:41	75-34-3	
1,1-Dichloroethene	<24.6	ug/kg	82.0	24.6	1	12/13/18 09:18	12/13/18 17:41	75-35-4	
1,1-Dichloropropene	<37.9	ug/kg	82.0	37.9	1	12/13/18 09:18	12/13/18 17:41	563-58-6	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Sample: MW-4 (7-8.5) Lab ID: 10457528006 Collected: 11/30/18 12:50 Received: 12/04/18 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2,3-Trichlorobenzene	<13.1	ug/kg	82.0	13.1	1	12/13/18 09:18	12/13/18 17:41	87-61-6	
1,2,3-Trichloropropane	<21.5	ug/kg	328	21.5	1	12/13/18 09:18	12/13/18 17:41	96-18-4	
1,2,4-Trichlorobenzene	<18.2	ug/kg	82.0	18.2	1	12/13/18 09:18	12/13/18 17:41	120-82-1	
1,2,4-Trimethylbenzene	<16.4	ug/kg	82.0	16.4	1	12/13/18 09:18	12/13/18 17:41	95-63-6	
1,2-Dibromo-3-chloropropane	<285	ug/kg	820	285	1	12/13/18 09:18	12/13/18 17:41	96-12-8	
1,2-Dibromoethane (EDB)	<8.6	ug/kg	82.0	8.6	1	12/13/18 09:18	12/13/18 17:41	106-93-4	
1,2-Dichlorobenzene	<3.3	ug/kg	82.0	3.3	1	12/13/18 09:18	12/13/18 17:41	95-50-1	
1,2-Dichloroethane	<9.0	ug/kg	82.0	9.0	1	12/13/18 09:18	12/13/18 17:41	107-06-2	
1,2-Dichloropropane	<14.1	ug/kg	82.0	14.1	1	12/13/18 09:18	12/13/18 17:41	78-87-5	
1,3,5-Trimethylbenzene	<13.1	ug/kg	82.0	13.1	1	12/13/18 09:18	12/13/18 17:41	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	82.0	3.0	1	12/13/18 09:18	12/13/18 17:41	541-73-1	
1,3-Dichloropropane	<11.3	ug/kg	82.0	11.3	1	12/13/18 09:18	12/13/18 17:41	142-28-9	
1,4-Dichlorobenzene	<5.1	ug/kg	82.0	5.1	1	12/13/18 09:18	12/13/18 17:41	106-46-7	
2,2-Dichloropropane	<10.2	ug/kg	328	10.2	1	12/13/18 09:18	12/13/18 17:41	594-20-7	
2-Butanone (MEK)	<43.6	ug/kg	410	43.6	1	12/13/18 09:18	12/13/18 17:41	78-93-3	
2-Chlorotoluene	<4.0	ug/kg	82.0	4.0	1	12/13/18 09:18	12/13/18 17:41	95-49-8	
4-Chlorotoluene	<4.2	ug/kg	82.0	4.2	1	12/13/18 09:18	12/13/18 17:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<17.1	ug/kg	410	17.1	1	12/13/18 09:18	12/13/18 17:41	108-10-1	
Acetone	<510	ug/kg	1640	510	1	12/13/18 09:18	12/13/18 17:41	67-64-1	
Allyl chloride	<68.7	ug/kg	328	68.7	1	12/13/18 09:18	12/13/18 17:41	107-05-1	
Benzene	<4.6	ug/kg	32.8	4.6	1	12/13/18 09:18	12/13/18 17:41	71-43-2	
Bromobenzene	<5.0	ug/kg	82.0	5.0	1	12/13/18 09:18	12/13/18 17:41	108-86-1	
Bromochloromethane	<28.4	ug/kg	82.0	28.4	1	12/13/18 09:18	12/13/18 17:41	74-97-5	
Bromodichloromethane	<28.0	ug/kg	82.0	28.0	1	12/13/18 09:18	12/13/18 17:41	75-27-4	
Bromoform	<124	ug/kg	328	124	1	12/13/18 09:18	12/13/18 17:41	75-25-2	
Bromomethane	<95.9	ug/kg	820	95.9	1	12/13/18 09:18	12/13/18 17:41	74-83-9	
Carbon tetrachloride	<39.2	ug/kg	328	39.2	1	12/13/18 09:18	12/13/18 17:41	56-23-5	
Chlorobenzene	<4.6	ug/kg	82.0	4.6	1	12/13/18 09:18	12/13/18 17:41	108-90-7	
Chloroethane	<42.6	ug/kg	820	42.6	1	12/13/18 09:18	12/13/18 17:41	75-00-3	
Chloroform	<41.0	ug/kg	82.0	41.0	1	12/13/18 09:18	12/13/18 17:41	67-66-3	
Chloromethane	<19.7	ug/kg	328	19.7	1	12/13/18 09:18	12/13/18 17:41	74-87-3	
Dibromochloromethane	<9.5	ug/kg	328	9.5	1	12/13/18 09:18	12/13/18 17:41	124-48-1	
Dibromomethane	<15.0	ug/kg	82.0	15.0	1	12/13/18 09:18	12/13/18 17:41	74-95-3	
Dichlorodifluoromethane	<26.6	ug/kg	328	26.6	1	12/13/18 09:18	12/13/18 17:41	75-71-8	
Dichlorofluoromethane	<113	ug/kg	820	113	1	12/13/18 09:18	12/13/18 17:41	75-43-4	N2
Diethyl ether (Ethyl ether)	<50.2	ug/kg	328	50.2	1	12/13/18 09:18	12/13/18 17:41	60-29-7	
Ethylbenzene	<4.5	ug/kg	82.0	4.5	1	12/13/18 09:18	12/13/18 17:41	100-41-4	
Hexachloro-1,3-butadiene	<20.0	ug/kg	410	20.0	1	12/13/18 09:18	12/13/18 17:41	87-68-3	
Isopropylbenzene (Cumene)	<3.6	ug/kg	82.0	3.6	1	12/13/18 09:18	12/13/18 17:41	98-82-8	
Methyl-tert-butyl ether	<9.8	ug/kg	82.0	9.8	1	12/13/18 09:18	12/13/18 17:41	1634-04-4	
Methylene Chloride	<154	ug/kg	328	154	1	12/13/18 09:18	12/13/18 17:41	75-09-2	
Naphthalene	<76.7	ug/kg	328	76.7	1	12/13/18 09:18	12/13/18 17:41	91-20-3	
Styrene	<3.7	ug/kg	82.0	3.7	1	12/13/18 09:18	12/13/18 17:41	100-42-5	
Tetrachloroethene	<28.9	ug/kg	82.0	28.9	1	12/13/18 09:18	12/13/18 17:41	127-18-4	
Tetrahydrofuran	<119	ug/kg	3280	119	1	12/13/18 09:18	12/13/18 17:41	109-99-9	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: MW-4 (7-8.5)**      **Lab ID: 10457528006**      Collected: 11/30/18 12:50      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>									
Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B									
Toluene	<20.0	ug/kg	82.0	20.0	1	12/13/18 09:18	12/13/18 17:41	108-88-3	
Trichloroethene	<12.6	ug/kg	82.0	12.6	1	12/13/18 09:18	12/13/18 17:41	79-01-6	
Trichlorofluoromethane	<143	ug/kg	328	143	1	12/13/18 09:18	12/13/18 17:41	75-69-4	
Vinyl chloride	<16.1	ug/kg	32.8	16.1	1	12/13/18 09:18	12/13/18 17:41	75-01-4	
Xylene (Total)	<19.0	ug/kg	246	19.0	1	12/13/18 09:18	12/13/18 17:41	1330-20-7	
cis-1,2-Dichloroethene	<13.6	ug/kg	82.0	13.6	1	12/13/18 09:18	12/13/18 17:41	156-59-2	
cis-1,3-Dichloropropene	<11.7	ug/kg	82.0	11.7	1	12/13/18 09:18	12/13/18 17:41	10061-01-5	
n-Butylbenzene	<39.0	ug/kg	82.0	39.0	1	12/13/18 09:18	12/13/18 17:41	104-51-8	
n-Propylbenzene	<4.4	ug/kg	82.0	4.4	1	12/13/18 09:18	12/13/18 17:41	103-65-1	
p-Isopropyltoluene	<24.9	ug/kg	82.0	24.9	1	12/13/18 09:18	12/13/18 17:41	99-87-6	
sec-Butylbenzene	<15.7	ug/kg	82.0	15.7	1	12/13/18 09:18	12/13/18 17:41	135-98-8	
tert-Butylbenzene	<15.7	ug/kg	82.0	15.7	1	12/13/18 09:18	12/13/18 17:41	98-06-6	
trans-1,2-Dichloroethene	<38.4	ug/kg	82.0	38.4	1	12/13/18 09:18	12/13/18 17:41	156-60-5	
trans-1,3-Dichloropropene	<11.4	ug/kg	82.0	11.4	1	12/13/18 09:18	12/13/18 17:41	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	115	%	75-125		1	12/13/18 09:18	12/13/18 17:41	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	12/13/18 09:18	12/13/18 17:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/13/18 09:18	12/13/18 17:41	460-00-4	

**Sample: Trip Blank**      **Lab ID: 10457528007**      Collected: 11/29/18 00:00      Received: 12/04/18 10:10      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx    Preparation Method: NWTPH-Gx									
TPH as Gas	<0.66	mg/kg	5.0	0.66	1	12/12/18 14:51	12/13/18 20:36		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95	%	50-150		1	12/12/18 14:51	12/13/18 20:36	98-08-8	

**8260B MSV 5030 Med Level**      Analytical Method: EPA 8260B    Preparation Method: EPA 5035/5030B

1,1,1,2-Tetrachloroethane	<15.7	ug/kg	50.0	15.7	1	12/12/18 17:36	12/13/18 00:57	630-20-6	
1,1,1-Trichloroethane	<23.3	ug/kg	50.0	23.3	1	12/12/18 17:36	12/13/18 00:57	71-55-6	
1,1,2,2-Tetrachloroethane	<8.8	ug/kg	50.0	8.8	1	12/12/18 17:36	12/13/18 00:57	79-34-5	
1,1,2-Trichloroethane	<6.0	ug/kg	50.0	6.0	1	12/12/18 17:36	12/13/18 00:57	79-00-5	
1,1,2-Trichlorotrifluoroethane	<58.0	ug/kg	200	58.0	1	12/12/18 17:36	12/13/18 00:57	76-13-1	
1,1-Dichloroethane	<5.6	ug/kg	50.0	5.6	1	12/12/18 17:36	12/13/18 00:57	75-34-3	
1,1-Dichloroethene	<15.0	ug/kg	50.0	15.0	1	12/12/18 17:36	12/13/18 00:57	75-35-4	
1,1-Dichloropropene	<23.1	ug/kg	50.0	23.1	1	12/12/18 17:36	12/13/18 00:57	563-58-6	
1,2,3-Trichlorobenzene	<8.0	ug/kg	50.0	8.0	1	12/12/18 17:36	12/13/18 00:57	87-61-6	
1,2,3-Trichloropropane	<13.1	ug/kg	200	13.1	1	12/12/18 17:36	12/13/18 00:57	96-18-4	
1,2,4-Trichlorobenzene	<11.1	ug/kg	50.0	11.1	1	12/12/18 17:36	12/13/18 00:57	120-82-1	
1,2,4-Trimethylbenzene	<10.0	ug/kg	50.0	10.0	1	12/12/18 17:36	12/13/18 00:57	95-63-6	
1,2-Dibromo-3-chloropropane	<174	ug/kg	500	174	1	12/12/18 17:36	12/13/18 00:57	96-12-8	
1,2-Dibromoethane (EDB)	<5.3	ug/kg	50.0	5.3	1	12/12/18 17:36	12/13/18 00:57	106-93-4	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Sample: Trip Blank Lab ID: 10457528007 Collected: 11/29/18 00:00 Received: 12/04/18 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
1,2-Dichlorobenzene	<2.0	ug/kg	50.0	2.0	1	12/12/18 17:36	12/13/18 00:57	95-50-1	
1,2-Dichloroethane	<5.5	ug/kg	50.0	5.5	1	12/12/18 17:36	12/13/18 00:57	107-06-2	
1,2-Dichloropropane	<8.6	ug/kg	50.0	8.6	1	12/12/18 17:36	12/13/18 00:57	78-87-5	
1,3,5-Trimethylbenzene	<8.0	ug/kg	50.0	8.0	1	12/12/18 17:36	12/13/18 00:57	108-67-8	
1,3-Dichlorobenzene	<1.8	ug/kg	50.0	1.8	1	12/12/18 17:36	12/13/18 00:57	541-73-1	
1,3-Dichloropropane	<6.9	ug/kg	50.0	6.9	1	12/12/18 17:36	12/13/18 00:57	142-28-9	
1,4-Dichlorobenzene	<3.1	ug/kg	50.0	3.1	1	12/12/18 17:36	12/13/18 00:57	106-46-7	
2,2-Dichloropropane	<6.2	ug/kg	200	6.2	1	12/12/18 17:36	12/13/18 00:57	594-20-7	
2-Butanone (MEK)	<26.6	ug/kg	250	26.6	1	12/12/18 17:36	12/13/18 00:57	78-93-3	
2-Chlorotoluene	<2.5	ug/kg	50.0	2.5	1	12/12/18 17:36	12/13/18 00:57	95-49-8	
4-Chlorotoluene	<2.6	ug/kg	50.0	2.6	1	12/12/18 17:36	12/13/18 00:57	106-43-4	
4-Methyl-2-pentanone (MIBK)	<10.4	ug/kg	250	10.4	1	12/12/18 17:36	12/13/18 00:57	108-10-1	
Acetone	<311	ug/kg	1000	311	1	12/12/18 17:36	12/13/18 00:57	67-64-1	
Allyl chloride	<41.9	ug/kg	200	41.9	1	12/12/18 17:36	12/13/18 00:57	107-05-1	
Benzene	3.2J	ug/kg	20.0	2.8	1	12/12/18 17:36	12/13/18 00:57	71-43-2	B
Bromobenzene	<3.1	ug/kg	50.0	3.1	1	12/12/18 17:36	12/13/18 00:57	108-86-1	
Bromochloromethane	<17.3	ug/kg	50.0	17.3	1	12/12/18 17:36	12/13/18 00:57	74-97-5	
Bromodichloromethane	<17.1	ug/kg	50.0	17.1	1	12/12/18 17:36	12/13/18 00:57	75-27-4	
Bromoform	<75.7	ug/kg	200	75.7	1	12/12/18 17:36	12/13/18 00:57	75-25-2	
Bromomethane	<58.5	ug/kg	500	58.5	1	12/12/18 17:36	12/13/18 00:57	74-83-9	
Carbon tetrachloride	<23.9	ug/kg	200	23.9	1	12/12/18 17:36	12/13/18 00:57	56-23-5	
Chlorobenzene	<2.8	ug/kg	50.0	2.8	1	12/12/18 17:36	12/13/18 00:57	108-90-7	
Chloroethane	<26.0	ug/kg	500	26.0	1	12/12/18 17:36	12/13/18 00:57	75-00-3	
Chloroform	<25.0	ug/kg	50.0	25.0	1	12/12/18 17:36	12/13/18 00:57	67-66-3	
Chloromethane	<12.0	ug/kg	200	12.0	1	12/12/18 17:36	12/13/18 00:57	74-87-3	
Dibromochloromethane	<5.8	ug/kg	200	5.8	1	12/12/18 17:36	12/13/18 00:57	124-48-1	
Dibromomethane	<9.2	ug/kg	50.0	9.2	1	12/12/18 17:36	12/13/18 00:57	74-95-3	
Dichlorodifluoromethane	<16.2	ug/kg	200	16.2	1	12/12/18 17:36	12/13/18 00:57	75-71-8	
Dichlorofluoromethane	<69.1	ug/kg	500	69.1	1	12/12/18 17:36	12/13/18 00:57	75-43-4	N2
Diethyl ether (Ethyl ether)	<30.6	ug/kg	200	30.6	1	12/12/18 17:36	12/13/18 00:57	60-29-7	
Ethylbenzene	<2.7	ug/kg	50.0	2.7	1	12/12/18 17:36	12/13/18 00:57	100-41-4	
Hexachloro-1,3-butadiene	<12.2	ug/kg	250	12.2	1	12/12/18 17:36	12/13/18 00:57	87-68-3	
Isopropylbenzene (Cumene)	<2.2	ug/kg	50.0	2.2	1	12/12/18 17:36	12/13/18 00:57	98-82-8	
Methyl-tert-butyl ether	<6.0	ug/kg	50.0	6.0	1	12/12/18 17:36	12/13/18 00:57	1634-04-4	
Methylene Chloride	<94.1	ug/kg	200	94.1	1	12/12/18 17:36	12/13/18 00:57	75-09-2	
Naphthalene	<46.8	ug/kg	200	46.8	1	12/12/18 17:36	12/13/18 00:57	91-20-3	
Styrene	<2.3	ug/kg	50.0	2.3	1	12/12/18 17:36	12/13/18 00:57	100-42-5	
Tetrachloroethene	<17.6	ug/kg	50.0	17.6	1	12/12/18 17:36	12/13/18 00:57	127-18-4	
Tetrahydrofuran	<72.7	ug/kg	2000	72.7	1	12/12/18 17:36	12/13/18 00:57	109-99-9	
Toluene	<12.2	ug/kg	50.0	12.2	1	12/12/18 17:36	12/13/18 00:57	108-88-3	
Trichloroethene	<7.7	ug/kg	50.0	7.7	1	12/12/18 17:36	12/13/18 00:57	79-01-6	
Trichlorofluoromethane	<87.2	ug/kg	200	87.2	1	12/12/18 17:36	12/13/18 00:57	75-69-4	
Vinyl chloride	<9.8	ug/kg	20.0	9.8	1	12/12/18 17:36	12/13/18 00:57	75-01-4	
Xylene (Total)	<11.6	ug/kg	150	11.6	1	12/12/18 17:36	12/13/18 00:57	1330-20-7	
cis-1,2-Dichloroethene	<8.3	ug/kg	50.0	8.3	1	12/12/18 17:36	12/13/18 00:57	156-59-2	

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### ANALYTICAL RESULTS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

**Sample: Trip Blank**      **Lab ID: 10457528007**      Collected: 11/29/18 00:00      Received: 12/04/18 10:10      Matrix: Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
cis-1,3-Dichloropropene	<7.2	ug/kg	50.0	7.2	1	12/12/18 17:36	12/13/18 00:57	10061-01-5	
n-Butylbenzene	<23.8	ug/kg	50.0	23.8	1	12/12/18 17:36	12/13/18 00:57	104-51-8	
n-Propylbenzene	<2.7	ug/kg	50.0	2.7	1	12/12/18 17:36	12/13/18 00:57	103-65-1	
p-Isopropyltoluene	<15.2	ug/kg	50.0	15.2	1	12/12/18 17:36	12/13/18 00:57	99-87-6	
sec-Butylbenzene	<9.6	ug/kg	50.0	9.6	1	12/12/18 17:36	12/13/18 00:57	135-98-8	
tert-Butylbenzene	<9.6	ug/kg	50.0	9.6	1	12/12/18 17:36	12/13/18 00:57	98-06-6	
trans-1,2-Dichloroethene	<23.4	ug/kg	50.0	23.4	1	12/12/18 17:36	12/13/18 00:57	156-60-5	
trans-1,3-Dichloropropene	<7.0	ug/kg	50.0	7.0	1	12/12/18 17:36	12/13/18 00:57	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	111	%	75-125		1	12/12/18 17:36	12/13/18 00:57	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	12/12/18 17:36	12/13/18 00:57	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1	12/12/18 17:36	12/13/18 00:57	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580461

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx Solid GCV

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

METHOD BLANK: 3147712

Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	2.0J	5.0	0.66	12/13/18 15:08	
a,a,a-Trifluorotoluene (S)	%.	100	50-150		12/13/18 15:08	

METHOD BLANK: 3147713

Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	3.1J	5.0	0.66	12/13/18 21:26	
a,a,a-Trifluorotoluene (S)	%.	102	50-150		12/13/18 21:26	

LABORATORY CONTROL SAMPLE & LCSD: 3147714

3147715

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	41.3	38.1	83	76	54-125	8	20	
a,a,a-Trifluorotoluene (S)	%.				91	93	50-150			

MATRIX SPIKE SAMPLE:

3148132

Parameter	Units	10457273011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	mg/kg		ND	58.2	55.6	96	70-130
a,a,a-Trifluorotoluene (S)	%.					104	50-150

SAMPLE DUPLICATE: 3148123

Parameter	Units	10457273015 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	ND	<0.77		30	
a,a,a-Trifluorotoluene (S)	%.	88	101	16		

SAMPLE DUPLICATE: 3148133

Parameter	Units	10457273016 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	ND	<0.76		30	
a,a,a-Trifluorotoluene (S)	%.	94	98	5		

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580641 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 10457528004, 10457528005, 10457528006

METHOD BLANK: 3148795 Matrix: Solid  
 Associated Lab Samples: 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	mg/kg	<0.66	5.0	0.66	12/14/18 00:15	
a,a,a-Trifluorotoluene (S)	%	91	50-150		12/14/18 00:15	

LABORATORY CONTROL SAMPLE & LCSD: 3148796 3148797

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	36.2	40.3	72	81	54-125	11	20	
a,a,a-Trifluorotoluene (S)	%				96	96	50-150			

MATRIX SPIKE SAMPLE: 3149613

Parameter	Units	10457528004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	mg/kg		1.4J	58.2	47.5	79	70-130
a,a,a-Trifluorotoluene (S)	%					92	50-150

SAMPLE DUPLICATE: 3149614

Parameter	Units	10457528005 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	<0.94	1.2J		30	
a,a,a-Trifluorotoluene (S)	%	90	96	9		

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report  
Pace Project No.: 10457528

QC Batch: 579223 Analysis Method: EPA 7471B  
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury Solids  
Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3141928 Matrix: Solid  
Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0071	0.018	0.0071	12/10/18 17:14	

LABORATORY CONTROL SAMPLE: 3141929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.48	0.58	119	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141930 3141931

Parameter	Units	10457608001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury	mg/kg	ND	0.51	0.51	0.58	0.59	111	113	80-120	2	20

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 579221 Analysis Method: EPA 6010D  
 QC Batch Method: EPA 3050 Analysis Description: 6010D Solids  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3141920 Matrix: Solid  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/kg	<0.35	0.93	0.35	12/07/18 12:45	
Arsenic	mg/kg	<0.19	0.93	0.19	12/07/18 12:45	
Beryllium	mg/kg	<0.013	0.23	0.013	12/07/18 12:45	
Cadmium	mg/kg	<0.019	0.14	0.019	12/07/18 12:45	
Chromium	mg/kg	<0.080	0.47	0.080	12/07/18 12:45	
Copper	mg/kg	0.063J	0.47	0.052	12/07/18 12:45	
Lead	mg/kg	<0.11	0.47	0.11	12/07/18 12:45	
Nickel	mg/kg	0.066J	0.93	0.059	12/07/18 12:45	
Selenium	mg/kg	<0.31	0.93	0.31	12/07/18 12:45	
Silver	mg/kg	<0.034	0.47	0.034	12/07/18 12:45	
Thallium	mg/kg	<0.21	0.93	0.21	12/07/18 12:45	
Zinc	mg/kg	<0.41	0.93	0.41	12/07/18 12:45	

LABORATORY CONTROL SAMPLE: 3141921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	47.2	45.0	95	80-120	
Arsenic	mg/kg	47.2	43.0	91	80-120	
Beryllium	mg/kg	47.2	46.5	98	80-120	
Cadmium	mg/kg	47.2	46.5	99	80-120	
Chromium	mg/kg	47.2	48.2	102	80-120	
Copper	mg/kg	47.2	46.8	99	80-120	
Lead	mg/kg	47.2	47.7	101	80-120	
Nickel	mg/kg	47.2	47.4	100	80-120	
Selenium	mg/kg	47.2	42.1	89	80-120	
Silver	mg/kg	23.6	23.3	99	80-120	
Thallium	mg/kg	47.2	46.6	99	80-120	
Zinc	mg/kg	47.2	47.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3141922 3141923

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457608001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/kg	ND	55.5	52	27.8	26.2	50	50	75-125	6	20	M1
Arsenic	mg/kg	1.9	55.5	52	42.7	39.5	73	72	75-125	8	20	M1
Beryllium	mg/kg	ND	55.5	52	43.6	40.9	78	79	75-125	6	20	
Cadmium	mg/kg	0.17	55.5	52	45.8	42.3	82	81	75-125	8	20	
Chromium	mg/kg	11.9	55.5	52	60.3	54.6	87	82	75-125	10	20	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Parameter	Units	3141922		3141923		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10457608001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Copper	mg/kg	36.2	55.5	52	117	92.7	146	109	75-125	23	20	M1, R1	
Lead	mg/kg	5.8	55.5	52	55.0	50.1	89	85	75-125	9	20		
Nickel	mg/kg	14.0	55.5	52	68.3	58.3	98	85	75-125	16	20		
Selenium	mg/kg	ND	55.5	52	39.6	36.6	71	70	75-125	8	20	M1	
Silver	mg/kg	ND	27.8	25.9	23.4	21.6	84	83	75-125	8	20		
Thallium	mg/kg	ND	55.5	52	40.6	39.2	73	75	75-125	4	20	M1	
Zinc	mg/kg	175	55.5	52	242	210	122	68	75-125	14	20	M1	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580923

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

SAMPLE DUPLICATE: 3150238

Parameter	Units	10457368006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	61.6	61.6	0	30	

SAMPLE DUPLICATE: 3150291

Parameter	Units	10457770008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.4	1.4	5	30	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 592666 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3204636 Matrix: Solid  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	<0.23	4.0	0.23	03/06/19 17:20	
Methylene Chloride	ug/kg	<3.7	20.0	3.7	03/06/19 17:20	
1,2-Dichloroethane-d4 (S)	%	108	75-125		03/06/19 17:20	
4-Bromofluorobenzene (S)	%	102	75-125		03/06/19 17:20	
Toluene-d8 (S)	%	99	75-125		03/06/19 17:20	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 3204637							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
1,2-Dibromoethane (EDB)	ug/kg	20	21.6	22.4	108	112	75-126	4	20		
Methylene Chloride	ug/kg	20	19.4J	20.8	97	104	56-150		20		
1,2-Dichloroethane-d4 (S)	%				104	104	75-125				
4-Bromofluorobenzene (S)	%				99	100	75-125				
Toluene-d8 (S)	%				100	100	75-125				

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580422 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

METHOD BLANK: 3147585 Matrix: Solid  
Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/13/18 00:40	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/13/18 00:40	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/13/18 00:40	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/13/18 00:40	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/13/18 00:40	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/13/18 00:40	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/13/18 00:40	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/13/18 00:40	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/13/18 00:40	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/13/18 00:40	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/13/18 00:40	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/13/18 00:40	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/13/18 00:40	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/13/18 00:40	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/13/18 00:40	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/13/18 00:40	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/13/18 00:40	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/13/18 00:40	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/13/18 00:40	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/13/18 00:40	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/13/18 00:40	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/13/18 00:40	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/13/18 00:40	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/13/18 00:40	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/13/18 00:40	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/13/18 00:40	
Acetone	ug/kg	<311	1000	311	12/13/18 00:40	
Allyl chloride	ug/kg	<41.9	200	41.9	12/13/18 00:40	
Benzene	ug/kg	3.5J	20.0	2.8	12/13/18 00:40	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/13/18 00:40	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/13/18 00:40	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/13/18 00:40	
Bromoform	ug/kg	<75.7	200	75.7	12/13/18 00:40	
Bromomethane	ug/kg	<58.5	500	58.5	12/13/18 00:40	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/13/18 00:40	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/13/18 00:40	
Chloroethane	ug/kg	<26.0	500	26.0	12/13/18 00:40	
Chloroform	ug/kg	<25.0	50.0	25.0	12/13/18 00:40	
Chloromethane	ug/kg	<12.0	200	12.0	12/13/18 00:40	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/13/18 00:40	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/13/18 00:40	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

METHOD BLANK: 3147585

Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/13/18 00:40	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/13/18 00:40	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/13/18 00:40	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/13/18 00:40	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/13/18 00:40	
Ethylbenzene	ug/kg	5.0J	50.0	2.7	12/13/18 00:40	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/13/18 00:40	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/13/18 00:40	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/13/18 00:40	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/13/18 00:40	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/13/18 00:40	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/13/18 00:40	
Naphthalene	ug/kg	<46.8	200	46.8	12/13/18 00:40	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/13/18 00:40	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/13/18 00:40	
Styrene	ug/kg	<2.3	50.0	2.3	12/13/18 00:40	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/13/18 00:40	
Tetrachloroethene	ug/kg	<17.6	50.0	17.6	12/13/18 00:40	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/13/18 00:40	
Toluene	ug/kg	<12.2	50.0	12.2	12/13/18 00:40	
trans-1,2-Dichloroethene	ug/kg	<23.4	50.0	23.4	12/13/18 00:40	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/13/18 00:40	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/13/18 00:40	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/13/18 00:40	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/13/18 00:40	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/13/18 00:40	
1,2-Dichloroethane-d4 (S)	%	111	75-125		12/13/18 00:40	
4-Bromofluorobenzene (S)	%	99	75-125		12/13/18 00:40	
Toluene-d8 (S)	%	97	75-125		12/13/18 00:40	

LABORATORY CONTROL SAMPLE: 3147586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	937	94	59-125	
1,1,1-Trichloroethane	ug/kg	1000	925	93	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	776	78	58-125	
1,1,2-Trichloroethane	ug/kg	1000	809	81	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	919	92	65-125	
1,1-Dichloroethane	ug/kg	1000	813	81	63-125	
1,1-Dichloroethene	ug/kg	1000	741	74	59-125	
1,1-Dichloropropene	ug/kg	1000	856	86	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	824	82	55-126	
1,2,3-Trichloropropane	ug/kg	1000	806	81	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	740	74	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3147586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	805	81	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1980	79	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	756	76	64-125	
1,2-Dichlorobenzene	ug/kg	1000	823	82	63-125	
1,2-Dichloroethane	ug/kg	1000	801	80	57-125	
1,2-Dichloropropane	ug/kg	1000	721	72	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	817	82	59-125	
1,3-Dichlorobenzene	ug/kg	1000	859	86	64-125	
1,3-Dichloropropane	ug/kg	1000	770	77	64-125	
1,4-Dichlorobenzene	ug/kg	1000	829	83	63-125	
2,2-Dichloropropane	ug/kg	1000	885	89	37-126	
2-Butanone (MEK)	ug/kg	5000	3850	77	48-125	
2-Chlorotoluene	ug/kg	1000	840	84	62-125	
4-Chlorotoluene	ug/kg	1000	809	81	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4120	82	52-135	
Acetone	ug/kg	5000	4020	80	65-125	
Allyl chloride	ug/kg	1000	650	65	52-125	
Benzene	ug/kg	1000	744	74	61-125	
Bromobenzene	ug/kg	1000	782	78	64-125	
Bromochloromethane	ug/kg	1000	750	75	65-125	
Bromodichloromethane	ug/kg	1000	880	88	57-125	
Bromoform	ug/kg	1000	821	82	57-125	
Bromomethane	ug/kg	1000	1010	101	60-125	
Carbon tetrachloride	ug/kg	1000	952	95	58-125	
Chlorobenzene	ug/kg	1000	785	79	66-125	
Chloroethane	ug/kg	1000	1390	139	62-125	L3
Chloroform	ug/kg	1000	839	84	59-125	
Chloromethane	ug/kg	1000	880	88	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	773	77	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	745	75	61-125	
Dibromochloromethane	ug/kg	1000	897	90	60-125	
Dibromomethane	ug/kg	1000	792	79	69-125	
Dichlorodifluoromethane	ug/kg	1000	1040	104	38-125	
Dichlorofluoromethane	ug/kg	1000	1210	121	67-125	N2
Diethyl ether (Ethyl ether)	ug/kg	1000	765	77	60-125	
Ethylbenzene	ug/kg	1000	776	78	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	923	92	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	933	93	65-125	
Methyl-tert-butyl ether	ug/kg	1000	816	82	59-125	
Methylene Chloride	ug/kg	1000	690	69	64-125	
n-Butylbenzene	ug/kg	1000	907	91	59-125	
n-Propylbenzene	ug/kg	1000	899	90	61-125	
Naphthalene	ug/kg	1000	770	77	53-125	
p-Isopropyltoluene	ug/kg	1000	904	90	63-125	
sec-Butylbenzene	ug/kg	1000	940	94	62-125	
Styrene	ug/kg	1000	802	80	66-125	
tert-Butylbenzene	ug/kg	1000	925	92	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3147586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	882	88	67-125	
Tetrahydrofuran	ug/kg	10000	6680	67	62-125	
Toluene	ug/kg	1000	746	75	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	724	72	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	881	88	56-125	
Trichloroethene	ug/kg	1000	795	79	67-125	
Trichlorofluoromethane	ug/kg	1000	1540	154	65-125	CH,L3
Vinyl chloride	ug/kg	1000	984	98	57-125	
Xylene (Total)	ug/kg	3000	2370	79	62-125	
1,2-Dichloroethane-d4 (S)	%			110	75-125	
4-Bromofluorobenzene (S)	%			93	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3148404 3148405

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457268001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1120	1170	1420	1350	127	115	64-146	5	30
1,1,1-Trichloroethane	ug/kg	ND	1120	1170	1280	1310	114	112	56-148	3	30
1,1,1,2,2-Tetrachloroethane	ug/kg	ND	1120	1170	1180	1190	105	102	36-150	1	30
1,1,2-Trichloroethane	ug/kg	ND	1120	1170	1190	1210	106	103	67-148	2	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1120	1170	1270	1290	114	110	60-142	2	30
1,1-Dichloroethane	ug/kg	ND	1120	1170	1160	1170	104	100	57-140	1	30
1,1-Dichloroethene	ug/kg	ND	1120	1170	1010	1020	91	87	59-139	0	30
1,1-Dichloropropene	ug/kg	ND	1120	1170	1210	1230	109	105	61-142	1	30
1,2,3-Trichlorobenzene	ug/kg	ND	1120	1170	1300	1310	116	112	69-150	1	30
1,2,3-Trichloropropane	ug/kg	ND	1120	1170	1230	1310	110	112	64-150	6	30
1,2,4-Trichlorobenzene	ug/kg	ND	1120	1170	1290	1180	115	101	71-149	9	30
1,2,4-Trimethylbenzene	ug/kg	ND	1120	1170	1290	1270	115	108	67-149	2	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	2790	2930	3200	3080	114	105	61-150	4	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1120	1170	1120	1090	101	93	67-147	3	30
1,2-Dichlorobenzene	ug/kg	ND	1120	1170	1320	1330	118	114	70-142	1	30
1,2-Dichloroethane	ug/kg	ND	1120	1170	1160	1150	104	98	58-132	1	30
1,2-Dichloropropane	ug/kg	ND	1120	1170	1150	1170	103	100	64-144	2	30
1,3,5-Trimethylbenzene	ug/kg	ND	1120	1170	1310	1290	118	110	71-146	2	30
1,3-Dichlorobenzene	ug/kg	ND	1120	1170	1370	1360	123	116	71-142	1	30
1,3-Dichloropropane	ug/kg	ND	1120	1170	1110	1110	99	95	68-140	0	30
1,4-Dichlorobenzene	ug/kg	ND	1120	1170	1320	1310	118	112	68-142	1	30
2,2-Dichloropropane	ug/kg	ND	1120	1170	1200	1240	107	106	34-150	4	30
2-Butanone (MEK)	ug/kg	ND	5590	5850	5660	5940	101	101	51-150	5	30
2-Chlorotoluene	ug/kg	ND	1120	1170	1380	1340	123	114	66-144	3	30
4-Chlorotoluene	ug/kg	ND	1120	1170	1310	1290	117	111	66-140	1	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5590	5850	6280	6300	112	108	63-150	0	30
Acetone	ug/kg	ND	5590	5850	6440	5830	115	100	54-150	10	30

