AS-BUILT CONSTRUCTION COMPLETE REPORT

FORMER TRUCK CITY SITE 3216 OLD HIGHWAY 99 SOUTH MOUNT VERNON, WASHINGTON

Prepared for

SKAGIT COUNTY

MOUNT VERNON, WASHINGTON

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The material and data in this report were prepared under the supervision and direction of the undersigned.

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ACRONYMS AND ABBREVIATIONS

AGI Applied Geotechnology, Inc.

bgs below ground surface

BTEX benzene, toluene, ethylbenzene, and total xylenes

CEMEX CEMEX USA chemical of interest

County Skagit County, Washington CSM conceptual site model

CUL cleanup level

DRO diesel-range organic

EAS Environmental Abatement Services, Inc. Ecology Washington State Department of Ecology

FBI Friedman and Bruya, Inc.
GAC granular reactivated carbon
GRO gasoline-range organic

HCID Hydrocarbon Identification Method indicator hazardous substance

ISBR in situ bioremediation
MFA Maul Foster & Alongi, Inc.
mg/kg milligrams per kilogram

MTC Materials Testing & Consulting, Inc.

MTCA Model Toxics Control Act

NWTPH Northwest Total Petroleum Hydrocarbons

OWTS on-site water treatment system
PCS petroleum-contaminated soil
PID photoionization detector

ppm parts per million POC point of compliance

PPCD Prospective Purchaser Consent Decree

Property proposed Skagit County Jail property (five parcels)
RAP/EDR Remedial Action Plan and Engineering Design Report

RE remedial excavation

RI/FS remedial investigation and feasibility study

Site former Truck City Truck Stop facility at 3216 Old

Highway 99 S., Mount Vernon, Washington, Ecology Facility Site No. 2673, Cleanup Site No. 5176, Agreed

Order 15 2 00056 2

TPH total petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

UST underground storage tank
VOC volatile organic compound
WAC Washington Administrative Code

Wyser Construction, Inc.

INTRODUCTION

On behalf of Skagit County, Washington (County), Maul Foster & Alongi, Inc. (MFA) has prepared this report describing remedial action activities completed at the former Truck City Truck Stop facility, located at 3216 Old Highway 99 South, Mount Vernon, Skagit County, Washington, Washington State Department of Ecology (Ecology) Facility Site No. 2673, Cleanup Site ID: 5176, Agreed Order 15 2 00056 2 (Site) (Figure 1-1). The Site, in combination with adjacent parcels, is proposed for construction of the Skagit County Jail facility. The proposed jail property (Property) comprises the following five parcels, all of which are owned by the County: Skagit County parcels P29546 (Truck City parcel) and four adjoining undeveloped parcels to the south, P119262, P119263, P119265, and P119267 (Figure 1-2). The Truck City parcel comprises the entire Site, based on data available at this time. The Truck City parcel was developed by 1953 and operated as a truck stop and restaurant until the truck stop burned in 1976. The parcel was redeveloped to its current configuration in 1978, and operations have not changed since then. Prior to purchase of the five parcels, the County entered into a Prospective Purchaser Consent Decree in January 2015 with Ecology. The County became the formal owner of the Truck City parcel in February 2015.

From August to October 2015, with oversight from MFA and Ecology, Wyser Construction, Inc. (Wyser) performed structure demolition, asbestos-containing-material and regulated-universal-waste abatement, underground storage tank (UST) decommissioning and site assessment, excavation and disposal of petroleum-contaminated soil (PCS), dewatering of excavation pits, application of in situ bioremediation (ISBR) products with clean backfill soil, and compaction of the Site to grade, as well as other tasks supporting environmental remediation of the Site. The remedial action was completed in accordance with the PPCD.

2 BACKGROUND, PHYSICAL SETTING, AND EXTENT OF CONTAMINATION

2.1 Site Location and Property Conditions

The Site is located in section 32, township 34 north, range 4 east, of the Willamette Meridian (see Figure 1-1). The Site, an 8.01-acre tax parcel (parcel number P29546), is accessed from Old Highway 99 South, adjacent to the west Property boundary (see Figure 1-2). Its surface topography is generally flat.

Before initiating remedial action activities, the Site contained six buildings associated with the former commercial operations that included the Truck City gas station, truck stop and truck wash, restaurant, and retail store. Five of the buildings—the contractor's staging shop, office space, truck wash building, retail store, and restaurant/café—were constructed in 1978.

The gas station pump islands, fueling facilities, and truck scale (weigh station) were located in the western area of the Site. The diesel pump islands and the Site's recently operational USTs were located in the central area of the parcel, adjacent south of the truck wash building. Long-term truck parking was designated in the east area of the Site. The ground surface in the western area of the Site, where fueling operations took place, was asphalt-paved, with little vegetation present. Figure 2-1 presents recent, pre-remedial-action-activity site features and recent investigation locations.

2.2 Overview of Historical Operations and Impacts

The Site was developed by 1953 and operated as a truck stop and restaurant until the truck stop burned in 1976. The parcel was redeveloped to its pre-remedial action configuration in 1978, and operations did not significantly change until they ceased in or about January 2015. Several subsurface investigations were conducted at the Site between 1989 and 2014 to assess potential petroleum-hydrocarbon impacts related to the operation of the retail gasoline station. Ecology completed an interim soil remedial cleanup action in 1993.

Applied Geotechnology, Inc. (AGI) conducted a hydrocarbon assessment of the Site in 1989. AGI advanced eight borings, to approximately 15 to 20 feet below ground surface (bgs), adjacent to the northern, southern, and eastern UST nests; gasoline and diesel pump islands; and truck wash area (see Figure 2-1). Six of the borings were completed as 2-inch-diameter monitoring wells. AGI concluded that gasoline and diesel petroleum hydrocarbon contamination was present in soil and groundwater around the northern and southern UST nests, and the potential exists for off-site migration of these chemicals of interest (COIs). Detected concentrations of gasoline- and diesel-range total petroleum hydrocarbons (TPH) and associated petroleum fuel volatile organic compounds (VOCs), specifically benzene, toluene, and total xylenes, were above Ecology's current Model Toxics Control Act (MTCA) Method A cleanup levels (CULs). Groundwater flow direction at the Site was assessed to be west to southwesterly (AGI, 1989).

Ecology conducted an interim action cleanup in 1993. Seven USTs, 5,000 gallons in capacity each and located in the northern and southern UST nests, were decommissioned and removed along with associated product lines (see Figure 2-1). Two 500-gallon-capacity USTs, as well as a septic tank full of waste oil, encountered during the contaminated-soil-excavation activities were also removed. Ecology reported that, because the septic system had been used for waste-oil disposal and was connected to the parcel's storm drain system, the septic tank may be one of the contaminant sources at this parcel (Ecology, 1993). The interim action removed 6,244 cubic yards of contaminated soil and 89,991 gallons of contaminated water. Final confirmation samples from the stockpiled soil showed detections of gasoline-range TPH below CULs, with residual diesel-range TPH concentrations above CULs.

In 2005, an unknown volume of diesel was spilled at the Site when a truck driver filling a rig allowed an unattended fueling nozzle to fall out of the tank during fueling activities. The spill spread to a ditch (known as Maddox Creek), which is located adjacent to and west of the Site and flows south parallel to Old Highway 99 South to Hickox Road (approximately 0.68 mile south of the Site). This spill went unreported until an Ecology Spills Team traced the source back to the Truck City parcel (Ecology, Environmental Report Tracking System No. 546209, 2005). Sheen was observed in Maddox Creek. Ecology retained NRC Environmental Services to clean up the spill. Absorbent booms and pads were

placed in Maddox Creek. Subsequently, Materials Testing & Consulting, Inc. (MTC) conducted sediment sampling in Maddox Creek, in the vicinity of the Site, to assess whether residual contamination remained in Maddox Creek. Based on current data, sediments in Maddox Creek no longer appear to be impacted by releases at the Site.

MTC conducted an initial Phase II environmental site assessment in February 2014 and a supplemental environmental site assessment in March 2014. Eleven borings were advanced, via a direct-push-probe drilling rig, to a maximum depth of 15 feet bgs. The borings were located in and outside the former excavation remediation area (see Figure 2-1). MTC concluded that impacted soil at concentrations above MTCA CULs for gasoline- and diesel-range TPH existed adjacent to the truck scale (MTC, 2014).

MFA conducted a remedial investigation and feasibility study (RI/FS) in July 2014 that focused on further characterization of the residual impacted areas at the Site, potential off-site migration of contaminants, and addressing data gaps (see Figure 2-2). The site investigation results and risk screening indicate that only TPH and selected VOCs are indicator hazardous substances (IHSs) in soil and groundwater. Exceedances of applicable CULs for these IHSs are localized in soil (depth and areal extent) as well as in groundwater (localized dissolved phase). Human exposure pathways were deemed complete for the identified IHSs in groundwater, while ecological exposure pathways were deemed incomplete.

Findings from collective previous and the recent subsurface investigations and Ecology's interim soil remedial action indicate that historical operations related to the former USTs and gasoline pump islands were the sources of TPH and selected VOC soil and groundwater contamination beneath the Site. MFA also concluded that the lateral and vertical extent of the dissolved-phase TPH plume had been characterized as the result of the RI/FS (MFA, 2014b). Monitoring wells installed adjacent west of the truck scale and downgradient of former USTs/former gasoline pump islands (along the western Site boundary of the Truck City parcel) and near the south and southwestern area of this parcel may serve as sentinel wells to the IHSs exhibited in the dissolved phase in groundwater.

2.3 Geology and Hydrogeology

The Site and vicinity have been mapped as recent alluvium and artificial fill. Alluvium deposits encountered at the Site, at locations of investigation, consist of floodplain sequences ranging from fluvial silty sand and well-sorted sand, to silt with intervening clay. Fill, comprising sandy gravel to gravelly silty sand, is generally present to approximately 3 to 5 feet bgs at the Site, except in the former UST nests, where remedial actions associated with soil cleanup action conducted by Ecology in 1993 resulted in the overexcavation of this area to approximately 9.5 feet bgs.

The matrix of the unconfined shallow aquifer appears to be silty sand. Depth to groundwater, encountered during subsurface exploration activities, was variable throughout the Site, ranging approximately from 3.5 to 9.5 feet bgs. The static water level at monitoring wells installed by MFA in July 2014, TC-1 through TC-6, ranged approximately from 5.80 to 6.45 feet bgs during the groundwater-monitoring event conducted on July 18, 2014. The direction of groundwater migration at the Site during the July 2014 groundwater event, based on professionally surveyed elevations at monitoring wells TC-1 through TC-6, is generally to the south-southeast, with tangent to the west.

AGI reported a west-to-southwesterly groundwater flow direction at the Site during their investigation in October 1989, based on water levels measured from installed monitoring wells. Seasonal groundwater flow direction fluctuations are expected at the Site and vicinity because of the shallow depth to groundwater in the floodplain area. The local and regional discharge points in the area appear to be to the west-southwest, toward Britt Slough and the Skagit River. At their closest points, Britt Slough and the Skagit River are located approximately 0.5 mile and 1.5 miles, respectively, west of the Site. Maddox Creek, located west of the Site, flows south parallel to Old Highway 99 South, intersects at Hickox Road, and flows west from this intersection.

2.4 Nature and Extent of Contamination

Historical subsurface investigations and RIs conducted between 1989 and 2014 identified the following COIs in soil and groundwater at the Site: gasoline-, diesel-, and lube-oil-range TPH; petroleum hydrocarbon associated VOCs (benzene, toluene, ethylbenzene, and total xylenes [BTEX]); arsenic; and lead. Some of these COIs are also confirmed as IHSs, which are defined as chemicals exceeding a CUL at one or more locations.

Soil and groundwater IHSs confirmed at the Site include:

- Gasoline-range TPH
- Diesel-range TPH
- Benzene
- Toluene
- Ethylbenzene
- Total xylenes

One exceedance of the MTCA Method A CUL for arsenic was detected in groundwater during the RI conducted in July 2014. However, the exceedance was attributed to the elevated turbidity of the groundwater sample due to a heavy presence of sediments, and was, therefore, not considered representative of dissolved-phase concentrations in the groundwater at the Site.

Based on findings from Ecology's interim remedial action, previous subsurface investigations, and MFA's 2014 RI, residual PCS was initially believed to be present at four localized areas. These four areas were included in the proposed soil remedial action plan for excavation and ISBR application into clean backfill material.

2.5 Conceptual Site Model

The conceptual site model (CSM) describes potential chemical sources, release mechanisms, environmental transport processes, exposure routes, and receptors. The primary purpose of the CSM is to describe pathways by which human and ecological receptors could be exposed to site-related chemicals. A complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment, (2) an environmental transport medium for a released chemical, (3) a point of potential contact with the impacted medium (referred to as the exposure point), and (4) an exposure route (e.g., soil ingestion) at the exposure point. The CSM describes potential exposure scenarios based on information collected during the site assessment. All

of these components and the relationship between them are fundamental in determining potential adverse effects that could be posed by constituents at the site. A complete CSM for the Site is presented in the RI/FS (MFA, 2014b).

2.6 Point of Compliance

The MTCA cleanup regulation defines the point of compliance (POC) as the point or points where CULs shall be attained. Once CULs are met at the POC, the Site is no longer considered a threat to human health or the environment.

Washington Administrative Code (WAC) 173-340-740(6) defines the POC requirements for soil. WAC 173-340-740(6) states that "for soil CULs based on the protection of groundwater, the POC shall be established in the soils throughout the site," and for soil CULs based on direct contact, "the point of compliance shall be established in the soils throughout the Site from the ground surface to fifteen feet below the ground surface."

Initially, all contaminated soil was to be excavated to a depth of 15 feet bgs, removed, and disposed of off-site at a regulated landfill. During remedial activities at the Site, groundwater was encountered between 7 and 8 feet bgs. The excavation was dewatered and soil samples were collected at approximately 10 feet bgs. Contamination in excess of associated CULs was not detected in soil below approximately 10 feet bgs; therefore, the standard POC is applied to soil at the Site.

For groundwater, the POC is the point or points where the groundwater CULs must be attained for a site to be in compliance with the cleanup standards. Groundwater CULs shall be attained in all groundwater from the POC to the outer boundary of the hazardous-substance plume. A conditional POC may be established if it is not practicable to meet the CULs throughout the site within a reasonable restoration timeframe (WAC 173-340-720(8)(c)). A conditional POC for groundwater is not proposed for the Site at this time.

For surface water, the POC is where Maddox Creek daylights at the southwest corner of the Site property boundary.