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3148404		3148405									
Parameter	Units	10457268001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Allyl chloride	ug/kg	ND	1120	1170	946	1030	85	88	53-135	8	30		
Benzene	ug/kg	ND	1120	1170	1020	1010	91	86	65-135	0	30		
Bromobenzene	ug/kg	ND	1120	1170	1240	1240	111	106	71-141	0	30		
Bromochloromethane	ug/kg	ND	1120	1170	1050	1120	94	95	62-145	6	30		
Bromodichloromethane	ug/kg	ND	1120	1170	1310	1320	117	113	59-148	1	30		
Bromoform	ug/kg	ND	1120	1170	1270	1260	114	108	57-145	1	30		
Bromomethane	ug/kg	ND	1120	1170	1410	1470	126	125	51-129	4	30		
Carbon tetrachloride	ug/kg	ND	1120	1170	1300	1320	117	113	55-144	1	30		
Chlorobenzene	ug/kg	ND	1120	1170	1240	1230	111	105	70-142	1	30		
Chloroethane	ug/kg	ND	1120	1170	1790	1840	161	157	61-135	3	30	MO	
Chloroform	ug/kg	ND	1120	1170	1180	1220	105	104	58-135	4	30		
Chloromethane	ug/kg	ND	1120	1170	1240	1280	111	110	37-125	3	30		
cis-1,2-Dichloroethene	ug/kg	ND	1120	1170	1070	1160	96	99	60-138	9	30		
cis-1,3-Dichloropropene	ug/kg	ND	1120	1170	1160	1120	104	96	62-142	4	30		
Dibromochloromethane	ug/kg	ND	1120	1170	1340	1320	120	113	65-141	2	30		
Dibromomethane	ug/kg	ND	1120	1170	1220	1250	110	107	72-150	2	30		
Dichlorodifluoromethane	ug/kg	ND	1120	1170	1220	1230	109	105	30-125	1	30		
Dichlorofluoromethane	ug/kg	ND	1120	1170	1600	1640	143	140	62-148	2	30	N2	
Diethyl ether (Ethyl ether)	ug/kg	ND	1120	1170	1120	1180	100	101	62-135	5	30		
Ethylbenzene	ug/kg	ND	1120	1170	1190	1170	107	100	72-138	2	30		
Hexachloro-1,3-butadiene	ug/kg	ND	1120	1170	1440	1440	129	123	38-150	0	30		
Isopropylbenzene (Cumene)	ug/kg	ND	1120	1170	1450	1430	130	122	75-148	2	30		
Methyl-tert-butyl ether	ug/kg	ND	1120	1170	1180	1220	105	104	63-139	3	30		
Methylene Chloride	ug/kg	ND	1120	1170	1070	1090	96	93	58-135	2	30		
n-Butylbenzene	ug/kg	ND	1120	1170	1480	1410	132	121	63-150	5	30		
n-Propylbenzene	ug/kg	ND	1120	1170	1440	1420	129	121	70-146	1	30		
Naphthalene	ug/kg	ND	1120	1170	1340	1280	120	109	63-150	5	30		
p-Isopropyltoluene	ug/kg	ND	1120	1170	1410	1390	126	118	72-150	2	30		
sec-Butylbenzene	ug/kg	ND	1120	1170	1420	1470	127	125	66-150	3	30		
Styrene	ug/kg	ND	1120	1170	1240	1230	111	105	72-146	1	30		
tert-Butylbenzene	ug/kg	ND	1120	1170	1440	1440	129	123	71-148	0	30		
Tetrachloroethene	ug/kg	ND	1120	1170	1330	1260	119	107	70-150	5	30		
Tetrahydrofuran	ug/kg	ND	11200	11700	10800	10500	96	89	62-150	3	30		
Toluene	ug/kg	ND	1120	1170	1120	1120	100	96	65-142	0	30		
trans-1,2-Dichloroethene	ug/kg	ND	1120	1170	962	1010	86	86	55-141	5	30		
trans-1,3-Dichloropropene	ug/kg	ND	1120	1170	1260	1260	113	108	57-147	0	30		
Trichloroethene	ug/kg	ND	1120	1170	1200	1190	108	101	62-150	2	30		
Trichlorofluoromethane	ug/kg	ND	1120	1170	1860	2000	166	171	51-150	7	30	CH,M0	
Vinyl chloride	ug/kg	ND	1120	1170	1310	1420	117	121	45-132	8	30		
Xylene (Total)	ug/kg	ND	3350	3510	3670	3580	109	102	75-140	2	30		
1,2-Dichloroethane-d4 (S)	%						109	106	75-125				
4-Bromofluorobenzene (S)	%						99	101	75-125				
Toluene-d8 (S)	%						98	99	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580653 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10457528004, 10457528005, 10457528006

METHOD BLANK: 3148817 Matrix: Solid

Associated Lab Samples: 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<15.7	50.0	15.7	12/13/18 11:53	
1,1,1-Trichloroethane	ug/kg	<23.3	50.0	23.3	12/13/18 11:53	
1,1,2,2-Tetrachloroethane	ug/kg	<8.8	50.0	8.8	12/13/18 11:53	
1,1,2-Trichloroethane	ug/kg	<6.0	50.0	6.0	12/13/18 11:53	
1,1,2-Trichlorotrifluoroethane	ug/kg	<58.0	200	58.0	12/13/18 11:53	
1,1-Dichloroethane	ug/kg	<5.6	50.0	5.6	12/13/18 11:53	
1,1-Dichloroethene	ug/kg	<15.0	50.0	15.0	12/13/18 11:53	
1,1-Dichloropropene	ug/kg	<23.1	50.0	23.1	12/13/18 11:53	
1,2,3-Trichlorobenzene	ug/kg	<8.0	50.0	8.0	12/13/18 11:53	
1,2,3-Trichloropropane	ug/kg	<13.1	200	13.1	12/13/18 11:53	
1,2,4-Trichlorobenzene	ug/kg	<11.1	50.0	11.1	12/13/18 11:53	
1,2,4-Trimethylbenzene	ug/kg	<10.0	50.0	10.0	12/13/18 11:53	
1,2-Dibromo-3-chloropropane	ug/kg	<174	500	174	12/13/18 11:53	
1,2-Dibromoethane (EDB)	ug/kg	<5.3	50.0	5.3	12/13/18 11:53	
1,2-Dichlorobenzene	ug/kg	<2.0	50.0	2.0	12/13/18 11:53	
1,2-Dichloroethane	ug/kg	<5.5	50.0	5.5	12/13/18 11:53	
1,2-Dichloropropane	ug/kg	<8.6	50.0	8.6	12/13/18 11:53	
1,3,5-Trimethylbenzene	ug/kg	<8.0	50.0	8.0	12/13/18 11:53	
1,3-Dichlorobenzene	ug/kg	<1.8	50.0	1.8	12/13/18 11:53	
1,3-Dichloropropane	ug/kg	<6.9	50.0	6.9	12/13/18 11:53	
1,4-Dichlorobenzene	ug/kg	<3.1	50.0	3.1	12/13/18 11:53	
2,2-Dichloropropane	ug/kg	<6.2	200	6.2	12/13/18 11:53	
2-Butanone (MEK)	ug/kg	<26.6	250	26.6	12/13/18 11:53	
2-Chlorotoluene	ug/kg	<2.5	50.0	2.5	12/13/18 11:53	
4-Chlorotoluene	ug/kg	<2.6	50.0	2.6	12/13/18 11:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	<10.4	250	10.4	12/13/18 11:53	
Acetone	ug/kg	<311	1000	311	12/13/18 11:53	
Allyl chloride	ug/kg	<41.9	200	41.9	12/13/18 11:53	
Benzene	ug/kg	3.8J	20.0	2.8	12/13/18 11:53	
Bromobenzene	ug/kg	<3.1	50.0	3.1	12/13/18 11:53	
Bromochloromethane	ug/kg	<17.3	50.0	17.3	12/13/18 11:53	
Bromodichloromethane	ug/kg	<17.1	50.0	17.1	12/13/18 11:53	
Bromoform	ug/kg	<75.7	200	75.7	12/13/18 11:53	
Bromomethane	ug/kg	<58.5	500	58.5	12/13/18 11:53	
Carbon tetrachloride	ug/kg	<23.9	200	23.9	12/13/18 11:53	MN
Chlorobenzene	ug/kg	<2.8	50.0	2.8	12/13/18 11:53	
Chloroethane	ug/kg	<26.0	500	26.0	12/13/18 11:53	
Chloroform	ug/kg	<25.0	50.0	25.0	12/13/18 11:53	
Chloromethane	ug/kg	<12.0	200	12.0	12/13/18 11:53	
cis-1,2-Dichloroethene	ug/kg	<8.3	50.0	8.3	12/13/18 11:53	
cis-1,3-Dichloropropene	ug/kg	<7.2	50.0	7.2	12/13/18 11:53	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

METHOD BLANK: 3148817

Matrix: Solid

Associated Lab Samples: 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.8	200	5.8	12/13/18 11:53	
Dibromomethane	ug/kg	<9.2	50.0	9.2	12/13/18 11:53	
Dichlorodifluoromethane	ug/kg	<16.2	200	16.2	12/13/18 11:53	
Dichlorofluoromethane	ug/kg	<69.1	500	69.1	12/13/18 11:53	N2
Diethyl ether (Ethyl ether)	ug/kg	<30.6	200	30.6	12/13/18 11:53	
Ethylbenzene	ug/kg	<2.7	50.0	2.7	12/13/18 11:53	
Hexachloro-1,3-butadiene	ug/kg	<12.2	250	12.2	12/13/18 11:53	
Isopropylbenzene (Cumene)	ug/kg	<2.2	50.0	2.2	12/13/18 11:53	
Methyl-tert-butyl ether	ug/kg	<6.0	50.0	6.0	12/13/18 11:53	
Methylene Chloride	ug/kg	<94.1	200	94.1	12/13/18 11:53	
n-Butylbenzene	ug/kg	<23.8	50.0	23.8	12/13/18 11:53	
n-Propylbenzene	ug/kg	<2.7	50.0	2.7	12/13/18 11:53	
Naphthalene	ug/kg	<46.8	200	46.8	12/13/18 11:53	
p-Isopropyltoluene	ug/kg	<15.2	50.0	15.2	12/13/18 11:53	
sec-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/13/18 11:53	
Styrene	ug/kg	<2.3	50.0	2.3	12/13/18 11:53	
tert-Butylbenzene	ug/kg	<9.6	50.0	9.6	12/13/18 11:53	
Tetrachloroethane	ug/kg	<17.6	50.0	17.6	12/13/18 11:53	
Tetrahydrofuran	ug/kg	<72.7	2000	72.7	12/13/18 11:53	
Toluene	ug/kg	<12.2	50.0	12.2	12/13/18 11:53	
trans-1,2-Dichloroethane	ug/kg	<23.4	50.0	23.4	12/13/18 11:53	
trans-1,3-Dichloropropene	ug/kg	<7.0	50.0	7.0	12/13/18 11:53	
Trichloroethene	ug/kg	<7.7	50.0	7.7	12/13/18 11:53	
Trichlorofluoromethane	ug/kg	<87.2	200	87.2	12/13/18 11:53	
Vinyl chloride	ug/kg	<9.8	20.0	9.8	12/13/18 11:53	
Xylene (Total)	ug/kg	<11.6	150	11.6	12/13/18 11:53	
1,2-Dichloroethane-d4 (S)	%	111	75-125		12/13/18 11:53	
4-Bromofluorobenzene (S)	%	97	75-125		12/13/18 11:53	
Toluene-d8 (S)	%	100	75-125		12/13/18 11:53	

LABORATORY CONTROL SAMPLE: 3148818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	955	96	59-125	
1,1,1-Trichloroethane	ug/kg	1000	937	94	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	815	81	58-125	
1,1,2-Trichloroethane	ug/kg	1000	861	86	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	964	96	65-125	
1,1-Dichloroethane	ug/kg	1000	784	78	63-125	
1,1-Dichloroethene	ug/kg	1000	751	75	59-125	
1,1-Dichloropropene	ug/kg	1000	861	86	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	907	91	55-126	
1,2,3-Trichloropropane	ug/kg	1000	913	91	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	821	82	62-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3148818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	869	87	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2150	86	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	795	79	64-125	
1,2-Dichlorobenzene	ug/kg	1000	923	92	63-125	
1,2-Dichloroethane	ug/kg	1000	837	84	57-125	
1,2-Dichloropropane	ug/kg	1000	745	75	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	881	88	59-125	
1,3-Dichlorobenzene	ug/kg	1000	970	97	64-125	
1,3-Dichloropropane	ug/kg	1000	808	81	64-125	
1,4-Dichlorobenzene	ug/kg	1000	951	95	63-125	
2,2-Dichloropropane	ug/kg	1000	910	91	37-126	
2-Butanone (MEK)	ug/kg	5000	3750	75	48-125	
2-Chlorotoluene	ug/kg	1000	919	92	62-125	
4-Chlorotoluene	ug/kg	1000	906	91	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4320	86	52-135	
Acetone	ug/kg	5000	4040	81	65-125	
Allyl chloride	ug/kg	1000	671	67	52-125	
Benzene	ug/kg	1000	691	69	61-125	
Bromobenzene	ug/kg	1000	880	88	64-125	
Bromochloromethane	ug/kg	1000	791	79	65-125	
Bromodichloromethane	ug/kg	1000	969	97	57-125	
Bromoform	ug/kg	1000	892	89	57-125	
Bromomethane	ug/kg	1000	1070	107	60-125	
Carbon tetrachloride	ug/kg	1000	946	95	58-125	
Chlorobenzene	ug/kg	1000	863	86	66-125	
Chloroethane	ug/kg	1000	1400	140	62-125	L3
Chloroform	ug/kg	1000	846	85	59-125	
Chloromethane	ug/kg	1000	814	81	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	785	78	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	819	82	61-125	
Dibromochloromethane	ug/kg	1000	966	97	60-125	
Dibromomethane	ug/kg	1000	867	87	69-125	
Dichlorodifluoromethane	ug/kg	1000	880	88	38-125	
Dichlorofluoromethane	ug/kg	1000	1300	130	67-125	L3,N2
Diethyl ether (Ethyl ether)	ug/kg	1000	808	81	60-125	
Ethylbenzene	ug/kg	1000	805	81	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	984	98	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	990	99	65-125	
Methyl-tert-butyl ether	ug/kg	1000	816	82	59-125	
Methylene Chloride	ug/kg	1000	662	66	64-125	
n-Butylbenzene	ug/kg	1000	1010	101	59-125	
n-Propylbenzene	ug/kg	1000	976	98	61-125	
Naphthalene	ug/kg	1000	827	83	53-125	
p-Isopropyltoluene	ug/kg	1000	975	97	63-125	
sec-Butylbenzene	ug/kg	1000	1010	101	62-125	
Styrene	ug/kg	1000	826	83	66-125	
tert-Butylbenzene	ug/kg	1000	1040	104	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3148818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	896	90	67-125	
Tetrahydrofuran	ug/kg	10000	7030	70	62-125	
Toluene	ug/kg	1000	775	78	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	692	69	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	937	94	56-125	
Trichloroethene	ug/kg	1000	823	82	67-125	
Trichlorofluoromethane	ug/kg	1000	1520	152	65-125	CH,L3
Vinyl chloride	ug/kg	1000	946	95	57-125	
Xylene (Total)	ug/kg	3000	2460	82	62-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3148819 3148820

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457360006 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/kg	<19.4	1150	1220	1490	1650	129	136	64-146	10	30	
1,1,1-Trichloroethane	ug/kg	<28.7	1150	1220	1420	1760	123	145	56-148	21	30	
1,1,2,2-Tetrachloroethane	ug/kg	<10.9	1150	1220	1180	1340	103	110	36-150	12	30	
1,1,2-Trichloroethane	ug/kg	<7.4	1150	1220	1240	1520	107	124	67-148	20	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<71.5	1150	1220	1300	1720	112	141	60-142	28	30	
1,1-Dichloroethane	ug/kg	<6.9	1150	1220	1190	1540	103	126	57-140	26	30	
1,1-Dichloroethene	ug/kg	<18.5	1150	1220	956	1600	83	132	59-139	51	30	R1
1,1-Dichloropropene	ug/kg	<28.5	1150	1220	1240	1790	107	147	61-142	37	30	M1,R1
1,2,3-Trichlorobenzene	ug/kg	<9.9	1150	1220	1190	1530	103	125	69-150	25	30	
1,2,3-Trichloropropane	ug/kg	<16.2	1150	1220	1290	1430	112	117	64-150	10	30	
1,2,4-Trichlorobenzene	ug/kg	<13.7	1150	1220	1130	1450	98	119	71-149	24	30	
1,2,4-Trimethylbenzene	ug/kg	<12.3	1150	1220	1260	1600	110	132	67-149	24	30	
1,2-Dibromo-3-chloropropane	ug/kg	<215	2880	3050	3120	3810	108	125	61-150	20	30	
1,2-Dibromoethane (EDB)	ug/kg	<6.5	1150	1220	1140	1480	99	122	67-147	26	30	
1,2-Dichlorobenzene	ug/kg	<2.5	1150	1220	1310	1550	114	127	70-142	17	30	
1,2-Dichloroethane	ug/kg	<6.8	1150	1220	1220	1460	106	119	58-132	18	30	
1,2-Dichloropropane	ug/kg	<10.6	1150	1220	1190	1420	103	117	64-144	18	30	
1,3,5-Trimethylbenzene	ug/kg	<9.8	1150	1220	1260	1560	109	128	71-146	22	30	
1,3-Dichlorobenzene	ug/kg	<2.2	1150	1220	1360	1600	118	131	71-142	17	30	
1,3-Dichloropropane	ug/kg	<8.5	1150	1220	1140	1390	99	114	68-140	20	30	
1,4-Dichlorobenzene	ug/kg	<3.8	1150	1220	1300	1570	113	129	68-142	18	30	
2,2-Dichloropropane	ug/kg	<7.7	1150	1220	1320	1650	114	136	34-150	22	30	
2-Butanone (MEK)	ug/kg	<32.8	5770	6090	6200	6860	108	113	51-150	10	30	
2-Chlorotoluene	ug/kg	<3.0	1150	1220	1290	1670	112	137	66-144	26	30	
4-Chlorotoluene	ug/kg	<3.2	1150	1220	1260	1560	109	128	66-140	21	30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<12.8	5770	6090	6190	7440	107	122	63-150	18	30	
Acetone	ug/kg	<384	5770	6090	6520	7860	113	129	54-150	19	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3148819		3148820									
Parameter	Units	10457360006	MS	MSD	MS	MSD	MS	MSD	% Rec	Max			
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Allyl chloride	ug/kg	<51.7	1150	1220	964	1420	84	116	53-135	38	30	R1	
Benzene	ug/kg	<3.5	1150	1220	1050	1440	91	118	65-135	32	30	R1	
Bromobenzene	ug/kg	<3.8	1150	1220	1240	1460	108	120	71-141	17	30		
Bromochloromethane	ug/kg	<21.3	1150	1220	1130	1550	98	127	62-145	32	30	R1	
Bromodichloromethane	ug/kg	<21.1	1150	1220	1430	1590	124	131	59-148	11	30		
Bromoform	ug/kg	<93.4	1150	1220	1330	1430	115	117	57-145	7	30		
Bromomethane	ug/kg	<72.2	1150	1220	1470	1690	127	139	51-129	14	30	M1	
Carbon tetrachloride	ug/kg	<29.5	1150	1220	1370	1770	119	145	55-144	25	30	M1	
Chlorobenzene	ug/kg	<3.5	1150	1220	1230	1540	107	126	70-142	22	30		
Chloroethane	ug/kg	<32.1	1150	1220	1980	2060	172	169	61-135	4	30	M0	
Chloroform	ug/kg	<30.8	1150	1220	1250	1490	108	123	58-135	18	30		
Chloromethane	ug/kg	<14.8	1150	1220	1190	1310	103	107	37-125	9	30		
cis-1,2-Dichloroethene	ug/kg	<10.2	1150	1220	1110	1490	97	122	60-138	29	30		
cis-1,3-Dichloropropene	ug/kg	<8.8	1150	1220	1220	1440	106	118	62-142	17	30		
Dibromochloromethane	ug/kg	<7.2	1150	1220	1400	1610	121	132	65-141	14	30		
Dibromomethane	ug/kg	<11.3	1150	1220	1320	1560	114	128	72-150	17	30		
Dichlorodifluoromethane	ug/kg	<20.0	1150	1220	1170	1170	102	96	30-125	0	30		
Dichlorofluoromethane	ug/kg	<85.2	1150	1220	1710	1890	148	155	62-148	10	30	M0,N2	
Diethyl ether (Ethyl ether)	ug/kg	<37.7	1150	1220	1140	1580	99	130	62-135	32	30	R1	
Ethylbenzene	ug/kg	<3.4	1150	1220	1170	1510	101	124	72-138	26	30		
Hexachloro-1,3-butadiene	ug/kg	<15.0	1150	1220	1330	1660	115	136	38-150	22	30		
Isopropylbenzene (Cumene)	ug/kg	<2.7	1150	1220	1440	1810	125	149	75-148	23	30	M1	
Methyl-tert-butyl ether	ug/kg	<7.3	1150	1220	1250	1490	108	122	63-139	17	30		
Methylene Chloride	ug/kg	<116	1150	1220	983	1390	85	114	58-135	34	30	R1	
n-Butylbenzene	ug/kg	<29.4	1150	1220	1400	1700	122	139	63-150	19	30		
n-Propylbenzene	ug/kg	<3.3	1150	1220	1380	1770	119	145	70-146	25	30		
Naphthalene	ug/kg	<57.7	1150	1220	1240	1500	108	123	63-150	19	30		
p-Isopropyltoluene	ug/kg	<18.7	1150	1220	1350	1710	117	140	72-150	23	30		
sec-Butylbenzene	ug/kg	<11.8	1150	1220	1380	1690	120	138	66-150	20	30		
Styrene	ug/kg	<2.8	1150	1220	1200	1540	104	126	72-146	25	30		
tert-Butylbenzene	ug/kg	<11.8	1150	1220	1420	1740	123	143	71-148	20	30		
Tetrachloroethene	ug/kg	<21.7	1150	1220	1280	1760	111	145	70-150	32	30	R1	
Tetrahydrofuran	ug/kg	<89.7	11500	12200	10800	14400	93	118	62-150	29	30		
Toluene	ug/kg	<15.0	1150	1220	1120	1510	96	123	65-142	30	30		
trans-1,2-Dichloroethene	ug/kg	<28.9	1150	1220	1020	1540	89	127	55-141	40	30	R1	
trans-1,3-Dichloropropene	ug/kg	<8.6	1150	1220	1270	1570	110	129	57-147	21	30		
Trichloroethene	ug/kg	<9.5	1150	1220	1290	1590	112	130	62-150	21	30		
Trichlorofluoromethane	ug/kg	<108	1150	1220	2370	2270	206	186	51-150	5	30	CH,M0	
Vinyl chloride	ug/kg	<12.1	1150	1220	1350	1520	117	125	45-132	12	30		
Xylene (Total)	ug/kg	<14.3	3450	3660	3590	4590	104	126	75-140	25	30		
1,2-Dichloroethane-d4 (S)	%						103	102	75-125				
4-Bromofluorobenzene (S)	%						96	97	75-125				
Toluene-d8 (S)	%						95	94	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 579544 Analysis Method: EPA 8081B  
 QC Batch Method: EPA 3550 Analysis Description: 8081S GCS Pesticides  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3143401 Matrix: Solid  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	<0.30	3.3	0.30	12/12/18 14:22	
4,4'-DDE	ug/kg	<0.25	3.3	0.25	12/12/18 14:22	
4,4'-DDT	ug/kg	<0.42	3.3	0.42	12/12/18 14:22	
Aldrin	ug/kg	<0.17	1.7	0.17	12/12/18 14:22	
alpha-BHC	ug/kg	<0.12	1.7	0.12	12/12/18 14:22	
alpha-Chlordane	ug/kg	<0.14	1.7	0.14	12/12/18 14:22	
beta-BHC	ug/kg	<0.22	1.7	0.22	12/12/18 14:22	
Chlordane (Technical)	ug/kg	<3.0	16.7	3.0	12/12/18 14:22	
delta-BHC	ug/kg	<0.14	1.7	0.14	12/12/18 14:22	
Dieldrin	ug/kg	<0.32	3.3	0.32	12/12/18 14:22	
Endosulfan I	ug/kg	<0.15	1.7	0.15	12/12/18 14:22	
Endosulfan II	ug/kg	<0.34	3.3	0.34	12/12/18 14:22	
Endosulfan sulfate	ug/kg	<0.34	3.3	0.34	12/12/18 14:22	
Endrin	ug/kg	<0.30	3.3	0.30	12/12/18 14:22	
Endrin aldehyde	ug/kg	<1.0	3.3	1.0	12/12/18 14:22	
Endrin ketone	ug/kg	<0.39	3.3	0.39	12/12/18 14:22	
gamma-BHC (Lindane)	ug/kg	<0.14	1.7	0.14	12/12/18 14:22	
gamma-Chlordane	ug/kg	<0.38	1.7	0.38	12/12/18 14:22	
Heptachlor	ug/kg	<0.18	1.7	0.18	12/12/18 14:22	
Heptachlor epoxide	ug/kg	<0.16	1.7	0.16	12/12/18 14:22	
Methoxychlor	ug/kg	<2.5	16.7	2.5	12/12/18 14:22	
Toxaphene	ug/kg	<7.9	50.0	7.9	12/12/18 14:22	
Decachlorobiphenyl (S)	%	84	30-150		12/12/18 14:22	
Tetrachloro-m-xylene (S)	%	94	30-150		12/12/18 14:22	

LABORATORY CONTROL SAMPLE: 3143402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	33.3	33.2	100	62-127	
4,4'-DDE	ug/kg	33.3	33.5	101	66-125	
4,4'-DDT	ug/kg	33.3	23.5	71	67-128	
Aldrin	ug/kg	16.7	14.1	85	66-125	
alpha-BHC	ug/kg	16.7	14.6	88	64-125	
alpha-Chlordane	ug/kg	16.7	14.6	88	68-125	
beta-BHC	ug/kg	16.7	16.7	100	69-125	
delta-BHC	ug/kg	16.7	11.6	69	42-133	
Dieldrin	ug/kg	33.3	32.4	97	69-126	
Endosulfan I	ug/kg	16.7	11.9	72	63-125	
Endosulfan II	ug/kg	33.3	29.0	87	69-125	
Endosulfan sulfate	ug/kg	33.3	29.2	87	56-137	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3143402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/kg	33.3	28.9	87	69-125	
Endrin aldehyde	ug/kg	33.3	32.4	97	65-125	
Endrin ketone	ug/kg	33.3	29.8	89	69-129	
gamma-BHC (Lindane)	ug/kg	16.7	14.4	86	67-125	
gamma-Chlordane	ug/kg	16.7	14.2	85	63-125	
Heptachlor	ug/kg	16.7	14.3	86	69-125	
Heptachlor epoxide	ug/kg	16.7	14.0	84	68-125	
Methoxychlor	ug/kg	167	118	71	65-134	
Decachlorobiphenyl (S)	%			82	30-150	
Tetrachloro-m-xylene (S)	%			89	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3143403 3143404

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457188015 Result	Spike Conc.	Spike Conc.	MS Result						
4,4'-DDD	ug/kg	ND	37.2	37.1	39.5	41.2	106	111	56-125	4	20
4,4'-DDE	ug/kg	ND	37.2	37.1	42.9	44.4	116	120	32-150	3	20
4,4'-DDT	ug/kg	ND	37.2	37.1	34.5J	36.7J	93	99	60-132		20
Aldrin	ug/kg	ND	18.5	18.5	15.2J	15.5J	82	84	56-125		20
alpha-BHC	ug/kg	ND	18.5	18.5	17.0J	19.7	91	106	54-136		20
alpha-Chlordane	ug/kg	ND	18.5	18.5	22.8	23.6	123	127	54-133	3	20
beta-BHC	ug/kg	ND	18.5	18.5	34.2	47.3	184	255	30-150	32	20 M6,R1
delta-BHC	ug/kg	ND	18.5	18.5	12.7J	13.7J	68	74	45-145		20
Dieldrin	ug/kg	ND	37.2	37.1	45.4	48.1	122	130	47-150	6	20
Endosulfan I	ug/kg	ND	18.5	18.5	16.5J	15.3J	89	83	35-145		20
Endosulfan II	ug/kg	ND	37.2	37.1	32.9J	33.0J	89	89	50-147		20
Endosulfan sulfate	ug/kg	ND	37.2	37.1	34.3J	34.8J	92	94	54-132		20
Endrin	ug/kg	ND	37.2	37.1	34.8J	34.3J	94	93	62-125		20
Endrin aldehyde	ug/kg	ND	37.2	37.1	41.4	43.0	111	116	33-150	4	20
Endrin ketone	ug/kg	ND	37.2	37.1	39.6	41.1	107	111	56-144	4	20
gamma-BHC (Lindane)	ug/kg	ND	18.5	18.5	15.8J	15.6J	85	84	63-125		20
gamma-Chlordane	ug/kg	ND	18.5	18.5	24.2	26.5	130	143	45-132	9	20 M6
Heptachlor	ug/kg	ND	18.5	18.5	18.0J	22.4	97	121	51-142		20
Heptachlor epoxide	ug/kg	ND	18.5	18.5	16.8J	17.4J	90	94	50-142		20
Methoxychlor	ug/kg	ND	185	185	181J	182J	97	98	58-139		20
Decachlorobiphenyl (S)	%						0	0	30-150		S4
Tetrachloro-m-xylene (S)	%						0	0	30-150		3M,D3, S4

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 579372 Analysis Method: EPA 8082A  
 QC Batch Method: EPA 3550 Analysis Description: 8082A GCS PCB  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3142420 Matrix: Solid  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<9.2	33.0	9.2	12/10/18 08:36	
PCB-1221 (Aroclor 1221)	ug/kg	<11.6	33.0	11.6	12/10/18 08:36	
PCB-1232 (Aroclor 1232)	ug/kg	<13.2	33.0	13.2	12/10/18 08:36	
PCB-1242 (Aroclor 1242)	ug/kg	<11.2	33.0	11.2	12/10/18 08:36	
PCB-1248 (Aroclor 1248)	ug/kg	<9.9	33.0	9.9	12/10/18 08:36	
PCB-1254 (Aroclor 1254)	ug/kg	<9.7	33.0	9.7	12/10/18 08:36	
PCB-1260 (Aroclor 1260)	ug/kg	<7.9	33.0	7.9	12/10/18 08:36	
Decachlorobiphenyl (S)	%	99	30-134		12/10/18 08:36	
Tetrachloro-m-xylene (S)	%	82	48-125		12/10/18 08:36	

LABORATORY CONTROL SAMPLE: 3142421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	551	83	66-125	
PCB-1260 (Aroclor 1260)	ug/kg	667	569	85	62-125	
Decachlorobiphenyl (S)	%			100	30-134	
Tetrachloro-m-xylene (S)	%			83	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142422 3142423

Parameter	Units	12119477001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
PCB-1016 (Aroclor 1016)	ug/kg	ND	739	738	597	604	81	82	30-150	1	30		
PCB-1260 (Aroclor 1260)	ug/kg	ND	739	738	615	624	83	85	30-138	1	30		
Decachlorobiphenyl (S)	%						100	96	30-134				
Tetrachloro-m-xylene (S)	%						82	78	48-125				

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 579832 Analysis Method: EPA 8270D