2.7 Remedial Action Objectives

Remedial action objectives describe the actions necessary to protect human health and the environment through eliminating, reducing, or otherwise controlling risks posed through each exposure pathway and migration route. These objectives are developed by evaluating the characteristics of the contaminated media, the characteristics of the hazardous substances present, migration and exposure pathways, and potential receptor points.

As a result of past activities on the Truck City parcel, soil on the Site has been contaminated with TPH and ethylbenzene, and groundwater has been contaminated by benzene and gasoline- and diesel-range TPH. The potentially complete exposure pathway for COIs in soil is direct contact with contaminated soils by on-site workers. Persons may also be exposed in the future to volatile contaminants migrating from the subsurface. Soil gas has the potential to migrate, and persons in nearby buildings may be exposed to IHSs that migrate into proposed buildings at the Site. Ecology is unaware of any drinking

water use at or near the site. However, the impacted groundwater is shallow. Future construction workers may be exposed to the impacted shallow groundwater through ingestion, dermal contact, and inhalation of chemicals volatilizing from groundwater.

The remedial objectives were intended to address potential exposure pathways as follows:

- Prevent or minimize direct contact or ingestion of contaminated soil by humans and ecological receptors.
- Prevent or minimize ingestion of contaminated groundwater by humans and ecological receptors.
- Prevent or minimize the potential for migration of contaminants from soil to groundwater.
- Prevent or minimize the potential for migration of contaminants to nearby surface water.
- Prevent or minimize direct contact, inhalation, or ingestion of harmful vapors by human and ecological receptors.

3 ABATEMENT OF ASBESTOS-CONTAINING MATERIALS AND REGULATED WASTE

3.1 Abatement of Asbestos-Containing Materials

An asbestos survey was conducted by Argus Pacific on March 2, 2015. Asbestos-containing material was identified in four of the six buildings. Environmental Abatement Services, Inc. (EAS) performed asbestos abatement by removing asbestos-containing materials from the truck wash building, retail store, restaurant/café, and contractor's staging shop. The asbestos abatement report is included as Appendix A.

3.2 Abatement of Regulated Universal Wastes

Argus Pacific conducted a regulated-building-material assessment of the six buildings on the Site. Regulated universal wastes, including mercury-containing fluorescent light tubes and thermostats, polychlorinated-biphenyl-containing light ballasts, and HID (high-intensity discharge) lights, were identified in all of the buildings. Prior to demolition activities, these materials were removed from the interiors of buildings and disposed of consistent with state and federal regulations. The regulated-building-material assessment report is included in Appendix A.

4.1 Decommissioning of Groundwater-Monitoring Wells

Groundwater monitoring wells TC-3, TC-4, and TC-5, located within the extent of the remedial action excavation, were decommissioned with hydrated bentonite in accordance with Washington State regulations prior to soil remedial action activities. Well decommissioning logs are included as Appendix B.

4.2 Canopy and Pump Island Demolition

The canopies and pump islands were demolished on August 5 and 6, 2015. Metal salvaged from the canopies was recycled at Skagit River Recycling in Burlington, Washington.

Asphalt pavement and concrete within the excavation extents was also removed prior to excavation activities. Asphalt and concrete were recycled at Skagit Aggregates in Mount Vernon, Washington. Remaining general construction debris was disposed of at Roosevelt Regional Landfill operated by Republic Services in Roosevelt, Washington.

4.3 Truck Scale Demolition

The former truck scale was also demolished as part of the remedial action. Metal salvaged from the former truck scale was recycled at Skagit River Recycling. Associated concrete was recycled at Skagit Aggregates.

4.4 Demolition of Former Convenience Store

As PCS excavation expanded beyond the design extents (refer to Section 7), it became necessary to demolish the former convenience store building to remove underlying impacted soils. As a result, the building was demolished between September 22 and 26, 2015, as part of the remedial action. Metal salvaged from the building was recycled at Skagit River Recycling.

5 CLOSURE OF UNDERGROUND STORAGE TANKS; SITE ASSESSMENT

MFA conducted a site assessment in support of the permanent closure of four USTs at the Site. The site assessment was performed by a certified site assessor in accordance with the UST regulations defined in WAC 173-360 and Ecology Guidance for Site Checks and Site Assessments for Underground Storage Tanks (Ecology, 1991). Selected photographs showing the UST closure and

excavation are presented in Appendix C. Field notes are presented in Appendix D. Figure 5-1 presents an overview of the remedial action completed at the Site, including the location of the USTs that were decommissioned.

5.1 Closure of Fuel-Containing Underground Storage Tank

The following four USTs were decommissioned and removed on August 6, 2015:

- One 15,000-gallon diesel UST
- Three 5,000-gallon unleaded gasoline USTs

According to Ecology's UST database, all four USTs were installed in 1978. No failures or leaks had been reported for any of the USTs. MFA geologist (Carolyn Wise, Site Assessor No. ICC8277112) was present during tank-removal activities and performed the site assessment. Wyser removed and decommissioned the USTs.

The four USTs were all cathodic-protected, single-wall, coated steel tanks. The three 5,000-gallon gasoline USTs were 8 feet in diameter and 15 feet in length. The 15,000-gallon diesel UST was 10 feet in diameter and 26 feet in length. Tanks and piping were outfitted with automatic tank gauging and line-leak detection. A UST Closure and Site Assessment form, a Site Assessment Checklist, and other related UST-decommissioning documentation are included in Appendix E.

The following features associated with the USTs were present at the Site and were also removed as part of the tank-closure activities:

- UST fill ports
- Turbines
- Underground piping from the USTs to the dispensers
- Dispensers and satellites

The USTs were emptied of any residual fuels, and then triple-rinsed, by Ultra Tank Services of Bellingham, Washington. Approximately 550 gallons of emulsified fuel and water was removed from the tanks and transported to the Ultra Tank Services facility for recycling. The emptied and cleaned tanks were recycled as scrap metal at Skagit River Recycling in Burlington, Washington. Appendix F provides documentation for Ultra Tank Services and the recycling of the emptied and cleaned tanks at Skagit River Recycling in Burlington, Washington.

5.1.1 UST Permits and Closure Activities

Wyser applied for the UST closure permit and submitted notice to Ecology 30 days before removing the USTs (see documentation included in Appendix E). The four USTs were excavated and removed on August 6, 2015. Carolyn Wise of MFA (Site Assessor No. ICC8277112) was present during tank-removal activities and performed the site assessment. Wyser performed the decommissioning and removal of the USTs, product lines, and dispensers.

The soil observed in the excavation consisted of brown, laminated, well-graded, medium- to fine-grain sand with some medium-grain gravel from the ground surface to approximately 5 feet bgs. Soil observed from 5 feet bgs to approximately 13.0 feet bgs consisted of blue-gray, subangular to subrounded, poorly-graded, medium-grained sand. It appeared that native soil had been used to backfill around the USTs during installation, as the interface between the two soil types appeared to be the result of fluvial floodplain deposits and not imported fill. Therefore, soil samples were collected in the capillary fringe at approximately 8 feet bgs along the sides of the excavation, and approximately 1 foot below the USTs at the base of the excavation. Large, subrounded to rounded cobbles were observed beneath the former diesel UST. Pea gravel was observed directly beneath the piping leading from the USTs to the dispensers along the southern edge of the excavation at approximately 3 feet bgs. Groundwater was encountered at approximately 8.5 feet bgs during initial excavation activities, but eventually rose to approximately 7 feet bgs before reaching equilibrium with the surrounding water table.

PCS in the UST excavation was identified through field-screening techniques for petroleum hydrocarbons and fuel-associated VOCs; screening included the following:

- Visual
- Olfactory
- Photoionization detector (PID)
- Sheen observation

PID measurements were recorded for each soil sample to evaluate the presence of elevated VOCs. PID measurements were at low levels (less than 20 parts per million [ppm]) in the UST excavation and there was no visual or olfactory evidence of a release. Reddish-brown soil was observed with slightly discolored water seeping out of the northern wall of the UST excavation near the former truck wash. Sample S-N2-10.0 is considered representative of this discolored area. All other sidewall samples were collected at the groundwater interface in the capillary fringe at approximately 8 feet bgs (see Figure 5-2).

5.1.2 Overburden Soil Segregation

During UST-closure activities, the overburden soil from the UST excavation was separated into five stockpiles for characterization. The volume of each soil stockpile was estimated to be between 200 and 300 cubic yards. Five soil samples (ST-1 to ST-5) composited from five discrete locations in each stockpile were collected for analysis, in accordance with Ecology site assessment guidance (Ecology, 1991).

An excavator was used to obtain soil samples and to stockpile soil removed from the excavation. Stockpile soil samples were collected from the middle of the excavator bucket, away from the surface and metal sides. Soil samples were collected using USEPA Method 5035.

Soil samples were submitted for analysis of COIs by Friedman and Bruya, Inc. (FBI) in Seattle, Washington under standard chain of custody protocol. Laboratory reports are included in Appendix G. Stockpile soil samples were analyzed by the following methods:

- Gasoline-range organics (GROs) by the Northwest Total Petroleum Hydrocarbons (NWTPH)-Gx method
- Diesel-range organics (DROs) by the NWTPH-Dx method
- Total lead by U.S. Environmental Protection Agency (USEPA) Method 200.8
- BTEX by USEPA Method 8021B

A rapid turnaround was required for stockpile sample results in order to evaluate the stockpiled soil for reuse or off-site disposal.

Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met data quality objectives, consistent with USEPA procedures for evaluating laboratory analytical data (USEPA, 2004, 2008). A memorandum summarizing data validation procedures, data usability, and deviations from specific field and/or laboratory methods for the UST decommissioning is included in Appendix H.

Analytical results for the stockpile soil samples are summarized in Table 5-1. Stockpile sample results were compared both to MTCA Method A criteria for unrestricted land use and to guideline concentration ranges for reuse of PCS (Ecology, 2011).

Soil samples collected from two of the five UST excavation stockpiles exhibited concentrations of gasoline-range TPH above the MTCA A CUL of 100 milligrams per kilogram (mg/kg). The two stockpiles exhibiting TPH concentrations above Ecology reuse guidance (Ecology, 2011) were separated and disposed of as PCS at CEMEX USA (CEMEX) located in Everett, Washington. The remaining stockpiles were used as backfill for the UST excavation.

5.1.3 Excavation-Pit Dewatering

During the removal of the four USTs, groundwater seeped into the excavation at approximately 8 feet bgs and stabilized at approximately 7 feet bgs. In order to obtain unsaturated soil samples, the excavation was dewatered and pumped into two 21,000-gallon storage tanks to await treatment by granular reactivated carbon (GAC) filters as outlined in the RAP/EDR (MFA, 2015a) and further discussed in Section 7.3.

5.1.4 Confirmation Soil Sampling

During the site assessment, soil confirmation samples were collected from the UST excavation sidewalls and base, and from beneath former fuel dispensers and product lines. Four soil samples were collected from the base of the UST excavation and one soil sample was collected from each of the four sidewalls of the UST excavation (see Figure 5-2). Base samples were collected at 12 and 14 feet bgs beneath the 500-gallon and 15,000-gallon USTs, respectively. Sidewall soil samples were collected from the capillary fringe at approximately 8 feet bgs. Groundwater was encountered at approximately 8.5 feet bgs during initial excavation activities, but eventually rose to approximately 7 feet bgs over 24 hours before reaching equilibrium with the surrounding water table.

An excavator was used to obtain soil from the excavation for sampling and from stockpiled soil removed from the excavation. Excavation and stockpile soil samples were collected from the middle of the excavator bucket, away from the surface and metal sides. Samples from below the dispensers were also collected from the middle of the excavator bucket. In addition, samples were collected in situ from the soil directly beneath the removed product lines. Soil samples were collected in accordance with USEPA Method 5035.

Laboratory reports are included in Appendix G. All UST excavation samples were analyzed by the following methods:

- GROs by the NWTPH-Gx method
- DROs by the NWTPH-Dx method
- Total lead by USEPA Method 200.8
- BTEX by USEPA Method 8021B

The discolored-soil sample (S-N2-10.0) was analyzed by the following methods:

- Petroleum hydrocarbons by the NWTPH-Hydrocarbon Identification Method (HCID)
- BTEX by USEPA Method 8021B
- VOCs, specifically halogenated VOCs, by USEPA Method 8260C
- Carcinogenic polycyclic aromatic hydrocarbons by USEPA Method 8270 SIM (selective ion monitoring)

A rapid turnaround was required for UST excavation sample results to evaluate soil for impacts and identify areas requiring additional excavation.

Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met data quality objectives, consistent with USEPA procedures for evaluating laboratory analytical data (USEPA, 2004, 2008). A memorandum summarizing data validation procedures, data usability, and deviations from specific field and/or laboratory methods is included in Appendix H.

5.1.5 UST Site Assessment Results

Analytical results for the sidewalls and base of the UST excavation and the discolored-soil sample are shown in Table 5-2. To evaluate whether a release of petroleum constituents from the UST system may have occurred, confirmation sample results were compared to Ecology's MTCA Method A criteria for unrestricted land use. The analyzed samples did not contain concentrations of the analyzed constituents above their respective CULs.

5.1.6 PCS Disposal

Prior site investigations indicated that contaminated soil was nonhazardous. PCS identified in the UST soil stockpile was loaded directly into haul trucks and transported to CEMEX in Everett, Washington.

Loose soil was brushed off truck trailers before the vehicles left the Site to prevent soil from falling off the truck during transit.

5.2 Decommissioning of Abandoned Underground Storage Tank

During the remedial excavation (RE) activities, a closed-in-place, 650-gallon UST was found in the southern pump island dispenser area to the west of the former pump islands. The location of this abandoned UST is shown on Figure 5-1. This UST is also discussed in Section 7.2 below.

A sample of the contents of the UST was analyzed to ascertain if the UST had contained petroleum fuel and/or solvents. A sample of the UST's contents was collected and analyzed by the following methods:

- Petroleum hydrocarbons by the NWTPH-HCID method
- Polychlorinated biphenyls by USEPA Method 8082A
- VOCs by USEPA Method 8260C

Analytical results for the abandoned UST sample are summarized in Table 5-3. Soil samples were also collected adjacent to and beneath the UST to evaluate the potential extent of PCS. Samples were analyzed by FBI. Laboratory reports are included in Appendix G.

Soil sample results were compared to MTCA Method A criteria for unrestricted land use. Heavy-oil-range organics were detected in the sample. No followup analyses were requested for the sample; however, the area containing the abandoned UST was overexcavated during the RE, as discussed in Section 7.2.



6.1 Dispenser Island Decommissioning

Wyser decommissioned and removed the dispenser islands on August 5 through 12, 2015. Removed concrete dispenser islands were recycled at Skagit Aggregates in Mount Vernon, Washington. Selected photographs are presented in Appendix C. Field notes are presented in Appendix D.

6.1.1 Confirmation Soil Sampling

During the site assessment, soil confirmation samples were collected from the UST excavation and beneath former fuel dispensers and product lines. Dispenser samples were collected 2 feet below the former pump island dispensers and satellites.

PCS was identified through field-screening techniques for petroleum hydrocarbons and fuel-associated VOCs; screening included the following:

- Visual
- Olfactory
- PID
- Sheen observations

PID measurements were recorded for each soil sample to evaluate the presence of elevated VOCs. Elevated PID measurements (above 20 ppm) were identified in soil samples D2-4.0, D3-8.0, and D4-4.0, collected below dispenser islands 2, 3, and 4, respectively. In addition, samples were collected in situ from the soil directly beneath the removed product lines. Soil samples were collected in accordance with USEPA Method 5035.

Soil samples were analyzed for the COIs by FBI. Laboratory reports are included in Appendix G. Dispenser and satellite island soil samples were analyzed by the following methods:

- GROs by the NWTPH-Gx method
- DROs by the NWTPH-Dx method
- BTEX by USEPA Method 8021B

A rapid turnaround was required for dispenser and satellite island sample results to evaluate soil for impacts and identify areas requiring additional excavation.

Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met data quality objectives, consistent with USEPA procedures for evaluating laboratory analytical data (USEPA, 2004, 2008). A memorandum summarizing data validation procedures, data usability, and deviations from specific field and/or laboratory methods for dispenser islands and product lines is included in Appendix H.

6.1.2 Laboratory Analytical Results

Analytical results for the dispenser island samples are summarized in Table 6-1. Soil sample results were compared both to MTCA Method A criteria for unrestricted land use and to guideline concentration ranges for reuse of PCS (Ecology, 2011).

Elevated concentrations of gasoline, diesel, benzene, ethylbenzene, and total xylenes were identified in soil beneath four of the five sampled former dispenser island locations (see Figure 5-2).

Elevated concentrations of gasoline above the MTCA Method A CUL of 30 mg/kg were identified below three of the five dispenser islands: dispensers 2, 3, and 4. Concentrations ranged from 170 mg/kg to 1900 mg/kg.

Elevated concentrations of diesel above the MTCA Method A CUL of 2,000 mg/kg were also identified in the same sample locations: dispensers 2, 3, and 4. Concentrations ranged from 7600 to 27000 mg/kg.

Benzene was detected above the MTCA Method A CUL of 0.03 mg/kg in soil below dispensers 1, 2, and 4. Concentrations ranged between 0.13 and 0.37 mg/kg.

Total xylenes were detected at 11 and 20 mg/kg in soil below dispensers 2 and 4, respectively, above the MTCA Method A CUL of 9 mg/kg.

Ethylbenzene was detected above the MTCA Method A CUL of 6 mg/kg at only one dispenser location, dispenser 4, at 6.2 mg/kg.

Additional samples were collected beneath the dispenser island locations where exceedances were confirmed from between 9.5 and 10.0 feet bgs in an attempt to delineate the vertical extent of contamination. The lateral extent of impacts was addressed during the RE activities, as all four former dispenser island locations with at least one constituent exceeding its MTCA Method A CUL were overexcavated both laterally and vertically, as discussed in Section 7.

6.2 Product Line Decommissioning

Wyser decommissioned and removed the product lines at the Site on August 5 through 12, 2015. Removed product lines were disposed of with construction debris at the Roosevelt Regional Landfill in Roosevelt, Washington.

6.2.1 Confirmation Soil Sampling

PCS was identified through field-screening techniques for petroleum hydrocarbons and fuel-associated VOCs; screening included the following:

- Visual
- Olfactory
- PID

PID measurements were recorded for each soil sample to evaluate the presence of elevated VOCs. Elevated PID measurements (above 20 ppm) were identified in sample P1-S2-3.5, collected along the product line to the southeast of the former convenience store.

Four soil samples were collected in situ from the soil directly beneath the removed product lines. Two of the four soil samples were put on hold because of the abundant number of samples already collected from beneath the southern dispenser island area and because of the low PID readings. During the remedial action excavation, the areas where product line soil samples had been put on hold were subsequently overexcavated because of confirmed impacts to soil at depths below 5 feet bgs. Soil samples were collected in accordance with USEPA Method 5035.

Soil samples were analyzed for COIs by FBI. Laboratory reports are included in Appendix G. Product line soil samples were analyzed by the following methods:

- GROs by the NWTPH-Gx method
- DROs by the NWTPH-Dx method

• BTEX by USEPA Method 8021B

A rapid turnaround was required for product line sample results to evaluate soil for impacts and identify areas requiring additional excavation.

Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they met data quality objectives, consistent with USEPA procedures for evaluating laboratory analytical data (USEPA, 2004, 2008). A memorandum summarizing data validation procedures, data usability, and deviations from specific field and/or laboratory methods is included in Appendix H.

6.2.2 Laboratory Analytical Results

Analytical results for the product line soil samples are summarized in Table 6-2. Soil sample results were compared both to MTCA Method A criteria for unrestricted land use and to guideline concentration ranges for reuse of PCS (Ecology, 2011).

Elevated concentrations of GROs and BTEX constituents were identified in sample P1-S2-3.5, collected southeast of the former convenience store (see Figure 5-2). Concentrations of these constituents were all above their respective MTCA Method A CULs. Additional samples were collected from below the initial sampling depth and along the adjacent northern sidewall of this section of the product line in an attempt to delineate the extent of impacts. This area of product line was overexcavated during the RE activities, as discussed in Section 7.

7 SOIL REMEDIAL ACTION—EXCAVATION OF PETROLEUM-CONTAMINATED SOIL

The remedial action included excavation of soils exceeding MTCA Method A CULS, application of ISBR products, backfilling the excavation, and transporting the contaminated material off site for disposal. Selected photographs showing contaminated-material excavation, ISBR product application, and backfilling activities are presented in Appendix C. Field notes are presented in Appendix D.

7.1 Site Preparation and Layout

Before excavation, the general excavation limits were laid out by the contractor and approved by the MFA professional. Underground utilities at the Site were identified by a private utility locating company. Catch basin inserts were installed to protect all storm sewer inlets.

7.2 Excavation

The estimated excavation boundaries were developed as part of the cleanup action plan and in coordination with Ecology (Ecology, 2015a). The remediation strategy for the Site was developed to address contamination in soils and groundwater.

The following IHSs were identified in soil at the Site:

- Gasoline-range TPH
- Diesel-range TPH
- BTEX

The following IHSs were identified in groundwater at the Site:

- Gasoline-range TPH
- Diesel-range TPH
- Benzene

A remedy was selected based on Site conditions, historical characterization, eliminating risk, and the ability to meet CULs for petroleum hydrocarbons and fuel-associated VOCs (specifically BTEX constituents) in the soil and groundwater. The remedial action was designed to treat groundwater contamination through overexcavation of PCS below the groundwater table and application of ISBR treatment products in backfill material placed in the smear zone (i.e., area where contaminated soil may exist within the varying fluctuations of the water table). Excavation and ISBR treatment were determined to be the most effective way to remove soil contamination at the Site and address any residual contamination in soil and groundwater. Groundwater from each area of excavation was dewatered, contained, and treated prior to its discharge into the city's sanitary sewer manhole, located to the south of the Site, as further discussed in Section 7.3.

Excavation and ISBR application activities were completed from August 18 to October 9, 2015.

7.2.1 Initial PCS Excavation

The excavation depths were determined based on soil characterization sampling, as described in the RAP/EDR (MFA, 2015a). Confirmation samples were used to define the vertical and horizontal extent of the excavations.

Initially, there were four proposed RE areas (RE1 through RE4, shown on Figure 5-2). Each RE area was a square, roughly 15 feet by 15 feet (by 10 feet deep). The depth was determined in the field, based on field indicators/screening methods. PCS was identified through field-screening techniques for petroleum hydrocarbons and fuel-associated VOCs. Field screening was performed throughout excavation activities, with soil sampling conducted when apparent contaminant boundaries were reached. Field-screening and sampling techniques for petroleum hydrocarbons and fuel-associated VOCs (specifically BTEX constituents) included:

- Visual
- Olfactory
- PID
- Sheen testing

In general, RE areas were excavated to approximately 10 feet bgs. The shallow soil (from ground surface to approximately 4 to 5 feet bgs), was segregated and stockpiled on site for characterization to

ensure eligibility for use as backfill. Deeper excavated soil (between approximately 4 and 10 feet bgs) was continuously assessed through field screening as potential PCS. If field screening indicated that the soil was not PCS, the soil was segregated and stockpiled on site for characterization through sampling to ensure eligibility for reuse as backfill. If field screening indicated that it was PCS, then the soil was stockpiled separately or loaded directly into haul trucks, and transported off site for disposal.

Soil confirmation samples were collected and analyzed to assess the vertical and horizontal extent of the excavations. Initially, following excavation of each RE area, a soil confirmation sample was collected from each sidewall and the excavation floor, as outlined in MFA RAP/EDR's Sampling and Analysis Plan (MFA, 2015a).

Samples were submitted for COIs to FBI and analyzed by the following methods:

- GROs by NWTPH-Gx
- DROs by NWTPH-Dx
- BTEX by USEPA Method 8021B

Soil sample analytical results are summarized in Tables 7-1 through 7-5. The confirmation sample locations are shown on Figure 5-2. Confirmation sample PID readings and soil descriptions were recorded in field notes for each soil sample (see Appendix D).

Additional soil was removed in areas where field screening indicated that PCS was present and areas where confirmation samples contained gasoline-range TPH, diesel-range TPH, or BTEX concentrations above MTCA A CULs. Three of the four RE areas (RE1 through RE3) required additional soil excavation. This extended excavation is described in Section 7.2.2.

Overburden segregated for use as backfill was stockpiled and sampled in accordance with Ecology's Guidance for Remediation of Petroleum Contamination Sites (Ecology, 2011).

Stockpile samples were submitted to FBI and analyzed by the same methods as outlined above.

Table 5-1 summarizes laboratory analytical results for stockpile soil samples collected during the remedial action activities. Analytical laboratory reports and data validation memoranda are included in Appendices G and H, respectively.

7.2.2 Extended PCS Excavation

The excavation footprint was expanded in the direction of confirmation soil samples containing constituents that exceeded their respective MTCA A CULs. RE1 and RE2 exhibited exceedances in all four sidewall samples. RE3 exhibited exceedances in the north, east, and west sidewalls, while the south sidewall was below CULs. All confirmation samples from RE4 were below CULs.

The RE1 excavation extended into the former truck scale area, with the entire footprint of the former truck scale ultimately being excavated. The RE1 excavation also extended to the north, east, and south, as shown on Figure 5-2. RE1 and RE2 excavations eventually merged, as did the excavations of RE2 and RE3. Based on field indicators and screening methods (and elevated confirmation soil samples), the contamination extended north beneath the former convenience store building. The excavation

was extended to the east. After the building was demolished, the excavation was extended to the north to capture PCS that extended under the former building.

As mentioned above in Section 5.2, on August 20, 2015, during the extended PCS excavation east of RE3, Wyser uncovered an abandoned UST that had not been previously identified. It appeared to have a capacity of approximately 475 gallons and contained an unknown oil. MFA sampled the contents of the UST; laboratory results indicated that it was a motor oil (Table 5-3). On August 25, 2015, following the City of Mount Vernon fire marshal's inspection of the tank (which was found to be in good condition), the tank contents were pumped out (by Marvac) and the tank removed (by Wyser). See selected photographs provided in Appendix C.

Demolition of the former convenience store began on September 22, 2015. Following demolition and removal of debris, Wyser extended the PCS excavation beneath the former building footprint. In general, the excavation extended to approximately 10 feet bgs beneath the former product line area and to 5 feet bgs or less beneath the building footprint and south of the product line. This surface excavation is also shown on Figure 5-2. The RE3 excavation also extended east. Not only was impacted soil found in the vicinity of the product line, but it also appeared to follow a section of the concrete storm sewer line and associated catch basins. The impacted soil extended east, slightly beyond the eastern edge of the former convenience store.

Soil confirmation samples were generally collected every 20 feet along sidewalls and throughout the floor of the excavation to verify PCS removal, as per the RAP/EDR. PCS was excavated to the extent shown on Figure 5-2. Overexcavation to remove PCS was completed at all areas, with the general maximum depth of overexcavation ranging from approximately 10 to 11 feet bgs. Laboratory analytical results of all final confirmation soil samples indicated that the COIs were all below their respective MTCA Method A CULs (refer to Tables 7-2 to 7-5).

Following successful removal of PCS and ensuring that all confirmation soil samples met the COI CULs, the excavation limits were surveyed by Pacific Geomatic Services, Inc. of Mountlake Terrace, Washington. A comprehensive as-built survey showing the excavation extents is included as Appendix I.

7.2.3 PCS Disposal

Analytical results of stockpile characterization samples and excavation samples indicated presence of PCS. PCS was loaded into haul trucks and transported to an appropriately permitted disposal facility. Loose soil was brushed off truck trailers before the vehicles left the Site to prevent soil from falling off the truck during transit. A total of 6,449 tons of PCS were excavated and disposed offsite at CEMEX in Everett, Washington A summary ticket of all trucks and associated tonnages of PCS disposed of at CEMEX is provided in Appendix J.

7.3 Groundwater Management and Dewatering

During excavation, and before backfilling, accumulated groundwater from the excavation was removed using pumps. The groundwater from the excavation was pumped into two 21,000-gallon storage tanks temporarily located in the southeast corner of the Site. Excavated groundwater was then

pumped through a sediment filter and through two GAC vessels (connected in series), as outlined in the RAP/EDR (MFA, 2015a), before being discharged to the City of Mount Vernon sanitary sewer system through a 4-inch-diameter polyvinyl chloride pipe to a manhole south of the Site. The dewatering system and discharge sanitary manhole are shown on Figure 7-1.

7.3.1 Granular Reactivated Carbon Treated Water System

As described above, groundwater was treated using a multi-unit system. The on-site water treatment system (OWTS) included two storage tanks (each 21,000 gallons in capacity), particulate filter units, and GAC vessels connected in series. Figure 7-2 presents the process flow diagram depicting the components of the OWTS.