QC Batch Method: EPA 3550 Analysis Description: 8270D Solid MSSV

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3145196 Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	<36.2	330	36.2	12/13/18 16:37	
1,2-Dichlorobenzene	ug/kg	<34.6	330	34.6	12/13/18 16:37	
1,2-Diphenylhydrazine	ug/kg	<40.5	330	40.5	12/13/18 16:37	
1,3-Dichlorobenzene	ug/kg	<22.6	330	22.6	12/13/18 16:37	
1,4-Dichlorobenzene	ug/kg	<36.7	330	36.7	12/13/18 16:37	
2,4,5-Trichlorophenol	ug/kg	<42.5	330	42.5	12/13/18 16:37	
2,4,6-Trichlorophenol	ug/kg	<51.1	330	51.1	12/13/18 16:37	
2,4-Dichlorophenol	ug/kg	<55.1	330	55.1	12/13/18 16:37	
2,4-Dimethylphenol	ug/kg	<129	330	129	12/13/18 16:37	
2,4-Dinitrophenol	ug/kg	<154	330	154	12/13/18 16:37	
2,4-Dinitrotoluene	ug/kg	<42.0	330	42.0	12/13/18 16:37	
2,6-Dinitrotoluene	ug/kg	<43.7	330	43.7	12/13/18 16:37	
2-Chloronaphthalene	ug/kg	<29.2	330	29.2	12/13/18 16:37	
2-Chlorophenol	ug/kg	<37.6	330	37.6	12/13/18 16:37	
2-Methylphenol(o-Cresol)	ug/kg	<20.6	330	20.6	12/13/18 16:37	
2-Nitroaniline	ug/kg	<82.8	330	82.8	12/13/18 16:37	
2-Nitrophenol	ug/kg	<40.2	330	40.2	12/13/18 16:37	
3&4-Methylphenol(m&p Cresol)	ug/kg	<18.6	660	18.6	12/13/18 16:37	
3,3'-Dichlorobenzidine	ug/kg	<111	330	111	12/13/18 16:37	
3-Nitroaniline	ug/kg	<36.0	330	36.0	12/13/18 16:37	
4,6-Dinitro-2-methylphenol	ug/kg	<327	1700	327	12/13/18 16:37	
4-Bromophenylphenyl ether	ug/kg	<39.3	330	39.3	12/13/18 16:37	
4-Chloro-3-methylphenol	ug/kg	<52.8	330	52.8	12/13/18 16:37	
4-Chloroaniline	ug/kg	<87.9	330	87.9	12/13/18 16:37	
4-Chlorophenylphenyl ether	ug/kg	<40.9	330	40.9	12/13/18 16:37	
4-Nitroaniline	ug/kg	<48.2	330	48.2	12/13/18 16:37	
4-Nitrophenol	ug/kg	<64.0	330	64.0	12/13/18 16:37	
bis(2-Chloroethoxy)methane	ug/kg	<33.8	330	33.8	12/13/18 16:37	
bis(2-Chloroethyl) ether	ug/kg	<26.1	330	26.1	12/13/18 16:37	
bis(2-Chloroisopropyl) ether	ug/kg	<34.0	330	34.0	12/13/18 16:37	
bis(2-Ethylhexyl)phthalate	ug/kg	<68.8	330	68.8	12/13/18 16:37	
Butylbenzylphthalate	ug/kg	<30.2	330	30.2	12/13/18 16:37	
Carbazole	ug/kg	<27.4	330	27.4	12/13/18 16:37	
Di-n-butylphthalate	ug/kg	<45.2	330	45.2	12/13/18 16:37	
Di-n-octylphthalate	ug/kg	<38.3	330	38.3	12/13/18 16:37	
Dibenzofuran	ug/kg	<41.8	330	41.8	12/13/18 16:37	
Diethylphthalate	ug/kg	<29.4	330	29.4	12/13/18 16:37	
Dimethylphthalate	ug/kg	<44.8	330	44.8	12/13/18 16:37	
Hexachloro-1,3-butadiene	ug/kg	<50.2	330	50.2	12/13/18 16:37	
Hexachlorobenzene	ug/kg	<53.8	330	53.8	12/13/18 16:37	
Hexachloroethane	ug/kg	<42.9	330	42.9	12/13/18 16:37	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

METHOD BLANK: 3145196

Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isophorone	ug/kg	<25.4	330	25.4	12/13/18 16:37	
N-Nitroso-di-n-propylamine	ug/kg	<151	330	151	12/13/18 16:37	
N-Nitrosodimethylamine	ug/kg	<40.5	330	40.5	12/13/18 16:37	
N-Nitrosodiphenylamine	ug/kg	<21.4	330	21.4	12/13/18 16:37	
Nitrobenzene	ug/kg	<36.3	330	36.3	12/13/18 16:37	
Pentachlorophenol	ug/kg	<193	670	193	12/13/18 16:37	
Phenol	ug/kg	<21.6	330	21.6	12/13/18 16:37	
2,4,6-Tribromophenol (S)	%	57	60-125		12/13/18 16:37	S0
2-Fluorobiphenyl (S)	%	53	30-132		12/13/18 16:37	
2-Fluorophenol (S)	%	52	40-125		12/13/18 16:37	
Nitrobenzene-d5 (S)	%	56	43-125		12/13/18 16:37	
p-Terphenyl-d14 (S)	%	79	62-125		12/13/18 16:37	
Phenol-d6 (S)	%	52	48-125		12/13/18 16:37	

LABORATORY CONTROL SAMPLE: 3145197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1670	1210	73	46-125	
1,2-Dichlorobenzene	ug/kg	1670	1170	70	41-125	
1,2-Diphenylhydrazine	ug/kg	1670	1450	87	63-125	
1,3-Dichlorobenzene	ug/kg	1670	1160	70	38-125	
1,4-Dichlorobenzene	ug/kg	1670	1180	71	39-125	
2,4,5-Trichlorophenol	ug/kg	1670	1430	86	63-125	
2,4,6-Trichlorophenol	ug/kg	1670	1430	86	61-125	
2,4-Dichlorophenol	ug/kg	1670	1350	81	57-125	
2,4-Dimethylphenol	ug/kg	1670	1150	69	51-125	
2,4-Dinitrophenol	ug/kg	1670	925	56	30-132	
2,4-Dinitrotoluene	ug/kg	1670	1460	87	62-125	
2,6-Dinitrotoluene	ug/kg	1670	1430	86	63-125	
2-Chloronaphthalene	ug/kg	1670	1370	82	61-125	
2-Chlorophenol	ug/kg	1670	1200	72	46-125	
2-Methylphenol(o-Cresol)	ug/kg	1670	1210	72	50-125	
2-Nitroaniline	ug/kg	1670	1410	84	61-125	
2-Nitrophenol	ug/kg	1670	1250	75	43-125	
3&4-Methylphenol(m&p Cresol)	ug/kg	1670	1280	77	54-125	
3,3'-Dichlorobenzidine	ug/kg	1670	1140	69	47-125	
3-Nitroaniline	ug/kg	1670	897	54	57-125	L2
4,6-Dinitro-2-methylphenol	ug/kg	1670	1070J	64	30-141	
4-Bromophenylphenyl ether	ug/kg	1670	1390	83	63-125	
4-Chloro-3-methylphenol	ug/kg	1670	1400	84	64-125	
4-Chloroaniline	ug/kg	1670	660	40	36-125	
4-Chlorophenylphenyl ether	ug/kg	1670	1420	85	64-125	
4-Nitroaniline	ug/kg	1670	1270	76	59-125	
4-Nitrophenol	ug/kg	1670	1450	87	54-125	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3145197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	1670	1290	77	52-125	
bis(2-Chloroethyl) ether	ug/kg	1670	1180	71	41-125	
bis(2-Chloroisopropyl) ether	ug/kg	1670	1140	68	37-125	
bis(2-Ethylhexyl)phthalate	ug/kg	1670	1530	92	69-131	
Butylbenzylphthalate	ug/kg	1670	1520	91	69-129	
Carbazole	ug/kg	1670	1460	88	66-125	
Di-n-butylphthalate	ug/kg	1670	1540	93	69-125	
Di-n-octylphthalate	ug/kg	1670	1540	92	69-133	
Dibenzofuran	ug/kg	1670	1400	84	65-125	
Diethylphthalate	ug/kg	1670	1480	89	67-125	
Dimethylphthalate	ug/kg	1670	1420	85	67-125	
Hexachloro-1,3-butadiene	ug/kg	1670	1180	71	40-125	
Hexachlorobenzene	ug/kg	1670	1390	83	62-125	
Hexachloroethane	ug/kg	1670	1130	68	33-125	
Isophorone	ug/kg	1670	1310	79	57-125	
N-Nitroso-di-n-propylamine	ug/kg	1670	1220	73	50-125	
N-Nitrosodimethylamine	ug/kg	1670	1200	72	36-125	
N-Nitrosodiphenylamine	ug/kg	1670	1440	87	65-125	
Nitrobenzene	ug/kg	1670	1240	75	48-125	
Pentachlorophenol	ug/kg	1670	1230	74	41-125	
Phenol	ug/kg	1670	1230	74	46-125	
2,4,6-Tribromophenol (S)	%			79	60-125	
2-Fluorobiphenyl (S)	%			76	30-132	
2-Fluorophenol (S)	%			69	40-125	
Nitrobenzene-d5 (S)	%			68	43-125	
p-Terphenyl-d14 (S)	%			79	62-125	
Phenol-d6 (S)	%			69	48-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145198 3145199

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10457121005 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,2,4-Trichlorobenzene	ug/kg	<42.9	1980	1980	1510	1340	76	68	30-127	12	30	
1,2-Dichlorobenzene	ug/kg	<41.0	1980	1980	1450	1300	73	66	30-125	11	30	
1,2-Diphenylhydrazine	ug/kg	<48.0	1980	1980	1670	1530	84	78	30-150	9	30	
1,3-Dichlorobenzene	ug/kg	<26.8	1980	1980	1430	1290	72	66	30-125	10	30	
1,4-Dichlorobenzene	ug/kg	<43.5	1980	1980	1450	1330	73	67	30-125	8	30	
2,4,5-Trichlorophenol	ug/kg	<50.3	1980	1980	1720	1550	87	78	30-150	10	30	
2,4,6-Trichlorophenol	ug/kg	<60.5	1980	1980	1700	1520	86	77	30-150	11	30	
2,4-Dichlorophenol	ug/kg	<65.3	1980	1980	1620	1460	82	74	30-135	10	30	
2,4-Dimethylphenol	ug/kg	<153	1980	1980	1180	1070	60	54	30-148	10	30	
2,4-Dinitrophenol	ug/kg	<182	1980	1980	783	731	40	37	30-125	7	30	
2,4-Dinitrotoluene	ug/kg	<49.8	1980	1980	1670	1540	84	78	30-150	8	30	
2,6-Dinitrotoluene	ug/kg	<51.8	1980	1980	1660	1530	84	78	30-150	8	30	
2-Chloronaphthalene	ug/kg	<34.6	1980	1980	1650	1460	83	74	30-138	12	30	

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145198 3145199												
Parameter	Units	10457121005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
2-Chlorophenol	ug/kg	<44.5	1980	1980	1480	1300	75	66	30-130	13	30	
2-Methylphenol(o-Cresol)	ug/kg	<24.4	1980	1980	1500	1300	76	66	30-133	14	30	
2-Nitroaniline	ug/kg	<98.1	1980	1980	1650	1500	83	76	30-150	9	30	
2-Nitrophenol	ug/kg	<47.6	1980	1980	1550	1380	78	70	30-134	11	30	
3&4-Methylphenol(m&p Cresol)	ug/kg	<22.0	1980	1980	1530	1360	77	69	30-138	12	30	
3,3'-Dichlorobenzidine	ug/kg	<131	1980	1980	1330	1270	67	64	30-149	5	30	
3-Nitroaniline	ug/kg	<42.6	1980	1980	1100	1030	55	52	30-150	6	30	
4,6-Dinitro-2-methylphenol	ug/kg	<387	1980	1980	945J	884J	48	45	30-133		30	
4-Bromophenylphenyl ether	ug/kg	<46.6	1980	1980	1680	1560	85	79	44-125	8	30	
4-Chloro-3-methylphenol	ug/kg	<62.5	1980	1980	1680	1540	85	78	30-150	9	30	
4-Chloroaniline	ug/kg	<104	1980	1980	658	707	33	36	30-125	7	30	
4-Chlorophenylphenyl ether	ug/kg	<48.5	1980	1980	1670	1520	84	77	44-125	10	30	
4-Nitroaniline	ug/kg	<57.1	1980	1980	1500	1360	76	69	30-150	10	30	
4-Nitrophenol	ug/kg	<75.8	1980	1980	1690	1520	85	77	30-150	11	30	
bis(2-Chloroethoxy)methane	ug/kg	<40.0	1980	1980	1560	1390	79	71	30-134	12	30	
bis(2-Chloroethyl) ether	ug/kg	<30.9	1980	1980	1420	1280	72	65	30-125	11	30	
bis(2-Chloroisopropyl) ether	ug/kg	<40.3	1980	1980	1390	1240	70	63	30-125	11	30	
bis(2-Ethylhexyl)phthalate	ug/kg	<81.5	1980	1980	1830	1670	93	85	30-150	9	30	
Butylbenzylphthalate	ug/kg	<35.8	1980	1980	1820	1660	92	84	30-150	9	30	
Carbazole	ug/kg	<32.5	1980	1980	1720	1590	87	81	41-125	8	30	
Di-n-butylphthalate	ug/kg	<53.5	1980	1980	1820	1690	92	86	30-150	7	30	
Di-n-octylphthalate	ug/kg	<45.4	1980	1980	1810	1690	91	86	30-150	6	30	
Dibenzofuran	ug/kg	<49.5	1980	1980	1670	1500	84	76	45-125	11	30	
Diethylphthalate	ug/kg	<34.8	1980	1980	1720	1560	87	79	30-150	10	30	
Dimethylphthalate	ug/kg	<53.1	1980	1980	1680	1540	85	78	30-150	9	30	
Hexachloro-1,3-butadiene	ug/kg	<59.5	1980	1980	1490	1340	75	68	30-128	11	30	
Hexachlorobenzene	ug/kg	<63.7	1980	1980	1610	1480	82	75	30-150	8	30	
Hexachloroethane	ug/kg	<50.8	1980	1980	1380	1240	70	63	30-125	10	30	
Isophorone	ug/kg	<30.1	1980	1980	1580	1390	80	70	30-140	13	30	
N-Nitroso-di-n-propylamine	ug/kg	<179	1980	1980	1490	1330	75	67	30-147	11	30	
N-Nitrosodimethylamine	ug/kg	<48.0	1980	1980	1440	1290	73	65	30-125	11	30	
N-Nitrosodiphenylamine	ug/kg	<25.4	1980	1980	1670	1550	84	79	30-150	7	30	
Nitrobenzene	ug/kg	<43.0	1980	1980	1510	1330	76	68	30-136	12	30	
Pentachlorophenol	ug/kg	<229	1980	1980	1450	1380	73	70	30-150	5	30	
Phenol	ug/kg	<25.6	1980	1980	1500	1320	76	67	30-129	13	30	
2,4,6-Tribromophenol (S)	%						77	72	60-125			
2-Fluorobiphenyl (S)	%						76	69	30-132			
2-Fluorophenol (S)	%						69	64	40-125			
Nitrobenzene-d5 (S)	%						70	64	43-125			
p-Terphenyl-d14 (S)	%						77	73	62-125			
Phenol-d6 (S)	%						71	64	48-125			

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 579374 Analysis Method: EPA 8270D by SIM  
 QC Batch Method: EPA 3550 Analysis Description: 8270D Solid PAH by SIM MSSV  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

METHOD BLANK: 3142430 Matrix: Solid  
 Associated Lab Samples: 10457528001, 10457528002, 10457528003, 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<0.54	10.0	0.54	12/07/18 10:37	
2-Methylnaphthalene	ug/kg	<0.50	10.0	0.50	12/07/18 10:37	
Acenaphthene	ug/kg	<0.41	10.0	0.41	12/07/18 10:37	
Acenaphthylene	ug/kg	<0.50	10.0	0.50	12/07/18 10:37	
Anthracene	ug/kg	<0.47	10.0	0.47	12/07/18 10:37	
Benzo(a)anthracene	ug/kg	<1.1	10.0	1.1	12/07/18 10:37	
Benzo(a)pyrene	ug/kg	<0.69	10.0	0.69	12/07/18 10:37	
Benzo(b)fluoranthene	ug/kg	<0.37	10.0	0.37	12/07/18 10:37	
Benzo(g,h,i)perylene	ug/kg	<0.63	10.0	0.63	12/07/18 10:37	
Benzo(k)fluoranthene	ug/kg	<0.84	10.0	0.84	12/07/18 10:37	
Chrysene	ug/kg	<1.4	10.0	1.4	12/07/18 10:37	
Dibenz(a,h)anthracene	ug/kg	<0.46	10.0	0.46	12/07/18 10:37	
Fluoranthene	ug/kg	<0.43	10.0	0.43	12/07/18 10:37	
Fluorene	ug/kg	<0.31	10.0	0.31	12/07/18 10:37	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.67	10.0	0.67	12/07/18 10:37	
Naphthalene	ug/kg	<0.77	10.0	0.77	12/07/18 10:37	
Phenanthrene	ug/kg	<1.9	10.0	1.9	12/07/18 10:37	
Pyrene	ug/kg	<1.5	10.0	1.5	12/07/18 10:37	
2-Fluorobiphenyl (S)	%	52	42-125		12/07/18 10:37	
p-Terphenyl-d14 (S)	%	76	57-125		12/07/18 10:37	

LABORATORY CONTROL SAMPLE: 3142431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	33.3	22.5	67	41-125	
2-Methylnaphthalene	ug/kg	33.3	21.2	64	40-125	
Acenaphthene	ug/kg	33.3	21.7	65	52-125	
Acenaphthylene	ug/kg	33.3	21.6	65	50-125	
Anthracene	ug/kg	33.3	26.1	78	65-125	
Benzo(a)anthracene	ug/kg	33.3	23.6	71	60-125	
Benzo(a)pyrene	ug/kg	33.3	26.2	78	69-125	
Benzo(b)fluoranthene	ug/kg	33.3	28.0	84	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	27.3	82	60-125	
Benzo(k)fluoranthene	ug/kg	33.3	25.1	75	67-125	
Chrysene	ug/kg	33.3	25.9	78	67-125	
Dibenz(a,h)anthracene	ug/kg	33.3	27.6	83	63-125	
Fluoranthene	ug/kg	33.3	25.9	78	75-125	
Fluorene	ug/kg	33.3	24.3	73	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	27.8	83	63-125	
Naphthalene	ug/kg	33.3	20.4	61	49-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

LABORATORY CONTROL SAMPLE: 3142431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	33.3	24.2	73	65-125	
Pyrene	ug/kg	33.3	25.0	75	64-125	
2-Fluorobiphenyl (S)	%			70	42-125	
p-Terphenyl-d14 (S)	%			80	57-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3142432 3142433

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		12119477001 Result	Spike Conc.	Spike Conc.	Conc.						RPD	RPD
1-Methylnaphthalene	ug/kg	37.6	36.9	36.9	36.9	50.8	48.3	36	29	33-125	5	30 M1
2-Methylnaphthalene	ug/kg	53.5	36.9	36.9	36.9	64.4	63.7	29	28	30-125	1	30 M1
Acenaphthene	ug/kg	ND	36.9	36.9	36.9	29.0	30.5	78	83	30-125	5	30
Acenaphthylene	ug/kg	ND	36.9	36.9	36.9	34.2	39.1	93	106	30-133	13	30
Anthracene	ug/kg	12.4	36.9	36.9	36.9	45.8	69.2	91	154	30-150	41	30 M1,R1
Benzo(a)anthracene	ug/kg	48.3	36.9	36.9	36.9	105	227	153	484	30-150	74	30 M1,R1
Benzo(a)pyrene	ug/kg	47.5	36.9	36.9	36.9	95.7	194	131	398	30-150	68	30 M1,R1
Benzo(b)fluoranthene	ug/kg	80.8	36.9	36.9	36.9	140	284	160	551	30-150	68	30 M1,R1
Benzo(g,h,i)perylene	ug/kg	45.8	36.9	36.9	36.9	75.9	124	82	212	30-150	48	30 M1,R1
Benzo(k)fluoranthene	ug/kg	29.0	36.9	36.9	36.9	57.0	92.8	76	173	30-150	48	30 M1,R1
Chrysene	ug/kg	50.2	36.9	36.9	36.9	92.9	198	116	401	30-150	72	30 M1,R1
Dibenz(a,h)anthracene	ug/kg	14.9	36.9	36.9	36.9	46.5	63.2	85	131	30-131	30	30
Fluoranthene	ug/kg	69.5	36.9	36.9	36.9	145	279	204	570	30-150	63	30 M1,R1
Fluorene	ug/kg	ND	36.9	36.9	36.9	30.6	34.4	83	93	30-147	11	30
Indeno(1,2,3-cd)pyrene	ug/kg	36.8	36.9	36.9	36.9	69.5	106	89	188	30-150	42	30 M1,R1
Naphthalene	ug/kg	30.6	36.9	36.9	36.9	39.2	43.8	23	36	30-131	11	30 M1
Phenanthrene	ug/kg	51.3	36.9	36.9	36.9	81.7	117	82	178	30-150	36	30 M1,R1
Pyrene	ug/kg	59.6	36.9	36.9	36.9	126	248	180	512	30-150	65	30 M1,R1
2-Fluorobiphenyl (S)	%							76	76	42-125		
p-Terphenyl-d14 (S)	%							72	72	57-125		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 580196 Analysis Method: NWTPH-Dx  
QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS  
Associated Lab Samples: 10457528001, 10457528002, 10457528003

METHOD BLANK: 3146528 Matrix: Solid

Associated Lab Samples: 10457528001, 10457528002, 10457528003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	4.7J	15.0	2.4	12/14/18 15:47	
Motor Oil Range	mg/kg	13.4	10.0	4.3	12/14/18 15:47	
n-Triacontane (S)	%.	109	50-150		12/14/18 15:47	
o-Terphenyl (S)	%.	96	50-150		12/14/18 15:47	

LABORATORY CONTROL SAMPLE: 3146529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	56.0	112	50-150	
Motor Oil Range	mg/kg	50	66.3	133	50-150	
n-Triacontane (S)	%.			114	50-150	
o-Terphenyl (S)	%.			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146530 3146531

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457528001 Result	Spike Conc.	Spike Conc.	Result						
Diesel Fuel Range	mg/kg	3.5J	65.5	66.3	72.8	67.1	106	96	50-150	8	30
Motor Oil Range	mg/kg	13.3	65.5	66.3	82.2	78.4	105	98	50-150	5	30
n-Triacontane (S)	%.						108	101	50-150		
o-Terphenyl (S)	%.						97	88	50-150		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

QC Batch: 581115 Analysis Method: NWTPH-Dx  
QC Batch Method: EPA 3550 Analysis Description: NWTPH-Dx GCS  
Associated Lab Samples: 10457528004, 10457528005, 10457528006

METHOD BLANK: 3151070 Matrix: Solid

Associated Lab Samples: 10457528004, 10457528005, 10457528006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/kg	<2.4	15.0	2.4	12/15/18 15:07	
Motor Oil Range	mg/kg	<4.3	10.0	4.3	12/15/18 15:07	
n-Triacontane (S)	%.	99	50-150		12/15/18 15:07	
o-Terphenyl (S)	%.	95	50-150		12/15/18 15:07	

LABORATORY CONTROL SAMPLE: 3151071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel Range	mg/kg	50	47.5	95	50-150	
Motor Oil Range	mg/kg	50	46.9	94	50-150	
n-Triacontane (S)	%.			100	50-150	
o-Terphenyl (S)	%.			89	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3151072 3151073

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10457528004 Result	Spike Conc.	Spike Conc.	MS Result						
Diesel Fuel Range	mg/kg	<2.7	55.9	58.1	55.1	57.4	97	98	50-150	4	30
Motor Oil Range	mg/kg	<4.9	55.9	58.1	57.0	59.4	99	99	50-150	4	30
n-Triacontane (S)	%.						106	106	50-150		
o-Terphenyl (S)	%.						91	92	50-150		

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## QUALIFIERS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 581111

[1] All samples re-extracted outside of method hold criteria.

Batch: 592690

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1M Preserved from glass jar with headspace outside of 48 hours from collection.

2M Sample preserved in lab; results are from sample aliquot taken from a glass jar with headspace.

3M Sample was dark brown in color.

4M Sample was taken from a glass jar with headspace and frozen outside of 48 hours from collection.

5M Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

6M Sample was taken from a packed glass jar and frozen outside of 48 hours from collection.

7M Sample was yellow in color. Sample was initially analyzed at 2X with failing CCV recoveries.

8M Sample was yellow in color. Sample was initially analyzed at 2X with failing CCVs

B Analyte was detected in the associated method blank.

C0 Result confirmed by second analysis.

C1 Result could not be confirmed by second analysis.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

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### ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P3	Sample extract could not be concentrated to the routine final volume, resulting in elevated reporting limits.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457528001	MW-1 (2-3)	EPA 3550	579544	EPA 8081B	580511
10457528002	MW-1 (15-16)	EPA 3550	579544	EPA 8081B	580511
10457528003	MW-2 (2.5-4)	EPA 3550	579544	EPA 8081B	580511
10457528004	MW-3 (7-8.5)	EPA 3550	579544	EPA 8081B	580511
10457528005	MW-4 (3-4.5)	EPA 3550	579544	EPA 8081B	580511
10457528006	MW-4 (7-8.5)	EPA 3550	579544	EPA 8081B	580511
10457528001	MW-1 (2-3)	EPA 3550	579372	EPA 8082A	579826
10457528002	MW-1 (15-16)	EPA 3550	579372	EPA 8082A	579826
10457528003	MW-2 (2.5-4)	EPA 3550	579372	EPA 8082A	579826
10457528004	MW-3 (7-8.5)	EPA 3550	579372	EPA 8082A	579826
10457528005	MW-4 (3-4.5)	EPA 3550	579372	EPA 8082A	579826
10457528006	MW-4 (7-8.5)	EPA 3550	579372	EPA 8082A	579826
10457528001	MW-1 (2-3)	EPA 3550	580196	NWTPH-Dx	581111
10457528002	MW-1 (15-16)	EPA 3550	580196	NWTPH-Dx	581111
10457528003	MW-2 (2.5-4)	EPA 3550	580196	NWTPH-Dx	581111
10457528004	MW-3 (7-8.5)	EPA 3550	581115	NWTPH-Dx	581155
10457528005	MW-4 (3-4.5)	EPA 3550	581115	NWTPH-Dx	581155
10457528006	MW-4 (7-8.5)	EPA 3550	581115	NWTPH-Dx	581155
10457528001	MW-1 (2-3)	NWTPH-Gx	580461	NWTPH-Gx	580709
10457528002	MW-1 (15-16)	NWTPH-Gx	580461	NWTPH-Gx	580709
10457528003	MW-2 (2.5-4)	NWTPH-Gx	580461	NWTPH-Gx	580709
10457528004	MW-3 (7-8.5)	NWTPH-Gx	580641	NWTPH-Gx	580831
10457528005	MW-4 (3-4.5)	NWTPH-Gx	580641	NWTPH-Gx	580831
10457528006	MW-4 (7-8.5)	NWTPH-Gx	580641	NWTPH-Gx	580831
10457528007	Trip Blank	NWTPH-Gx	580461	NWTPH-Gx	580709
10457528001	MW-1 (2-3)	EPA 3050	579221	EPA 6010D	579420
10457528002	MW-1 (15-16)	EPA 3050	579221	EPA 6010D	579420
10457528003	MW-2 (2.5-4)	EPA 3050	579221	EPA 6010D	579420
10457528004	MW-3 (7-8.5)	EPA 3050	579221	EPA 6010D	579420
10457528005	MW-4 (3-4.5)	EPA 3050	579221	EPA 6010D	579420
10457528006	MW-4 (7-8.5)	EPA 3050	579221	EPA 6010D	579420
10457528001	MW-1 (2-3)	EPA 7471B	579223	EPA 7471B	579608
10457528002	MW-1 (15-16)	EPA 7471B	579223	EPA 7471B	579608
10457528003	MW-2 (2.5-4)	EPA 7471B	579223	EPA 7471B	579608
10457528004	MW-3 (7-8.5)	EPA 7471B	579223	EPA 7471B	579608
10457528005	MW-4 (3-4.5)	EPA 7471B	579223	EPA 7471B	579608
10457528006	MW-4 (7-8.5)	EPA 7471B	579223	EPA 7471B	579608
10457528001	MW-1 (2-3)	ASTM D2974	580923		
10457528002	MW-1 (15-16)	ASTM D2974	580923		
10457528003	MW-2 (2.5-4)	ASTM D2974	580923		
10457528004	MW-3 (7-8.5)	ASTM D2974	580923		
10457528005	MW-4 (3-4.5)	ASTM D2974	580923		
10457528006	MW-4 (7-8.5)	ASTM D2974	580923		
10457528001	MW-1 (2-3)	EPA 3550	579832	EPA 8270D	580784

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 050413900 Stubblefield-Revised Report

Pace Project No.: 10457528

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10457528002	MW-1 (15-16)	EPA 3550	579832	EPA 8270D	580784
10457528003	MW-2 (2.5-4)	EPA 3550	579832	EPA 8270D	580784
10457528004	MW-3 (7-8.5)	EPA 3550	579832	EPA 8270D	580784
10457528005	MW-4 (3-4.5)	EPA 3550	579832	EPA 8270D	580784
10457528006	MW-4 (7-8.5)	EPA 3550	579832	EPA 8270D	580784
10457528001	MW-1 (2-3)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528002	MW-1 (15-16)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528003	MW-2 (2.5-4)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528004	MW-3 (7-8.5)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528005	MW-4 (3-4.5)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528006	MW-4 (7-8.5)	EPA 3550	579374	EPA 8270D by SIM	579557
10457528001	MW-1 (2-3)	EPA 5035 Low	592666	EPA 8260B	592690
10457528002	MW-1 (15-16)	EPA 5035 Low	592666	EPA 8260B	592690
10457528003	MW-2 (2.5-4)	EPA 5035 Low	592666	EPA 8260B	592690
10457528004	MW-3 (7-8.5)	EPA 5035 Low	592666	EPA 8260B	592690
10457528005	MW-4 (3-4.5)	EPA 5035 Low	592666	EPA 8260B	592690
10457528006	MW-4 (7-8.5)	EPA 5035 Low	592666	EPA 8260B	592690
10457528001	MW-1 (2-3)	EPA 5035/5030B	580422	EPA 8260B	580578
10457528002	MW-1 (15-16)	EPA 5035/5030B	580422	EPA 8260B	580578
10457528003	MW-2 (2.5-4)	EPA 5035/5030B	580422	EPA 8260B	580578
10457528004	MW-3 (7-8.5)	EPA 5035/5030B	580653	EPA 8260B	580678
10457528005	MW-4 (3-4.5)	EPA 5035/5030B	580653	EPA 8260B	580678
10457528006	MW-4 (7-8.5)	EPA 5035/5030B	580653	EPA 8260B	580678
10457528007	Trip Blank	EPA 5035/5030B	580422	EPA 8260B	580578

## REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be comp'

## NO#: 10457528



www.faceabs.com

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>GeoEngineers</b>	Report To: <b>JP Sugawski</b>	Company Name:	Attention:	Invoice #:	10457528
Address: <b>5236 2nd Ave</b>	Copy To:	Address:	REGULATORY AGENCY	NPDES <input type="checkbox"/>	GROUND WATER <input type="checkbox"/>
City: <b>SPOKANE WA 99202</b>	Purchase Order No.:	State: <b>WA</b>	RCRA <input type="checkbox"/>	UST <input type="checkbox"/>	DRINKING WATER <input type="checkbox"/>
Email To: <b>Sugawski@geoengineers.com</b>	Project Name:	Site Location:	Other <input type="checkbox"/>	State: _____	
Phone: <b>509-281-2830</b>	Project Number:	STATE: _____			
Requested Due Date/TAT:					

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↑	Y/N	Requested Analysis Filtered (Y/N)	Face Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END			DATE	TIME	DATE	TIME	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl				
1	MW-1 (2-3)	DW	G	11-24	11-24	0730	10	X									001	
2	MW-1 (5-10)	WT	G	11-24	11-24	0800	10	X									002	
3	MW-2 (2.5-4)	WW	G	11-24	11-24	1210	10	X									003	
4	MW-3 (7-8.5)	P	G	11-30	11-30	0900	10	X									004	
5	MW-4 (3-4.5)	Product	G	11-30	11-30	1730	10	X									005	
6	MW-4 (7-8.5)	Soil/Solid	G	11-30	11-30	1750	8	X									006	
7	Trap Blank	Oil	G														007	
8		Wipe																
9		Air																
10		Other																
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Samples MW-1 (2-3) <del>11-24</del> MW-1 (5-10) (MW-2(2.5-4)) Have wrong date on labels Chain IS correct. Collected on 11-24m	<i>[Signature]</i>	12-3-18	1500	<i>[Signature]</i>	12/4/18	1510	Received on Ice (Y/N) <input type="checkbox"/> Temp in °C _____ Sealed Cooler (Y/N) <input type="checkbox"/> Custody (Y/N) <input type="checkbox"/> Samples Intact (Y/N) <input type="checkbox"/>

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER:  
 DATE Signed (MM/DD/YY):

ORIGINAL

**Sample Condition Upon Receipt**

Client Name: Geo Engineers

Project #: \_\_\_\_\_

**WO# : 10457528**

PM: JMG

Due Date: 12/11/18

CLIENT: GeoEngineers

Courier:  Fed Ex  UPS  USPS  Client

Commercial  Pace  Speedee  Other: \_\_\_\_\_

Tracking Number: 463801939064

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  G87A9170600254  G87A9155100842      Type of Ice:  Wet  Blue  None  Dry  Melted

Cooler Temp Read (°C): 4.2      Cooler Temp Corrected (°C): 4.2      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: none      Date and Initials of Person Examining Contents: TL 12/4/18

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <u>SU</u>	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>MA</u>	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

JENNI GROSS

Date: 12/05/18

Note: Whenever there is a discrepancy affecting North Carolina hold, incorrect preservative, out of temp, incorrect containers).

1 copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of

Labeled by: TL



February 28, 2019

JR Sugalski  
GeoEngineers  
523 East 2nd Avenue  
Spokane, WA 99202

RE: Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10458136

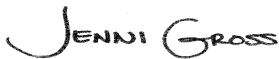
Dear JR Sugalski:

Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on February 28, 2019 to report all results to the method detection limit and to analyze for method 8011 on samples 10458136-001 through 10458136-005.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross  
jennifer.gross@pacelabs.com  
(206)957-2426  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10458136001	MW-1:120618	Water	12/06/18 10:40	12/08/18 12:00
10458136002	MW-2:120618	Water	12/06/18 12:20	12/08/18 12:00
10458136003	MW-3:120618	Water	12/06/18 13:50	12/08/18 12:00
10458136004	MW-4:120618	Water	12/06/18 15:45	12/08/18 12:00
10458136005	Dup:120618	Water	12/06/18 15:45	12/08/18 12:00
10458136006	Trip Blank	Water	12/06/18 00:00	12/08/18 12:00
10458136008	Trip Blank	Water	12/06/18 00:00	12/08/18 12:00
10458136009	Trip Blank	Water	12/06/18 00:00	12/08/18 12:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10458136001	MW-1:120618	EPA 8011	XV1	2
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 8270D	AT1	72
		EPA 8260B	DS2	69
10458136002	MW-2:120618	EPA 8011	XV1	2
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 8270D	AT1	72
		EPA 8260B	DS2	69
10458136003	MW-3:120618	EPA 8011	XV1	2
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 8270D	AT1	72
		EPA 8260B	DS2	69
10458136004	MW-4:120618	EPA 8011	XV1	2
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 8270D	AT1	72
		EPA 8260B	DS2	69
10458136005	Dup:120618	EPA 8011	XV1	2
		EPA 8082A	RAG	9
		NWTPH-Dx	ST1	4
		NWTPH-Gx	AG1	2
		EPA 8270D	AT1	72
		EPA 8260B	DS2	69
10458136006	Trip Blank	NWTPH-Gx	AG1	2
		EPA 8260B	DS2	69
10458136008	Trip Blank	NWTPH-Gx	AG1	2
		EPA 8260B	DS2	69
10458136009	Trip Blank	NWTPH-Gx	AG1	2
		EPA 8260B	DS2	69

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** EPA 8011

**Description:** 8011 GCS EDB and DBCP

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

### General Information:

5 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- Dup:120618 (Lab ID: 10458136005)
- MW-1:120618 (Lab ID: 10458136001)
- MW-2:120618 (Lab ID: 10458136002)
- MW-3:120618 (Lab ID: 10458136003)
- MW-4:120618 (Lab ID: 10458136004)

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.