Water-containing tanks: The tanks were equipped with over weirs and under weirs for removal of settleable solids and separated-phase hydrocarbons (i.e., free product), as well as a sorbent boom at the inlet to remove any floating free product. The tanks were also fitted with a containment berm system in order to provide secondary containment in the event of a fittings leak or other leakage issues.

Filter Unit: A bag filter/cartridge filter unit followed the OWTS unit. The filter unit removed fine suspended solids that could clog the GAC vessels in the water treatment process. The filter unit was comprised of one bag filter and two cartridge filters capable of removing particulates as small as 5 microns. A pump was installed at the inlet of the filter unit in the event that gravity flow was not sufficient to maintain a steady flow through the unit.

GAC Vessels: The final step prior to discharge was two in-line GAC vessels for removal of dissolved COIs from the water. The vessels were configured with two sets of two 2,000-pound GAC vessels in an interchangeable lead-lag formation (i.e., in series). The influent water entered the first GAC vessel (the lead), which treated the influent to the discharge criteria. The secondary GAC vessel, the lag, also assisted in this process. The system was piped and valved in such a way that the two vessels could be switched if contaminant breakthrough occurred in one of the vessels. Monitoring ports were installed after each vessel so that MFA could sample and test the post-treated water for the potential presence of COIs. All laboratory results indicated that contaminants were below associated analytical detection limits; therefore, it was not necessary to switch the vessels at any time during the remedial action.

7.3.2 Sanitary Sewer Discharge

Wyser treated all impacted groundwater generated during the remedial action activities on site. The City's discharge permit had allowed Wyser to discharge up to 150,000 gallons per day. The maximum daily discharge during site operations was 105,350 gallons, and the total discharge over the entire project was 449,540 gallons. Table 7-6 provides the daily volume of treated water discharge. Following treatment, groundwater was discharged into the city's sanitary sewer system. MFA collected a single pretreatment and several posttreatment water samples for laboratory analysis to demonstrate discharge compliance. Table 7-7 provides the analytical results of post-treatment water samples.

7.4 Backfill

Following excavation and receipt of confirmation sample results indicating compliance with associated CULs, excavations were backfilled using clean import materials and/or stockpiled overburden from on-site excavations that had been confirmed applicable for reuse by either field screening or analysis. Before imported soil was accepted and placed, verification was required that the soil did not contain concentrations of COIs, such as petroleum hydrocarbons and fuel-associated VOCs, at levels exceeding MTCA Method A CULs. This clean backfill documentation for pit run materials is provided in Appendix K. A total of 7,063 tons of pit run was used to backfill the remedial action excavations. A summary of materials and associated tonnages imported from Skagit Aggregates (also known as Big Rock Pit) is provided in Appendix K.

Backfilling was completed in two 2-foot lifts of clean backfill mixed with an ISBR product (the Regenesis Oxygen Release Compound Advanced, ORCa®). The ORCa product and application details are provided in detail below in Section 8.

The amended backfill was placed at the bottom of the excavation footprint and mixed together, and then unamended backfill was placed on top of it, again in 2-foot lifts. The bottom 4 feet of the entire excavation footprint was backfilled with clean import soil amended with ORCa. For the former truck scale area, on top of the amended backfill, the area was backfilled to the surrounding grade with clean import soil material (because site plans for the future jail facility include a stormwater retention facility in this location). Throughout the rest of the site excavation, on top of the amended backfill, the excavation footprint was backfilled with both clean import soil and clean overburden from on-site excavations. The final grade was placed and compacted to match the surrounding grade.

7.5 Compaction and Final Grade

Compaction tests were performed by Geotest Services, Inc., of Bellingham, Washington, to ensure that a compaction of 85 percent (required compaction amount specified by the Skagit County Jail architect) was being met throughout the excavation. The compaction reports are included as Appendix L.

7.6 As-Built Survey

The excavation and stockpiled clean overburden were surveyed during and at the conclusion of the excavation activities and before backfilling. The as-built survey verified that the boundary of the excavation had been met and mapped the locations of all additional excavation. A final as-built survey is included as Appendix I.

8 IN SITU BIOREMEDIATION/ENHANCED AEROBIC BIODEGRADATION

ISBR included the use of enhanced aerobic biodegradation to expedite the biodegradation of TPH and VOCs in soil and groundwater by adding ORCa to accelerate the microbial degradation of remaining petroleum-hydrocarbon-impacted vadose zone and groundwater. The addition of a controlled-release supplemental source of oxygen enables the indigenous microorganisms (bacteria) to expedite the biodegradation process. The ORCa product will, when hydrated (with groundwater), produce a controlled release of oxygen for up to 12 months on a single application, which will assist in accelerating the naturally occurring aerobic contaminant biodegradation in groundwater and saturated soils.

Regenesis ORCa was received from the manufacturer in the form of dry pellets, which were mixed directly with clean overburden and placed in two lifts at approximately 6 to 10 feet bgs. This depth is the appropriate smear zone that will be in contact with the fluctuating groundwater levels. The Regenesis ORCa and clean import material were mixed in the excavation in 2-foot lifts. ORCa product specifications are included in Appendix M.

9 SITE RESTORATION

The final inspection of the excavation work was completed on October 12, 2015. MFA issued an Engineer's Final Acceptance of Construction work on October 28, 2015, certifying that Wyser had completed all work, and submitted all required documentation supporting that work, in accordance with the construction plans and specifications associated with the Site remedial action (MFA, 2015b).

REMEDIAL ACTION AND PROPOSED SKAGIT COUNTY JAIL

Figure 10-1 presents an estimated extent of dissolved-phase petroleum hydrocarbon plume at the Site, based on groundwater analytical results of the RI conducted in July 2014 (MFA, 2014b). Seasonal groundwater migration directions, generally to the southwest with components to the northwest and south, are also shown. The estimated extent of the groundwater plume mirrors the remedial action area. Additionally, Figure 10-2 shows an overlay of the extent of the remedial action in relation to the proposed Skagit County Jail facility, including the footprint of the building and adjacent stormwater retention pond. The historical fueling area and the cleaned-up area are located primarily in the northern end of these features.

PROPOSED REPLACEMENT MONITORING WELLS

Six replacement groundwater monitoring wells (TC-1R, TC-2R, TC-3R, TC-4R, TC-5R, and TC-7) are proposed for installation within and adjacent to the remedial action excavation footprint, at inferred downgradient and upgradient locations, to evaluate the effectiveness of the remedial action and monitor the groundwater quality of this area.

The Ecology site manager authorized the locations of the proposed replacement monitoring wells on December 22, 2015 (Ecology, 2015b). Figure 11-1 presents the locations of proposed wells with respect to the site features of the proposed Skagit County Jail. Replacement of the original wells is necessary, as some of them would interfere with the proposed retention pond and/or are projected to be in the pathway of a maintenance road to be constructed in the area.

Each replacement well will be installed, using a direct-push drilling rig, to a depth of 15 feet bgs and will be constructed according to the Washington well construction standards (WAC 173-160) and procedures outlined in MFA's Focused Site Assessment Work Plan's Sampling and Analysis Plan (MFA, 2014a), with pre-packed well screen installed from 5 to 15 feet bgs.

It is anticipated that the replacement monitoring wells will be installed in early to mid-March 2016 because of current and ongoing construction activities for the jail and associated features (retention pond, underground utilities, etc.). The installed monitoring wells will be surveyed by a licensed surveyor.

12 scheduled quarterly groundwater events

Following installation of the replacement monitoring wells, groundwater compliance monitoring will be conducted starting in late April 2016, approximately six months after completion of remediation activities.

Quarterly groundwater compliance monitoring will be conducted for the following purposes:

- To assess the ongoing effectiveness and performance of the Site groundwater quality after completion of remedial action.
- To monitor progression of the COIs in meeting CULs at all conditional POCs. This will include monitoring of all existing monitoring wells at the Site for COIs and monitoring of geochemical parameters at selected wells to assess the biodegradation process, evaluate the trend of natural attenuation of the COIs, and the efficacy of ISBR. The Site's

- hydrogeologic regime will also be evaluated through assessment of the groundwater flow conditions (see Appendix N).
- To evaluate conditions for termination of quarterly groundwater monitoring activities. The groundwater compliance monitoring plan provides procedures for groundwater monitoring associated with the remedial action at the Site (see Appendix N).

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

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TABLES



Table 5-1
Confirmation Soil Sample Analytical Results—Soil Stockpiles
Former Truck City Site
Skagit County
Mount Vernon, Washington

				UST Stockpile	Remedial Excavation/ PCS Stockpile								
	STOCKPILE-UST						RE-STOCKPILE-01		RE-STOCKPILE-02				
Sample Name:		ST-1	ST-2	ST-3	ST-4	ST-5	RESTO1-01	RESTO1-02	RESTO1-03	REST02-01	REST02-01- DUP	REST02-02	REST02-03
Collection Date:		08/06/2015	08/06/2015	08/06/2015	08/06/2015	08/07/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015
	MTCA A CULs (mg/kg)												
TPH (mg/kg)													
Gasoline-Range Hydrocarbons	30	190	3	2 U	11	110	43	34	22	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	1600	110	50 U	1000	5100	560	1200	510	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	310	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	1725	235	250 U	1125	5225	685	1355	635	250 U	250 U	250 U	250 U
VOCs (mg/kg)													
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.33	0.02 U	0.02 U	0.02 U	0.09	0.056	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.67	0.06 U	0.06 U	0.06 U	0.087	0.091	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Metals (mg/kg)													
Lead	250	2.26	4.35	3.93	3.82	4.00							

Table 5-1
Confirmation Soil Sample Analytical Results—Soil Stockpiles
Former Truck City Site
Skagit County
Mount Vernon, Washington

		Remedial Excavation/ PCS Stockpile												
	RE-STOCKPILE-03				RE-STOCKPILE-04			RE-STOCKPILE-05			RE-STOCKPILE-06			
Sample Name:		REST03-01	REST03-01- DUP	REST03-02	REST03-03	REST04-01	REST04-02	REST04-03	RE ST05-01	RE ST05-02	RE ST05-03	RE-ST06-1	RE-ST06-2	RE-STO6-3
Collection Date:		08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/21/2015	08/21/2015	08/21/2015	08/25/2015	08/25/2015	08/25/2015
	MTCA A CULs (mg/kg)													
TPH (mg/kg)														
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
VOCs (mg/kg)														
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Metals (mg/kg)														
Lead	250				-					-				

Table 5-1
Confirmation Soil Sample Analytical Results—Soil Stockpiles
Former Truck City Site
Skagit County
Mount Vernon, Washington

		Remedial Excavation/ PCS Stockpile									
		RE-STOCKPILE-07			RE-STOCKPILE-08		RE-STOCKPILE-09				
	Sample Name:		RE-ST07-2	RE-ST07-3	RE-ST08-1	RE-ST08-2	RE-ST08-3	RE-ST09-1	RE-ST09-2	RE-ST09-3	
	Collection Date:	08/27/2015	08/27/2015	08/27/2015	08/31/2015	08/31/2015	08/31/2015	09/02/2015	09/02/2015	09/02/2015	
	MTCA A CULs (mg/kg)										
TPH (mg/kg)											
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	2 U	2 U	6.5	2.2	2 U	
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	
VOCs (mg/kg)											
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	
Metals (mg/kg)											
Lead	250	-		-							

Table 5-1
Confirmation Soil Sample Analytical Results—Soil Stockpiles
Former Truck City Site
Skagit County
Mount Vernon, Washington

					R	emedial Excavat	tion/ PCS Stockpi	le			
	Location:		RE-STOCKPILE-10			RE-STOC	KPILE-11			RE-STOCKPILE-12	
	Sample Name:	RE-ST10-1	RE-ST10-2	RE-ST10-3	RE-ST11-1	RE-ST11-2	RE-ST11-3	RE-ST11-4	RE-ST12-1	RE-ST12-2	RE-ST12-3
	Collection Date:	09/03/2015	09/03/2015	09/03/2015	09/08/2015	09/08/2015	09/08/2015	09/08/2015	09/16/2015	09/16/2015	09/16/2015
	MTCA A CULs (mg/kg)										
TPH (mg/kg)					-				-		
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
VOCs (mg/kg)											
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Metals (mg/kg)											
Lead	250			-	-						

Table 5-1
Confirmation Soil Sample Analytical Results—Soil Stockpiles
Former Truck City Site
Skagit County
Mount Vernon, Washington

NOTES:

Detected result values are in **bold** font.

Detected result values are above MTCA A CULs.

-- = not analyzed.

CUL = cleanup level.

mg/kg = milligrams per kilogram.

MTCA = Model Toxics Control Act.

PCS = petroleum-contaminated soil.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

UST = underground storage tank.

VOC = volatile organic compound.