- Dup:120618 (Lab ID: 10458136005)
- MW-1:120618 (Lab ID: 10458136001)
- MW-2:120618 (Lab ID: 10458136002)
- MW-3:120618 (Lab ID: 10458136003)
- MW-4:120618 (Lab ID: 10458136004)

H2: Extraction or preparation was conducted outside of the recognized method holding time.

- Dup:120618 (Lab ID: 10458136005)
- MW-1:120618 (Lab ID: 10458136001)
- MW-2:120618 (Lab ID: 10458136002)
- MW-3:120618 (Lab ID: 10458136003)
- MW-4:120618 (Lab ID: 10458136004)

### Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** EPA 8011

**Description:** 8011 GCS EDB and DBCP

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 591310

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10458136

---

**Method:** EPA 8082A  
**Description:** 8082A GCS PCB  
**Client:** GeoEngineers\_WA  
**Date:** February 28, 2019

### General Information:

5 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 581017

S0: Surrogate recovery outside laboratory control limits.

- LCS (Lab ID: 3150572)
  - Decachlorobiphenyl (S)
- LCSD (Lab ID: 3150573)
  - Decachlorobiphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 581017

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCSD (Lab ID: 3150573)
  - PCB-1260 (Aroclor 1260)

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 581017

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** NWTPH-Dx

**Description:** NWTPH-Dx GCS LV

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

**General Information:**

5 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA Mod. 3510C with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** NWTPH-Gx

**Description:** NWTPH-Gx GCV

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

**General Information:**

8 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

### General Information:

5 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3520 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 580752

S0: Surrogate recovery outside laboratory control limits.

- Dup:120618 (Lab ID: 10458136005)
  - 2-Fluorobiphenyl (S)
- MW-1:120618 (Lab ID: 10458136001)
  - 2-Fluorobiphenyl (S)
- MW-2:120618 (Lab ID: 10458136002)
  - 2-Fluorobiphenyl (S)
- MW-3:120618 (Lab ID: 10458136003)
  - 2-Fluorobiphenyl (S)
- MW-4:120618 (Lab ID: 10458136004)
  - 2-Fluorobiphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** EPA 8270D

**Description:** 8270D MSSV

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

QC Batch: 580752

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

---

**Method:** EPA 8260B

**Description:** 8260B MSV

**Client:** GeoEngineers\_WA

**Date:** February 28, 2019

### General Information:

8 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 580474

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10458136001

R1: RPD value was outside control limits.

- MSD (Lab ID: 3147758)
- Chloromethane

QC Batch: 580977

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10458136003

R1: RPD value was outside control limits.

- MSD (Lab ID: 3150383)
- Chloromethane

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-1:120618**      **Lab ID: 10458136001**      Collected: 12/06/18 10:40      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	<0.0046	ug/L	0.010	0.0046	1	02/25/19 14:34	02/25/19 23:53	106-93-4	H1,H2
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	115	%	75-125		1	02/25/19 14:34	02/25/19 23:53	460-00-4	P4
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A      Preparation Method: EPA Mod. 3510C									
PCB-1016 (Aroclor 1016)	<0.041	ug/L	0.097	0.041	1	12/14/18 14:20	12/18/18 13:40	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.042	ug/L	0.097	0.042	1	12/14/18 14:20	12/18/18 13:40	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.035	ug/L	0.097	0.035	1	12/14/18 14:20	12/18/18 13:40	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.036	ug/L	0.097	0.036	1	12/14/18 14:20	12/18/18 13:40	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.039	ug/L	0.097	0.039	1	12/14/18 14:20	12/18/18 13:40	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.041	ug/L	0.097	0.041	1	12/14/18 14:20	12/18/18 13:40	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.034	ug/L	0.097	0.034	1	12/14/18 14:20	12/18/18 13:40	11096-82-5	L1
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	71	%	30-125		1	12/14/18 14:20	12/18/18 13:40	877-09-8	
Decachlorobiphenyl (S)	107	%	30-125		1	12/14/18 14:20	12/18/18 13:40	2051-24-3	
<b>NWTPH-Dx GCS LV</b>									
Analytical Method: NWTPH-Dx      Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<0.054	mg/L	0.38	0.054	1	12/12/18 16:43	12/16/18 19:09	68334-30-5	
Motor Oil Range	<0.18	mg/L	0.38	0.18	1	12/12/18 16:43	12/16/18 19:09		
<b>Surrogates</b>									
o-Terphenyl (S)	80	%	50-150		1	12/12/18 16:43	12/16/18 19:09	84-15-1	
n-Triacontane (S)	84	%	50-150		1	12/12/18 16:43	12/16/18 19:09	638-68-6	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 20:44		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	64	%	50-150		1		12/18/18 20:44	98-08-8	
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
Phenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	108-95-2	
bis(2-Chloroethyl) ether	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	111-44-4	
2-Chlorophenol	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 22:06	95-57-8	
1,3-Dichlorobenzene	<0.66	ug/L	9.5	0.66	1	12/13/18 15:37	12/20/18 22:06	541-73-1	
1,4-Dichlorobenzene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 22:06	106-46-7	
1,2-Dichlorobenzene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 22:06	95-50-1	
2-Methylphenol(o-Cresol)	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 22:06	95-48-7	
bis(2-Chloroisopropyl) ether	<1.8	ug/L	9.5	1.8	1	12/13/18 15:37	12/20/18 22:06	108-60-1	
3&4-Methylphenol(m&p Cresol)	<1.7	ug/L	19.0	1.7	1	12/13/18 15:37	12/20/18 22:06		
N-Nitroso-di-n-propylamine	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	621-64-7	
Hexachloroethane	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	67-72-1	
Nitrobenzene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 22:06	98-95-3	
Isophorone	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 22:06	78-59-1	
2-Nitrophenol	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 22:06	88-75-5	
2,4-Dimethylphenol	<2.0	ug/L	9.5	2.0	1	12/13/18 15:37	12/20/18 22:06	105-67-9	
bis(2-Chloroethoxy)methane	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 22:06	111-91-1	
2,4-Dichlorophenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	120-83-2	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Sample: **MW-1:120618** Lab ID: **10458136001** Collected: 12/06/18 10:40 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D Preparation Method: EPA 3520									
1,2,4-Trichlorobenzene	<0.76	ug/L	9.5	0.76	1	12/13/18 15:37	12/20/18 22:06	120-82-1	
Naphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 22:06	91-20-3	
4-Chloroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 22:06	106-47-8	
Hexachloro-1,3-butadiene	<0.64	ug/L	9.5	0.64	1	12/13/18 15:37	12/20/18 22:06	87-68-3	
4-Chloro-3-methylphenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	59-50-7	
2-Methylnaphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 22:06	91-57-6	
2,4,6-Trichlorophenol	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	88-06-2	
2,4,5-Trichlorophenol	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 22:06	95-95-4	
2-Chloronaphthalene	<0.93	ug/L	9.5	0.93	1	12/13/18 15:37	12/20/18 22:06	91-58-7	
2-Nitroaniline	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 22:06	88-74-4	
Dimethylphthalate	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	131-11-3	
Acenaphthylene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	208-96-8	
2,6-Dinitrotoluene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	606-20-2	
3-Nitroaniline	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 22:06	99-09-2	
Acenaphthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	83-32-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	12/13/18 15:37	12/20/18 22:06	51-28-5	
4-Nitrophenol	<3.9	ug/L	9.5	3.9	1	12/13/18 15:37	12/20/18 22:06	100-02-7	
Dibenzofuran	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 22:06	132-64-9	
2,4-Dinitrotoluene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 22:06	121-14-2	
Diethylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 22:06	84-66-2	
4-Chlorophenylphenyl ether	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 22:06	7005-72-3	
Fluorene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	86-73-7	
4-Nitroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 22:06	100-01-6	
4,6-Dinitro-2-methylphenol	<2.8	ug/L	9.5	2.8	1	12/13/18 15:37	12/20/18 22:06	534-52-1	
N-Nitrosodiphenylamine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 22:06	86-30-6	
4-Bromophenylphenyl ether	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 22:06	101-55-3	
Hexachlorobenzene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	118-74-1	
Pentachlorophenol	<2.8	ug/L	19.0	2.8	1	12/13/18 15:37	12/20/18 22:06	87-86-5	
Phenanthrene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	85-01-8	
Anthracene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 22:06	120-12-7	
Di-n-butylphthalate	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 22:06	84-74-2	
Fluoranthene	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 22:06	206-44-0	
Pyrene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 22:06	129-00-0	
Butylbenzylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 22:06	85-68-7	
3,3'-Dichlorobenzidine	<2.0	ug/L	47.4	2.0	1	12/13/18 15:37	12/20/18 22:06	91-94-1	
Benzo(a)anthracene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 22:06	56-55-3	
Chrysene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 22:06	218-01-9	
bis(2-Ethylhexyl)phthalate	<4.1	ug/L	9.5	4.1	1	12/13/18 15:37	12/20/18 22:06	117-81-7	
Di-n-octylphthalate	<1.9	ug/L	9.5	1.9	1	12/13/18 15:37	12/20/18 22:06	117-84-0	
Benzo(b)fluoranthene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 22:06	205-99-2	
Benzo(k)fluoranthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	207-08-9	
Benzo(a)pyrene	<0.82	ug/L	9.5	0.82	1	12/13/18 15:37	12/20/18 22:06	50-32-8	
Indeno(1,2,3-cd)pyrene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 22:06	193-39-5	
Dibenz(a,h)anthracene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 22:06	53-70-3	
Benzo(g,h,i)perylene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 22:06	191-24-2	
N-Nitrosodimethylamine	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 22:06	62-75-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-1:120618**      **Lab ID: 10458136001**      Collected: 12/06/18 10:40      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
1,2-Diphenylhydrazine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 22:06	122-66-7	
Carbazole	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 22:06	86-74-8	
1-Methylnaphthalene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 22:06	90-12-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	62	%	60-125		1	12/13/18 15:37	12/20/18 22:06	4165-60-0	
2-Fluorobiphenyl (S)	52	%	56-125		1	12/13/18 15:37	12/20/18 22:06	321-60-8	S0
p-Terphenyl-d14 (S)	79	%	58-125		1	12/13/18 15:37	12/20/18 22:06	1718-51-0	
Phenol-d6 (S)	59	%	58-125		1	12/13/18 15:37	12/20/18 22:06	13127-88-3	
2-Fluorophenol (S)	55	%	55-125		1	12/13/18 15:37	12/20/18 22:06	367-12-4	
2,4,6-Tribromophenol (S)	71	%	65-125		1	12/13/18 15:37	12/20/18 22:06	118-79-6	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/12/18 14:43	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/12/18 14:43	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/12/18 14:43	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/12/18 14:43	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/12/18 14:43	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/12/18 14:43	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/12/18 14:43	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/12/18 14:43	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/12/18 14:43	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/12/18 14:43	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/12/18 14:43	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/12/18 14:43	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/12/18 14:43	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/12/18 14:43	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/12/18 14:43	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/12/18 14:43	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/12/18 14:43	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/12/18 14:43	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/12/18 14:43	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/12/18 14:43	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/12/18 14:43	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/12/18 14:43	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/12/18 14:43	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/12/18 14:43	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/12/18 14:43	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/12/18 14:43	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/12/18 14:43	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/12/18 14:43	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/12/18 14:43	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/12/18 14:43	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/12/18 14:43	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/12/18 14:43	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/12/18 14:43	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/12/18 14:43	74-83-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Sample: MW-1:120618 Lab ID: 10458136001 Collected: 12/06/18 10:40 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>									
Analytical Method: EPA 8260B									
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/12/18 14:43	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/12/18 14:43	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/12/18 14:43	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/12/18 14:43	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/12/18 14:43	74-87-3	R1
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/12/18 14:43	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/12/18 14:43	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/12/18 14:43	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/12/18 14:43	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/12/18 14:43	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/12/18 14:43	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/12/18 14:43	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/12/18 14:43	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/12/18 14:43	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/12/18 14:43	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/12/18 14:43	100-42-5	
Tetrachloroethene	0.36J	ug/L	1.0	0.17	1		12/12/18 14:43	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/12/18 14:43	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/12/18 14:43	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/12/18 14:43	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/12/18 14:43	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/12/18 14:43	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/12/18 14:43	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/12/18 14:43	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/12/18 14:43	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/12/18 14:43	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/12/18 14:43	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/12/18 14:43	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/12/18 14:43	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/12/18 14:43	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/12/18 14:43	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/12/18 14:43	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		12/12/18 14:43	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		12/12/18 14:43	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		12/12/18 14:43	460-00-4	

Sample: MW-2:120618 Lab ID: 10458136002 Collected: 12/06/18 12:20 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	<0.0045	ug/L	0.0098	0.0045	1	02/25/19 14:34	02/26/19 00:19	106-93-4	H1,H2

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Project No.: 10458136

Sample: **MW-2:120618** Lab ID: **10458136002** Collected: 12/06/18 12:20 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%.	75-125		1	02/25/19 14:34	02/26/19 00:19	460-00-4	P4
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA Mod. 3510C									
PCB-1016 (Aroclor 1016)	<0.040	ug/L	0.096	0.040	1	12/14/18 14:20	12/18/18 13:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.041	ug/L	0.096	0.041	1	12/14/18 14:20	12/18/18 13:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.035	ug/L	0.096	0.035	1	12/14/18 14:20	12/18/18 13:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.036	ug/L	0.096	0.036	1	12/14/18 14:20	12/18/18 13:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.039	ug/L	0.096	0.039	1	12/14/18 14:20	12/18/18 13:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.041	ug/L	0.096	0.041	1	12/14/18 14:20	12/18/18 13:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.034	ug/L	0.096	0.034	1	12/14/18 14:20	12/18/18 13:56	11096-82-5	L1
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	102	%.	30-125		1	12/14/18 14:20	12/18/18 13:56	877-09-8	
Decachlorobiphenyl (S)	108	%.	30-125		1	12/14/18 14:20	12/18/18 13:56	2051-24-3	
<b>NWTPH-Dx GCS LV</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<0.054	mg/L	0.38	0.054	1	12/12/18 16:43	12/16/18 18:37	68334-30-5	
Motor Oil Range	<0.18	mg/L	0.38	0.18	1	12/12/18 16:43	12/16/18 18:37		
<b>Surrogates</b>									
o-Terphenyl (S)	80	%.	50-150		1	12/12/18 16:43	12/16/18 18:37	84-15-1	
n-Triacontane (S)	80	%.	50-150		1	12/12/18 16:43	12/16/18 18:37	638-68-6	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 22:59		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	59	%.	50-150		1		12/18/18 22:59	98-08-8	
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3520									
Phenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	108-95-2	
bis(2-Chloroethyl) ether	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	111-44-4	
2-Chlorophenol	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 18:54	95-57-8	
1,3-Dichlorobenzene	<0.66	ug/L	9.5	0.66	1	12/13/18 15:37	12/20/18 18:54	541-73-1	
1,4-Dichlorobenzene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 18:54	106-46-7	
1,2-Dichlorobenzene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 18:54	95-50-1	
2-Methylphenol(o-Cresol)	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 18:54	95-48-7	
bis(2-Chloroisopropyl) ether	<1.8	ug/L	9.5	1.8	1	12/13/18 15:37	12/20/18 18:54	108-60-1	
3&4-Methylphenol(m&p Cresol)	<1.7	ug/L	19.0	1.7	1	12/13/18 15:37	12/20/18 18:54		
N-Nitroso-di-n-propylamine	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	621-64-7	
Hexachloroethane	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	67-72-1	
Nitrobenzene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 18:54	98-95-3	
Isophorone	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 18:54	78-59-1	
2-Nitrophenol	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 18:54	88-75-5	
2,4-Dimethylphenol	<2.0	ug/L	9.5	2.0	1	12/13/18 15:37	12/20/18 18:54	105-67-9	
bis(2-Chloroethoxy)methane	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 18:54	111-91-1	
2,4-Dichlorophenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	120-83-2	
1,2,4-Trichlorobenzene	<0.76	ug/L	9.5	0.76	1	12/13/18 15:37	12/20/18 18:54	120-82-1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-2:120618**      **Lab ID: 10458136002**      Collected: 12/06/18 12:20      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
Naphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 18:54	91-20-3	
4-Chloroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 18:54	106-47-8	
Hexachloro-1,3-butadiene	<0.64	ug/L	9.5	0.64	1	12/13/18 15:37	12/20/18 18:54	87-68-3	
4-Chloro-3-methylphenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	59-50-7	
2-Methylnaphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 18:54	91-57-6	
2,4,6-Trichlorophenol	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	88-06-2	
2,4,5-Trichlorophenol	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 18:54	95-95-4	
2-Chloronaphthalene	<0.93	ug/L	9.5	0.93	1	12/13/18 15:37	12/20/18 18:54	91-58-7	
2-Nitroaniline	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 18:54	88-74-4	
Dimethylphthalate	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	131-11-3	
Acenaphthylene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	208-96-8	
2,6-Dinitrotoluene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	606-20-2	
3-Nitroaniline	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 18:54	99-09-2	
Acenaphthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	83-32-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	12/13/18 15:37	12/20/18 18:54	51-28-5	
4-Nitrophenol	<3.9	ug/L	9.5	3.9	1	12/13/18 15:37	12/20/18 18:54	100-02-7	
Dibenzofuran	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 18:54	132-64-9	
2,4-Dinitrotoluene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 18:54	121-14-2	
Diethylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 18:54	84-66-2	
4-Chlorophenylphenyl ether	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 18:54	7005-72-3	
Fluorene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	86-73-7	
4-Nitroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 18:54	100-01-6	
4,6-Dinitro-2-methylphenol	<2.8	ug/L	9.5	2.8	1	12/13/18 15:37	12/20/18 18:54	534-52-1	
N-Nitrosodiphenylamine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 18:54	86-30-6	
4-Bromophenylphenyl ether	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 18:54	101-55-3	
Hexachlorobenzene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	118-74-1	
Pentachlorophenol	<2.8	ug/L	19.0	2.8	1	12/13/18 15:37	12/20/18 18:54	87-86-5	
Phenanthrene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	85-01-8	
Anthracene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 18:54	120-12-7	
Di-n-butylphthalate	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 18:54	84-74-2	
Fluoranthene	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 18:54	206-44-0	
Pyrene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 18:54	129-00-0	
Butylbenzylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 18:54	85-68-7	
3,3'-Dichlorobenzidine	<2.0	ug/L	47.4	2.0	1	12/13/18 15:37	12/20/18 18:54	91-94-1	
Benzo(a)anthracene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 18:54	56-55-3	
Chrysene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 18:54	218-01-9	
bis(2-Ethylhexyl)phthalate	<4.1	ug/L	9.5	4.1	1	12/13/18 15:37	12/20/18 18:54	117-81-7	
Di-n-octylphthalate	<1.9	ug/L	9.5	1.9	1	12/13/18 15:37	12/20/18 18:54	117-84-0	
Benzo(b)fluoranthene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 18:54	205-99-2	
Benzo(k)fluoranthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	207-08-9	
Benzo(a)pyrene	<0.82	ug/L	9.5	0.82	1	12/13/18 15:37	12/20/18 18:54	50-32-8	
Indeno(1,2,3-cd)pyrene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 18:54	193-39-5	
Dibenz(a,h)anthracene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 18:54	53-70-3	
Benzo(g,h,i)perylene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 18:54	191-24-2	
N-Nitrosodimethylamine	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 18:54	62-75-9	
1,2-Diphenylhydrazine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 18:54	122-66-7	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-2:120618**      **Lab ID: 10458136002**      Collected: 12/06/18 12:20      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
Carbazole	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 18:54	86-74-8	
1-Methylnaphthalene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 18:54	90-12-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	61	%	60-125		1	12/13/18 15:37	12/20/18 18:54	4165-60-0	
2-Fluorobiphenyl (S)	49	%	56-125		1	12/13/18 15:37	12/20/18 18:54	321-60-8	S0
p-Terphenyl-d14 (S)	81	%	58-125		1	12/13/18 15:37	12/20/18 18:54	1718-51-0	
Phenol-d6 (S)	60	%	58-125		1	12/13/18 15:37	12/20/18 18:54	13127-88-3	
2-Fluorophenol (S)	65	%	55-125		1	12/13/18 15:37	12/20/18 18:54	367-12-4	
2,4,6-Tribromophenol (S)	80	%	65-125		1	12/13/18 15:37	12/20/18 18:54	118-79-6	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 17:22	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 17:22	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 17:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 17:22	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:22	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:22	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 17:22	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 17:22	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:22	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:22	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 17:22	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 17:22	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 17:22	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 17:22	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 17:22	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 17:22	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:22	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 17:22	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 17:22	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:22	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 17:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 17:22	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 17:22	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 17:22	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 17:22	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 17:22	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 17:22	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 17:22	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 17:22	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 17:22	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 17:22	56-23-5	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Sample: MW-2:120618 Lab ID: 10458136002 Collected: 12/06/18 12:20 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>									
Analytical Method: EPA 8260B									
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 17:22	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 17:22	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 17:22	74-87-3	
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 17:22	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 17:22	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 17:22	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 17:22	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 17:22	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 17:22	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 17:22	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 17:22	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 17:22	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 17:22	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 17:22	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:22	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 17:22	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 17:22	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 17:22	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 17:22	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 17:22	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 17:22	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:22	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 17:22	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 17:22	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 17:22	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:22	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:22	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:22	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 17:22	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 17:22	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		12/14/18 17:22	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1		12/14/18 17:22	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		12/14/18 17:22	460-00-4	

Sample: MW-3:120618 Lab ID: 10458136003 Collected: 12/06/18 13:50 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	<0.0045	ug/L	0.0098	0.0045	1	02/25/19 14:34	02/26/19 00:45	106-93-4	H1,H2
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	75-125		1	02/25/19 14:34	02/26/19 00:45	460-00-4	P4

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-3:120618**      **Lab ID: 10458136003**      Collected: 12/06/18 13:50      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A    Preparation Method: EPA Mod. 3510C									
PCB-1016 (Aroclor 1016)	<0.040	ug/L	0.096	0.040	1	12/14/18 14:20	12/18/18 14:12	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.041	ug/L	0.096	0.041	1	12/14/18 14:20	12/18/18 14:12	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.035	ug/L	0.096	0.035	1	12/14/18 14:20	12/18/18 14:12	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.036	ug/L	0.096	0.036	1	12/14/18 14:20	12/18/18 14:12	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.039	ug/L	0.096	0.039	1	12/14/18 14:20	12/18/18 14:12	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.041	ug/L	0.096	0.041	1	12/14/18 14:20	12/18/18 14:12	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.034	ug/L	0.096	0.034	1	12/14/18 14:20	12/18/18 14:12	11096-82-5	L1
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	109	%	30-125		1	12/14/18 14:20	12/18/18 14:12	877-09-8	
Decachlorobiphenyl (S)	118	%	30-125		1	12/14/18 14:20	12/18/18 14:12	2051-24-3	
<b>NWTPH-Dx GCS LV</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<0.056	mg/L	0.40	0.056	1	12/12/18 16:43	12/16/18 18:15	68334-30-5	
Motor Oil Range	<0.18	mg/L	0.40	0.18	1	12/12/18 16:43	12/16/18 18:15		
<b>Surrogates</b>									
o-Terphenyl (S)	87	%	50-150		1	12/12/18 16:43	12/16/18 18:15	84-15-1	
n-Triacontane (S)	82	%	50-150		1	12/12/18 16:43	12/16/18 18:15	638-68-6	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 21:01		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	68	%	50-150		1		12/18/18 21:01	98-08-8	
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D    Preparation Method: EPA 3520									
Phenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	108-95-2	
bis(2-Chloroethyl) ether	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	111-44-4	
2-Chlorophenol	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:18	95-57-8	
1,3-Dichlorobenzene	<0.66	ug/L	9.5	0.66	1	12/13/18 15:37	12/20/18 19:18	541-73-1	
1,4-Dichlorobenzene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:18	106-46-7	
1,2-Dichlorobenzene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 19:18	95-50-1	
2-Methylphenol(o-Cresol)	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:18	95-48-7	
bis(2-Chloroisopropyl) ether	<1.8	ug/L	9.5	1.8	1	12/13/18 15:37	12/20/18 19:18	108-60-1	
3&4-Methylphenol(m&p Cresol)	<1.7	ug/L	19.0	1.7	1	12/13/18 15:37	12/20/18 19:18		
N-Nitroso-di-n-propylamine	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	621-64-7	
Hexachloroethane	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	67-72-1	
Nitrobenzene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:18	98-95-3	
Isophorone	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:18	78-59-1	
2-Nitrophenol	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:18	88-75-5	
2,4-Dimethylphenol	<2.0	ug/L	9.5	2.0	1	12/13/18 15:37	12/20/18 19:18	105-67-9	
bis(2-Chloroethoxy)methane	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:18	111-91-1	
2,4-Dichlorophenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	120-83-2	
1,2,4-Trichlorobenzene	<0.76	ug/L	9.5	0.76	1	12/13/18 15:37	12/20/18 19:18	120-82-1	
Naphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:18	91-20-3	
4-Chloroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:18	106-47-8	
Hexachloro-1,3-butadiene	<0.64	ug/L	9.5	0.64	1	12/13/18 15:37	12/20/18 19:18	87-68-3	
4-Chloro-3-methylphenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	59-50-7	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Sample Project No.: 10458136

**Sample: MW-3:120618**      **Lab ID: 10458136003**      Collected: 12/06/18 13:50      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
2-Methylnaphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:18	91-57-6	
2,4,6-Trichlorophenol	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	88-06-2	
2,4,5-Trichlorophenol	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:18	95-95-4	
2-Chloronaphthalene	<0.93	ug/L	9.5	0.93	1	12/13/18 15:37	12/20/18 19:18	91-58-7	
2-Nitroaniline	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:18	88-74-4	
Dimethylphthalate	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	131-11-3	
Acenaphthylene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	208-96-8	
2,6-Dinitrotoluene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	606-20-2	
3-Nitroaniline	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 19:18	99-09-2	
Acenaphthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	83-32-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	12/13/18 15:37	12/20/18 19:18	51-28-5	
4-Nitrophenol	<3.9	ug/L	9.5	3.9	1	12/13/18 15:37	12/20/18 19:18	100-02-7	
Dibenzofuran	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:18	132-64-9	
2,4-Dinitrotoluene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:18	121-14-2	
Diethylphthalate	2.3J	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:18	84-66-2	
4-Chlorophenylphenyl ether	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:18	7005-72-3	
Fluorene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	86-73-7	
4-Nitroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:18	100-01-6	
4,6-Dinitro-2-methylphenol	<2.8	ug/L	9.5	2.8	1	12/13/18 15:37	12/20/18 19:18	534-52-1	
N-Nitrosodiphenylamine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:18	86-30-6	
4-Bromophenylphenyl ether	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:18	101-55-3	
Hexachlorobenzene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	118-74-1	
Pentachlorophenol	<2.8	ug/L	19.0	2.8	1	12/13/18 15:37	12/20/18 19:18	87-86-5	
Phenanthrene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	85-01-8	
Anthracene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:18	120-12-7	
Di-n-butylphthalate	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 19:18	84-74-2	
Fluoranthene	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:18	206-44-0	
Pyrene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 19:18	129-00-0	
Butylbenzylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:18	85-68-7	
3,3'-Dichlorobenzidine	<2.0	ug/L	47.4	2.0	1	12/13/18 15:37	12/20/18 19:18	91-94-1	
Benzo(a)anthracene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:18	56-55-3	
Chrysene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 19:18	218-01-9	
bis(2-Ethylhexyl)phthalate	6.7J	ug/L	9.5	4.1	1	12/13/18 15:37	12/20/18 19:18	117-81-7	
Di-n-octylphthalate	<1.9	ug/L	9.5	1.9	1	12/13/18 15:37	12/20/18 19:18	117-84-0	
Benzo(b)fluoranthene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 19:18	205-99-2	
Benzo(k)fluoranthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	207-08-9	
Benzo(a)pyrene	<0.82	ug/L	9.5	0.82	1	12/13/18 15:37	12/20/18 19:18	50-32-8	
Indeno(1,2,3-cd)pyrene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:18	193-39-5	
Dibenz(a,h)anthracene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:18	53-70-3	
Benzo(g,h,i)perylene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:18	191-24-2	
N-Nitrosodimethylamine	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:18	62-75-9	
1,2-Diphenylhydrazine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:18	122-66-7	
Carbazole	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:18	86-74-8	
1-Methylnaphthalene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:18	90-12-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	64	%	60-125		1	12/13/18 15:37	12/20/18 19:18	4165-60-0	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-3:120618**      **Lab ID: 10458136003**      Collected: 12/06/18 13:50      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**8270D MSSV**      Analytical Method: EPA 8270D      Preparation Method: EPA 3520

**Surrogates**

2-Fluorobiphenyl (S)	52	%	56-125		1	12/13/18 15:37	12/20/18 19:18	321-60-8	S0
p-Terphenyl-d14 (S)	80	%	58-125		1	12/13/18 15:37	12/20/18 19:18	1718-51-0	
Phenol-d6 (S)	62	%	58-125		1	12/13/18 15:37	12/20/18 19:18	13127-88-3	
2-Fluorophenol (S)	66	%	55-125		1	12/13/18 15:37	12/20/18 19:18	367-12-4	
2,4,6-Tribromophenol (S)	82	%	65-125		1	12/13/18 15:37	12/20/18 19:18	118-79-6	

**8260B MSV**      Analytical Method: EPA 8260B

1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 15:22	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 15:22	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 15:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 15:22	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 15:22	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 15:22	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 15:22	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 15:22	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 15:22	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 15:22	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 15:22	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 15:22	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 15:22	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 15:22	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 15:22	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 15:22	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 15:22	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 15:22	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 15:22	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 15:22	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 15:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 15:22	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 15:22	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 15:22	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 15:22	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 15:22	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 15:22	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 15:22	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 15:22	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 15:22	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 15:22	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 15:22	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 15:22	67-66-3	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Sample: MW-3:120618 Lab ID: 10458136003 Collected: 12/06/18 13:50 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b> Analytical Method: EPA 8260B									
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 15:22	74-87-3	R1
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 15:22	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 15:22	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 15:22	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 15:22	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 15:22	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 15:22	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 15:22	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 15:22	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 15:22	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 15:22	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 15:22	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 15:22	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 15:22	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 15:22	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 15:22	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 15:22	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 15:22	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 15:22	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 15:22	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 15:22	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 15:22	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 15:22	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 15:22	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 15:22	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 15:22	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 15:22	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 15:22	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		12/14/18 15:22	17060-07-0	
Toluene-d8 (S)	107	%	75-125		1		12/14/18 15:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		12/14/18 15:22	460-00-4	