Table 5-2
Confirmation Soil Sample Analytical Results—UST Site Assessment
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	B-T1	B-T2	В-ТЗ	B1-T4	B2-T4	S-E1	S-N1	S-N2	S-S1	S-W1
	Sample Name:	B-T1-12.0	B-T2-12.0	B-T3-12.0	B1-T4-14.0	B2-T4-14.0	S-E1-8.0	S-N1-8.0	S-N2-10.0	S-S1-8.0	S-W1-8.0
	Collection Date:	08/06/2015	08/06/2015	08/07/2015	08/07/2015	08/07/2015	08/06/2015	08/06/2015	08/07/2015	08/06/2015	08/06/2015
Collection	on Depth (ft bgs):	12	12	12	14	14	8	8	10	8	8
	MTCA Method A CULs (mg/kg)										
TPH (mg/kg)											
Gasoline-Range Hydrocarbons	30	2 U	2 U	2.7	2.8	28	2 U	2 U		2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	1100	50 U	50 U		50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U		250 U	250 U						
Total TPH ^a	2000	250 U	250 U	250 U	250 U	1225	250 U	250 U		250 U	250 U
TPH Identification	•										
Gasoline-Range Hydrocarbons	NV								Not Detected		
Diesel-Range Hydrocarbons	NV								Not Detected		
Motor-Oil-Range Hydrocarbons	NV								Not Detected		
VOCs (mg/kg)									•		
1,1,1-Trichloroethane	2								0.05 U		
1,1-Dichloroethane	NV								0.05 U		
1,1-Dichloroethene	NV								0.05 U		
1,2-Dichloroethane	NV								0.05 U		
Benzene	0.03	0.02 U	0.03 U	0.02 U	0.02 U						
Chloroethane	NV								0.5 U		
cis-1,2-Dichloroethene	NV								0.05 U		
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.02 U	0.05 U	0.02 U	0.02 U
m,p-Xylene	NV								0.1 U		
Methylene chloride	0.02								0.5 U		
o-Xylene	NV								0.05 U		
Tetrachloroethene	0.05								0.025 U		
Toluene	7	0.02 U	0.05 U	0.02 U	0.02 U						
trans-1,2-dichloroethene	NV								0.05 U		
Trichloroethene	0.03								0.02 U		
Vinyl chloride	NV								0.05 U		
Xylenes (total)	9	0.06 U		0.06 U	0.06 U						
PAHs (mg/kg)	•	-			•				•		
Benzo(a)anthracene	NV								0.01 U		
Benzo(a)pyrene	0.1								0.01 U		
Benzo(b)fluoranthene	NV								0.01 U		
Benzo(k)fluoranthene	NV								0.01 U		
Chrysene	NV								0.01 U		
Dibenzo(a,h)anthracene	NV								0.01 U		
Indeno(1,2,3-cd)pyrene	NV								0.01 U		
indeno(1,2,3-ca)pyrene	INV								0.01 0		

Table 5-2
Confirmation Soil Sample Analytical Results—UST Site Assessment
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	B-T1	B-T2	В-ТЗ	B1-T4	B2-T4	S-E1	S-N1	S-N2	S-S1	S-W1
	Sample Name:		B-T2-12.0	B-T3-12.0	B1-T4-14.0	B2-T4-14.0	S-E1-8.0	S-N1-8.0	S-N2-10.0	S-S1-8.0	S-W1-8.0
	Collection Date:	08/06/2015	08/06/2015	08/07/2015	08/07/2015	08/07/2015	08/06/2015	08/06/2015	08/07/2015	08/06/2015	08/06/2015
Col	ection Depth (ft bgs):	12	12	12	14	14	8	8	10	8	8
	MTCA Method A CULs (mg/kg)										
Metals (mg/kg)											
Lead	250		3.23	1 U	2.09	3.67	1.38	2.27		1.34	2.71

NOTES:

Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

-- = not analyzed.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

UST = underground storage tank.

VOC = volatile organic compound.

 $^{\mbox{\scriptsize o}}\mbox{Total}$ TPH is sum of diesel- and motor-oil-range hydrocarbon results.

Table 5-3 Product Sample Identification Analytical Results—Abandoned UST Former Truck City Site Skagit County Mount Vernon, Washington

1 12	DL LICT / FO
Location:	PL-UST-650
Sample Name:	PL-UST-650
Collection Date:	08/21/2015
PCBs (mg/kg)	
Aroclor 1016	2 U
Aroclor 1221	2 U
Aroclor 1232	2 U
Aroclor 1242	2 U
Aroclor 1248	2 U
Aroclor 1254	2 U
Aroclor 1260	2 U
VOCs (mg/kg)	
1,1,1-Trichloroethane	<100 U
1,1-Dichloroethane	<100 U
1,1-Dichloroethene	<100 U
1,2-Dichloroethane	<100 U
Chloroethane	<1,000 U
cis-1,2-Dichloroethene	<100 U
Methylene chloride	<1,000 U
Tetrachloroethene	<50 U
trans-1,2-dichloroethene	<100 U
Trichloroethene	<40 U
Vinyl chloride	<100 U
TPH Identification (Presence/A	bsence)
Gasoline	Not Detected
Diesel	Not Detected
Lube Oil	DETECT
NOTES:	
Detected results are in bold for	t.
mg/kg = milligrams per kilogran	n.
ND = not detected.	
PCB = polychlorinated bipheny	l.
TPH = total petroleum hydrocar	bons.
U = Result is non-detect.	
UST = underground storage tank	k.
VOC = volatile organic compo	und.

Table 6-1 Confirmation Soil Sample Analytical Results—Dispenser Islands Former Truck City Site Skagit County Mount Vernon, Washington

	Location:	D1	D1-B	D2	D2-B	D3	D4	D4-B	D5
San	nple Name:	D1-4.0	D1-B-9.5	D2-4.0	D2-B-10.0	D3-8.0	D4-4.0	D4-B-10.0	D5-4.0
Collec	ction Date:	08/12/2015	08/18/2015	08/12/2015	08/18/2015	08/12/2015	08/12/2015	08/18/2015	08/12/2015
Collection De	oth (ft bgs):	4	9.5	4	10	8	4	10	4
	MTCA Method A CUL (mg/kg)								
TPH (mg/kg)	-							•	•
Gasoline-Range Hydrocarbons	30	6.2	2 U	170	2 U	310 J	1,900	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	7,600	50 U	10,000 J	27,000	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 J	360	250 U	250 U
Total TPH ^a	2000	250 U	250 U	7,725	250 U	10,125 J	27,360	250 U	250 U
VOCs (mg/kg)									
Benzene	0.03	0.13	0.02 U	0.37	0.02 U	0.02 UJ	0.13	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	1.5	0.02 U	0.64 J	6.2	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	3.9	0.02 U	0.02 UJ	0.63	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.06 U	11	0.06 U	1.8 J	20	0.06 U	0.06 U

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used. Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A values.

CUL = cleanup level.

ft bgs = feet below ground surface.

J = Result is an estimated value.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

Table 6-2 Confirmational Soil Sample Analytical Results—Product Lines Former Truck City Site Skagit County Mount Vernon, Washington

Location:	P1-S1	P1-S2	P1-S2-B1	P1-S2-SN
			-	
npie Name:				P1-S2-SN-9.0
ction Date:	08/12/2015	08/12/2015	08/18/2015	08/18/2015
pth (ft bgs):	3.5	3.5	10	9
MTCA Method A CUL (mg/kg)				
30	2 U	40,000	2 U	2 U
2000	50 U	1,800	50 U	50 U
2000	250 U	250 U	250 U	250 U
2000	250 U	1,925	250 U	250 U
0.03	0.02 U	7	0.02 U	0.02 U
6	0.02 U	770	0.02 U	0.02 U
7	0.02 U	1,400	0.02 U	0.02 U
9	0.06 U	4,400	0.06 U	0.06 U
	mtca Method A CUL (mg/kg) 30 2000 2000 2000 0.03 6 7	mple Name: ction Date: pth (ft bgs): 3.5 MTCA Method A CUL (mg/kg) 30 2 U 2000 50 U 2000 250 U 2000 250 U 0.03 0.02 U 6 0.02 U 7 0.02 U	mple Name: 08/12/2015	P1-S1-3.5

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used.

Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

Table 7-1 Confirmation Soil Sample Analytical Results—Former Truck Scale Former Truck City Site Skagit County Mount Vernon, Washington

	Location:	FTS-S-BN	FTS-S-BS	FTS-S-SE1	FTS-S-SS	FTS-S-SW1	FTS-S-SW2	FTS-N-B	FTS-N-SN	FTS-N-SW
Samp	ole Name:	FTS-S-BN-6.0	FTS-S-BS-5.0	FTS-S-SE1-5.0	FTS-S-SS-5.0	FTS-S-SW1-6.0	FTS-S-SW2-5.0	FTS-N-B-10.0	FTS-N-SN-9.0	FTS-N-SW-9.0
Collect	ion Date:	08/24/2015	08/24/2015	08/24/2015	08/24/2015	08/24/2015	08/24/2015	08/26/2015	08/26/2015	08/26/2015
Collection Dept	th (ft bgs):	6	5	5	5	6	5	10	9	9
	MTCA Method A CUL (mg/kg)									
TPH (mg/kg)										
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	3	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
VOCs (mg/kg)										
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

Table 7-2
Confirmation Soil Sample Analytical Results—RE1 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE1-SE	RE1-BN	RE1-BS	RE1-SN	RE1-SW	RE1-SS	RE1-SW2	RE1-SW3	RE1-SE2	RE1-SE3	RE1-SN2	RE1-SS2	RE1-SS3	RE1-SN3
San	nple Name:	RE1-SE-9.0	RE1-BN-10.0	RE1-BS-10.0	RE1-SN-9.0	RE1-SW-9.0	RE1-SS-8.5	RE1-SW2-9.5	RE1-SW3-9.5	RE1-SE2-9.0	RE1-SE3-10.0	RE1-SN2-9.0	RE1-SS2-10.0	RE1-SS3-10.0	RE1-SN3-11.0
Collec	ction Date:	08/19/2015	08/19/2015	08/19/2015	08/19/2015	08/19/2015	08/19/2015	08/21/2015	08/21/2015	08/24/2015	08/24/2015	08/27/2015	08/27/2015	08/27/2015	09/16/2015
Collection De	pth (ft bgs):	9	10	10	9	9	8.5	9.5	9.5	9	10	9	10	10	11
	MTCA Method A CUL (mg/kg)														
TPH (mg/kg)	-														
Gasoline-Range Hydrocarbons	30	2,300	2 U	2 U	750	32	61	2 U	2 U	8.3	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	9,200	50 U	50 U	13,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	200
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	310	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	9,325	250 U	250 U	13,155	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	325
VOCs (mg/kg)															
Benzene	0.03	1.1	0.02 U	0.02 U	0.42	0.55	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	20	0.02 U	0.02 U	0.1 U	1.2	0.17	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	9.5	0.02 U	0.02 U	5.4	0.12	0.11	0.02 U	0.02 U	0.029	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	7.5	0.06 U	0.06 U	30	1.1	0.37	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used.

Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

Table 7-3
Confirmation Soil Sample Analytical Results—RE2 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE2-B	RE2-SE	RE2-SN	RE2-SS	RE2-SW	RE2-B2	RE2-B3	RE2-SS2	RE2-SS3	RE2-B4
San	nple Name:	RE2-B-10.0	RE2-SE-10.0	RE2-SN-9.0	RE2-SS-9.0	RE2-SW-9.0	RE2-B2-10.0	RE2-B3-10.0	RE2-SS2-8.0	RE2-SS3-9.0	RE2-B4-10.0
Collection Date:		08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/20/2015	08/28/2015	08/28/2015	08/31/2015	08/31/2015	09/04/2015
Collection Depth (ft bgs)		10	10	9	9	9	10	10	8	9	10
	MTCA Method A CUL (mg/kg)										
TPH (mg/kg)											
Gasoline-Range Hydrocarbons	30	2 U	39	4,600	1,100	240	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	180	1,100	1,800	250	50 U				
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	305	1,225	1,925	375	250 U				
VOCs (mg/kg)											
Benzene	0.03	0.02 U	0.02 U	0.2 U	0.11	0.11	0.02 U				
Ethylbenzene	6	0.02 U	0.11	29	4.3	2.3	0.02 U				
Toluene	7	0.046	0.16	28	7.4	0.75	0.02 U				
Xylenes (total)	9	0.06 U	0.2	46	12	1.3	0.06 U				

Table 7-3
Confirmation Soil Sample Analytical Results—RE2 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

		550.55	550 0110	550.000	550 0111	550 0115	550.004	550.005	550.007	550.57	550.050
	Location:	RE2-B5	RE2-SN2	RE2-SN3	RE2-SN4	RE2-SN5	RE2-SS4	RE2-SS5	RE2-SS6	RE2-B6	RE2-SE2
Sar	mple Name:	RE2-B5-10.0	RE2-SN2-10.0	RE2-SN3-10.0	RE2-SN4-10.0	RE2-SN5-9.0	RE2-SS4-10.0	RE2-SS5-10.0	RE2-SS6-9.0	RE2-B6-10.0	RE2-SE2-9.5
Collection Date:		09/04/2015	09/02/2015	09/02/2015	09/02/2015	09/04/2015	09/02/2015	09/02/2015	09/04/2015	09/10/2015	09/10/2015
Collection Depth (ft bgs)		10	10	10	10	9	10	10	9	10	9.5
	MTCA Method A CUL (mg/kg)										
TPH (mg/kg)											
Gasoline-Range Hydrocarbons	30	2 U	51 J	71	91	2 U	53	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	300	100	330	50 U	130	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	425	225	455	250 U	255	250 U	250 U	250 U	250 U
VOCs (mg/kg)											
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1	0.02 U
Ethylbenzene	6	0.02 U	0.46 J	0.23	0.65	0.02 U	0.09	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.36 J	0.38	0.51	0.02 U	0.062	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.42 J	0.34	0.33	0.06 U	0.1	0.06 U	0.06 U	0.092	0.12

Table 7-3
Confirmation Soil Sample Analytical Results—RE2 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE2-SE3	RE2-B7	RE2-SE4	RE2-SE5	RE2-SE6	RE2-SN6	RE2-SN7	RE2-SN8	RE2-SN9	RE2-SS7
San	nple Name:	RE2-SE3-9.5	RE2-B7-11.0	RE2-SE4-9.5	RE2-SE5-9.5	RE2-SE6-10.0	RE2-SN6-10.5	RE2-SN7-10.5	RE2-SN8-11.0	RE2-SN9-9.0	RE2-SS7-9.5
Collection Date:		09/10/2015	09/14/2015	09/14/2015	09/14/2015	09/15/2015	09/16/2015	09/16/2015	09/16/2015	09/21/2015	09/30/2015
Collection Depth (ft bgs):		9.5	11	9.5	9.5	10	10.5	10.5	11	9	9.5
	MTCA Method A CUL (mg/kg)										
TPH (mg/kg)											
Gasoline-Range Hydrocarbons	30	3.2	2 U	4.1	2 U	2 U	2 U	3.6	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U				
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U				
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U				
VOCs (mg/kg)											
Benzene	0.03	0.063	0.02 U	0.049	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.06	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U				
Xylenes (total)	9	0.099	0.06 U	0.33	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

Table 7-3
Confirmation Soil Sample Analytical Results—RE2 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used.

Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

CUL = cleanup level.

ft bgs = feet below ground surface.

J = Result is an estimated value.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

Table 7-4
Confirmation Soil Sample Analytical Results—RE3 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE3-B	RE3-SE	RE3-SN	RE3-SN2	RE3-SS	RE3-SW	RE3-B2	RE3-SE2	RE3-B3	RE3-SE3	RE3-SE4
Sam	nple Name:	RE3-B-10.0	RE3-SE-9.0	RE3-SN-9.0	RE3-SN2-9.0	RE3-SS-9.0	RE3-SW-9.0	RE3-B2-9.5	RE3-SE2-9.0	RE3-B3-3.5	RE3-SE3-3.0	RE3-SE4-3.0
Collec	ction Date:	08/20/2015	08/20/2015	08/20/2015	08/25/2015	08/20/2015	08/20/2015	09/14/2015	09/14/2015	09/15/2015	09/15/2015	09/15/2015
Collection Dep	pth (ft bgs):	10	9	9	9	9	9	9.5	9	3.5	3	3
	MTCA Method A CUL (mg/kg)											
TPH (mg/kg)												
Gasoline-Range Hydrocarbons	30	2 U	3.4	400	10	2 U	14	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	570	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	695	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
VOCs (mg/kg)												
Benzene	0.03	0.02 U	0.046	0.1 U	0.044	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.039	3.8	0.4	0.02 U	0.08	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.09	0.89	0.11	0.02 U	0.11	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.23	14	0.72	0.06 U	0.24	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

Table 7-4
Confirmation Soil Sample Analytical Results—RE3 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE3-SE5	RE3-B4	RE3-B5	RE3-SE5	RE3-SE6	RE3-SE7	RE3-SE8	RE3-SE9	RE3-B10	RE3-B6	RE3-B7
Sar	nple Name:	RE3-SE5-3.0	RE3-B4-7.0	RE3-B5-10.0	RE3-SE5-8.0	RE3-SE6-7.0	RE3-SE7-8.0	RE3-SE8-9.0	RE3-SE9-3.5	RE3-B10-10.0	RE3-B6-10.0	RE3-B7-3.0
Colle	ction Date:	09/15/2015	09/17/2015	09/17/2015	09/17/2015	09/17/2015	09/17/2015	09/18/2015	09/18/2015	09/28/2015	09/28/2015	09/28/2015
Collection De	pth (ft bgs):	3	7	10	8	7	8	9	3.5	10	10	3
	MTCA Method A CUL (mg/kg)											
TPH (mg/kg)	PH (mg/kg)											
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	110	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	300	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	410	250 U	250 U	250 U
VOCs (mg/kg)												
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

Table 7-4
Confirmation Soil Sample Analytical Results—RE3 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

	Location:	RE3-B8	RE3-B9	RE3-SN3	RE3-SN4	RE3-SN5	RE3-SN6	RE3-SN7	RE3-SN8	RE3-SN9	RE3-SN10
											1
San	mple Name:	RE3-B8-10.0	RE3-B9-4.0	RE3-SN3-8.0	RE3-SN4-7.5	RE3-SN5-8.0	RE3-SN6-7.0	RE3-SN7-6.0	RE3-SN8-2.5	RE3-SN9-2.0	RE3-SN10-2.0
Collec	ction Date:	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015	09/28/2015
Collection De	epth (ft bgs):	10	4	8	7.5	8	7	6	2.5	2	2
	MTCA										
	Method A										
	CUL										
	(mg/kg)										
TPH (mg/kg)	PH (mg/kg)									•	
Gasoline-Range Hydrocarbons	30	2 U	2 U	4.4	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Diesel-Range Hydrocarbons	2000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Motor-Oil-Range Hydrocarbons	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Total TPH ^a	2000	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
VOCs (mg/kg)											
Benzene	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Ethylbenzene	6	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Toluene	7	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Xylenes (total)	9	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U

Table 7-4
Confirmation Soil Sample Analytical Results—RE3 Area
Former Truck City Site
Skagit County
Mount Vernon, Washington

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used. Detected results are in bold font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

 $^{\rm o}\textsc{Total}$ TPH is the sum of diesel- and motor-oil-range hydrocarbon results.

Table 7-5 Confirmation Soil Sample Analytical Results—RE4 Area Former Truck City Site Skagit County Mount Vernon, Washington

	Location:	RE4-B	RE4-SE	RE4-SN	RE4-SS	RE4-SW			
	RE4-B-10.0	RE4-SE-8.0	RE4-SN-8.5	RE4-SS-9.0	RE4-SW-9.0				
	Collection Date:	08/19/2015	08/19/2015	08/19/2015	08/19/2015	08/19/2015			
Collection	on Depth (ft bgs):	10	8	8.5	9	9			
	MTCA Method A CUL (mg/kg)								
TPH (mg/kg)	IPH (mg/kg)								
Gasoline-Range Hydrocarbons	30	2 U	2 U	2 U	2 U	2 U			
Diesel-Range Hydrocarbons	2000	50 U							
Motor-Oil-Range Hydrocarbons	2000	250 U							
Total TPH ^a	2000	250 U							
VOCs (mg/kg)									
Benzene	0.03	0.02 U							
Ethylbenzene	6	0.02 U							
Toluene	7	0.02 U							
Xylenes (total)	9	0.06 U							

Table 7-5

Confirmation Soil Sample Analytical Results—RE4 Area Former Truck City Site Skagit County Mount Vernon, Washington

NOTES:

Calculated sums use the highest non-detect value when all constituents are non-detect. When detect and non-detect values are summed, one-half the non-detect value is used.

CUL = cleanup level.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA Method A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

VOC = volatile organic compound.

 $^{\mathrm{o}}$ Total TPH is the sum of diesel- and motor-oil-range hydrocarbon results.

Table 7-6 Treated Groundwater Discharge to Sanitary Sewer Former Truck City Site Skagit County Mount Vernon, Washington

Date	Time	Daily Discharge (gallons)	Running Total Discharge (gallons)	Comments
08/20/2015				Permit allows up to 150,000 gallons per day
08/20/2015	1445	9,000	9,000	
08/21/2015	1100	9,000	18,000	
08/21/2015	1500	1,000	19,000	
08/24/2015	1010	4,000	23,000	
08/24/2015	1515	1,600	24,600	
08/25/2015	1200	1,200	25,800	
08/26/2015	700	800	26,600	
08/26/2015	1248	12,200	38,800	
08/27/2015	1504	6,800	45,600	
08/28/2015	1200	4,800	50,400	
08/28/2015	1400	4,800	55,200	
08/31/2015	0826	1,500	56,700	
08/31/2015	1250	7,200	63,900	
08/31/2015	1530	800	64,700	
09/01/2015	0700	-	64,700	
09/01/2015	1200	2,900	67,600	
09/01/2015	1530	6,300	73,900	
09/02/2015	1500	25,400	99,300	
09/03/2015	1500	-	99,300	
09/04/2015	1500	23,200	122,500	
09/08/2015	0830			New meter installed (1.5-inch diameter flow valve)
09/08/2015	1400	28,900	151,400	
09/09/2015	1300	38,100	189,500	
09/10/2015	1530	16,900	206,400	
09/11/2015	1400	8,900	215,300	
09/14/2015	1530	21,800	237,100	
09/15/2015	1530	22,190	259,290	
09/16/2015	1530	17,900	277,190	
09/18/2015	1430	28,110	305,300	
09/28/2015	1530	105,350	410,650	
09/29/2015	1515	29,550	440,200	
09/30/2015	1500	9,340	449,540	

Table 7-7

Confirmation Groundwater Sample Analytical Results—Treated Groundwater Discharge Former Truck City Site Skagit County

Mount Vernon, Washington

	MTCA A CUL	BT-PRE-1	BT-POST-1	BT-Post-2	BT-POST-3	BT-POST-4	BT-POST-5	BT-POST-6	BT-POST-7	BT-POST-8
	(ug/L)	08/18/2015	08/18/2015	08/21/2015	08/25/2015	08/28/2015	09/02/2015	09/09/2015	09/16/2015	09/29/2015
TPH (ug/L)										
Gasoline-Range Hydrocarbons	800	120	100 U							
Diesel-Range Hydrocarbons	500	2,400	50 U							
Motor-Oil-Range Hydrocarbons	500	600	250 U							
VOCs (ug/L)										
Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	1000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U

NOTES:

Detected result values are in **bold** font.

Results that exceed MTCA A cleanup levels are shaded. Non-detect results are not evaluated against MTCA A levels.

CUL = cleanup level.

MTCA A = Model Toxics Control Act Method A.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

ug/L = micrograms per liter.

VOC = volatile organic compound.

FIGURES



Source: US Geological Survey (1990) 7.5-minute topographic quadrangle: Mount Vernon Section 32, Township 34 North, Range 4 East

Figure 1-1 Site Location

Former Truck City Site Mount Vernon, Washington

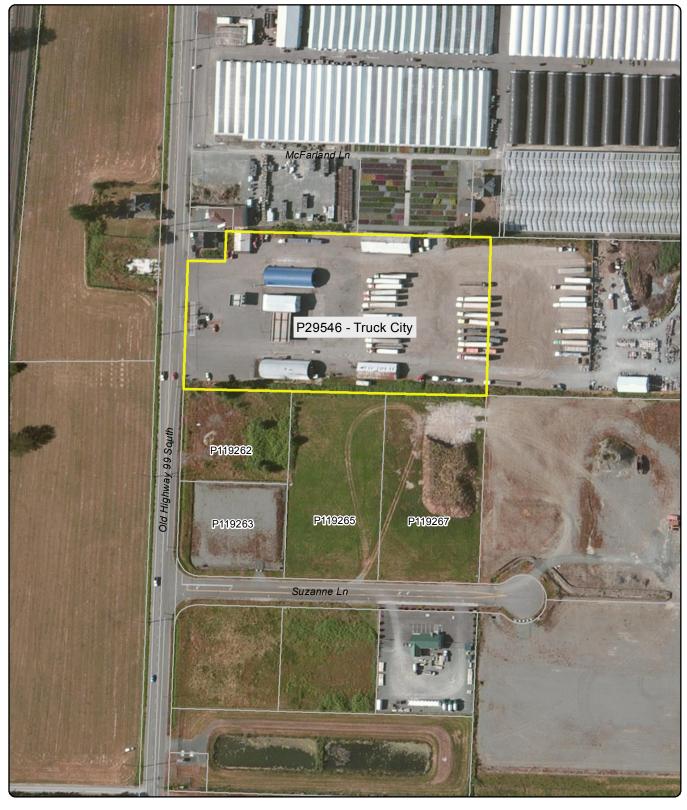


0 1,000 2,000 Feet



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Produced By: imiller



Source: Aerial photograph obtained from Esri ArcGIS Online; parcels obtained from Skagit County.

Aerial Imagery Date: 2010



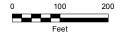
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Legend



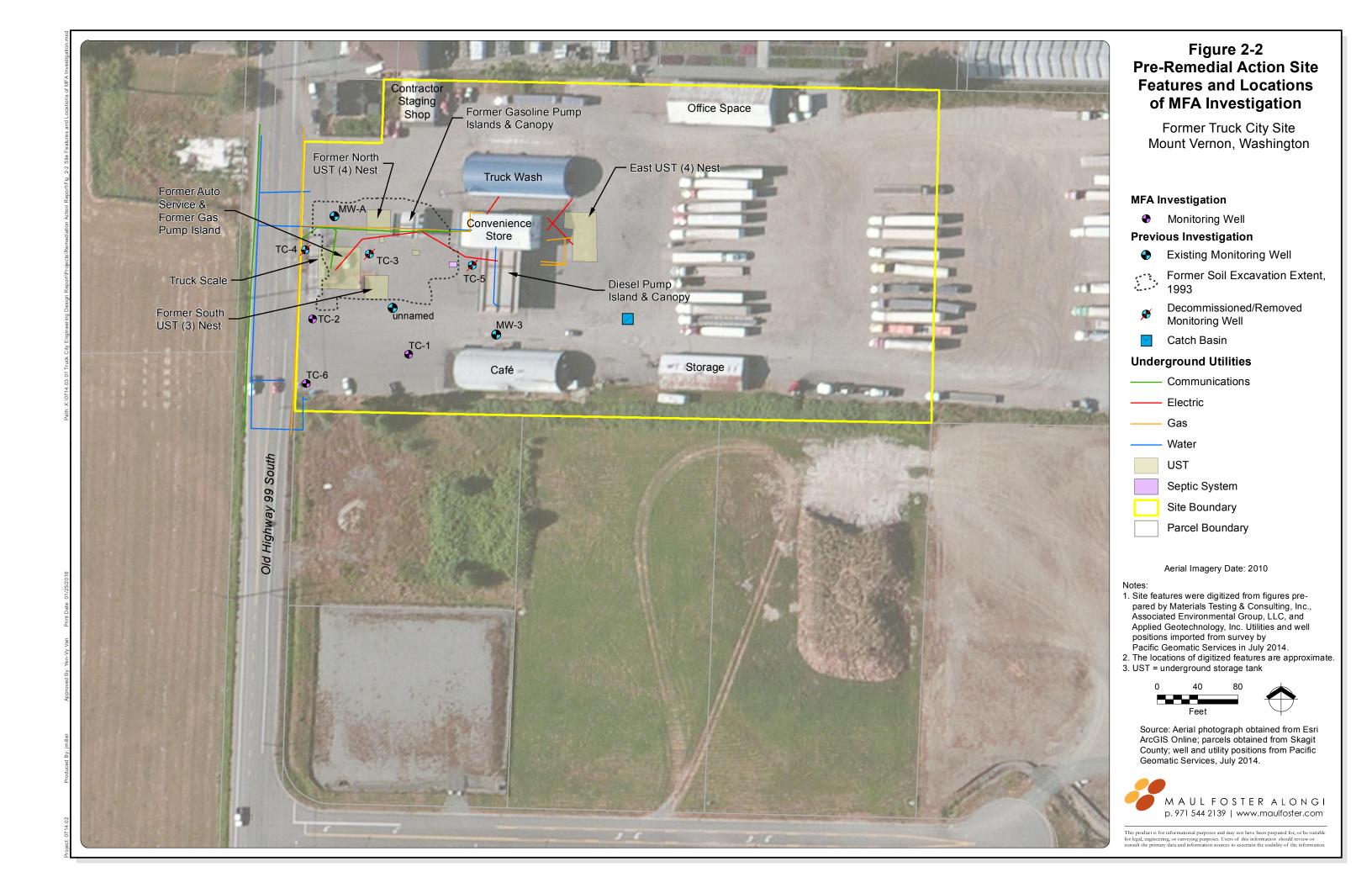
Figure 1-2 Site Parcel Map Former Truck City Site