Sample: MW-4:120618 Lab ID: 10458136004 Collected: 12/06/18 15:45 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	<0.0045	ug/L	0.0099	0.0045	1	02/25/19 14:34	02/26/19 01:11	106-93-4	H1,H2
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	75-125		1	02/25/19 14:34	02/26/19 01:11	460-00-4	P4
<b>8082A GCS PCB</b> Analytical Method: EPA 8082A Preparation Method: EPA Mod. 3510C									
PCB-1016 (Aroclor 1016)	<0.041	ug/L	0.098	0.041	1	12/14/18 14:20	12/18/18 14:28	12674-11-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-4:120618**      **Lab ID: 10458136004**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA Mod. 3510C									
PCB-1221 (Aroclor 1221)	<0.042	ug/L	0.098	0.042	1	12/14/18 14:20	12/18/18 14:28	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.036	ug/L	0.098	0.036	1	12/14/18 14:20	12/18/18 14:28	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.037	ug/L	0.098	0.037	1	12/14/18 14:20	12/18/18 14:28	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.040	ug/L	0.098	0.040	1	12/14/18 14:20	12/18/18 14:28	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.041	ug/L	0.098	0.041	1	12/14/18 14:20	12/18/18 14:28	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.035	ug/L	0.098	0.035	1	12/14/18 14:20	12/18/18 14:28	11096-82-5	L1
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	77	%	30-125		1	12/14/18 14:20	12/18/18 14:28	877-09-8	
Decachlorobiphenyl (S)	103	%	30-125		1	12/14/18 14:20	12/18/18 14:28	2051-24-3	
<b>NWTPH-Dx GCS LV</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<0.056	mg/L	0.40	0.056	1	12/12/18 16:43	12/16/18 18:58	68334-30-5	
Motor Oil Range	<0.18	mg/L	0.40	0.18	1	12/12/18 16:43	12/16/18 18:58		
<b>Surrogates</b>									
o-Terphenyl (S)	85	%	50-150		1	12/12/18 16:43	12/16/18 18:58	84-15-1	
n-Triacontane (S)	84	%	50-150		1	12/12/18 16:43	12/16/18 18:58	638-68-6	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 23:50		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	69	%	50-150		1		12/18/18 23:50	98-08-8	
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3520									
Phenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	108-95-2	
bis(2-Chloroethyl) ether	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	111-44-4	
2-Chlorophenol	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:43	95-57-8	
1,3-Dichlorobenzene	<0.66	ug/L	9.5	0.66	1	12/13/18 15:37	12/20/18 19:43	541-73-1	
1,4-Dichlorobenzene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:43	106-46-7	
1,2-Dichlorobenzene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 19:43	95-50-1	
2-Methylphenol(o-Cresol)	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:43	95-48-7	
bis(2-Chloroisopropyl) ether	<1.8	ug/L	9.5	1.8	1	12/13/18 15:37	12/20/18 19:43	108-60-1	
3&4-Methylphenol(m&p Cresol)	<1.7	ug/L	19.0	1.7	1	12/13/18 15:37	12/20/18 19:43		
N-Nitroso-di-n-propylamine	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	621-64-7	
Hexachloroethane	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	67-72-1	
Nitrobenzene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:43	98-95-3	
Isophorone	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:43	78-59-1	
2-Nitrophenol	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:43	88-75-5	
2,4-Dimethylphenol	<2.0	ug/L	9.5	2.0	1	12/13/18 15:37	12/20/18 19:43	105-67-9	
bis(2-Chloroethoxy)methane	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:43	111-91-1	
2,4-Dichlorophenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	120-83-2	
1,2,4-Trichlorobenzene	<0.76	ug/L	9.5	0.76	1	12/13/18 15:37	12/20/18 19:43	120-82-1	
Naphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:43	91-20-3	
4-Chloroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:43	106-47-8	
Hexachloro-1,3-butadiene	<0.64	ug/L	9.5	0.64	1	12/13/18 15:37	12/20/18 19:43	87-68-3	
4-Chloro-3-methylphenol	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	59-50-7	
2-Methylnaphthalene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:43	91-57-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-4:120618**      **Lab ID: 10458136004**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
2,4,6-Trichlorophenol	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	88-06-2	
2,4,5-Trichlorophenol	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:43	95-95-4	
2-Chloronaphthalene	<0.93	ug/L	9.5	0.93	1	12/13/18 15:37	12/20/18 19:43	91-58-7	
2-Nitroaniline	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:43	88-74-4	
Dimethylphthalate	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	131-11-3	
Acenaphthylene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	208-96-8	
2,6-Dinitrotoluene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	606-20-2	
3-Nitroaniline	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 19:43	99-09-2	
Acenaphthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	83-32-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	12/13/18 15:37	12/20/18 19:43	51-28-5	
4-Nitrophenol	<3.9	ug/L	9.5	3.9	1	12/13/18 15:37	12/20/18 19:43	100-02-7	
Dibenzofuran	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:43	132-64-9	
2,4-Dinitrotoluene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:43	121-14-2	
Diethylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:43	84-66-2	
4-Chlorophenylphenyl ether	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:43	7005-72-3	
Fluorene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	86-73-7	
4-Nitroaniline	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:43	100-01-6	
4,6-Dinitro-2-methylphenol	<2.8	ug/L	9.5	2.8	1	12/13/18 15:37	12/20/18 19:43	534-52-1	
N-Nitrosodiphenylamine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:43	86-30-6	
4-Bromophenylphenyl ether	<1.3	ug/L	9.5	1.3	1	12/13/18 15:37	12/20/18 19:43	101-55-3	
Hexachlorobenzene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	118-74-1	
Pentachlorophenol	<2.8	ug/L	19.0	2.8	1	12/13/18 15:37	12/20/18 19:43	87-86-5	
Phenanthrene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	85-01-8	
Anthracene	<1.5	ug/L	9.5	1.5	1	12/13/18 15:37	12/20/18 19:43	120-12-7	
Di-n-butylphthalate	<2.9	ug/L	9.5	2.9	1	12/13/18 15:37	12/20/18 19:43	84-74-2	
Fluoranthene	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:43	206-44-0	
Pyrene	<0.91	ug/L	9.5	0.91	1	12/13/18 15:37	12/20/18 19:43	129-00-0	
Butylbenzylphthalate	<1.6	ug/L	9.5	1.6	1	12/13/18 15:37	12/20/18 19:43	85-68-7	
3,3'-Dichlorobenzidine	<2.0	ug/L	47.4	2.0	1	12/13/18 15:37	12/20/18 19:43	91-94-1	
Benzo(a)anthracene	<0.92	ug/L	9.5	0.92	1	12/13/18 15:37	12/20/18 19:43	56-55-3	
Chrysene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 19:43	218-01-9	
bis(2-Ethylhexyl)phthalate	<4.1	ug/L	9.5	4.1	1	12/13/18 15:37	12/20/18 19:43	117-81-7	
Di-n-octylphthalate	<1.9	ug/L	9.5	1.9	1	12/13/18 15:37	12/20/18 19:43	117-84-0	
Benzo(b)fluoranthene	<0.94	ug/L	9.5	0.94	1	12/13/18 15:37	12/20/18 19:43	205-99-2	
Benzo(k)fluoranthene	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	207-08-9	
Benzo(a)pyrene	<0.82	ug/L	9.5	0.82	1	12/13/18 15:37	12/20/18 19:43	50-32-8	
Indeno(1,2,3-cd)pyrene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:43	193-39-5	
Dibenz(a,h)anthracene	<1.2	ug/L	9.5	1.2	1	12/13/18 15:37	12/20/18 19:43	53-70-3	
Benzo(g,h,i)perylene	<1.1	ug/L	9.5	1.1	1	12/13/18 15:37	12/20/18 19:43	191-24-2	
N-Nitrosodimethylamine	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:43	62-75-9	
1,2-Diphenylhydrazine	<1.7	ug/L	9.5	1.7	1	12/13/18 15:37	12/20/18 19:43	122-66-7	
Carbazole	<1.4	ug/L	9.5	1.4	1	12/13/18 15:37	12/20/18 19:43	86-74-8	
1-Methylnaphthalene	<1.0	ug/L	9.5	1.0	1	12/13/18 15:37	12/20/18 19:43	90-12-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	60	%	60-125		1	12/13/18 15:37	12/20/18 19:43	4165-60-0	
2-Fluorobiphenyl (S)	50	%	56-125		1	12/13/18 15:37	12/20/18 19:43	321-60-8	S0

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-4:120618**      **Lab ID: 10458136004**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
<b>Surrogates</b>									
p-Terphenyl-d14 (S)	79	%	58-125		1	12/13/18 15:37	12/20/18 19:43	1718-51-0	
Phenol-d6 (S)	61	%	58-125		1	12/13/18 15:37	12/20/18 19:43	13127-88-3	
2-Fluorophenol (S)	65	%	55-125		1	12/13/18 15:37	12/20/18 19:43	367-12-4	
2,4,6-Tribromophenol (S)	81	%	65-125		1	12/13/18 15:37	12/20/18 19:43	118-79-6	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 17:46	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 17:46	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 17:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 17:46	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:46	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:46	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 17:46	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 17:46	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:46	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 17:46	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 17:46	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 17:46	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 17:46	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 17:46	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 17:46	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 17:46	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:46	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 17:46	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 17:46	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 17:46	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 17:46	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 17:46	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 17:46	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 17:46	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 17:46	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 17:46	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 17:46	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 17:46	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 17:46	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 17:46	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 17:46	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 17:46	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 17:46	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 17:46	74-87-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: MW-4:120618**      **Lab ID: 10458136004**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b> Analytical Method: EPA 8260B									
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 17:46	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 17:46	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 17:46	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 17:46	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 17:46	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 17:46	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 17:46	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 17:46	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 17:46	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 17:46	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 17:46	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 17:46	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 17:46	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 17:46	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 17:46	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 17:46	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 17:46	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 17:46	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:46	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 17:46	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 17:46	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 17:46	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:46	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:46	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 17:46	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 17:46	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 17:46	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		12/14/18 17:46	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1		12/14/18 17:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		12/14/18 17:46	460-00-4	

**Sample: Dup:120618**      **Lab ID: 10458136005**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	<0.0045	ug/L	0.0099	0.0045	1	02/25/19 14:34	02/26/19 01:36	106-93-4	H1,H2
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	75-125		1	02/25/19 14:34	02/26/19 01:36	460-00-4	P4
<b>8082A GCS PCB</b> Analytical Method: EPA 8082A      Preparation Method: EPA Mod. 3510C									
PCB-1016 (Aroclor 1016)	<0.041	ug/L	0.097	0.041	1	12/14/18 14:20	12/18/18 14:44	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.042	ug/L	0.097	0.042	1	12/14/18 14:20	12/18/18 14:44	11104-28-2	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Dup:120618**      **Lab ID: 10458136005**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082A GCS PCB</b>									
Analytical Method: EPA 8082A Preparation Method: EPA Mod. 3510C									
PCB-1232 (Aroclor 1232)	<0.035	ug/L	0.097	0.035	1	12/14/18 14:20	12/18/18 14:44	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.036	ug/L	0.097	0.036	1	12/14/18 14:20	12/18/18 14:44	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.039	ug/L	0.097	0.039	1	12/14/18 14:20	12/18/18 14:44	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.041	ug/L	0.097	0.041	1	12/14/18 14:20	12/18/18 14:44	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.034	ug/L	0.097	0.034	1	12/14/18 14:20	12/18/18 14:44	11096-82-5	L1
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	71	%	30-125		1	12/14/18 14:20	12/18/18 14:44	877-09-8	
Decachlorobiphenyl (S)	100	%	30-125		1	12/14/18 14:20	12/18/18 14:44	2051-24-3	
<b>NWTPH-Dx GCS LV</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA Mod. 3510C									
Diesel Fuel Range	<0.056	mg/L	0.40	0.056	1	12/12/18 16:43	12/16/18 18:47	68334-30-5	
Motor Oil Range	<0.18	mg/L	0.40	0.18	1	12/12/18 16:43	12/16/18 18:47		
<b>Surrogates</b>									
o-Terphenyl (S)	90	%	50-150		1	12/12/18 16:43	12/16/18 18:47	84-15-1	
n-Triacontane (S)	90	%	50-150		1	12/12/18 16:43	12/16/18 18:47	638-68-6	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 23:33		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	73	%	50-150		1		12/18/18 23:33	98-08-8	
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3520									
Phenol	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	108-95-2	
bis(2-Chloroethyl) ether	<1.5	ug/L	9.7	1.5	1	12/13/18 15:37	12/20/18 20:08	111-44-4	
2-Chlorophenol	<1.3	ug/L	9.7	1.3	1	12/13/18 15:37	12/20/18 20:08	95-57-8	
1,3-Dichlorobenzene	<0.67	ug/L	9.7	0.67	1	12/13/18 15:37	12/20/18 20:08	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	9.7	0.95	1	12/13/18 15:37	12/20/18 20:08	106-46-7	
1,2-Dichlorobenzene	<0.93	ug/L	9.7	0.93	1	12/13/18 15:37	12/20/18 20:08	95-50-1	
2-Methylphenol(o-Cresol)	<1.5	ug/L	9.7	1.5	1	12/13/18 15:37	12/20/18 20:08	95-48-7	
bis(2-Chloroisopropyl) ether	<1.9	ug/L	9.7	1.9	1	12/13/18 15:37	12/20/18 20:08	108-60-1	
3&4-Methylphenol(m&p Cresol)	<1.8	ug/L	19.4	1.8	1	12/13/18 15:37	12/20/18 20:08		
N-Nitroso-di-n-propylamine	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	621-64-7	
Hexachloroethane	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	67-72-1	
Nitrobenzene	<1.6	ug/L	9.7	1.6	1	12/13/18 15:37	12/20/18 20:08	98-95-3	
Isophorone	<1.5	ug/L	9.7	1.5	1	12/13/18 15:37	12/20/18 20:08	78-59-1	
2-Nitrophenol	<1.5	ug/L	9.7	1.5	1	12/13/18 15:37	12/20/18 20:08	88-75-5	
2,4-Dimethylphenol	<2.1	ug/L	9.7	2.1	1	12/13/18 15:37	12/20/18 20:08	105-67-9	
bis(2-Chloroethoxy)methane	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	111-91-1	
2,4-Dichlorophenol	<1.3	ug/L	9.7	1.3	1	12/13/18 15:37	12/20/18 20:08	120-83-2	
1,2,4-Trichlorobenzene	<0.78	ug/L	9.7	0.78	1	12/13/18 15:37	12/20/18 20:08	120-82-1	
Naphthalene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	91-20-3	
4-Chloroaniline	<1.8	ug/L	9.7	1.8	1	12/13/18 15:37	12/20/18 20:08	106-47-8	
Hexachloro-1,3-butadiene	<0.66	ug/L	9.7	0.66	1	12/13/18 15:37	12/20/18 20:08	87-68-3	
4-Chloro-3-methylphenol	<1.3	ug/L	9.7	1.3	1	12/13/18 15:37	12/20/18 20:08	59-50-7	
2-Methylnaphthalene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	91-57-6	
2,4,6-Trichlorophenol	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	88-06-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Sample Project No.: 10458136

Sample: Dup:120618 Lab ID: 10458136005 Collected: 12/06/18 15:45 Received: 12/08/18 12:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b>									
Analytical Method: EPA 8270D Preparation Method: EPA 3520									
2,4,5-Trichlorophenol	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	95-95-4	
2-Chloronaphthalene	<0.95	ug/L	9.7	0.95	1	12/13/18 15:37	12/20/18 20:08	91-58-7	
2-Nitroaniline	<1.6	ug/L	9.7	1.6	1	12/13/18 15:37	12/20/18 20:08	88-74-4	
Dimethylphthalate	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	131-11-3	
Acenaphthylene	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	208-96-8	
2,6-Dinitrotoluene	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	606-20-2	
3-Nitroaniline	<2.9	ug/L	9.7	2.9	1	12/13/18 15:37	12/20/18 20:08	99-09-2	
Acenaphthene	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	83-32-9	
2,4-Dinitrophenol	<2.3	ug/L	9.7	2.3	1	12/13/18 15:37	12/20/18 20:08	51-28-5	
4-Nitrophenol	<4.0	ug/L	9.7	4.0	1	12/13/18 15:37	12/20/18 20:08	100-02-7	
Dibenzofuran	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	132-64-9	
2,4-Dinitrotoluene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	121-14-2	
Diethylphthalate	<1.6	ug/L	9.7	1.6	1	12/13/18 15:37	12/20/18 20:08	84-66-2	
4-Chlorophenylphenyl ether	<0.94	ug/L	9.7	0.94	1	12/13/18 15:37	12/20/18 20:08	7005-72-3	
Fluorene	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	86-73-7	
4-Nitroaniline	<1.7	ug/L	9.7	1.7	1	12/13/18 15:37	12/20/18 20:08	100-01-6	
4,6-Dinitro-2-methylphenol	<2.8	ug/L	9.7	2.8	1	12/13/18 15:37	12/20/18 20:08	534-52-1	
N-Nitrosodiphenylamine	<1.7	ug/L	9.7	1.7	1	12/13/18 15:37	12/20/18 20:08	86-30-6	
4-Bromophenylphenyl ether	<1.3	ug/L	9.7	1.3	1	12/13/18 15:37	12/20/18 20:08	101-55-3	
Hexachlorobenzene	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	118-74-1	
Pentachlorophenol	<2.9	ug/L	19.4	2.9	1	12/13/18 15:37	12/20/18 20:08	87-86-5	
Phenanthrene	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	85-01-8	
Anthracene	<1.5	ug/L	9.7	1.5	1	12/13/18 15:37	12/20/18 20:08	120-12-7	
Di-n-butylphthalate	<3.0	ug/L	9.7	3.0	1	12/13/18 15:37	12/20/18 20:08	84-74-2	
Fluoranthene	<1.8	ug/L	9.7	1.8	1	12/13/18 15:37	12/20/18 20:08	206-44-0	
Pyrene	<0.93	ug/L	9.7	0.93	1	12/13/18 15:37	12/20/18 20:08	129-00-0	
Butylbenzylphthalate	<1.6	ug/L	9.7	1.6	1	12/13/18 15:37	12/20/18 20:08	85-68-7	
3,3'-Dichlorobenzidine	<2.0	ug/L	48.5	2.0	1	12/13/18 15:37	12/20/18 20:08	91-94-1	
Benzo(a)anthracene	<0.95	ug/L	9.7	0.95	1	12/13/18 15:37	12/20/18 20:08	56-55-3	
Chrysene	<0.96	ug/L	9.7	0.96	1	12/13/18 15:37	12/20/18 20:08	218-01-9	
bis(2-Ethylhexyl)phthalate	<4.2	ug/L	9.7	4.2	1	12/13/18 15:37	12/20/18 20:08	117-81-7	
Di-n-octylphthalate	<1.9	ug/L	9.7	1.9	1	12/13/18 15:37	12/20/18 20:08	117-84-0	
Benzo(b)fluoranthene	<0.96	ug/L	9.7	0.96	1	12/13/18 15:37	12/20/18 20:08	205-99-2	
Benzo(k)fluoranthene	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	207-08-9	
Benzo(a)pyrene	<0.84	ug/L	9.7	0.84	1	12/13/18 15:37	12/20/18 20:08	50-32-8	
Indeno(1,2,3-cd)pyrene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	193-39-5	
Dibenz(a,h)anthracene	<1.2	ug/L	9.7	1.2	1	12/13/18 15:37	12/20/18 20:08	53-70-3	
Benzo(g,h,i)perylene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	191-24-2	
N-Nitrosodimethylamine	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	62-75-9	
1,2-Diphenylhydrazine	<1.7	ug/L	9.7	1.7	1	12/13/18 15:37	12/20/18 20:08	122-66-7	
Carbazole	<1.4	ug/L	9.7	1.4	1	12/13/18 15:37	12/20/18 20:08	86-74-8	
1-Methylnaphthalene	<1.1	ug/L	9.7	1.1	1	12/13/18 15:37	12/20/18 20:08	90-12-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	61	%	60-125		1	12/13/18 15:37	12/20/18 20:08	4165-60-0	
2-Fluorobiphenyl (S)	52	%	56-125		1	12/13/18 15:37	12/20/18 20:08	321-60-8	S0
p-Terphenyl-d14 (S)	83	%	58-125		1	12/13/18 15:37	12/20/18 20:08	1718-51-0	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Dup:120618**      **Lab ID: 10458136005**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270D MSSV</b> Analytical Method: EPA 8270D      Preparation Method: EPA 3520									
<i>Surrogates</i>									
Phenol-d6 (S)	60	%	58-125		1	12/13/18 15:37	12/20/18 20:08	13127-88-3	
2-Fluorophenol (S)	64	%	55-125		1	12/13/18 15:37	12/20/18 20:08	367-12-4	
2,4,6-Tribromophenol (S)	84	%	65-125		1	12/13/18 15:37	12/20/18 20:08	118-79-6	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 18:10	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 18:10	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 18:10	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 18:10	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 18:10	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 18:10	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 18:10	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 18:10	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 18:10	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 18:10	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 18:10	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 18:10	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 18:10	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 18:10	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 18:10	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 18:10	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 18:10	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 18:10	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 18:10	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 18:10	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 18:10	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 18:10	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 18:10	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 18:10	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 18:10	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 18:10	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 18:10	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 18:10	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 18:10	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 18:10	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 18:10	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 18:10	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 18:10	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 18:10	74-87-3	
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 18:10	124-48-1	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Dup:120618**      **Lab ID: 10458136005**      Collected: 12/06/18 15:45      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b> Analytical Method: EPA 8260B									
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 18:10	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 18:10	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 18:10	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 18:10	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 18:10	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 18:10	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 18:10	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 18:10	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 18:10	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 18:10	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 18:10	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 18:10	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 18:10	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 18:10	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 18:10	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 18:10	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 18:10	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 18:10	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 18:10	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 18:10	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 18:10	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 18:10	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 18:10	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 18:10	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 18:10	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 18:10	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		12/14/18 18:10	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		12/14/18 18:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		12/14/18 18:10	460-00-4	

**Sample: Trip Blank**      **Lab ID: 10458136006**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCX</b> Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 21:51		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	63	%	50-150		1		12/18/18 21:51	98-08-8	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 16:10	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 16:10	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	79-34-5	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Trip Blank**      **Lab ID: 10458136006**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 16:10	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 16:10	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:10	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:10	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:10	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 16:10	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:10	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:10	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 16:10	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 16:10	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:10	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:10	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:10	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 16:10	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:10	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 16:10	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 16:10	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:10	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 16:10	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 16:10	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 16:10	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 16:10	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:10	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:10	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 16:10	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:10	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 16:10	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 16:10	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 16:10	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 16:10	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 16:10	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:10	74-87-3	
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 16:10	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 16:10	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:10	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 16:10	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:10	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 16:10	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 16:10	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 16:10	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 16:10	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 16:10	91-20-3	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Trip Blank**      **Lab ID: 10458136006**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b> Analytical Method: EPA 8260B									
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 16:10	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:10	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 16:10	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 16:10	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 16:10	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:10	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 16:10	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 16:10	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:10	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 16:10	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:10	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:10	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:10	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:10	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:10	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:10	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 16:10	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		12/14/18 16:10	17060-07-0	
Toluene-d8 (S)	105	%	75-125		1		12/14/18 16:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		12/14/18 16:10	460-00-4	

**Sample: Trip Blank**      **Lab ID: 10458136008**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 16:13		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	71	%	50-150		1		12/18/18 16:13	98-08-8	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 16:34	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 16:34	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 16:34	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 16:34	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:34	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:34	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:34	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 16:34	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:34	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:34	95-63-6	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Trip Blank**      **Lab ID: 10458136008**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 16:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 16:34	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:34	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:34	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:34	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 16:34	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:34	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	106-46-7	
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 16:34	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 16:34	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:34	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 16:34	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 16:34	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 16:34	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 16:34	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:34	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:34	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 16:34	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:34	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 16:34	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 16:34	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 16:34	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 16:34	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 16:34	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:34	74-87-3	
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 16:34	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 16:34	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:34	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 16:34	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:34	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 16:34	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 16:34	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 16:34	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 16:34	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 16:34	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 16:34	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:34	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 16:34	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 16:34	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 16:34	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:34	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 16:34	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 16:34	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:34	156-59-2	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Project No.: 10458136

Sample: Trip Blank      Lab ID: 10458136008      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b> Analytical Method: EPA 8260B									
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 16:34	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:34	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:34	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:34	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:34	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:34	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:34	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 16:34	10061-02-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		12/14/18 16:34	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1		12/14/18 16:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		12/14/18 16:34	460-00-4	

Sample: Trip Blank      Lab ID: 10458136009      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		12/18/18 18:45		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	70	%	50-150		1		12/18/18 18:45	98-08-8	
<b>8260B MSV</b> Analytical Method: EPA 8260B									
1,1,1,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		12/14/18 16:58	630-20-6	
1,1,1-Trichloroethane	<0.14	ug/L	1.0	0.14	1		12/14/18 16:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	79-34-5	
1,1,2-Trichloroethane	<0.18	ug/L	1.0	0.18	1		12/14/18 16:58	79-00-5	
1,1,2-Trichlorotrifluoroethane	<0.47	ug/L	1.0	0.47	1		12/14/18 16:58	76-13-1	
1,1-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	75-34-3	
1,1-Dichloroethene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:58	75-35-4	
1,1-Dichloropropene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:58	563-58-6	
1,2,3-Trichlorobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:58	87-61-6	
1,2,3-Trichloropropane	<0.26	ug/L	4.0	0.26	1		12/14/18 16:58	96-18-4	
1,2,4-Trichlorobenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:58	120-82-1	
1,2,4-Trimethylbenzene	<0.20	ug/L	1.0	0.20	1		12/14/18 16:58	95-63-6	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	4.0	1.7	1		12/14/18 16:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.24	ug/L	1.0	0.24	1		12/14/18 16:58	106-93-4	
1,2-Dichlorobenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:58	95-50-1	
1,2-Dichloroethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:58	107-06-2	
1,2-Dichloropropane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:58	78-87-5	
1,3,5-Trimethylbenzene	<0.12	ug/L	1.0	0.12	1		12/14/18 16:58	108-67-8	
1,3-Dichlorobenzene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:58	541-73-1	
1,3-Dichloropropane	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	142-28-9	
1,4-Dichlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	106-46-7	

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## ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Trip Blank**      **Lab ID: 10458136009**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
2,2-Dichloropropane	<0.17	ug/L	4.0	0.17	1		12/14/18 16:58	594-20-7	
2-Butanone (MEK)	<0.99	ug/L	5.0	0.99	1		12/14/18 16:58	78-93-3	
2-Chlorotoluene	<0.16	ug/L	1.0	0.16	1		12/14/18 16:58	95-49-8	
4-Chlorotoluene	<0.13	ug/L	1.0	0.13	1		12/14/18 16:58	106-43-4	
4-Methyl-2-pentanone (MIBK)	<0.42	ug/L	5.0	0.42	1		12/14/18 16:58	108-10-1	
Acetone	<9.2	ug/L	20.0	9.2	1		12/14/18 16:58	67-64-1	
Allyl chloride	<0.29	ug/L	4.0	0.29	1		12/14/18 16:58	107-05-1	
Benzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:58	71-43-2	
Bromobenzene	<0.21	ug/L	1.0	0.21	1		12/14/18 16:58	108-86-1	
Bromochloromethane	<0.27	ug/L	1.0	0.27	1		12/14/18 16:58	74-97-5	
Bromodichloromethane	<0.22	ug/L	1.0	0.22	1		12/14/18 16:58	75-27-4	
Bromoform	<0.80	ug/L	4.0	0.80	1		12/14/18 16:58	75-25-2	
Bromomethane	<1.8	ug/L	4.0	1.8	1		12/14/18 16:58	74-83-9	
Carbon tetrachloride	<0.19	ug/L	1.0	0.19	1		12/14/18 16:58	56-23-5	
Chlorobenzene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	108-90-7	
Chloroethane	<0.49	ug/L	4.0	0.49	1		12/14/18 16:58	75-00-3	
Chloroform	<0.45	ug/L	1.0	0.45	1		12/14/18 16:58	67-66-3	
Chloromethane	<0.16	ug/L	4.0	0.16	1		12/14/18 16:58	74-87-3	
Dibromochloromethane	<0.46	ug/L	1.0	0.46	1		12/14/18 16:58	124-48-1	
Dibromomethane	<0.39	ug/L	4.0	0.39	1		12/14/18 16:58	74-95-3	
Dichlorodifluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:58	75-71-8	
Diethyl ether (Ethyl ether)	<0.095	ug/L	4.0	0.095	1		12/14/18 16:58	60-29-7	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		12/14/18 16:58	100-41-4	
Hexachloro-1,3-butadiene	<0.31	ug/L	1.0	0.31	1		12/14/18 16:58	87-68-3	
Isopropylbenzene (Cumene)	<0.18	ug/L	1.0	0.18	1		12/14/18 16:58	98-82-8	
Methyl-tert-butyl ether	<0.16	ug/L	1.0	0.16	1		12/14/18 16:58	1634-04-4	
Methylene Chloride	<0.98	ug/L	4.0	0.98	1		12/14/18 16:58	75-09-2	
Naphthalene	<0.48	ug/L	4.0	0.48	1		12/14/18 16:58	91-20-3	
Styrene	<0.19	ug/L	1.0	0.19	1		12/14/18 16:58	100-42-5	
Tetrachloroethene	<0.17	ug/L	1.0	0.17	1		12/14/18 16:58	127-18-4	
Tetrahydrofuran	<2.2	ug/L	10.0	2.2	1		12/14/18 16:58	109-99-9	
Toluene	<0.083	ug/L	1.0	0.083	1		12/14/18 16:58	108-88-3	
Trichloroethene	<0.15	ug/L	0.40	0.15	1		12/14/18 16:58	79-01-6	
Trichlorofluoromethane	<0.23	ug/L	1.0	0.23	1		12/14/18 16:58	75-69-4	
Vinyl chloride	<0.092	ug/L	0.20	0.092	1		12/14/18 16:58	75-01-4	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		12/14/18 16:58	1330-20-7	
cis-1,2-Dichloroethene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:58	156-59-2	
cis-1,3-Dichloropropene	<0.20	ug/L	4.0	0.20	1		12/14/18 16:58	10061-01-5	
n-Butylbenzene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:58	104-51-8	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		12/14/18 16:58	103-65-1	
p-Isopropyltoluene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:58	99-87-6	
sec-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:58	135-98-8	
tert-Butylbenzene	<0.15	ug/L	1.0	0.15	1		12/14/18 16:58	98-06-6	
trans-1,2-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:58	156-60-5	
trans-1,3-Dichloropropene	<0.18	ug/L	4.0	0.18	1		12/14/18 16:58	10061-02-6	

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### ANALYTICAL RESULTS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

**Sample: Trip Blank**      **Lab ID: 10458136009**      Collected: 12/06/18 00:00      Received: 12/08/18 12:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV</b>		Analytical Method: EPA 8260B							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%.	75-125		1		12/14/18 16:58	17060-07-0	
Toluene-d8 (S)	108	%.	75-125		1		12/14/18 16:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/14/18 16:58	460-00-4	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10458136

QC Batch: 581497 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water  
Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

METHOD BLANK: 3152534 Matrix: Water  
Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	12/18/18 15:39	
a,a,a-Trifluorotoluene (S)	%.	81	50-150		12/18/18 15:39	

METHOD BLANK: 3152535 Matrix: Water  
Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	12/18/18 15:56	
a,a,a-Trifluorotoluene (S)	%.	79	50-150		12/18/18 15:56	

LABORATORY CONTROL SAMPLE & LCSD: 3152536 3152537

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	1060	108	106	41-137	2	20	
a,a,a-Trifluorotoluene (S)	%.				85	86	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3152538 3152539

Parameter	Units	10458124007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	1090	1120	109	112	30-145	2	30	
a,a,a-Trifluorotoluene (S)	%.						76	83	50-150			

SAMPLE DUPLICATE: 3152653

Parameter	Units	10457964001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	139	131	6	30	G+
a,a,a-Trifluorotoluene (S)	%.	71	68	4		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

SAMPLE DUPLICATE: 3152669

Parameter	Units	10458136002 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<19.6	<19.6		30	
a,a,a-Trifluorotoluene (S)	%.	59	67	12		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

QC Batch: 580474	Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B	Analysis Description: 8260B MSV
Associated Lab Samples: 10458136001	

METHOD BLANK: 3147755 Matrix: Water

Associated Lab Samples: 10458136001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.20	1.0	0.20	12/12/18 13:55	
1,1,1-Trichloroethane	ug/L	<0.14	1.0	0.14	12/12/18 13:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
1,1,2-Trichloroethane	ug/L	<0.18	1.0	0.18	12/12/18 13:55	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.47	1.0	0.47	12/12/18 13:55	
1,1-Dichloroethane	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
1,1-Dichloroethene	ug/L	<0.16	1.0	0.16	12/12/18 13:55	
1,1-Dichloropropene	ug/L	<0.20	1.0	0.20	12/12/18 13:55	
1,2,3-Trichlorobenzene	ug/L	<0.21	1.0	0.21	12/12/18 13:55	
1,2,3-Trichloropropane	ug/L	<0.26	4.0	0.26	12/12/18 13:55	
1,2,4-Trichlorobenzene	ug/L	<0.20	1.0	0.20	12/12/18 13:55	
1,2,4-Trimethylbenzene	ug/L	<0.20	1.0	0.20	12/12/18 13:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	4.0	1.7	12/12/18 13:55	
1,2-Dibromoethane (EDB)	ug/L	<0.24	1.0	0.24	12/12/18 13:55	
1,2-Dichlorobenzene	ug/L	<0.14	1.0	0.14	12/12/18 13:55	
1,2-Dichloroethane	ug/L	<0.22	1.0	0.22	12/12/18 13:55	
1,2-Dichloropropane	ug/L	<0.16	4.0	0.16	12/12/18 13:55	
1,3,5-Trimethylbenzene	ug/L	<0.12	1.0	0.12	12/12/18 13:55	
1,3-Dichlorobenzene	ug/L	<0.16	1.0	0.16	12/12/18 13:55	
1,3-Dichloropropane	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
1,4-Dichlorobenzene	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
2,2-Dichloropropane	ug/L	<0.17	4.0	0.17	12/12/18 13:55	
2-Butanone (MEK)	ug/L	<0.99	5.0	0.99	12/12/18 13:55	
2-Chlorotoluene	ug/L	<0.16	1.0	0.16	12/12/18 13:55	
4-Chlorotoluene	ug/L	<0.13	1.0	0.13	12/12/18 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	5.0	0.42	12/12/18 13:55	
Acetone	ug/L	<9.2	20.0	9.2	12/12/18 13:55	
Allyl chloride	ug/L	<0.29	4.0	0.29	12/12/18 13:55	
Benzene	ug/L	<0.10	1.0	0.10	12/12/18 13:55	
Bromobenzene	ug/L	<0.21	1.0	0.21	12/12/18 13:55	
Bromochloromethane	ug/L	<0.27	1.0	0.27	12/12/18 13:55	
Bromodichloromethane	ug/L	<0.22	1.0	0.22	12/12/18 13:55	
Bromoform	ug/L	<0.80	4.0	0.80	12/12/18 13:55	
Bromomethane	ug/L	<1.8	4.0	1.8	12/12/18 13:55	
Carbon tetrachloride	ug/L	<0.19	1.0	0.19	12/12/18 13:55	
Chlorobenzene	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
Chloroethane	ug/L	<0.49	4.0	0.49	12/12/18 13:55	
Chloroform	ug/L	<0.45	1.0	0.45	12/12/18 13:55	
Chloromethane	ug/L	<0.16	4.0	0.16	12/12/18 13:55	
cis-1,2-Dichloroethene	ug/L	<0.15	1.0	0.15	12/12/18 13:55	
cis-1,3-Dichloropropene	ug/L	<0.20	4.0	0.20	12/12/18 13:55	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

METHOD BLANK: 3147755

Matrix: Water

Associated Lab Samples: 10458136001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.46	1.0	0.46	12/12/18 13:55	
Dibromomethane	ug/L	<0.39	4.0	0.39	12/12/18 13:55	
Dichlorodifluoromethane	ug/L	<0.23	1.0	0.23	12/12/18 13:55	
Diethyl ether (Ethyl ether)	ug/L	<0.095	4.0	0.095	12/12/18 13:55	
Ethylbenzene	ug/L	<0.14	1.0	0.14	12/12/18 13:55	
Hexachloro-1,3-butadiene	ug/L	<0.31	1.0	0.31	12/12/18 13:55	
Isopropylbenzene (Cumene)	ug/L	<0.18	1.0	0.18	12/12/18 13:55	
Methyl-tert-butyl ether	ug/L	<0.16	1.0	0.16	12/12/18 13:55	
Methylene Chloride	ug/L	<0.98	4.0	0.98	12/12/18 13:55	
n-Butylbenzene	ug/L	<0.24	1.0	0.24	12/12/18 13:55	
n-Propylbenzene	ug/L	<0.10	1.0	0.10	12/12/18 13:55	
Naphthalene	ug/L	<0.48	4.0	0.48	12/12/18 13:55	
p-Isopropyltoluene	ug/L	<0.15	1.0	0.15	12/12/18 13:55	
sec-Butylbenzene	ug/L	<0.15	1.0	0.15	12/12/18 13:55	
Styrene	ug/L	<0.19	1.0	0.19	12/12/18 13:55	
tert-Butylbenzene	ug/L	<0.15	1.0	0.15	12/12/18 13:55	
Tetrachloroethene	ug/L	<0.17	1.0	0.17	12/12/18 13:55	
Tetrahydrofuran	ug/L	<2.2	10.0	2.2	12/12/18 13:55	
Toluene	ug/L	<0.083	1.0	0.083	12/12/18 13:55	
trans-1,2-Dichloroethene	ug/L	<0.24	1.0	0.24	12/12/18 13:55	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	0.18	12/12/18 13:55	
Trichloroethene	ug/L	<0.15	0.40	0.15	12/12/18 13:55	
Trichlorofluoromethane	ug/L	<0.23	1.0	0.23	12/12/18 13:55	
Vinyl chloride	ug/L	<0.092	0.20	0.092	12/12/18 13:55	
Xylene (Total)	ug/L	<0.31	3.0	0.31	12/12/18 13:55	
1,2-Dichloroethane-d4 (S)	%	101	75-125		12/12/18 13:55	
4-Bromofluorobenzene (S)	%	101	75-125		12/12/18 13:55	
Toluene-d8 (S)	%	103	75-125		12/12/18 13:55	