Former Truck City Site Mount Vernon, Washington









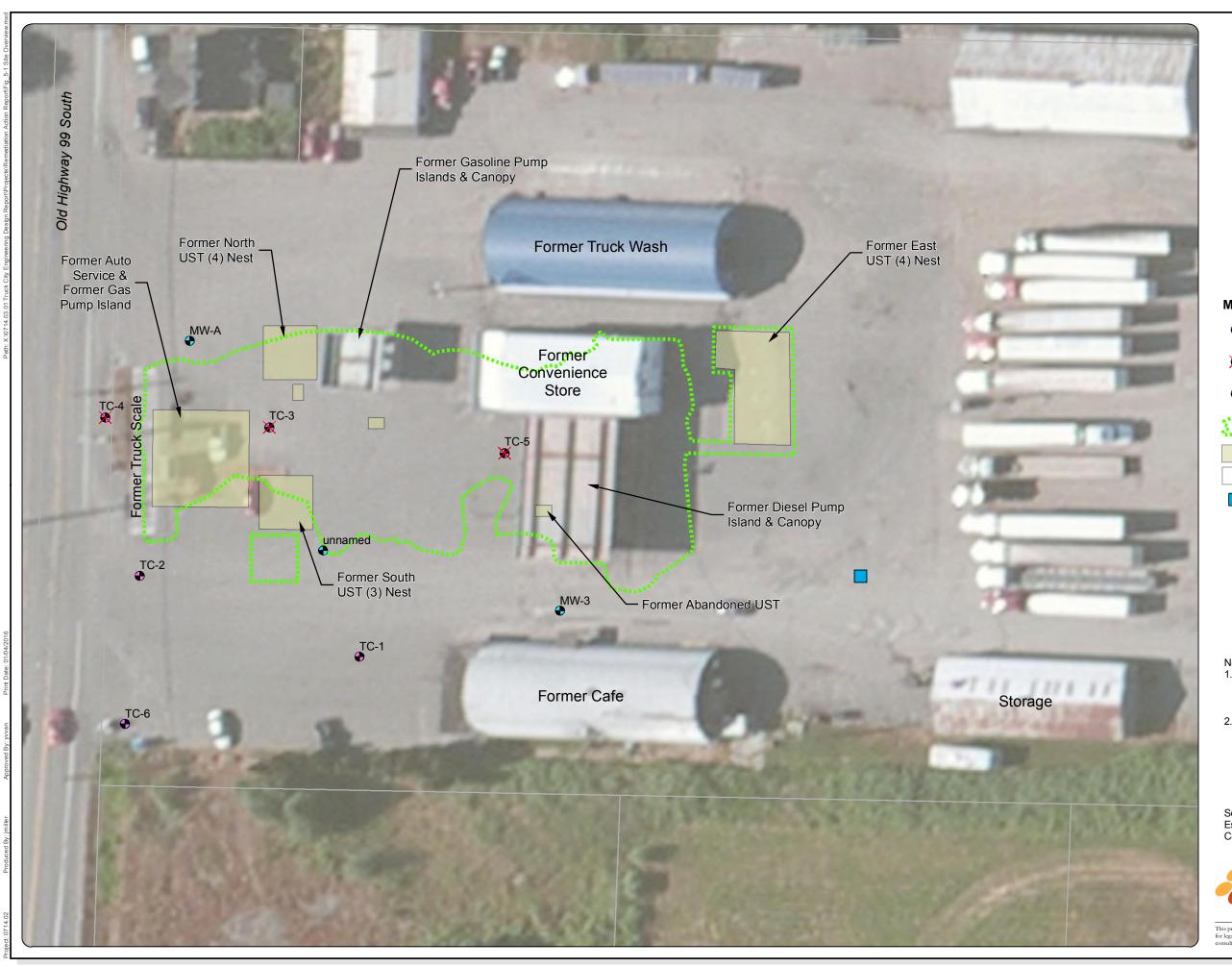


Figure 5-1 Site Overview -**Remedial Action**

Former Truck City Site Mount Vernon, Washington

MFA Investigation

- Monitoring Well
- Decommissioned/ Removed Monitoring Well
- Historical Monitoring Well



Estimated Remedial Action Estimated Kei Extent, 2015

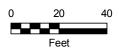


Parcel Boundary



- Notes:
 1. Site features were digitized from figures prepared by Materials Testing & Consulting, Inc., Associated Environmental Group, LLC, and Applied Geotechnology, Inc.

 2. The locations of all features are approximate.

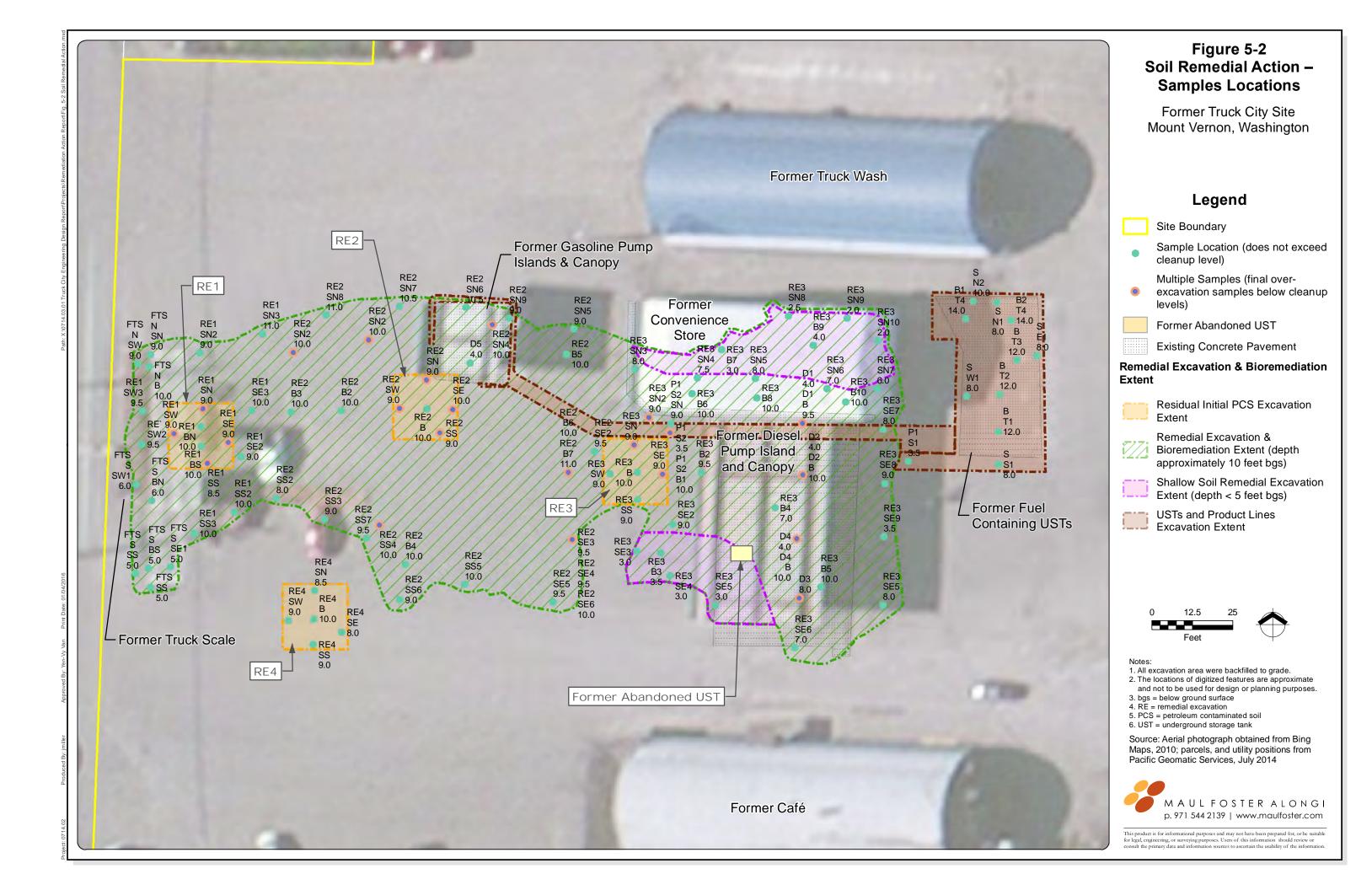




Source: Aerial photograph (2010) obtained from Esri ArcGIS Online; parcels obtained from Skagit County.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.





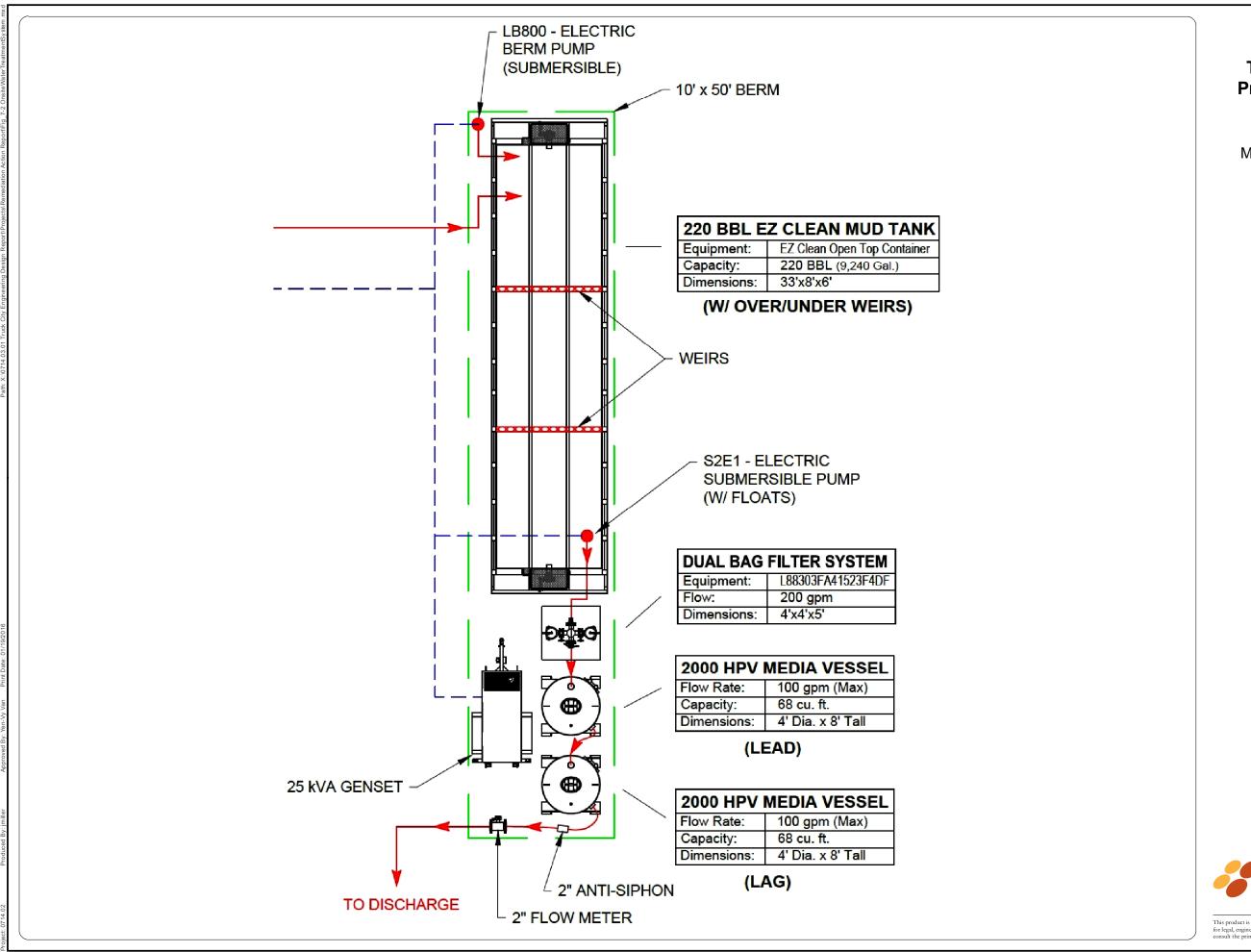
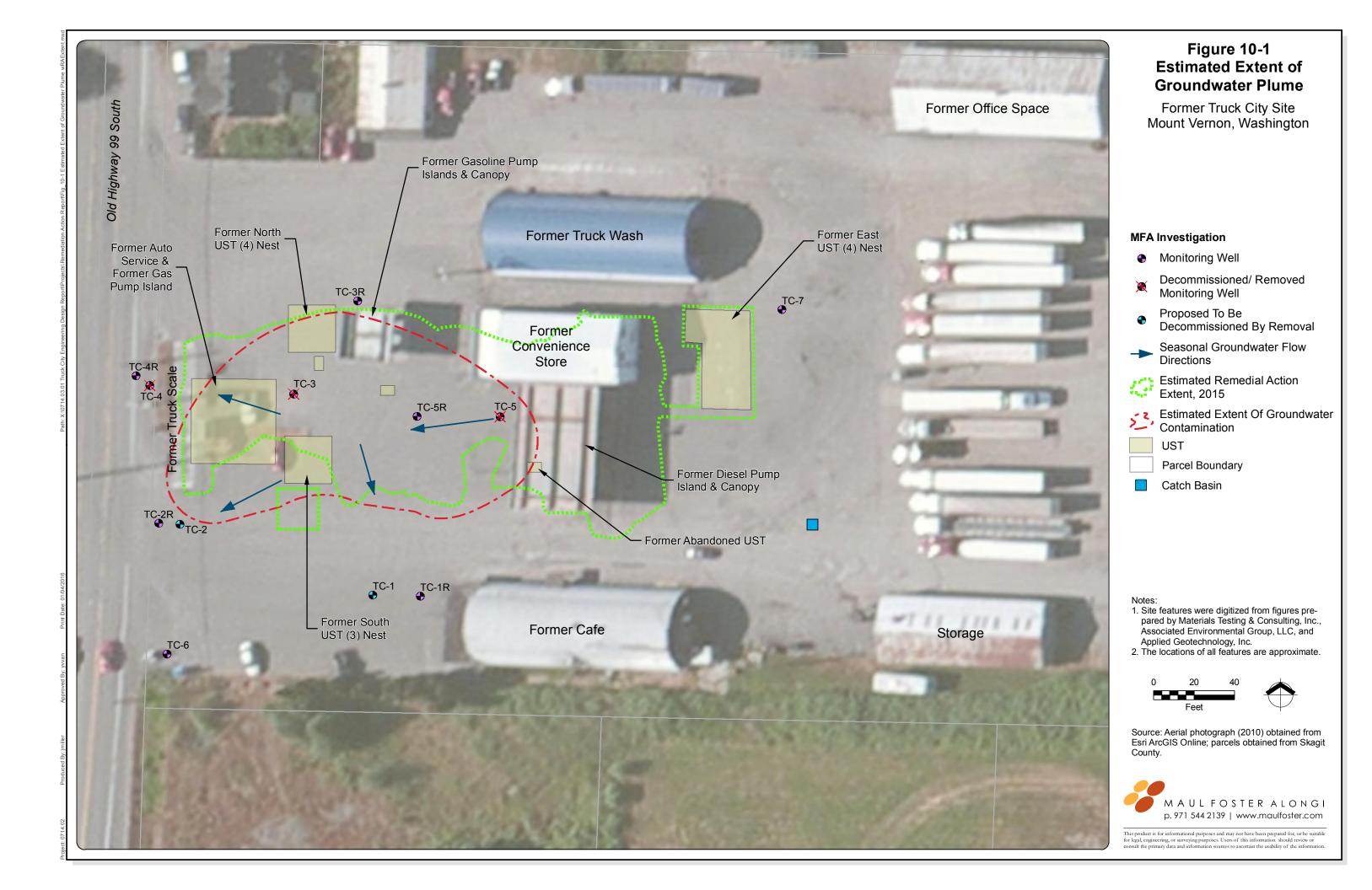