LABORATORY CONTROL SAMPLE: 3147756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	75-125	
1,1,1-Trichloroethane	ug/L	20	20.3	102	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	75-129	
1,1,2-Trichloroethane	ug/L	20	21.2	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.8	104	74-125	
1,1-Dichloroethane	ug/L	20	20.8	104	75-127	
1,1-Dichloroethene	ug/L	20	20.0	100	73-125	
1,1-Dichloropropene	ug/L	20	20.2	101	75-125	
1,2,3-Trichlorobenzene	ug/L	20	21.0	105	74-126	
1,2,3-Trichloropropane	ug/L	20	19.5	97	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.7	103	75-125	
1,2,4-Trimethylbenzene	ug/L	20	20.7	103	75-125	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE: 3147756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	64-129	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	99	75-125	
1,2-Dichlorobenzene	ug/L	20	21.2	106	75-125	
1,2-Dichloroethane	ug/L	20	18.8	94	74-125	
1,2-Dichloropropane	ug/L	20	20.9	104	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.6	103	75-125	
1,3-Dichlorobenzene	ug/L	20	21.7	109	75-125	
1,3-Dichloropropane	ug/L	20	20.9	104	75-125	
1,4-Dichlorobenzene	ug/L	20	21.0	105	75-125	
2,2-Dichloropropane	ug/L	20	22.1	110	70-125	
2-Butanone (MEK)	ug/L	100	104	104	57-130	
2-Chlorotoluene	ug/L	20	23.1	115	75-125	
4-Chlorotoluene	ug/L	20	21.0	105	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	69-137	
Acetone	ug/L	100	92.7	93	32-150	
Allyl chloride	ug/L	20	20.5	103	64-135	
Benzene	ug/L	20	20.3	102	75-126	
Bromobenzene	ug/L	20	21.3	106	75-125	
Bromochloromethane	ug/L	20	21.3	107	75-126	
Bromodichloromethane	ug/L	20	21.9	109	75-125	
Bromoform	ug/L	20	19.6	98	67-125	
Bromomethane	ug/L	20	16.9	84	30-150	
Carbon tetrachloride	ug/L	20	20.7	104	75-125	
Chlorobenzene	ug/L	20	20.4	102	75-125	
Chloroethane	ug/L	20	19.7	99	64-142	
Chloroform	ug/L	20	19.5	97	75-125	
Chloromethane	ug/L	20	17.9	89	40-150	
cis-1,2-Dichloroethene	ug/L	20	20.1	101	75-125	
cis-1,3-Dichloropropene	ug/L	20	21.1	105	75-125	
Dibromochloromethane	ug/L	20	19.8	99	75-125	
Dibromomethane	ug/L	20	20.8	104	75-125	
Dichlorodifluoromethane	ug/L	20	19.7	99	61-132	
Diethyl ether (Ethyl ether)	ug/L	20	19.9	99	74-125	
Ethylbenzene	ug/L	20	20.2	101	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.7	103	75-125	
Isopropylbenzene (Cumene)	ug/L	20	20.2	101	75-125	
Methyl-tert-butyl ether	ug/L	20	19.6	98	73-129	
Methylene Chloride	ug/L	20	19.0	95	72-125	
n-Butylbenzene	ug/L	20	20.9	104	75-125	
n-Propylbenzene	ug/L	20	20.9	104	75-125	
Naphthalene	ug/L	20	19.3	97	65-126	
p-Isopropyltoluene	ug/L	20	20.5	103	75-125	
sec-Butylbenzene	ug/L	20	20.7	103	75-125	
Styrene	ug/L	20	20.2	101	75-125	
tert-Butylbenzene	ug/L	20	20.5	103	75-125	
Tetrachloroethene	ug/L	20	20.5	102	75-125	
Tetrahydrofuran	ug/L	200	204	102	30-150	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE: 3147756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	21.2	106	74-125	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	70-126	
trans-1,3-Dichloropropene	ug/L	20	17.9	90	75-125	
Trichloroethene	ug/L	20	20.5	103	75-125	
Trichlorofluoromethane	ug/L	20	21.4	107	71-131	
Vinyl chloride	ug/L	20	19.7	99	65-137	
Xylene (Total)	ug/L	60	60.8	101	75-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147757 3147758

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10458136001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	<0.20	20	20	18.7	19.9	93	99	69-130	6	30
1,1,1-Trichloroethane	ug/L	<0.14	20	20	20.0	21.4	100	107	72-133	6	30
1,1,2,2-Tetrachloroethane	ug/L	<0.17	20	20	19.3	19.8	97	99	60-137	3	30
1,1,2-Trichloroethane	ug/L	<0.18	20	20	19.9	21.0	99	105	70-128	6	30
1,1,2-Trichlorotrifluoroethane	ug/L	<0.47	20	20	21.4	22.8	107	114	64-147	7	30
1,1-Dichloroethane	ug/L	<0.17	20	20	20.1	21.4	100	107	64-136	7	30
1,1-Dichloroethene	ug/L	<0.16	20	20	20.4	21.5	102	108	67-139	5	30
1,1-Dichloropropene	ug/L	<0.20	20	20	20.2	21.5	101	108	69-131	6	30
1,2,3-Trichlorobenzene	ug/L	<0.21	20	20	19.5	20.6	98	103	60-138	5	30
1,2,3-Trichloropropane	ug/L	<0.26	20	20	18.5	18.7	93	94	67-129	1	30
1,2,4-Trichlorobenzene	ug/L	<0.20	20	20	19.1	20.8	96	104	71-125	8	30
1,2,4-Trimethylbenzene	ug/L	<0.20	20	20	18.3	20.7	92	103	67-130	12	30
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	46.1	46.0	92	92	52-141	0	30
1,2-Dibromoethane (EDB)	ug/L	<0.24	20	20	18.6	19.5	93	97	66-130	4	30
1,2-Dichlorobenzene	ug/L	<0.14	20	20	19.1	20.7	96	103	72-126	8	30
1,2-Dichloroethane	ug/L	<0.22	20	20	17.9	18.6	90	93	64-125	4	30
1,2-Dichloropropane	ug/L	<0.16	20	20	19.4	20.3	97	102	65-128	5	30
1,3,5-Trimethylbenzene	ug/L	<0.12	20	20	18.2	20.6	91	103	63-139	12	30
1,3-Dichlorobenzene	ug/L	<0.16	20	20	19.2	21.2	96	106	70-128	10	30
1,3-Dichloropropane	ug/L	<0.17	20	20	19.7	20.4	99	102	70-131	3	30
1,4-Dichlorobenzene	ug/L	<0.17	20	20	18.8	20.3	94	101	74-125	7	30
2,2-Dichloropropane	ug/L	<0.17	20	20	21.9	23.5	110	118	58-137	7	30
2-Butanone (MEK)	ug/L	<0.99	100	100	94.9	98.6	95	99	45-132	4	30
2-Chlorotoluene	ug/L	<0.16	20	20	20.7	23.4	103	117	66-134	13	30
4-Chlorotoluene	ug/L	<0.13	20	20	19.1	20.7	95	104	70-132	8	30
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	100	100	101	98.5	101	98	54-143	2	30
Acetone	ug/L	<9.2	100	100	86.8	91.6	87	92	51-150	5	30
Allyl chloride	ug/L	<0.29	20	20	20.4	21.2	102	106	52-150	4	30
Benzene	ug/L	<0.10	20	20	19.5	20.8	98	104	62-140	6	30

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147757 3147758													
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10458136001 Result	Spike Conc.	Spike Conc.	MS Result								
Bromobenzene	ug/L	<0.21	20	20	19.4	20.6	97	103	70-128	6	30		
Bromochloromethane	ug/L	<0.27	20	20	19.8	20.8	99	104	65-131	5	30		
Bromodichloromethane	ug/L	<0.22	20	20	20.7	21.7	104	108	74-127	4	30		
Bromoform	ug/L	<0.80	20	20	18.3	19.0	92	95	59-125	3	30		
Bromomethane	ug/L	<1.8	20	20	16.5	19.5	82	98	30-149	17	30		
Carbon tetrachloride	ug/L	<0.19	20	20	20.6	21.8	103	109	67-134	6	30		
Chlorobenzene	ug/L	<0.17	20	20	19.5	20.4	97	102	72-131	5	30		
Chloroethane	ug/L	<0.49	20	20	18.3	21.1	92	105	55-150	14	30		
Chloroform	ug/L	<0.45	20	20	18.5	19.8	93	99	67-125	7	30		
Chloromethane	ug/L	<0.16	20	20	13.9	21.2	70	106	43-148	41	30	R1	
cis-1,2-Dichloroethene	ug/L	<0.15	20	20	18.8	20.1	94	100	62-132	7	30		
cis-1,3-Dichloropropene	ug/L	<0.20	20	20	19.0	19.7	95	99	63-129	4	30		
Dibromochloromethane	ug/L	<0.46	20	20	18.8	19.5	94	97	67-127	4	30		
Dibromomethane	ug/L	<0.39	20	20	19.2	20.0	96	100	68-132	4	30		
Dichlorodifluoromethane	ug/L	<0.23	20	20	19.3	21.8	96	109	59-144	12	30		
Diethyl ether (Ethyl ether)	ug/L	<0.095	20	20	18.8	19.4	94	97	52-139	3	30		
Ethylbenzene	ug/L	<0.14	20	20	19.3	20.5	97	102	75-131	6	30		
Hexachloro-1,3-butadiene	ug/L	<0.31	20	20	21.3	21.9	106	109	58-146	3	30		
Isopropylbenzene (Cumene)	ug/L	<0.18	20	20	18.3	20.4	92	102	71-132	11	30		
Methyl-tert-butyl ether	ug/L	<0.16	20	20	18.4	19.2	92	96	65-130	5	30		
Methylene Chloride	ug/L	<0.98	20	20	18.4	19.2	92	96	66-125	4	30		
n-Butylbenzene	ug/L	<0.24	20	20	18.4	21.4	92	107	57-141	15	30		
n-Propylbenzene	ug/L	<0.10	20	20	18.8	21.3	94	106	70-131	12	30		
Naphthalene	ug/L	<0.48	20	20	18.3	19.0	91	95	48-134	4	30		
p-Isopropyltoluene	ug/L	<0.15	20	20	18.0	20.9	90	105	66-136	15	30		
sec-Butylbenzene	ug/L	<0.15	20	20	18.1	21.4	91	107	69-134	17	30		
Styrene	ug/L	<0.19	20	20	18.8	20.0	94	100	65-134	6	30		
tert-Butylbenzene	ug/L	<0.15	20	20	18.2	21.2	91	106	71-130	15	30		
Tetrachloroethene	ug/L	0.36J	20	20	19.7	21.2	96	104	69-135	8	30		
Tetrahydrofuran	ug/L	<2.2	200	200	185	194	92	97	48-150	5	30		
Toluene	ug/L	<0.083	20	20	19.0	21.5	95	108	68-132	12	30		
trans-1,2-Dichloroethene	ug/L	<0.24	20	20	19.6	20.5	98	103	61-134	5	30		
trans-1,3-Dichloropropene	ug/L	<0.18	20	20	16.6	17.7	83	88	66-125	6	30		
Trichloroethene	ug/L	<0.15	20	20	19.7	20.7	99	103	64-136	5	30		
Trichlorofluoromethane	ug/L	<0.23	20	20	20.3	23.5	101	117	65-146	15	30		
Vinyl chloride	ug/L	<0.092	20	20	18.3	21.1	92	105	51-150	14	30		
Xylene (Total)	ug/L	<0.31	60	60	57.0	61.4	95	102	69-135	7	30		
1,2-Dichloroethane-d4 (S)	%						103	104	75-125				
4-Bromofluorobenzene (S)	%						102	104	75-125				
Toluene-d8 (S)	%						96	102	75-125				

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

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QC Batch: 580977 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV  
 Associated Lab Samples: 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

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METHOD BLANK: 3150380 Matrix: Water  
 Associated Lab Samples: 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.20	1.0	0.20	12/14/18 12:10	
1,1,1-Trichloroethane	ug/L	<0.14	1.0	0.14	12/14/18 12:10	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
1,1,2-Trichloroethane	ug/L	<0.18	1.0	0.18	12/14/18 12:10	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.47	1.0	0.47	12/14/18 12:10	
1,1-Dichloroethane	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
1,1-Dichloroethene	ug/L	<0.16	1.0	0.16	12/14/18 12:10	
1,1-Dichloropropene	ug/L	<0.20	1.0	0.20	12/14/18 12:10	
1,2,3-Trichlorobenzene	ug/L	<0.21	1.0	0.21	12/14/18 12:10	
1,2,3-Trichloropropane	ug/L	<0.26	4.0	0.26	12/14/18 12:10	
1,2,4-Trichlorobenzene	ug/L	<0.20	1.0	0.20	12/14/18 12:10	
1,2,4-Trimethylbenzene	ug/L	<0.20	1.0	0.20	12/14/18 12:10	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	4.0	1.7	12/14/18 12:10	
1,2-Dibromoethane (EDB)	ug/L	<0.24	1.0	0.24	12/14/18 12:10	
1,2-Dichlorobenzene	ug/L	<0.14	1.0	0.14	12/14/18 12:10	
1,2-Dichloroethane	ug/L	<0.22	1.0	0.22	12/14/18 12:10	
1,2-Dichloropropane	ug/L	<0.16	4.0	0.16	12/14/18 12:10	
1,3,5-Trimethylbenzene	ug/L	<0.12	1.0	0.12	12/14/18 12:10	
1,3-Dichlorobenzene	ug/L	<0.16	1.0	0.16	12/14/18 12:10	
1,3-Dichloropropane	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
1,4-Dichlorobenzene	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
2,2-Dichloropropane	ug/L	<0.17	4.0	0.17	12/14/18 12:10	
2-Butanone (MEK)	ug/L	<0.99	5.0	0.99	12/14/18 12:10	
2-Chlorotoluene	ug/L	<0.16	1.0	0.16	12/14/18 12:10	
4-Chlorotoluene	ug/L	<0.13	1.0	0.13	12/14/18 12:10	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	5.0	0.42	12/14/18 12:10	
Acetone	ug/L	<9.2	20.0	9.2	12/14/18 12:10	
Allyl chloride	ug/L	<0.29	4.0	0.29	12/14/18 12:10	
Benzene	ug/L	<0.10	1.0	0.10	12/14/18 12:10	
Bromobenzene	ug/L	<0.21	1.0	0.21	12/14/18 12:10	
Bromochloromethane	ug/L	<0.27	1.0	0.27	12/14/18 12:10	
Bromodichloromethane	ug/L	<0.22	1.0	0.22	12/14/18 12:10	
Bromoform	ug/L	<0.80	4.0	0.80	12/14/18 12:10	
Bromomethane	ug/L	<1.8	4.0	1.8	12/14/18 12:10	
Carbon tetrachloride	ug/L	<0.19	1.0	0.19	12/14/18 12:10	
Chlorobenzene	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
Chloroethane	ug/L	<0.49	4.0	0.49	12/14/18 12:10	
Chloroform	ug/L	<0.45	1.0	0.45	12/14/18 12:10	
Chloromethane	ug/L	<0.16	4.0	0.16	12/14/18 12:10	
cis-1,2-Dichloroethene	ug/L	<0.15	1.0	0.15	12/14/18 12:10	
cis-1,3-Dichloropropene	ug/L	<0.20	4.0	0.20	12/14/18 12:10	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

METHOD BLANK: 3150380

Matrix: Water

Associated Lab Samples: 10458136002, 10458136003, 10458136004, 10458136005, 10458136006, 10458136008, 10458136009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.46	1.0	0.46	12/14/18 12:10	
Dibromomethane	ug/L	<0.39	4.0	0.39	12/14/18 12:10	
Dichlorodifluoromethane	ug/L	<0.23	1.0	0.23	12/14/18 12:10	
Diethyl ether (Ethyl ether)	ug/L	<0.095	4.0	0.095	12/14/18 12:10	
Ethylbenzene	ug/L	<0.14	1.0	0.14	12/14/18 12:10	
Hexachloro-1,3-butadiene	ug/L	<0.31	1.0	0.31	12/14/18 12:10	
Isopropylbenzene (Cumene)	ug/L	<0.18	1.0	0.18	12/14/18 12:10	
Methyl-tert-butyl ether	ug/L	<0.16	1.0	0.16	12/14/18 12:10	
Methylene Chloride	ug/L	<0.98	4.0	0.98	12/14/18 12:10	
n-Butylbenzene	ug/L	<0.24	1.0	0.24	12/14/18 12:10	
n-Propylbenzene	ug/L	<0.10	1.0	0.10	12/14/18 12:10	
Naphthalene	ug/L	<0.48	4.0	0.48	12/14/18 12:10	
p-Isopropyltoluene	ug/L	<0.15	1.0	0.15	12/14/18 12:10	
sec-Butylbenzene	ug/L	<0.15	1.0	0.15	12/14/18 12:10	
Styrene	ug/L	<0.19	1.0	0.19	12/14/18 12:10	
tert-Butylbenzene	ug/L	<0.15	1.0	0.15	12/14/18 12:10	
Tetrachloroethene	ug/L	<0.17	1.0	0.17	12/14/18 12:10	
Tetrahydrofuran	ug/L	<2.2	10.0	2.2	12/14/18 12:10	
Toluene	ug/L	<0.083	1.0	0.083	12/14/18 12:10	
trans-1,2-Dichloroethene	ug/L	<0.24	1.0	0.24	12/14/18 12:10	
trans-1,3-Dichloropropene	ug/L	<0.18	4.0	0.18	12/14/18 12:10	
Trichloroethene	ug/L	<0.15	0.40	0.15	12/14/18 12:10	
Trichlorofluoromethane	ug/L	<0.23	1.0	0.23	12/14/18 12:10	
Vinyl chloride	ug/L	<0.092	0.20	0.092	12/14/18 12:10	
Xylene (Total)	ug/L	<0.31	3.0	0.31	12/14/18 12:10	
1,2-Dichloroethane-d4 (S)	%	103	75-125		12/14/18 12:10	
4-Bromofluorobenzene (S)	%	101	75-125		12/14/18 12:10	
Toluene-d8 (S)	%	105	75-125		12/14/18 12:10	

LABORATORY CONTROL SAMPLE: 3150381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	96	75-125	
1,1,1-Trichloroethane	ug/L	20	18.7	93	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	75-129	
1,1,2-Trichloroethane	ug/L	20	20.6	103	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.1	95	74-125	
1,1-Dichloroethane	ug/L	20	19.1	96	75-127	
1,1-Dichloroethene	ug/L	20	17.5	87	73-125	
1,1-Dichloropropene	ug/L	20	17.8	89	75-125	
1,2,3-Trichlorobenzene	ug/L	20	19.8	99	74-126	
1,2,3-Trichloropropane	ug/L	20	19.1	96	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.9	99	75-125	
1,2,4-Trimethylbenzene	ug/L	20	19.6	98	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE: 3150381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	64-129	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	75-125	
1,2-Dichlorobenzene	ug/L	20	20.3	102	75-125	
1,2-Dichloroethane	ug/L	20	18.1	90	74-125	
1,2-Dichloropropane	ug/L	20	19.0	95	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.9	94	75-125	
1,3-Dichlorobenzene	ug/L	20	20.4	102	75-125	
1,3-Dichloropropane	ug/L	20	20.2	101	75-125	
1,4-Dichlorobenzene	ug/L	20	19.7	98	75-125	
2,2-Dichloropropane	ug/L	20	20.7	103	70-125	
2-Butanone (MEK)	ug/L	100	95.4	95	57-130	
2-Chlorotoluene	ug/L	20	21.7	108	75-125	
4-Chlorotoluene	ug/L	20	19.9	99	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	69-137	
Acetone	ug/L	100	95.7	96	32-150	
Allyl chloride	ug/L	20	18.3	91	64-135	
Benzene	ug/L	20	18.7	94	75-126	
Bromobenzene	ug/L	20	20.2	101	75-125	
Bromochloromethane	ug/L	20	19.3	96	75-126	
Bromodichloromethane	ug/L	20	20.9	104	75-125	
Bromoform	ug/L	20	18.8	94	67-125	
Bromomethane	ug/L	20	12.3	61	30-150	
Carbon tetrachloride	ug/L	20	19.0	95	75-125	
Chlorobenzene	ug/L	20	19.5	98	75-125	
Chloroethane	ug/L	20	19.8	99	64-142	
Chloroform	ug/L	20	18.3	92	75-125	
Chloromethane	ug/L	20	18.6	93	40-150	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	75-125	
cis-1,3-Dichloropropene	ug/L	20	19.5	97	75-125	
Dibromochloromethane	ug/L	20	18.8	94	75-125	
Dibromomethane	ug/L	20	20.1	101	75-125	
Dichlorodifluoromethane	ug/L	20	19.9	99	61-132	
Diethyl ether (Ethyl ether)	ug/L	20	18.4	92	74-125	
Ethylbenzene	ug/L	20	18.9	95	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.8	94	75-125	
Isopropylbenzene (Cumene)	ug/L	20	18.6	93	75-125	
Methyl-tert-butyl ether	ug/L	20	18.6	93	73-129	
Methylene Chloride	ug/L	20	17.7	88	72-125	
n-Butylbenzene	ug/L	20	18.6	93	75-125	
n-Propylbenzene	ug/L	20	19.5	97	75-125	
Naphthalene	ug/L	20	18.8	94	65-126	
p-Isopropyltoluene	ug/L	20	18.7	94	75-125	
sec-Butylbenzene	ug/L	20	18.9	95	75-125	
Styrene	ug/L	20	18.7	94	75-125	
tert-Butylbenzene	ug/L	20	19.1	95	75-125	
Tetrachloroethene	ug/L	20	18.4	92	75-125	
Tetrahydrofuran	ug/L	200	199	99	30-150	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE: 3150381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	19.9	99	74-125	
trans-1,2-Dichloroethene	ug/L	20	17.4	87	70-126	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	75-125	
Trichloroethene	ug/L	20	18.8	94	75-125	
Trichlorofluoromethane	ug/L	20	22.7	113	71-131	
Vinyl chloride	ug/L	20	20.5	102	65-137	
Xylene (Total)	ug/L	60	56.5	94	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150382 3150383

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10458136003 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	<0.20	20	20	18.4	18.9	92	95	69-130	3	30
1,1,1-Trichloroethane	ug/L	<0.14	20	20	19.2	20.0	96	100	72-133	4	30
1,1,2,2-Tetrachloroethane	ug/L	<0.17	20	20	19.2	18.9	96	94	60-137	1	30
1,1,2-Trichloroethane	ug/L	<0.18	20	20	19.3	20.0	96	100	70-128	4	30
1,1,2-Trichlorotrifluoroethane	ug/L	<0.47	20	20	20.7	21.3	104	107	64-147	3	30
1,1-Dichloroethane	ug/L	<0.17	20	20	19.5	19.5	98	98	64-136	0	30
1,1-Dichloroethene	ug/L	<0.16	20	20	19.5	19.7	97	98	67-139	1	30
1,1-Dichloropropene	ug/L	<0.20	20	20	19.0	19.9	95	100	69-131	5	30
1,2,3-Trichlorobenzene	ug/L	<0.21	20	20	18.2	19.1	91	96	60-138	5	30
1,2,3-Trichloropropane	ug/L	<0.26	20	20	18.1	17.6	90	88	67-129	3	30
1,2,4-Trichlorobenzene	ug/L	<0.20	20	20	18.0	19.5	90	98	71-125	8	30
1,2,4-Trimethylbenzene	ug/L	<0.20	20	20	17.1	19.3	86	97	67-130	12	30
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	45.0	44.2	90	88	52-141	2	30
1,2-Dibromoethane (EDB)	ug/L	<0.24	20	20	17.9	18.2	89	91	66-130	2	30
1,2-Dichlorobenzene	ug/L	<0.14	20	20	18.2	19.5	91	98	72-126	7	30
1,2-Dichloroethane	ug/L	<0.22	20	20	16.7	17.3	84	86	64-125	3	30
1,2-Dichloropropane	ug/L	<0.16	20	20	19.1	19.0	95	95	65-128	1	30
1,3,5-Trimethylbenzene	ug/L	<0.12	20	20	17.1	18.8	86	94	63-139	9	30
1,3-Dichlorobenzene	ug/L	<0.16	20	20	18.2	20.2	91	101	70-128	11	30
1,3-Dichloropropane	ug/L	<0.17	20	20	18.8	19.3	94	96	70-131	3	30
1,4-Dichlorobenzene	ug/L	<0.17	20	20	17.5	19.2	88	96	74-125	9	30
2,2-Dichloropropane	ug/L	<0.17	20	20	21.7	22.2	109	111	58-137	2	30
2-Butanone (MEK)	ug/L	<0.99	100	100	90.6	90.1	91	90	45-132	1	30
2-Chlorotoluene	ug/L	<0.16	20	20	19.6	22.0	98	110	66-134	12	30
4-Chlorotoluene	ug/L	<0.13	20	20	17.8	19.6	89	98	70-132	10	30
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	100	100	98.9	94.5	99	95	54-143	5	30
Acetone	ug/L	<9.2	100	100	88.4	89.8	88	90	51-150	2	30
Allyl chloride	ug/L	<0.29	20	20	19.5	19.4	97	97	52-150	0	30
Benzene	ug/L	<0.10	20	20	18.6	19.0	93	95	62-140	3	30

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

Parameter	Units	3150382		3150383		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Bromobenzene	ug/L	<0.21	20	20	18.3	19.6	91	98	70-128	7	30	
Bromochloromethane	ug/L	<0.27	20	20	18.0	19.1	90	95	65-131	6	30	
Bromodichloromethane	ug/L	<0.22	20	20	19.9	21.1	100	105	74-127	6	30	
Bromoform	ug/L	<0.80	20	20	17.5	18.2	88	91	59-125	4	30	
Bromomethane	ug/L	<1.8	20	20	14.3	15.7	72	79	30-149	9	30	
Carbon tetrachloride	ug/L	<0.19	20	20	19.8	20.5	99	103	67-134	3	30	
Chlorobenzene	ug/L	<0.17	20	20	18.9	19.4	95	97	72-131	3	30	
Chloroethane	ug/L	<0.49	20	20	18.4	21.1	92	105	55-150	14	30	
Chloroform	ug/L	<0.45	20	20	18.0	18.4	90	92	67-125	2	30	
Chloromethane	ug/L	<0.16	20	20	15.0	20.6	75	103	43-148	31	30	R1
cis-1,2-Dichloroethene	ug/L	<0.15	20	20	17.9	18.7	89	93	62-132	4	30	
cis-1,3-Dichloropropene	ug/L	<0.20	20	20	17.9	18.4	90	92	63-129	3	30	
Dibromochloromethane	ug/L	<0.46	20	20	17.8	18.6	89	93	67-127	4	30	
Dibromomethane	ug/L	<0.39	20	20	18.7	18.9	94	95	68-132	1	30	
Dichlorodifluoromethane	ug/L	<0.23	20	20	19.5	20.1	97	100	59-144	3	30	
Diethyl ether (Ethyl ether)	ug/L	<0.095	20	20	17.2	18.0	86	90	52-139	4	30	
Ethylbenzene	ug/L	<0.14	20	20	18.2	19.3	91	96	75-131	6	30	
Hexachloro-1,3-butadiene	ug/L	<0.31	20	20	19.2	18.4	96	92	58-146	4	30	
Isopropylbenzene (Cumene)	ug/L	<0.18	20	20	17.5	19.5	87	98	71-132	11	30	
Methyl-tert-butyl ether	ug/L	<0.16	20	20	17.3	17.9	87	90	65-130	3	30	
Methylene Chloride	ug/L	<0.98	20	20	17.5	17.8	87	89	66-125	2	30	
n-Butylbenzene	ug/L	<0.24	20	20	16.7	18.7	84	94	57-141	11	30	
n-Propylbenzene	ug/L	<0.10	20	20	17.6	19.7	88	98	70-131	11	30	
Naphthalene	ug/L	<0.48	20	20	17.1	17.6	85	88	48-134	3	30	
p-Isopropyltoluene	ug/L	<0.15	20	20	16.6	18.8	83	94	66-136	12	30	
sec-Butylbenzene	ug/L	<0.15	20	20	16.9	19.0	84	95	69-134	12	30	
Styrene	ug/L	<0.19	20	20	17.7	18.7	88	94	65-134	6	30	
tert-Butylbenzene	ug/L	<0.15	20	20	17.1	19.6	85	98	71-130	14	30	
Tetrachloroethene	ug/L	<0.17	20	20	18.1	19.5	91	98	69-135	7	30	
Tetrahydrofuran	ug/L	<2.2	200	200	181	182	91	91	48-150	0	30	
Toluene	ug/L	<0.083	20	20	19.6	19.6	98	98	68-132	0	30	
trans-1,2-Dichloroethene	ug/L	<0.24	20	20	18.1	18.5	91	93	61-134	2	30	
trans-1,3-Dichloropropene	ug/L	<0.18	20	20	16.2	16.2	81	81	66-125	1	30	
Trichloroethene	ug/L	<0.15	20	20	19.4	19.4	97	97	64-136	0	30	
Trichlorofluoromethane	ug/L	<0.23	20	20	21.5	23.0	108	115	65-146	7	30	
Vinyl chloride	ug/L	<0.092	20	20	20.2	21.2	101	106	51-150	5	30	
Xylene (Total)	ug/L	<0.31	60	60	53.8	57.7	90	96	69-135	7	30	
1,2-Dichloroethane-d4 (S)	%						102	102	75-125			
4-Bromofluorobenzene (S)	%						101	102	75-125			
Toluene-d8 (S)	%						100	95	75-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

QC Batch: 591310

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: GCS 8011 EDB DBCP

Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

METHOD BLANK: 3197865

Matrix: Water

Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	<0.0047	0.010	0.0047	02/25/19 22:35	
4-Bromofluorobenzene (S)	%.	98	75-125		02/25/19 22:35	

LABORATORY CONTROL SAMPLE & LCSD: 3197866

3197867

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.11	0.10	0.10	96	93	60-140	3	20	
4-Bromofluorobenzene (S)	%.				97	96	75-125			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

QC Batch: 581017 Analysis Method: EPA 8082A  
 QC Batch Method: EPA Mod. 3510C Analysis Description: 8082A GCS PCB  
 Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

METHOD BLANK: 3150571 Matrix: Water  
 Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.042	0.10	0.042	12/18/18 11:30	
PCB-1221 (Aroclor 1221)	ug/L	<0.043	0.10	0.043	12/18/18 11:30	
PCB-1232 (Aroclor 1232)	ug/L	<0.036	0.10	0.036	12/18/18 11:30	
PCB-1242 (Aroclor 1242)	ug/L	<0.038	0.10	0.038	12/18/18 11:30	
PCB-1248 (Aroclor 1248)	ug/L	<0.040	0.10	0.040	12/18/18 11:30	
PCB-1254 (Aroclor 1254)	ug/L	<0.042	0.10	0.042	12/18/18 11:30	
PCB-1260 (Aroclor 1260)	ug/L	<0.036	0.10	0.036	12/18/18 11:30	
Decachlorobiphenyl (S)	%	118	30-125		12/18/18 11:30	
Tetrachloro-m-xylene (S)	%	86	30-125		12/18/18 11:30	

LABORATORY CONTROL SAMPLE & LCSD: 3150572 3150573

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2	2.3	2.4	113	120	47-125	6	20	
PCB-1260 (Aroclor 1260)	ug/L	2	2.3	2.5	117	127	54-125	8	20	L1
Decachlorobiphenyl (S)	%				128	136	30-125			S0
Tetrachloro-m-xylene (S)	%				112	120	30-125			

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

QC Batch: 580752 Analysis Method: EPA 8270D  
QC Batch Method: EPA 3520 Analysis Description: 8270D Water MSSV  
Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

METHOD BLANK: 3149220 Matrix: Water  
Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	<0.80	10.0	0.80	12/20/18 13:52	
1,2-Dichlorobenzene	ug/L	<0.96	10.0	0.96	12/20/18 13:52	
1,2-Diphenylhydrazine	ug/L	<1.8	10.0	1.8	12/20/18 13:52	
1,3-Dichlorobenzene	ug/L	<0.69	10.0	0.69	12/20/18 13:52	
1,4-Dichlorobenzene	ug/L	<0.97	10.0	0.97	12/20/18 13:52	
1-Methylnaphthalene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
2,4,5-Trichlorophenol	ug/L	<1.2	10.0	1.2	12/20/18 13:52	
2,4,6-Trichlorophenol	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
2,4-Dichlorophenol	ug/L	<1.3	10.0	1.3	12/20/18 13:52	
2,4-Dimethylphenol	ug/L	<2.1	10.0	2.1	12/20/18 13:52	
2,4-Dinitrophenol	ug/L	<2.4	10.0	2.4	12/20/18 13:52	
2,4-Dinitrotoluene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
2,6-Dinitrotoluene	ug/L	<1.2	10.0	1.2	12/20/18 13:52	
2-Chloronaphthalene	ug/L	<0.98	10.0	0.98	12/20/18 13:52	
2-Chlorophenol	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
2-Methylnaphthalene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
2-Methylphenol(o-Cresol)	ug/L	<1.6	10.0	1.6	12/20/18 13:52	
2-Nitroaniline	ug/L	<1.7	10.0	1.7	12/20/18 13:52	
2-Nitrophenol	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
3&4-Methylphenol(m&p Cresol)	ug/L	<1.8	20.0	1.8	12/20/18 13:52	
3,3'-Dichlorobenzidine	ug/L	<2.1	50.0	2.1	12/20/18 13:52	
3-Nitroaniline	ug/L	<3.0	10.0	3.0	12/20/18 13:52	
4,6-Dinitro-2-methylphenol	ug/L	<2.9	10.0	2.9	12/20/18 13:52	
4-Bromophenylphenyl ether	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
4-Chloro-3-methylphenol	ug/L	<1.3	10.0	1.3	12/20/18 13:52	
4-Chloroaniline	ug/L	<1.8	10.0	1.8	12/20/18 13:52	
4-Chlorophenylphenyl ether	ug/L	<0.97	10.0	0.97	12/20/18 13:52	
4-Nitroaniline	ug/L	<1.8	10.0	1.8	12/20/18 13:52	
4-Nitrophenol	ug/L	<4.1	10.0	4.1	12/20/18 13:52	
Acenaphthene	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
Acenaphthylene	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
Anthracene	ug/L	<1.6	10.0	1.6	12/20/18 13:52	
Benzo(a)anthracene	ug/L	<0.97	10.0	0.97	12/20/18 13:52	
Benzo(a)pyrene	ug/L	<0.86	10.0	0.86	12/20/18 13:52	
Benzo(b)fluoranthene	ug/L	<0.99	10.0	0.99	12/20/18 13:52	
Benzo(g,h,i)perylene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
Benzo(k)fluoranthene	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
bis(2-Chloroethoxy)methane	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
bis(2-Chloroethyl) ether	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
bis(2-Chloroisopropyl) ether	ug/L	<2.0	10.0	2.0	12/20/18 13:52	
bis(2-Ethylhexyl)phthalate	ug/L	<4.3	10.0	4.3	12/20/18 13:52	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

METHOD BLANK: 3149220

Matrix: Water

Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	<1.6	10.0	1.6	12/20/18 13:52	
Carbazole	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
Chrysene	ug/L	<0.99	10.0	0.99	12/20/18 13:52	
Di-n-butylphthalate	ug/L	<3.1	10.0	3.1	12/20/18 13:52	
Di-n-octylphthalate	ug/L	<2.0	10.0	2.0	12/20/18 13:52	
Dibenz(a,h)anthracene	ug/L	<1.2	10.0	1.2	12/20/18 13:52	
Dibenzofuran	ug/L	<1.4	10.0	1.4	12/20/18 13:52	
Diethylphthalate	ug/L	<1.7	10.0	1.7	12/20/18 13:52	
Dimethylphthalate	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
Fluoranthene	ug/L	<1.8	10.0	1.8	12/20/18 13:52	
Fluorene	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
Hexachloro-1,3-butadiene	ug/L	<0.68	10.0	0.68	12/20/18 13:52	
Hexachlorobenzene	ug/L	<1.2	10.0	1.2	12/20/18 13:52	
Hexachloroethane	ug/L	<1.2	10.0	1.2	12/20/18 13:52	
Indeno(1,2,3-cd)pyrene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
Isophorone	ug/L	<1.6	10.0	1.6	12/20/18 13:52	
N-Nitroso-di-n-propylamine	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
N-Nitrosodimethylamine	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
N-Nitrosodiphenylamine	ug/L	<1.8	10.0	1.8	12/20/18 13:52	
Naphthalene	ug/L	<1.1	10.0	1.1	12/20/18 13:52	
Nitrobenzene	ug/L	<1.6	10.0	1.6	12/20/18 13:52	
Pentachlorophenol	ug/L	<3.0	20.0	3.0	12/20/18 13:52	
Phenanthrene	ug/L	<1.5	10.0	1.5	12/20/18 13:52	
Phenol	ug/L	<1.3	10.0	1.3	12/20/18 13:52	
Pyrene	ug/L	<0.96	10.0	0.96	12/20/18 13:52	
2,4,6-Tribromophenol (S)	%	76	65-125		12/20/18 13:52	
2-Fluorobiphenyl (S)	%	71	56-125		12/20/18 13:52	
2-Fluorophenol (S)	%	76	55-125		12/20/18 13:52	
Nitrobenzene-d5 (S)	%	79	60-125		12/20/18 13:52	
p-Terphenyl-d14 (S)	%	80	58-125		12/20/18 13:52	
Phenol-d6 (S)	%	77	58-125		12/20/18 13:52	

LABORATORY CONTROL SAMPLE & LCSD: 3149221

3149222

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	31.0	32.9	62	66	54-125	6	20	
1,2-Dichlorobenzene	ug/L	50	27.1	28.5	54	57	35-125	5	20	
1,2-Diphenylhydrazine	ug/L	50	42.2	43.1	84	86	68-125	2	20	
1,3-Dichlorobenzene	ug/L	50	25.2	26.4	50	53	30-125	5	20	
1,4-Dichlorobenzene	ug/L	50	26.0	27.2	52	54	33-125	5	20	
1-Methylnaphthalene	ug/L	50	38.4	39.8	77	80	67-125	4	20	
2,4,5-Trichlorophenol	ug/L	50	42.5	43.2	85	86	74-125	2	20	
2,4,6-Trichlorophenol	ug/L	50	41.7	42.0	83	84	74-125	1	20	
2,4-Dichlorophenol	ug/L	50	39.2	40.5	78	81	68-125	3	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE & LCSD: 3149221		3149222		LCS	LCSD	% Rec	LCSD	% Rec	Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
2,4-Dimethylphenol	ug/L	50	31.5	29.8	63	60	33-125	6	20	
2,4-Dinitrophenol	ug/L	50	35.3	38.0	71	76	30-127	7	20	
2,4-Dinitrotoluene	ug/L	50	44.3	45.1	89	90	75-125	2	20	
2,6-Dinitrotoluene	ug/L	50	43.6	43.7	87	87	75-125	0	20	
2-Chloronaphthalene	ug/L	50	38.7	40.2	77	80	70-125	4	20	
2-Chlorophenol	ug/L	50	35.6	37.2	71	74	61-125	4	20	
2-Methylnaphthalene	ug/L	50	37.3	38.7	75	77	67-125	4	20	
2-Methylphenol(o-Cresol)	ug/L	50	36.4	36.8	73	74	63-125	1	20	
2-Nitroaniline	ug/L	50	42.2	42.2	84	84	73-125	0	20	
2-Nitrophenol	ug/L	50	38.0	39.1	76	78	64-125	3	20	
3&4-Methylphenol(m&p Cresol)	ug/L	50	37.2	37.5	74	75	67-125	1	20	
3,3'-Dichlorobenzidine	ug/L	50	43.0J	42.7J	86	85	60-125		20	
3-Nitroaniline	ug/L	50	44.8	44.5	90	89	73-125	1	20	
4,6-Dinitro-2-methylphenol	ug/L	50	42.1	43.5	84	87	42-127	3	20	
4-Bromophenylphenyl ether	ug/L	50	41.7	42.3	83	85	75-125	1	20	
4-Chloro-3-methylphenol	ug/L	50	43.4	44.0	87	88	75-125	1	20	
4-Chloroaniline	ug/L	50	35.2	35.9	70	72	60-125	2	20	
4-Chlorophenylphenyl ether	ug/L	50	42.4	43.2	85	86	74-125	2	20	
4-Nitroaniline	ug/L	50	43.6	43.6	87	87	69-125	0	20	
4-Nitrophenol	ug/L	50	41.5	42.9	83	86	62-125	3	20	
Acenaphthene	ug/L	50	41.0	42.2	82	84	74-125	3	20	
Acenaphthylene	ug/L	50	40.7	42.1	81	84	72-125	3	20	
Anthracene	ug/L	50	43.3	44.1	87	88	75-125	2	20	
Benzo(a)anthracene	ug/L	50	43.3	43.8	87	88	75-125	1	20	
Benzo(a)pyrene	ug/L	50	43.4	44.8	87	90	75-125	3	20	
Benzo(b)fluoranthene	ug/L	50	43.8	45.3	88	91	75-125	3	20	
Benzo(g,h,i)perylene	ug/L	50	42.0	43.9	84	88	73-125	4	20	
Benzo(k)fluoranthene	ug/L	50	44.5	47.0	89	94	75-125	5	20	
bis(2-Chloroethoxy)methane	ug/L	50	38.2	39.7	76	79	67-125	4	20	
bis(2-Chloroethyl) ether	ug/L	50	33.2	34.4	66	69	55-125	4	20	
bis(2-Chloroisopropyl) ether	ug/L	50	31.7	33.3	63	67	52-125	5	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.8	46.7	92	93	72-129	2	20	
Butylbenzylphthalate	ug/L	50	45.1	46.7	90	93	69-127	4	20	
Carbazole	ug/L	50	43.4	44.5	87	89	75-125	3	20	
Chrysene	ug/L	50	43.9	44.3	88	89	75-125	1	20	
Di-n-butylphthalate	ug/L	50	44.8	46.1	90	92	75-125	3	20	
Di-n-octylphthalate	ug/L	50	45.5	46.3	91	93	69-131	2	20	
Dibenz(a,h)anthracene	ug/L	50	43.0	44.6	86	89	74-125	4	20	
Dibenzofuran	ug/L	50	41.8	43.1	84	86	75-125	3	20	
Diethylphthalate	ug/L	50	44.1	45.5	88	91	75-125	3	20	
Dimethylphthalate	ug/L	50	45.1	44.9	90	90	75-125	0	20	
Fluoranthene	ug/L	50	43.4	45.0	87	90	75-125	4	20	
Fluorene	ug/L	50	42.6	43.5	85	87	75-125	2	20	
Hexachloro-1,3-butadiene	ug/L	50	27.2	28.0	54	56	37-125	3	20	
Hexachlorobenzene	ug/L	50	40.1	41.3	80	83	74-125	3	20	
Hexachloroethane	ug/L	50	22.3	22.5	45	45	30-125	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.1	44.1	84	88	74-125	5	20	

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### QUALITY CONTROL DATA

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

LABORATORY CONTROL SAMPLE & LCSD: 3149221		3149222									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Isophorone	ug/L	50	40.0	40.4	80	81	72-125	1	20		
N-Nitroso-di-n-propylamine	ug/L	50	36.7	37.5	73	75	65-125	2	20		
N-Nitrosodimethylamine	ug/L	50	34.7	34.5	69	69	52-125	1	20		
N-Nitrosodiphenylamine	ug/L	50	42.0	43.0	84	86	75-125	2	20		
Naphthalene	ug/L	50	34.6	35.9	69	72	58-125	4	20		
Nitrobenzene	ug/L	50	37.1	38.2	74	76	64-125	3	20		
Pentachlorophenol	ug/L	50	38.1	39.6	76	79	52-125	4	20		
Phenanthrene	ug/L	50	43.3	44.1	87	88	75-125	2	20		
Phenol	ug/L	50	36.0	36.5	72	73	59-125	1	20		
Pyrene	ug/L	50	44.1	44.2	88	88	75-125	0	20		
2,4,6-Tribromophenol (S)	%				80	79	65-125				
2-Fluorobiphenyl (S)	%				71	74	56-125				
2-Fluorophenol (S)	%				65	67	55-125				
Nitrobenzene-d5 (S)	%				69	71	60-125				
p-Terphenyl-d14 (S)	%				77	79	58-125				
Phenol-d6 (S)	%				68	69	58-125				

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**QUALITY CONTROL DATA**

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

QC Batch: 580493 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA Mod. 3510C Analysis Description: NWTPH-Dx GCS LV  
 Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

METHOD BLANK: 3147845 Matrix: Water  
 Associated Lab Samples: 10458136001, 10458136002, 10458136003, 10458136004, 10458136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	mg/L	<0.056	0.40	0.056	12/16/18 17:11	
Motor Oil Range	mg/L	<0.18	0.40	0.18	12/16/18 17:11	
n-Triacontane (S)	%	95	50-150		12/16/18 17:11	
o-Terphenyl (S)	%	93	50-150		12/16/18 17:11	

LABORATORY CONTROL SAMPLE & LCSD: 3147846

Parameter	Units	3147847							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Diesel Fuel Range	mg/L	2	1.8	1.9	90	93	50-150	3	20		
Motor Oil Range	mg/L	2	1.8	1.9	91	94	50-150	4	20		
n-Triacontane (S)	%				85	91	50-150				
o-Terphenyl (S)	%				94	93	50-150				

SAMPLE DUPLICATE: 3147848

Parameter	Units	10458136001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	mg/L	<0.054	<0.054		30	
Motor Oil Range	mg/L	<0.18	<0.18		30	
n-Triacontane (S)	%	84	83		1	
o-Terphenyl (S)	%	80	80		1	

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 0504-139-00 Stubblefield-Revised Report

Pace Project No.: 10458136

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 581244

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 582112

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 591489

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

G+ Late peaks present outside the GRO window.

H1 Analysis conducted outside the recognized method holding time.

H2 Extraction or preparation was conducted outside of the recognized method holding time.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 0504-139-00 Stubblefield-Revised Report  
Pace Project No.: 10458136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10458136001	MW-1:120618	EPA 8011	591310	EPA 8011	591489
10458136002	MW-2:120618	EPA 8011	591310	EPA 8011	591489
10458136003	MW-3:120618	EPA 8011	591310	EPA 8011	591489
10458136004	MW-4:120618	EPA 8011	591310	EPA 8011	591489
10458136005	Dup:120618	EPA 8011	591310	EPA 8011	591489
10458136001	MW-1:120618	EPA Mod. 3510C	581017	EPA 8082A	581244
10458136002	MW-2:120618	EPA Mod. 3510C	581017	EPA 8082A	581244
10458136003	MW-3:120618	EPA Mod. 3510C	581017	EPA 8082A	581244
10458136004	MW-4:120618	EPA Mod. 3510C	581017	EPA 8082A	581244
10458136005	Dup:120618	EPA Mod. 3510C	581017	EPA 8082A	581244
10458136001	MW-1:120618	EPA Mod. 3510C	580493	NWTPH-Dx	581167
10458136002	MW-2:120618	EPA Mod. 3510C	580493	NWTPH-Dx	581167
10458136003	MW-3:120618	EPA Mod. 3510C	580493	NWTPH-Dx	581167
10458136004	MW-4:120618	EPA Mod. 3510C	580493	NWTPH-Dx	581167
10458136005	Dup:120618	EPA Mod. 3510C	580493	NWTPH-Dx	581167
10458136001	MW-1:120618	NWTPH-Gx	581497		
10458136002	MW-2:120618	NWTPH-Gx	581497		
10458136003	MW-3:120618	NWTPH-Gx	581497		
10458136004	MW-4:120618	NWTPH-Gx	581497		
10458136005	Dup:120618	NWTPH-Gx	581497		
10458136006	Trip Blank	NWTPH-Gx	581497		
10458136008	Trip Blank	NWTPH-Gx	581497		
10458136009	Trip Blank	NWTPH-Gx	581497		
10458136001	MW-1:120618	EPA 3520	580752	EPA 8270D	582112
10458136002	MW-2:120618	EPA 3520	580752	EPA 8270D	582112
10458136003	MW-3:120618	EPA 3520	580752	EPA 8270D	582112
10458136004	MW-4:120618	EPA 3520	580752	EPA 8270D	582112
10458136005	Dup:120618	EPA 3520	580752	EPA 8270D	582112
10458136001	MW-1:120618	EPA 8260B	580474		
10458136002	MW-2:120618	EPA 8260B	580977		
10458136003	MW-3:120618	EPA 8260B	580977		
10458136004	MW-4:120618	EPA 8260B	580977		
10458136005	Dup:120618	EPA 8260B	580977		
10458136006	Trip Blank	EPA 8260B	580977		
10458136008	Trip Blank	EPA 8260B	580977		
10458136009	Trip Blank	EPA 8260B	580977		

**REPORT OF LABORATORY ANALYSIS**

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**Sample Condition Upon Receipt**      **Client Name:** GeoEngineering      **Project #:** WO#: 10458136

**Courier:**  Fed Ex     UPS     USPS     Client  
 Commercial     Pace     Speedee     Other:

**Tracking Number:** 4638 093 9086/9642/9020

**PM:** JMG      **Due Date:** 12/24/18  
**CLIENT:** GeoEngineers

**Custody Seal on Cooler/Box Present?**  Yes  No      **Seals Intact?**  Yes  No      **Optional:** Proj. Due Date:      Proj. Name:

**Packing Material:**  Bubble Wrap     Bubble Bags     None     Other:      **Temp Blank?**  Yes     No

**Thermometer Used:**  G87A9170600254     G87A9155100842      **Type of Ice:**  Wet     Blue     None     Dry     Melted

**Cooler Temp Read (°C):** 3.0, 0.3, 1.4      **Cooler Temp Corrected (°C):** 3.0, 0.3, 1.4      **Biological Tissue Frozen?**  Yes     No     N/A

**Temp should be above freezing to 6°C**      **Correction Factor:** 0.0      **Date and Initials of Person Examining Contents:** 12/8/18 JS

**USDA Regulated Soil** ( N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes     No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes     No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>Wet</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>1 VOA broken from sample 1 and 2</u>
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH    Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Collform, TOC/DOC Oil and Grease, GRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample # Initial when completed:      Lot # of added preservative:
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>see exceptions</u>
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>185798</u>	

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes  No

**Person Contacted:** JR Sugalski      **Date/Time:** 12/13/18

**Comments/Resolution:** Analyze each set of trip blanks for 8260 and GRO and only 8270 full scan is needed, PAHSIM is not needed.

**Project Manager Review:** JENNI GROSS      **Date:** 12/12/18

Note: Whenever there is a discrepancy affecting North Carolina, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect contain...)

**Labeled by:** JS



## ANALYTICAL REPORT

Eurofins TestAmerica, Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

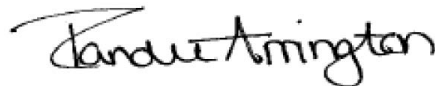
Laboratory Job ID: 590-10541-2

Client Project/Site: Stubblefield Salvage Yard

**For:**

Washington State Dept of Ecology  
4601 N. Monroe  
Spokane, Washington 99205

Attn: Katie Larimer



*Authorized for release by:  
4/10/2019 11:26:38 AM*

Randee Arrington, Project Manager II  
(509)924-9200  
[randee.arrington@testamericainc.com](mailto:randee.arrington@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

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**Job ID: 590-10541-2**

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**Laboratory: Eurofins TestAmerica, Spokane**

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## Narrative

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### Receipt

The samples were received on 3/11/2019 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

### Receipt Exceptions

The following samples were activated for method 200.8 to meet action limits by the client on 03/28/2019: MW-1-030819 (590-10541-1), MW-2-030819 (590-10541-2), MW-3-030819 (590-10541-3) and MW-4-030819 (590-10541-4).

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Sample Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10541-1	MW-1-030819	Water	03/08/19 12:30	03/11/19 14:40
590-10541-2	MW-2-030819	Water	03/08/19 14:03	03/11/19 14:40
590-10541-3	MW-3-030819	Water	03/08/19 13:30	03/11/19 14:40
590-10541-4	MW-4-030819	Water	03/08/19 13:00	03/11/19 14:40

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# Definitions/Glossary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

**Client Sample ID: MW-1-030819**

**Lab Sample ID: 590-10541-1**

Date Collected: 03/08/19 12:30

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00024</b>	<b>J</b>	0.0010	0.00020	mg/L		04/04/19 15:12	04/05/19 13:37	1
Antimony	ND		0.00040	0.00011	mg/L		04/04/19 15:12	04/05/19 13:37	1
Beryllium	ND		0.00040	0.000071	mg/L		04/04/19 15:12	04/05/19 13:37	1
Thallium	ND		0.0010	0.000065	mg/L		04/04/19 15:12	04/05/19 13:37	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00027</b>	<b>J</b>	0.0010	0.00020	mg/L		04/08/19 18:01	04/09/19 16:54	1
Antimony	ND		0.00040	0.00011	mg/L		04/08/19 18:01	04/09/19 16:54	1
Beryllium	ND		0.00040	0.000071	mg/L		04/08/19 18:01	04/09/19 16:54	1
Thallium	ND		0.0010	0.000065	mg/L		04/08/19 18:01	04/09/19 16:54	1

**Client Sample ID: MW-2-030819**

**Lab Sample ID: 590-10541-2**

Date Collected: 03/08/19 14:03

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00026</b>	<b>J</b>	0.0010	0.00020	mg/L		04/04/19 15:12	04/05/19 13:41	1
<b>Antimony</b>	<b>0.00012</b>	<b>J</b>	0.00040	0.00011	mg/L		04/04/19 15:12	04/05/19 13:41	1
Beryllium	ND		0.00040	0.000071	mg/L		04/04/19 15:12	04/05/19 13:41	1
Thallium	ND		0.0010	0.000065	mg/L		04/04/19 15:12	04/05/19 13:41	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00020</b>	<b>J</b>	0.0010	0.00020	mg/L		04/08/19 18:01	04/09/19 16:58	1
<b>Antimony</b>	<b>0.00013</b>	<b>J</b>	0.00040	0.00011	mg/L		04/08/19 18:01	04/09/19 16:58	1
Beryllium	ND		0.00040	0.000071	mg/L		04/08/19 18:01	04/09/19 16:58	1
Thallium	ND		0.0010	0.000065	mg/L		04/08/19 18:01	04/09/19 16:58	1

**Client Sample ID: MW-3-030819**

**Lab Sample ID: 590-10541-3**

Date Collected: 03/08/19 13:30

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00034</b>	<b>J</b>	0.0010	0.00020	mg/L		04/04/19 15:12	04/05/19 13:44	1
Antimony	ND		0.00040	0.00011	mg/L		04/04/19 15:12	04/05/19 13:44	1
Beryllium	ND		0.00040	0.000071	mg/L		04/04/19 15:12	04/05/19 13:44	1
Thallium	ND		0.0010	0.000065	mg/L		04/04/19 15:12	04/05/19 13:44	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00031</b>	<b>J</b>	0.0010	0.00020	mg/L		04/08/19 18:01	04/09/19 17:02	1
Antimony	ND		0.00040	0.00011	mg/L		04/08/19 18:01	04/09/19 17:02	1
Beryllium	ND		0.00040	0.000071	mg/L		04/08/19 18:01	04/09/19 17:02	1
Thallium	ND		0.0010	0.000065	mg/L		04/08/19 18:01	04/09/19 17:02	1

# Client Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

**Client Sample ID: MW-4-030819**

**Lab Sample ID: 590-10541-4**

Date Collected: 03/08/19 13:00

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0013</b>		0.0010	0.00020	mg/L		04/04/19 15:12	04/05/19 13:48	1
Antimony	ND		0.00040	0.00011	mg/L		04/04/19 15:12	04/05/19 13:48	1
Beryllium	ND		0.00040	0.000071	mg/L		04/04/19 15:12	04/05/19 13:48	1
Thallium	ND		0.0010	0.000065	mg/L		04/04/19 15:12	04/05/19 13:48	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00099</b>	<b>J</b>	0.0010	0.00020	mg/L		04/08/19 18:01	04/09/19 17:05	1
Antimony	ND		0.00040	0.00011	mg/L		04/08/19 18:01	04/09/19 17:05	1
Beryllium	ND		0.00040	0.000071	mg/L		04/08/19 18:01	04/09/19 17:05	1
Thallium	ND		0.0010	0.000065	mg/L		04/08/19 18:01	04/09/19 17:05	1



# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 580-298028/14-A**  
**Matrix: Water**  
**Analysis Batch: 298326**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 298028**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		04/04/19 15:12	04/09/19 12:46	1
Antimony	ND		0.00040	0.00011	mg/L		04/04/19 15:12	04/09/19 12:46	1
Beryllium	ND		0.00040	0.000071	mg/L		04/04/19 15:12	04/09/19 12:46	1
Thallium	ND		0.0010	0.000065	mg/L		04/04/19 15:12	04/09/19 12:46	1

**Lab Sample ID: LCS 580-298028/15-A**  
**Matrix: Water**  
**Analysis Batch: 298326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 298028**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	1.03		mg/L		103	85 - 115
Antimony	1.00	0.977		mg/L		98	85 - 115
Beryllium	1.00	1.00		mg/L		100	85 - 115
Thallium	1.00	0.992		mg/L		99	85 - 115

**Lab Sample ID: LCSD 580-298028/16-A**  
**Matrix: Water**  
**Analysis Batch: 298326**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 298028**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.00	1.05		mg/L		105	85 - 115	1	20
Antimony	1.00	0.995		mg/L		100	85 - 115	2	20
Beryllium	1.00	1.00		mg/L		100	85 - 115	0	20
Thallium	1.00	0.981		mg/L		98	85 - 115	1	20

**Lab Sample ID: MB 580-298225/14-A**  
**Matrix: Water**  
**Analysis Batch: 298325**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 298225**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		04/08/19 18:01	04/09/19 16:08	1
Antimony	ND		0.00040	0.00011	mg/L		04/08/19 18:01	04/09/19 16:08	1
Beryllium	ND		0.00040	0.000071	mg/L		04/08/19 18:01	04/09/19 16:08	1
Thallium	ND		0.0010	0.000065	mg/L		04/08/19 18:01	04/09/19 16:08	1

**Lab Sample ID: LCS 580-298225/15-A**  
**Matrix: Water**  
**Analysis Batch: 298325**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 298225**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	1.05		mg/L		105	85 - 115
Antimony	1.00	0.944		mg/L		94	85 - 115
Beryllium	1.00	1.09		mg/L		109	85 - 115
Thallium	1.00	0.993		mg/L		99	85 - 115

# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCSD 580-298225/16-A**  
**Matrix: Water**  
**Analysis Batch: 298325**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 298225**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD
							Limits	RPD	
Arsenic	1.00	1.04		mg/L		104	85 - 115	1	20
Antimony	1.00	0.961		mg/L		96	85 - 115	2	20
Beryllium	1.00	1.09		mg/L		109	85 - 115	0	20
Thallium	1.00	0.984		mg/L		98	85 - 115	1	20

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# Lab Chronicle

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

**Client Sample ID: MW-1-030819**

**Lab Sample ID: 590-10541-1**

**Date Collected: 03/08/19 12:30**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	298225	04/08/19 18:01	T1H	TAL SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	298325	04/09/19 16:54	FCW	TAL SEA
Total/NA	Prep	200.8			50 mL	50 mL	298028	04/04/19 15:12	JKM	TAL SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	298260	04/05/19 13:37	FCW	TAL SEA

**Client Sample ID: MW-2-030819**

**Lab Sample ID: 590-10541-2**

**Date Collected: 03/08/19 14:03**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	298225	04/08/19 18:01	T1H	TAL SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	298325	04/09/19 16:58	FCW	TAL SEA
Total/NA	Prep	200.8			50 mL	50 mL	298028	04/04/19 15:12	JKM	TAL SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	298260	04/05/19 13:41	FCW	TAL SEA

**Client Sample ID: MW-3-030819**

**Lab Sample ID: 590-10541-3**

**Date Collected: 03/08/19 13:30**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	298225	04/08/19 18:01	T1H	TAL SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	298325	04/09/19 17:02	FCW	TAL SEA
Total/NA	Prep	200.8			50 mL	50 mL	298028	04/04/19 15:12	JKM	TAL SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	298260	04/05/19 13:44	FCW	TAL SEA

**Client Sample ID: MW-4-030819**

**Lab Sample ID: 590-10541-4**

**Date Collected: 03/08/19 13:00**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			50 mL	50 mL	298225	04/08/19 18:01	T1H	TAL SEA
Dissolved	Analysis	200.8		1	50 mL	50 mL	298325	04/09/19 17:05	FCW	TAL SEA
Total/NA	Prep	200.8			50 mL	50 mL	298028	04/04/19 15:12	JKM	TAL SEA
Total/NA	Analysis	200.8		1	50 mL	50 mL	298260	04/05/19 13:48	FCW	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



# Accreditation/Certification Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

## Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-025	12-07-19
Oregon	NELAP	10	4137	12-07-19
Washington	State Program	10	C569	01-06-20

## Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-20
ANAB	DoD / DOE		L2236	01-19-22
ANAB	ISO/IEC 17025		L2236	01-19-22
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-20

# Method Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

Job ID: 590-10541-2

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SEA
200.8	Preparation, Total Metals	EPA	TAL SEA

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



TestAmerica Spokane  
 11922 East 1st Ave  
 Spokane, WA 99206  
 Phone (509) 924-9200 Fax (509) 924-9290

Chain of Custody Record



**Client Information**  
 Client Contact: **Kate Larmer**  
 Phone: **509-329-3419**  
 Company: **Washington State Dept of Ecology**  
 Address: **4601 N. Monroe**  
 City: **Spokane**  
 State, Zip: **WA, 99205**  
 Phone: **509-329-3419(Tel)**  
 Email: **khalk61@ecy.wa.gov**  
 Project Name: **STURBEFIELD SAUWKE YARD**  
 Site: **59001751**

**Sampler:** **Kate Larmer**  
**Lab P/N:** **Arrington, Randee E**  
**Phone:** **509-329-3419**  
**E-Mail:** **randee.arrington@testamericainc.com**  
**Carrier Tracking No(s):**  
**Due Date Requested:**  
**TAT Requested (days):** **STANDARD**  
**PO #:**  
**Purchase Order not required**  
**WO #:**

**Analysis Requested**  
 **Field Filtered Sample (Yes or No)**  
 **Perform MS/MSD (Yes or No)**  
 **200.7/245.1 Total Priority Pollutant Metals**  
 **200.7/245.1 Dissolved Priority Pollutant Metals**  
**Preservation Codes:**  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - NaHSO4  
 F - MeOH  
 G - Amchlor  
 H - Ascorbic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 M - Hexane  
 N - None  
 O - AsH9O2  
 P - Na2OAS  
 Q - Na2SO3  
 R - Na2S2O3  
 S - H2SO4  
 T - TSP Dodecylhydrate  
 U - Acetone  
 V - MCAA  
 W - pH 4.5  
 Z - other (specify)  
 Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Overstool, BT=Blank, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
MW-1-030819	3/8/19	1230	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
MW-2-030819		1403	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
MW-3-030819		1330	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	
MW-4-030819		1300	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
**Deliverable Requested:** I, II, III, IV, Other (specify)  
**Special Instructions/QC Requirements:**  
 Return To Client  Disposal By Lab  Archive For  Months  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

**Empty Kit Relinquished by:** **Kate Larmer** **Date:** **3/8/19** **Time:** **15:40**  
**Relinquished by:** **Kate Larmer** **Date/Time:** **3/8/19 15:40** **Company:** **Ecology**  
**Relinquished by:** **Movica Steele** **Date/Time:** **3/11/19 15:10** **Company:** **TASPO**  
**Custody Seals Intact:**  Yes  No **Custody Seal No.:**  
**Cooler Temperature(s) °C and Other Remarks:**  
**Method of Shipment:**

S:vic 19006



## Login Sample Receipt Checklist

Client: Washington State Dept of Ecology

Job Number: 590-10541-2

**Login Number: 10541**

**List Number: 1**

**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

## Login Sample Receipt Checklist

Client: Washington State Dept of Ecology

Job Number: 590-10541-2

**Login Number: 10541**

**List Number: 2**

**Creator: Hobbs, Kenneth F**

**List Source: Eurofins TestAmerica, Seattle**

**List Creation: 03/30/19 09:08 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Washington State Dept of Ecology

Job Number: 590-10541-2

**Login Number: 10541**  
**List Number: 3**  
**Creator: Hobbs, Kenneth F**

**List Source: Eurofins TestAmerica, Seattle**  
**List Creation: 03/30/19 09:17 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR5=-0.2/-0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane

11922 East 1st Ave

Spokane, WA 99206

Tel: (509)924-9200

TestAmerica Job ID: 590-10541-1

Client Project/Site: Stubblefield Salvage Yard

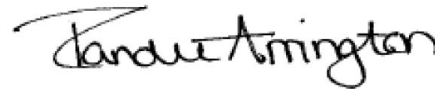
For:

Washington State Dept of Ecology

4601 N. Monroe

Spokane, Washington 99205

Attn: Katie Larimer



Authorized for release by:

3/25/2019 5:15:42 PM

Randee Arrington, Project Manager II

(509)924-9200

[randee.arrington@testamericainc.com](mailto:randee.arrington@testamericainc.com)

### LINKS

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results through

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

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**Job ID: 590-10541-1**

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**Laboratory: TestAmerica Spokane**

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## Narrative

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### Receipt

The samples were received on 3/11/2019 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

### Metals

Method 200.7 Rev 4.4: The initial calibration verification (ICV) associated with batch 590-21275 recovered above the upper control limit for Antimony. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported.

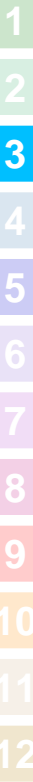
Method 200.7 Rev 4.4: The initial calibration verification (ICV) associated with batch 590-21465 recovered above the upper control limit for Antimony. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported.

Method 200.7 Rev 4.4: The initial calibration verification (ICV) associated with batch 590-21437 recovered above the upper control limit for Beryllium. The samples associated with this ICV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1-030819 (590-10541-1), MW-2-030819 (590-10541-2), MW-3-030819 (590-10541-3), MW-4-030819 (590-10541-4), (ICV 590-21437/5) and (590-10529-A-2-B DU).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Sample Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10541-1	MW-1-030819	Water	03/08/19 12:30	03/11/19 14:40
590-10541-2	MW-2-030819	Water	03/08/19 14:03	03/11/19 14:40
590-10541-3	MW-3-030819	Water	03/08/19 13:30	03/11/19 14:40
590-10541-4	MW-4-030819	Water	03/08/19 13:00	03/11/19 14:40

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# Definitions/Glossary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Client Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-1-030819**

**Lab Sample ID: 590-10541-1**

**Date Collected: 03/08/19 12:30**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

**Method: 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^	0.050		mg/L		03/11/19 14:58	03/12/19 12:01	1
Arsenic	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:01	1
Beryllium	ND	^	0.0030		mg/L		03/11/19 14:58	03/12/19 12:01	1
Cadmium	ND		0.0040		mg/L		03/11/19 14:58	03/12/19 12:01	1
Chromium	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:01	1
Copper	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:01	1
Lead	ND		0.014		mg/L		03/11/19 14:58	03/12/19 12:01	1
Nickel	ND		0.030		mg/L		03/11/19 14:58	03/12/19 12:01	1
Selenium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:01	1
Silver	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:01	1
Thallium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:01	1
Zinc	ND		0.040		mg/L		03/11/19 14:58	03/12/19 12:01	1

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:02	1
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:02	1
Beryllium	ND		0.0030		mg/L		03/22/19 10:54	03/25/19 15:40	1
Cadmium	ND		0.0040		mg/L		03/22/19 10:54	03/25/19 14:02	1
Chromium	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:02	1
Copper	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:02	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 14:02	1
Lead	ND		0.014		mg/L		03/22/19 10:54	03/25/19 14:02	1
Selenium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:02	1
Antimony	ND	^	0.050		mg/L		03/22/19 10:54	03/25/19 14:02	1
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:02	1
Zinc	ND		0.040		mg/L		03/22/19 10:54	03/25/19 14:02	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:00	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:09	1

**Client Sample ID: MW-2-030819**

**Lab Sample ID: 590-10541-2**

**Date Collected: 03/08/19 14:03**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

**Method: 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^	0.050		mg/L		03/11/19 14:58	03/12/19 12:11	1
Arsenic	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:11	1
Beryllium	ND	^	0.0030		mg/L		03/11/19 14:58	03/12/19 12:11	1
Cadmium	ND		0.0040		mg/L		03/11/19 14:58	03/12/19 12:11	1
Chromium	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:11	1
Copper	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:11	1
Lead	ND		0.014		mg/L		03/11/19 14:58	03/12/19 12:11	1
Nickel	ND		0.030		mg/L		03/11/19 14:58	03/12/19 12:11	1

TestAmerica Spokane

# Client Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-2-030819**

**Lab Sample ID: 590-10541-2**

Date Collected: 03/08/19 14:03

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:11	1
Silver	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:11	1
Thallium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:11	1
Zinc	ND		0.040		mg/L		03/11/19 14:58	03/12/19 12:11	1

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:17	1
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:17	1
Beryllium	ND		0.0030		mg/L		03/22/19 10:54	03/25/19 15:54	1
Cadmium	ND		0.0040		mg/L		03/22/19 10:54	03/25/19 14:17	1
Chromium	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:17	1
Copper	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:17	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 14:17	1
Lead	ND		0.014		mg/L		03/22/19 10:54	03/25/19 14:17	1
Selenium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:17	1
Antimony	ND	^	0.050		mg/L		03/22/19 10:54	03/25/19 14:17	1
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:17	1
Zinc	ND		0.040		mg/L		03/22/19 10:54	03/25/19 14:17	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:02	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:11	1

**Client Sample ID: MW-3-030819**

**Lab Sample ID: 590-10541-3**

Date Collected: 03/08/19 13:30

Matrix: Water

Date Received: 03/11/19 14:40

**Method: 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^	0.050		mg/L		03/11/19 14:58	03/12/19 12:15	1
Arsenic	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:15	1
Beryllium	ND	^	0.0030		mg/L		03/11/19 14:58	03/12/19 12:15	1
Cadmium	ND		0.0040		mg/L		03/11/19 14:58	03/12/19 12:15	1
Chromium	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:15	1
Copper	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:15	1
Lead	ND		0.014		mg/L		03/11/19 14:58	03/12/19 12:15	1
Nickel	ND		0.030		mg/L		03/11/19 14:58	03/12/19 12:15	1
Selenium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:15	1
Silver	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:15	1
Thallium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:15	1
Zinc	ND		0.040		mg/L		03/11/19 14:58	03/12/19 12:15	1

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:28	1
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:28	1

TestAmerica Spokane

# Client Sample Results

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-3-030819**

**Lab Sample ID: 590-10541-3**

**Date Collected: 03/08/19 13:30**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0030		mg/L		03/22/19 10:54	03/25/19 16:06	1
Cadmium	ND		0.0040		mg/L		03/22/19 10:54	03/25/19 14:28	1
Chromium	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:28	1
Copper	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:28	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 14:28	1
Lead	ND		0.014		mg/L		03/22/19 10:54	03/25/19 14:28	1
Selenium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:28	1
Antimony	ND	^	0.050		mg/L		03/22/19 10:54	03/25/19 14:28	1
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:28	1
Zinc	ND		0.040		mg/L		03/22/19 10:54	03/25/19 14:28	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:04	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:13	1

**Client Sample ID: MW-4-030819**

**Lab Sample ID: 590-10541-4**

**Date Collected: 03/08/19 13:00**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

**Method: 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	^	0.050		mg/L		03/11/19 14:58	03/12/19 12:18	1
Arsenic	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:18	1
Beryllium	ND	^	0.0030		mg/L		03/11/19 14:58	03/12/19 12:18	1
Cadmium	ND		0.0040		mg/L		03/11/19 14:58	03/12/19 12:18	1
Chromium	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:18	1
Copper	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 12:18	1
Lead	ND		0.014		mg/L		03/11/19 14:58	03/12/19 12:18	1
Nickel	ND		0.030		mg/L		03/11/19 14:58	03/12/19 12:18	1
Selenium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:18	1
Silver	ND		0.020		mg/L		03/11/19 14:58	03/12/19 12:18	1
Thallium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 12:18	1
Zinc	ND		0.040		mg/L		03/11/19 14:58	03/12/19 12:18	1

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.020		mg/L		03/22/19 10:54	03/25/19 14:38	1
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 16:16	1
Beryllium	ND		0.0030		mg/L		03/22/19 10:54	03/25/19 16:16	1
Cadmium	ND		0.0040		mg/L		03/22/19 10:54	03/25/19 14:38	1
Chromium	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:38	1
Copper	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 14:38	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 16:16	1
Lead	ND		0.014		mg/L		03/22/19 10:54	03/25/19 14:38	1
Selenium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 14:38	1
Antimony	ND	^	0.050		mg/L		03/22/19 10:54	03/25/19 14:38	1

TestAmerica Spokane

# Client Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-4-030819**

**Lab Sample ID: 590-10541-4**

**Date Collected: 03/08/19 13:00**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

**Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 16:16	1
Zinc	ND		0.040		mg/L		03/22/19 10:54	03/25/19 14:38	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:07	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 12:16	1

# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 590-21266/2-A**  
**Matrix: Water**  
**Analysis Batch: 21275**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21266**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020		mg/L		03/11/19 14:58	03/12/19 10:47	1
Beryllium	ND	^	0.0030		mg/L		03/11/19 14:58	03/12/19 10:47	1
Cadmium	ND		0.0040		mg/L		03/11/19 14:58	03/12/19 10:47	1
Chromium	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 10:47	1
Copper	ND		0.0080		mg/L		03/11/19 14:58	03/12/19 10:47	1
Lead	ND		0.014		mg/L		03/11/19 14:58	03/12/19 10:47	1
Nickel	ND		0.030		mg/L		03/11/19 14:58	03/12/19 10:47	1
Selenium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 10:47	1
Antimony	ND	^	0.050		mg/L		03/11/19 14:58	03/12/19 10:47	1
Silver	ND		0.020		mg/L		03/11/19 14:58	03/12/19 10:47	1
Thallium	ND		0.050		mg/L		03/11/19 14:58	03/12/19 10:47	1
Zinc	ND		0.040		mg/L		03/11/19 14:58	03/12/19 10:47	1

**Lab Sample ID: LCS 590-21266/1-A**  
**Matrix: Water**  
**Analysis Batch: 21275**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21266**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.08		mg/L		104	85 - 115
Beryllium	1.00	1.09	^	mg/L		109	85 - 115
Cadmium	1.00	1.04		mg/L		104	85 - 115
Chromium	1.00	1.06		mg/L		106	85 - 115
Copper	1.00	0.979		mg/L		98	85 - 115
Lead	1.00	1.07		mg/L		107	85 - 115
Nickel	1.00	1.10		mg/L		110	85 - 115
Selenium	2.00	2.15		mg/L		108	85 - 115
Antimony	1.00	1.11	^	mg/L		111	85 - 115
Silver	0.100	0.0993		mg/L		99	85 - 115
Thallium	2.00	2.19		mg/L		109	85 - 115
Zinc	1.00	1.05		mg/L		105	85 - 115

**Lab Sample ID: MB 590-21425/2-A**  
**Matrix: Water**  
**Analysis Batch: 21465**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21425**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 13:59	1
Cadmium	ND		0.0040		mg/L		03/22/19 10:54	03/25/19 13:59	1
Chromium	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 13:59	1
Copper	ND		0.0080		mg/L		03/22/19 10:54	03/25/19 13:59	1
Lead	ND		0.014		mg/L		03/22/19 10:54	03/25/19 13:59	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 13:59	1
Selenium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 13:59	1
Antimony	ND	^	0.050		mg/L		03/22/19 10:54	03/25/19 13:59	1
Silver	ND		0.020		mg/L		03/22/19 10:54	03/25/19 13:59	1
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 13:59	1
Zinc	ND		0.040		mg/L		03/22/19 10:54	03/25/19 13:59	1

TestAmerica Spokane

# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: MB 590-21425/2-A**  
**Matrix: Water**  
**Analysis Batch: 21466**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21425**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.020		mg/L		03/22/19 10:54	03/25/19 15:36	1
Beryllium	ND		0.0030		mg/L		03/22/19 10:54	03/25/19 15:36	1
Nickel	ND		0.030		mg/L		03/22/19 10:54	03/25/19 15:36	1
Thallium	ND		0.050		mg/L		03/22/19 10:54	03/25/19 15:36	1

**Lab Sample ID: LCS 590-21425/1-A**  
**Matrix: Water**  
**Analysis Batch: 21465**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21425**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.88		mg/L		94	85 - 115
Cadmium	1.00	1.03		mg/L		103	85 - 115
Chromium	1.00	0.993		mg/L		99	85 - 115
Copper	1.00	0.953		mg/L		95	85 - 115
Lead	1.00	1.04		mg/L		104	85 - 115
Nickel	1.00	1.00		mg/L		100	85 - 115
Selenium	2.00	1.97		mg/L		99	85 - 115
Antimony	1.00	1.02	^	mg/L		102	85 - 115
Silver	0.100	0.0964		mg/L		96	85 - 115
Thallium	2.00	2.06		mg/L		103	85 - 115
Zinc	1.00	1.03		mg/L		103	85 - 115

**Lab Sample ID: LCS 590-21425/1-A**  
**Matrix: Water**  
**Analysis Batch: 21466**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21425**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.91		mg/L		95	85 - 115
Beryllium	1.00	1.02		mg/L		102	85 - 115
Nickel	1.00	1.03		mg/L		103	85 - 115
Thallium	2.00	2.06		mg/L		103	85 - 115

**Lab Sample ID: 590-10541-2 MS**  
**Matrix: Water**  
**Analysis Batch: 21465**

**Client Sample ID: MW-2-030819**  
**Prep Type: Dissolved**  
**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		2.00	1.83		mg/L		92	70 - 130
Cadmium	ND		1.00	1.04		mg/L		104	70 - 130
Chromium	ND		1.00	0.965		mg/L		96	70 - 130
Copper	ND		1.00	0.947		mg/L		95	70 - 130
Lead	ND		1.00	1.04		mg/L		104	70 - 130
Nickel	ND		1.00	0.965		mg/L		97	70 - 130
Selenium	ND		2.00	1.92		mg/L		96	70 - 130
Antimony	ND	^	1.00	1.00	^	mg/L		100	70 - 130
Silver	ND		0.100	0.0928		mg/L		93	70 - 130
Thallium	ND		2.00	1.98		mg/L		99	70 - 130
Zinc	ND		1.00	0.989		mg/L		99	70 - 130

TestAmerica Spokane



# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: 590-10541-2 MS**

**Matrix: Water**

**Analysis Batch: 21466**

**Client Sample ID: MW-2-030819**

**Prep Type: Dissolved**

**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Arsenic	ND		2.00	1.91		mg/L		96	70 - 130	
Beryllium	ND		1.00	1.02		mg/L		102	70 - 130	
Nickel	ND		1.00	1.02		mg/L		102	70 - 130	
Thallium	ND		2.00	2.03		mg/L		102	70 - 130	

**Lab Sample ID: 590-10541-2 MSD**

**Matrix: Water**

**Analysis Batch: 21466**

**Client Sample ID: MW-2-030819**

**Prep Type: Dissolved**

**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Arsenic	ND		2.00	1.83		mg/L		91	70 - 130	0	20	
Cadmium	ND		1.00	1.05		mg/L		105	70 - 130	1	20	
Chromium	ND		1.00	0.961		mg/L		96	70 - 130	0	20	
Copper	ND		1.00	0.955		mg/L		95	70 - 130	1	20	
Lead	ND		1.00	1.03		mg/L		103	70 - 130	1	20	
Nickel	ND		1.00	0.961		mg/L		96	70 - 130	0	20	
Selenium	ND		2.00	1.93		mg/L		97	70 - 130	0	20	
Antimony	ND	^	1.00	0.994	^	mg/L		99	70 - 130	1	20	
Silver	ND		0.100	0.0927		mg/L		93	70 - 130	0	20	
Thallium	ND		2.00	1.97		mg/L		99	70 - 130	0	20	
Zinc	ND		1.00	0.985		mg/L		98	70 - 130	0	20	

**Lab Sample ID: 590-10541-2 MSD**

**Matrix: Water**

**Analysis Batch: 21466**

**Client Sample ID: MW-2-030819**

**Prep Type: Dissolved**

**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits	RPD	Limit	
Arsenic	ND		2.00	1.94		mg/L		97	70 - 130	1	20	
Beryllium	ND		1.00	1.03		mg/L		103	70 - 130	1	20	
Nickel	ND		1.00	1.03		mg/L		103	70 - 130	1	20	
Thallium	ND		2.00	2.05		mg/L		103	70 - 130	1	20	

**Lab Sample ID: 590-10541-1 DU**

**Matrix: Water**

**Analysis Batch: 21465**

**Client Sample ID: MW-1-030819**

**Prep Type: Dissolved**

**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	RPD	
			Result	Qualifier				RPD	Limit
Arsenic	ND		ND		mg/L		NC	20	
Cadmium	ND		ND		mg/L		NC	20	
Chromium	ND		ND		mg/L		NC	20	
Copper	ND		ND		mg/L		NC	20	
Lead	ND		ND		mg/L		NC	20	
Nickel	ND		ND		mg/L		NC	20	
Selenium	ND		ND		mg/L		NC	20	
Antimony	ND	^	ND	^	mg/L		NC	20	
Silver	ND		ND		mg/L		NC	20	
Thallium	ND		ND		mg/L		NC	20	
Zinc	ND		ND		mg/L		NC	20	

TestAmerica Spokane

# QC Sample Results

Client: Washington State Dept of Ecology  
 Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: 590-10541-1 DU**  
**Matrix: Water**  
**Analysis Batch: 21466**

**Client Sample ID: MW-1-030819**  
**Prep Type: Dissolved**  
**Prep Batch: 21425**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	ND		ND		mg/L		NC	20
Beryllium	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20

## Method: 245.1 - Mercury (CVAA)

**Lab Sample ID: MB 590-21406/9-A**  
**Matrix: Water**  
**Analysis Batch: 21427**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21406**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.20		ug/L		03/21/19 11:02	03/22/19 11:32	1

**Lab Sample ID: LCS 590-21406/8-A**  
**Matrix: Water**  
**Analysis Batch: 21427**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21406**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hg	2.00	2.02		ug/L		101	85 - 115

# Lab Chronicle

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-1-030819**

**Date Collected: 03/08/19 12:30**

**Date Received: 03/11/19 14:40**

**Lab Sample ID: 590-10541-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21465	03/25/19 14:02	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21466	03/25/19 15:40	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21275	03/12/19 12:01	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21437	03/12/19 12:01	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Dissolved	Analysis	245.1		1			21427	03/22/19 12:09	JSP	TAL SPK
Total/NA	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Total/NA	Analysis	245.1		1			21427	03/22/19 12:00	JSP	TAL SPK

**Client Sample ID: MW-2-030819**

**Date Collected: 03/08/19 14:03**

**Date Received: 03/11/19 14:40**

**Lab Sample ID: 590-10541-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21465	03/25/19 14:17	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21466	03/25/19 15:54	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21275	03/12/19 12:11	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21437	03/12/19 12:11	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Dissolved	Analysis	245.1		1			21427	03/22/19 12:11	JSP	TAL SPK
Total/NA	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Total/NA	Analysis	245.1		1			21427	03/22/19 12:02	JSP	TAL SPK

**Client Sample ID: MW-3-030819**

**Date Collected: 03/08/19 13:30**

**Date Received: 03/11/19 14:40**

**Lab Sample ID: 590-10541-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

**Client Sample ID: MW-3-030819**

**Lab Sample ID: 590-10541-3**

**Date Collected: 03/08/19 13:30**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	200.7 Rev 4.4		1			21465	03/25/19 14:28	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21466	03/25/19 16:06	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21275	03/12/19 12:15	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21437	03/12/19 12:15	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Dissolved	Analysis	245.1		1			21427	03/22/19 12:13	JSP	TAL SPK
Total/NA	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Total/NA	Analysis	245.1		1			21427	03/22/19 12:04	JSP	TAL SPK

**Client Sample ID: MW-4-030819**

**Lab Sample ID: 590-10541-4**

**Date Collected: 03/08/19 13:00**

**Matrix: Water**

**Date Received: 03/11/19 14:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21465	03/25/19 14:38	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	200.7			50 mL	50 mL	21425	03/22/19 10:54	JSP	TAL SPK
Dissolved	Analysis	200.7 Rev 4.4		1			21466	03/25/19 16:16	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21275	03/12/19 12:18	JSP	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	21266	03/11/19 14:58	JSP	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			21437	03/12/19 12:18	JSP	TAL SPK
Dissolved	Filtration	FILTRATION			250 mL	250 mL	21396	03/20/19 15:28	JSP	TAL SPK
Dissolved	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Dissolved	Analysis	245.1		1			21427	03/22/19 12:16	JSP	TAL SPK
Total/NA	Prep	245.1			50 mL	50 mL	21406	03/21/19 11:02	JSP	TAL SPK
Total/NA	Analysis	245.1		1			21427	03/22/19 12:07	JSP	TAL SPK

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# Accreditation/Certification Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

## Laboratory: TestAmerica Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C569	01-06-20

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# Method Summary

Client: Washington State Dept of Ecology  
Project/Site: Stubblefield Salvage Yard

TestAmerica Job ID: 590-10541-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SPK
245.1	Mercury (CVAA)	EPA	TAL SPK
200.7	Preparation, Total Metals	EPA	TAL SPK
245.1	Preparation, Mercury	EPA	TAL SPK
FILTRATION	Sample Filtration	None	TAL SPK

**Protocol References:**

EPA = US Environmental Protection Agency  
None = None

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200







## Login Sample Receipt Checklist

Client: Washington State Dept of Ecology

Job Number: 590-10541-1

**Login Number: 10541**

**List Source: TestAmerica Spokane**

**List Number: 1**

**Creator: O'Toole, Maria C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

## ANALYTICAL REPORT

Eurofins TestAmerica, Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

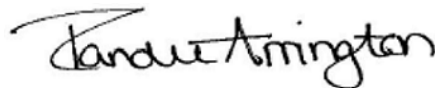
Laboratory Job ID: 590-12490-1

Client Project/Site: Stubblefield Salvage Yard/504-139-00

**For:**

GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: JR Sugalski



*Authorized for release by:  
1/8/2020 9:58:15 AM*

Randee Arrington, Project Manager II  
(509)924-9200  
[randee.arrington@testamericainc.com](mailto:randee.arrington@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

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**Job ID: 590-12490-1**

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**Laboratory: Eurofins TestAmerica, Spokane**

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## Narrative

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### Receipt

The samples were received on 12/20/2019 1:34 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

### Metals

Method 6010C: The low level continuing calibration verification (CCVL) associated with batch 590-25844 recovered above the upper control limit for Thallium. The samples associated with this CCV were either >10x or non-detects for the affected analytes; therefore, the data have been reported.

Method 6010C: The following sample was diluted due to the abundance of non-target analytes (Titanium): HA 4 1-2 (590-12490-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-12490-1	HA 1 3.5-4	Solid	11/19/19 11:47	12/20/19 13:34	
590-12490-2	HA 2 3-4	Solid	11/19/19 12:10	12/20/19 13:34	
590-12490-3	HA 3 1-2	Solid	11/19/19 12:28	12/20/19 13:34	
590-12490-4	HA 4 1-2	Solid	11/19/19 12:45	12/20/19 13:34	
590-12490-5	HA 5 3-4	Solid	11/19/19 12:57	12/20/19 13:34	

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# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

## Client Sample ID: HA 1 3.5-4

Date Collected: 11/19/19 11:47

Date Received: 12/20/19 13:34

## Lab Sample ID: 590-12490-1

Matrix: Solid

Percent Solids: 84.2

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	^	2.5	0.34	mg/Kg	☼	12/30/19 11:16	12/30/19 19:58	1

### Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.070	J	0.44	0.060	mg/Kg	☼	12/26/19 10:47	01/07/20 15:12	10

## Client Sample ID: HA 2 3-4

Date Collected: 11/19/19 12:10

Date Received: 12/20/19 13:34

## Lab Sample ID: 590-12490-2

Matrix: Solid

Percent Solids: 75.2

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	^	2.4	0.33	mg/Kg	☼	12/30/19 11:16	12/30/19 20:02	1

### Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.47	0.064	mg/Kg	☼	12/26/19 10:47	01/07/20 15:43	10

## Client Sample ID: HA 3 1-2

Date Collected: 11/19/19 12:28

Date Received: 12/20/19 13:34

## Lab Sample ID: 590-12490-3

Matrix: Solid

Percent Solids: 85.1

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	^	2.3	0.32	mg/Kg	☼	12/30/19 11:16	12/30/19 20:05	1

### Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.068	J	0.42	0.058	mg/Kg	☼	12/26/19 10:47	01/07/20 15:45	10

## Client Sample ID: HA 4 1-2

Date Collected: 11/19/19 12:45

Date Received: 12/20/19 13:34

## Lab Sample ID: 590-12490-4

Matrix: Solid

Percent Solids: 80.5

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		4.7	0.66	mg/Kg	☼	12/30/19 11:16	12/31/19 17:30	2

### Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.081	J	0.48	0.066	mg/Kg	☼	12/26/19 10:47	01/07/20 15:48	10

## Client Sample ID: HA 5 3-4

Date Collected: 11/19/19 12:57

Date Received: 12/20/19 13:34

## Lab Sample ID: 590-12490-5

Matrix: Solid

Percent Solids: 76.8

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	^	2.2	0.31	mg/Kg	☼	12/30/19 11:16	12/30/19 20:12	1

### Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.40	0.056	mg/Kg	☼	12/26/19 10:47	01/07/20 15:50	10

Eurofins TestAmerica, Spokane

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-25837/2-A  
 Matrix: Solid  
 Analysis Batch: 25844

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 25837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND	^	2.5	0.35	mg/Kg		12/30/19 11:16	12/30/19 18:49	1

Lab Sample ID: LCS 590-25837/1-A  
 Matrix: Solid  
 Analysis Batch: 25844

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 25837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	100	103	^	mg/Kg		103	80 - 120

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-319639/13-A  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.20	0.028	mg/Kg		12/26/19 10:47	01/07/20 15:09	5

Lab Sample ID: LCS 580-319639/14-A  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 580-319639/15-A  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	50.0	48.9		mg/Kg		98	80 - 120	1	20

Lab Sample ID: 590-12490-1 MS  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: HA 1 3.5-4  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	0.070	J	54.9	52.8		mg/Kg	☼	96	80 - 120

Lab Sample ID: 590-12490-1 MSD  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: HA 1 3.5-4  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	0.070	J	54.8	52.4		mg/Kg	☼	96	80 - 120	1	20

# QC Sample Results

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

## Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 590-12490-1 DU  
 Matrix: Solid  
 Analysis Batch: 320164

Client Sample ID: HA 1 3.5-4  
 Prep Type: Total/NA  
 Prep Batch: 319639

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	0.070	J	0.0771	J	mg/Kg	⊛	9	20

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- 11
- 12

# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

**Client Sample ID: HA 1 3.5-4**

**Date Collected: 11/19/19 11:47**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			25772	12/23/19 12:06	AMB	TAL SPK

**Client Sample ID: HA 1 3.5-4**

**Date Collected: 11/19/19 11:47**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-1**

**Matrix: Solid**

**Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.21 g	50 mL	25837	12/30/19 11:16	JSP	TAL SPK
Total/NA	Analysis	6010C		1			25844	12/30/19 19:58	JSP	TAL SPK
Total/NA	Prep	3050B			1.0821 g	50 mL	319639	12/26/19 10:47	T1H	TAL SEA
Total/NA	Analysis	6020B		10	50 mL	50 mL	320164	01/07/20 15:12	FCW	TAL SEA

**Client Sample ID: HA 2 3-4**

**Date Collected: 11/19/19 12:10**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			25772	12/23/19 12:06	AMB	TAL SPK

**Client Sample ID: HA 2 3-4**

**Date Collected: 11/19/19 12:10**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-2**

**Matrix: Solid**

**Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.40 g	50 mL	25837	12/30/19 11:16	JSP	TAL SPK
Total/NA	Analysis	6010C		1			25844	12/30/19 20:02	JSP	TAL SPK
Total/NA	Prep	3050B			1.1383 g	50 mL	319639	12/26/19 10:47	T1H	TAL SEA
Total/NA	Analysis	6020B		10	50 mL	50 mL	320164	01/07/20 15:43	FCW	TAL SEA

**Client Sample ID: HA 3 1-2**

**Date Collected: 11/19/19 12:28**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			25772	12/23/19 12:06	AMB	TAL SPK

**Client Sample ID: HA 3 1-2**

**Date Collected: 11/19/19 12:28**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-3**

**Matrix: Solid**

**Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.28 g	50 mL	25837	12/30/19 11:16	JSP	TAL SPK
Total/NA	Analysis	6010C		1			25844	12/30/19 20:05	JSP	TAL SPK
Total/NA	Prep	3050B			1.1072 g	50 mL	319639	12/26/19 10:47	T1H	TAL SEA
Total/NA	Analysis	6020B		10	50 mL	50 mL	320164	01/07/20 15:45	FCW	TAL SEA

Eurofins TestAmerica, Spokane

# Lab Chronicle

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

**Client Sample ID: HA 4 1-2**

**Date Collected: 11/19/19 12:45**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			25772	12/23/19 12:06	AMB	TAL SPK

**Client Sample ID: HA 4 1-2**

**Date Collected: 11/19/19 12:45**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-4**

**Matrix: Solid**

**Percent Solids: 80.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.31 g	50 mL	25837	12/30/19 11:16	JSP	TAL SPK
Total/NA	Analysis	6010C		2			25865	12/31/19 17:30	JSP	TAL SPK
Total/NA	Prep	3050B			1.0344 g	50 mL	319639	12/26/19 10:47	T1H	TAL SEA
Total/NA	Analysis	6020B		10	50 mL	50 mL	320164	01/07/20 15:48	FCW	TAL SEA

**Client Sample ID: HA 5 3-4**

**Date Collected: 11/19/19 12:57**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			25772	12/23/19 12:06	AMB	TAL SPK

**Client Sample ID: HA 5 3-4**

**Date Collected: 11/19/19 12:57**

**Date Received: 12/20/19 13:34**

**Lab Sample ID: 590-12490-5**

**Matrix: Solid**

**Percent Solids: 76.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.47 g	50 mL	25837	12/30/19 11:16	JSP	TAL SPK
Total/NA	Analysis	6010C		1			25844	12/30/19 20:12	JSP	TAL SPK
Total/NA	Prep	3050B			1.2882 g	50 mL	319639	12/26/19 10:47	T1H	TAL SEA
Total/NA	Analysis	6020B		10	50 mL	50 mL	320164	01/07/20 15:50	FCW	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



# Accreditation/Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

## Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State Program	C569	01-06-21
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
6010C	3050B	Solid	Thallium
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

## Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Stubblefield Salvage Yard/504-139-00

Job ID: 590-12490-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SPK
6020B	Metals (ICP/MS)	SW846	TAL SEA
Moisture	Percent Moisture	EPA	TAL SPK
3050B	Preparation, Metals	SW846	TAL SEA
3050B	Preparation, Metals	SW846	TAL SPK

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11922 E. First Ave., Spokane WA 99206-5302  
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>GeoEngineers</u>		INVOICE TO: <u>523 E 2nd Ave</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.					
REPORT TO: <u>523 E 2nd Ave</u>		Spokane, WA 99202							
ADDRESS: <u>Spokane WA 99202</u>		P.O. NUMBER: <u>504-139-00</u>							
PHONE: _____ FAX: _____		PRESERVATIVE							
PROJECT NAME: <u>Stubblefield</u>		REQUESTED ANALYSES							
PROJECT NUMBER: _____									
SAMPLED BY: <u>S Treccani, K Larimer</u>									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Thallium 6010	Thallium 6030			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 HA1 3.5-4	11-19-19 1147	X	X			S	1		
2 HA2 3-4	↓ 1210	↓	↓			↓	↓		
3 HA3 1-2	↓ 1228	↓	↓			↓	↓		
4 HA4 1-2	↓ 1245	↓	↓			↓	↓		
5 HA5 3-4	↓ 1257	↓	↓			↓	↓		
6									
7									
8									
9									
10									
RELEASED BY: <u>Sandra Treccani</u>		DATE: <u>12-20-19</u>		RECEIVED BY: <u>Matt Grocki</u>		DATE: <u>12/20/19</u>			
PRINT NAME: <u>Sandra Treccani</u>		FIRM: <u>Ecology</u>		PRINT NAME: <u>Matt Grocki</u>		FIRM: <u>TAAP</u>		TIME: <u>13:34</u>	
RELEASED BY: _____		DATE: _____		RECEIVED BY: _____		DATE: _____			
PRINT NAME: _____		FIRM: _____		PRINT NAME: _____		FIRM: _____		TIME: _____	
ADDITIONAL REMARKS:						TEMP: <u>4.3°C</u>		PAGE OF	



**Eurofins TestAmerica, Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



eurofins Environment Testing  
 TestAmerica

<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab PM: Arrington, Randee E		Carrier Tracking No(s):		COC No: 590-5027.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: randee.arrington@testamericainc.com		State of Origin: Washington		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 5755 8th Street East, Tacoma WA, 98424		Due Date Requested: 1/7/2020		Accreditations Required (See note): State Program - Washington		Job #: 590-12490-1	
Phone: 253-922-2310(Tel) 253-922-5047(Fax)		Email:		PO #:		WO #:		<b>Analysis Requested</b> A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Project Name: Stubblefield Salvage Yard/504-139-00		Project #: 59001920		SSOW#:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 60205/30508 (MOD) Thallium		Total Number of containers 1	
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=Comp, G=grab)</b>		<b>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</b>	
HA 3 1-2 (590-12490-3)		11/19/19		12:28 Pacific		Solid		Preservation Code: X	
								Special Instructions/Note:	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Mania Crooke</i>		Date/Time: <i>12/20/19 17:00</i>		Company: <i>TA500</i>		Received by: <i>Jenny H...</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>A1=15</i>			



**Eurofins TestAmerica, Spokane**

11922 East 1st Ave  
 Spokane, WA 99206  
 Phone: 509-924-9200 Fax: 509-924-9290

**Chain of Custody Record**



eurofins Environment Testing  
 TestAmerica

<b>Client Information (Sub Contract Lab)</b>				Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:																																																															
Client Contact:				Phone:		E-Mail:		State of Origin:		Page:																																																															
Shipping/Receiving				Company:		Accreditations Required (See note):		Job #:		Page 1 of 1																																																															
TestAmerica Laboratories, Inc.				Address:		Due Date Requested:		Analysis Requested		Preservation Codes:																																																															
5755 8th Street East,				City:		TAT Requested (days):		<table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																																																														A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
5755 8th Street East,				State, Zip:		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B/3050B (MOD) Thallium		Total Number of containers																																																											
Tacoma				WA, 98424		WO #:																																																																			
Phone:				Project Name:		Project #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B/3050B (MOD) Thallium		Total Number of containers																																																											
253-922-2310(Tel) 253-922-5047(Fax)				Stubblefield Salvage Yard/504-139-00		59001920																																																																			
Email:				Site:		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B/3050B (MOD) Thallium		Total Number of containers																																																											
<b>Sample Identification - Client ID (Lab ID)</b>				<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=comp, G=grab)</b>		<b>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</b>		<b>Field Filtered Sample (Yes or No)</b>		<b>Perform MS/MSD (Yes or No)</b>		<b>6020B/3050B (MOD) Thallium</b>		<b>Total Number of containers</b>		<b>Special Instructions/Note:</b>																																																					
HA 1 3.5-4 (590-12490-1)				11/19/19		11:47 Pacific		Solid				X				1																																																									
HA 2 3-4 (590-12490-2)				11/19/19		12:10 Pacific		Solid				X				1																																																									
HA 4 1-2 (590-12490-4)				11/19/19		12:45 Pacific		Solid				X				1																																																									
HA 5 3-4 (590-12490-5)				11/19/19		12:57 Pacific		Solid				X				1																																																									
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>																																																																									
<b>Possible Hazard Identification</b>												<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																																																													
Unconfirmed												<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																													
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2						Special Instructions/QC Requirements:																																																													
Empty Kit Relinquished by:						Date:						Time:						Method of Shipment:																																																							
Relinquished by: <i>M. Anderson</i>						Date/Time: 12/20/19 14:29						Company: ASPU						Received by: <i>[Signature]</i>						Date/Time: 12/20/19 1429											Company: TASEA																																						
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:											Company:																																						
Relinquished by:						Date/Time:						Company:						Received by:						Date/Time:											Company:																																						
Custody Seals Intact:			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:																																																																			
Δ Yes Δ No																																																																									







# Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 590-12490-1

**Login Number: 12490**  
**List Number: 1**  
**Creator: O'Toole, Maria C**

**List Source: Eurofins TestAmerica, Spokane**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.



## Login Sample Receipt Checklist

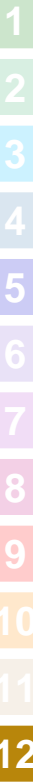
Client: GeoEngineers Inc

Job Number: 590-12490-1

**Login Number: 12490**  
**List Number: 2**  
**Creator: Hobbs, Kenneth F**

**List Source: Eurofins TestAmerica, Seattle**  
**List Creation: 12/21/19 11:34 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**APPENDIX C**  
**Terrestrial Ecological Evaluation**



# Voluntary Cleanup Program

Washington State Department of Ecology  
Toxics Cleanup Program

## TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

**Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.**

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to [www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm](http://www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm).

### Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name:

Facility/Site Address:

Facility/Site No:

VCP Project No.:

### Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name:

Title:

Organization:

Mailing address:

City:

State:

Zip code:

Phone:

Fax:

E-mail:

### Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

#### A. Exclusion from further evaluation.

##### 1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer **Question 2**.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

##### 2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,\* at least 15 feet below the surface.
- All soil contamination is, or will be,\* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,\* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous# undeveloped± land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

\* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

# "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

## B. Simplified evaluation.

### 1. Does the Site qualify for a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

### 2. Did you conduct a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

### 3. Was further evaluation necessary?

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

### 4. If further evaluation was necessary, what did you do?

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

### 5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

#### Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

#### Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

#### Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.



**C. Site-specific evaluation.** A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

**1. Was there a problem?** See WAC 173-340-7493(2).

- Yes    *If you answered "YES," then answer **Question 2** below.*
- No    *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- No issues were identified during the problem formulation step.
  - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

**2. What did you do to resolve the problem?** See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

**3. If you conducted further site-specific evaluations, what methods did you use?**

*Check all that apply. See WAC 173-340-7493(3).*

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. If so, please specify:

**4. What was the result of those evaluations?**

- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

**5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?**

- Yes    If so, please identify the Ecology staff who approved those steps:
- No

## Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.

<p><b>Northwest Region:</b>          Attn: VCP Coordinator          3190 160<sup>th</sup> Ave. SE          Bellevue, WA 98008-5452</p>	<p><b>Central Region:</b>          Attn: VCP Coordinator          1250 West Alder St.          Union Gap, WA 98903-0009</p>
<p><b>Southwest Region:</b>          Attn: VCP Coordinator          P.O. Box 47775          Olympia, WA 98504-7775</p>	<p><b>Eastern Region:</b>          Attn: VCP Coordinator          N. 4601 Monroe          Spokane WA 99205-1295</p>