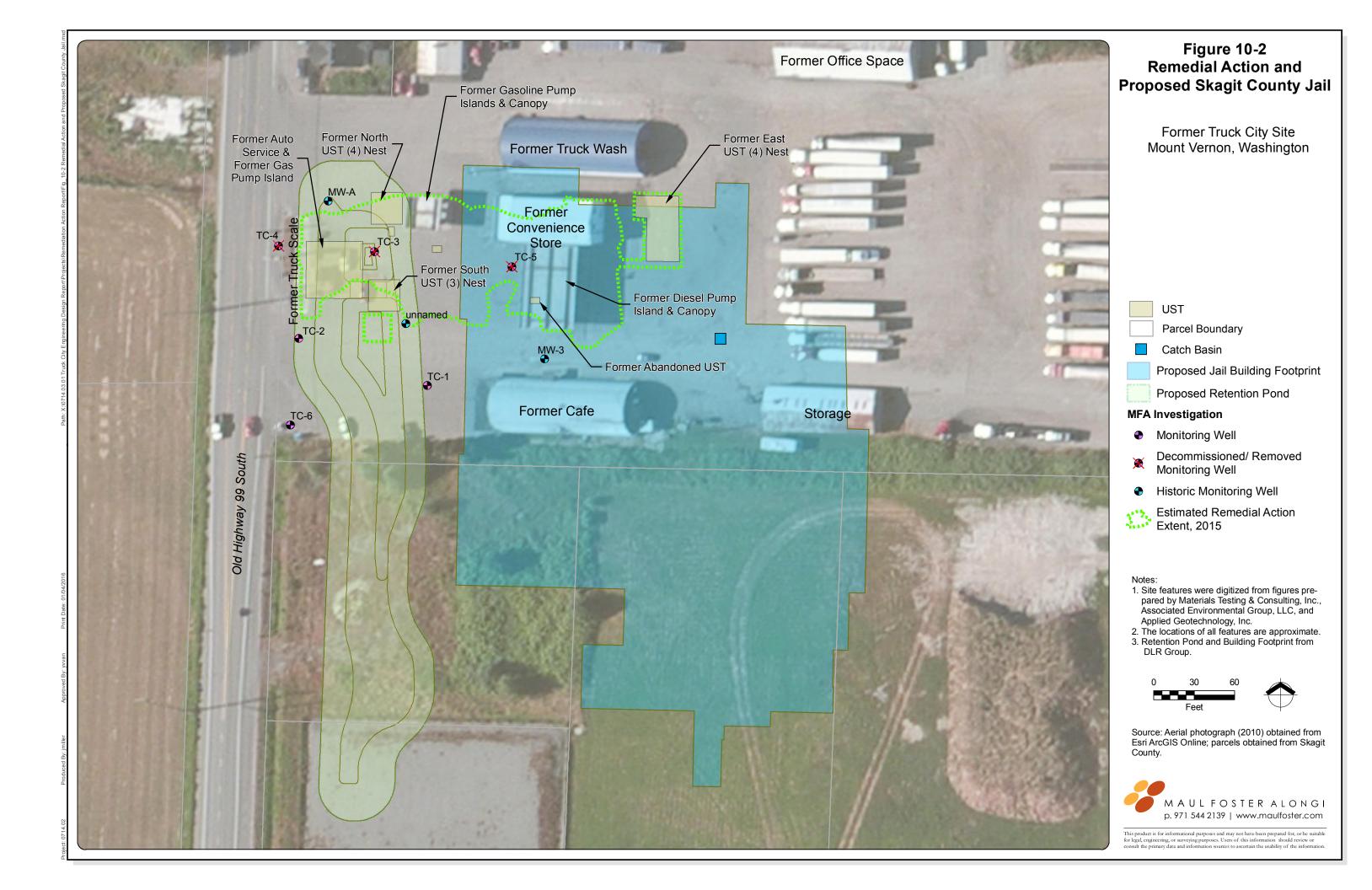
Figure 7-2
On-Site Water
Treatment System –
Process Flow Diagram

Former Truck City Site Mount Vernon, Washington



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.







APPENDIX A

ASBESTOS AND REGULATED UNIVERSAL WASTES ABATEMENT





PO BOX 94291

	T# 223104
) J	☐ ALASKA EPA ID # AKR 000 201 897
	OREGON EPA ID # ORQ 000 026 789
•	WASHINGTON - ECOLIGHTS EPA ID # WAH 000 026 371

SEATTLE, WA 98124 ■	ILL U	L'ADING	
(206) 343-1247	Nº	19116	OREGON EPA ID # ORQ 000 026 789
(206) 343-7445 FAX EPA ID# WAH OOO O26 371	WO#		WASHINGTON - ECOLIGHTS EPA ID # WAH 000 026 371 WASHINGTON - TOTAL RECLAIM
OF WASTE:		BILLING INFORM	EPA ID # WAD 009 482 803 ATION:

GENERATOR OF WA			FORMATION:	LFA 10 # WAD 009 4	
Name: OLD TAU	ch C/TY		vinonne	40	ATEN
Address: 3218	own they 995		PO BOX, a		2110
City/State/Zip: MT	MINON, 78279		ip: Mt Ver	non Mit	10215
EPA I.D. #:		Contact:			, , , , , , , , , , , , , , , , , , ,
Contact:	· .	Phone:			
Phone:		PO #:			
	ow was properly identified and prepared for tran ated, passed through, or are recycled in.	sportation in accordance with all rul	es and regulations of the fed	eral, state and local gove	ernments in
Generator Signature	Market Commence of the Commenc	Rrint Name	activen	4 Month	Day Year
	was tendered to me for transport in accordan	nce with all rules and regulations.		~	D. V.
Transporter Signature	orev	Company		Month	Day Year
MATERIAL	AMOUNT RECEIVED	AMOUNT PROCESSED	UNIT PRICE	EXTENDED PRICE	INITIALS
STRAIGHT LAMPS 10t1	237				
8fT_	214	* ()	,	•	
4ft	63#				
CIRCULAR/U-SHAPED					
COMPACTS (CFLS)	9H	:	7 -	2	
CRUSHED LAMPS *	.	e ·	٠		,
ACCIDENTLY BROKEN LAMPS	1				
HID LAMPS	1000	w. S		and the second	
FIXTURES				Tends	
OTHER:		6.0		ř.	
4605	289				
BATTERIES					
NON-PGB BALLASTS	2647	and the control of the state of		and the second s	A second to the second teachers are
PCB BALLASTS (NOT AK) *	39384				
OFF SPEC FEE / LABOR	3)0.01				
TRANSPORTATION					
Notes:	Mose	PCB		/ w	5
	OF FEE	NONPEB		(2/	686) -1238
	(1)336	Dut -	* 4.	766	286
*MANIFEST # 00/67	7816552 08 1 (005-10-		1210	1722
		(3)5M. Bax			
☐ CASH ☐ CREDIT	CARD ON ACCOUNT	TOTAL \$	OP		INITIALS
I certify that the material described about Signature of Authorized Agent	ve was received and consolidated for shipment	to EcoLights Northwest for recycling Company	g on the date indicated.		Received Day Year
Signature of Notificial Agent	THE POLITIC	Company		Monut	July 1001
	CERTIFICA	TE OF RECYCLII	VG		
By accepting the waste described abov accordance with all applicable federal,	ve, EcoLights certifies to the waste generator the			l are in Date	Received
	/ - : · · · · · · · · · · · · · · · · · ·	I market and the same and the s		50,000,000,000,000	

E&OLIGHTS NORTHWEST, LLC

PO BOX 94291 SEATTLE, WA 98124



Invoice 156722 Invoice Date 08/18/2015

(206) 343-7443

Bill To:

ENVIRONMENTAL ABATEMENT SERVIC PO BOX 2503 MT VERNON, WA 98273

Customer#	Ship Via	F.O.B.		Terms
02ENVABS-001				Γ30 DAYS
Quantity	Item Description	Unit of Measure	Unit Price	Extended Price
	BOL # / Ticket # Purchase Order #	Generator		Taxable
*	OLD TRUCK CITY SITE 322	28 OLD HWY 99 S RD, MT VERNON WA		
107.00	MIXED FLUORESCENT BULBS	LBS	0.5500	58.85
	19116 / 223104			N
9.00	COMPACT FLUORES BULBS LB	LBS	2.7500	24.75
en e	19116 / 223104			N
10.00	H.I.D. BULBS/LB	LBS	2.2500	22.50
	19116 / 223104			N
264.00	NON PCB BALLASTS	LBS	0.0000	0.00
	19116 / 223104			N
284.00	PCB NON-LEAKING BALLASTS	LBS	0.8000	227.20
	19116 / 223104			N
	OLD TRUCK CITY SITE 322	28 OLD HWY 99 S RD, MT VERNON WA		
1.00	HAZ WASTE MANI- LABEL FEE	EACH	50.0000	50.00
	36686			N
120.00	SURCHARGE - MILES DRIVEN	MILES	0.3600	43.20
	36686			N
1.00	TRANSPORTATION 36686	EACH	150.0000	150.00 N
		and the second s		

Thank you for using Ecolights Northwest for your Recycling Services.







Non-Taxable Subtotal 576.50

Taxable Subtotal 0.00

Tax 0.00

Total Invoice 576.50



SUBMITTAL No. 6

TO Maul Foster Alongi **ATTN** Yen Vy Van

DATE 8/11/15 **PROJECT** PROJECT NO

Truck City SKG-15-1427

NUMBER OF PAGES

206.858.7618 **PHONE**

FAX **FROM**

Darren Ness

CC

SEND VIA Electronic Mail

QTY	DESCRIPTION	ORIGINAL	СОРУ	FOR APPROVAL	INFORMATION & USE	COMMENT & REVIEW	REQUEST FOR	PER YOUR REQUEST
1	Asbestos Completion Letter		Х		X			

NOTES

For your file, enclosed is the Asbestos Completion Letter from Environmental Abatement Services.

Document1

The documents accompanying this telecopy transmission contain confidential information belonging to the sender, which is legally privileged. The information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient, you are hereby notified than any disclosure, copying, distribution or the taking of any action in reliance on the contents of this telecopied information is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone at the number listed below to arrange for return of the original documents to us. Thank you.

Environmental Abatement Services Inc

8/7/2015

Darren Ness Wyser Construction, Inc

Asbestos Abatement Project Completed at:
The Food Mart, the CB Shop, the Moose Lodge/Café, and the Truck Wash at the old Truck City site at 3228 Old Hwy 99 S Rd, Mount Vernon, WA

Per the Asbestos Survey conducted by **Peter Snider**, (certification #147486), EAS (contractor #ENVIRAS014RA, asbestos certification #01279) removed asbestos containing material from the above address specifically, 2618 SF of sheet vinyl and mastic, 8 SF of asbestos paper, 900 SF of VAT and mastic, 70 LF window putty, 732 SF of roofing and sealant, 1 cubic yard of vermiculite, and 300 SF of CAB. According to local state and federal regulations, materials containing more than one percent (1%) asbestos must be removed prior to any remodel, renovation or demolition activity.

The material was removed by Certified Asbestos Workers under the direct supervision of a Certified Asbestos Supervisor in accordance with all applicable local, state and federal regulations on 8/7/2015. The materials collected were packaged for final disposal in compliance with all applicable federal, state and local laws.

If materials are identified less than 1% asbestos on the survey work practices and worker protection must be in compliance with WAC 2962-62-077. Additional information is available with directive WRD 23.30 available on the Washington State Department of Labor and Industries website.

The building surveyed, the materials found to contain more than 1% asbestos removed and properly disposed of in accordance with all applicable regulations. A copy of the survey with laboratory report, and this letter, may be used as documentation of the completion of asbestos identification and removal. Any planned remodeling, renovation, or demolition activities should be approved to proceed.

Sincerely,

CATHERINE D MARQUEZ

Cathere D May

OWNER

APPENDIX B DECOMMISSIONED-WELL DOCUMENTATION





SUBMITTAL No. 6

TO Maul Foster Alongi Yen Vy Van **ATTN** PHONE 206.858.7618

DATE 8/13/15 **PROJECT** Truck City PROJECT NO SKG-15-1427 NUMBER OF PAGES

FAX

FROM Darren Ness

CC

SEND VIA Electronic Mail

QTY	DESCRIPTION	ORIGINAL	СОРУ	FOR APPROVAL	INFORMATION & USE	COMMENT & REVIEW	REQUEST FOR SERVICE	PER YOUR REQUEST
1	Well Decommission Logs		Χ		Χ			

NOTES

Enclosed for your file are the well decommission logs provided by Holt Services.

Document1

The documents accompanying this telecopy transmission contain confidential information belonging to the sender, which is legally privileged. The information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient, you are hereby notified than any disclosure, copying, distribution or the taking of any action in reliance on the contents of this telecopied information is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone at the number listed below to arrange for return of the original documents to us. Thank you.

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)	Notice of Intent No. AES 28/
Construction/Decommission	Type of Well
Construction	Resource Protection
Decommission ORIGINAL INSTALLATION Notice of Intent Number RE10182	Property Owner Const. Truck City St. Site Address 3216 GB Hwy 99 5.
Consulting Firm Maul Forter Alongi	City Mount Vornon County Skigit
Unique Ecology Well ID Tag No. TC-3 / BIP 878	Location 1/4 <u>SW</u> 1/4 <u>SW</u> Sec <u>32</u> Twn <u>34N</u> R <u>4</u> or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards	Lat/Long (s,t,r Lat Deg Lat Min/Sec still Required) Long Deg Long Min/Sec
Materials used and the information reported above are true to my best knowledge and belief X Driller Trainee Name (Print) Date Sun, Th	Tax Parcel No.
Driller/Trainee Signature All Suit	Cased or Uncased Diameter Static Level
Driller/Trainee License No.	Work/Decommision Start Date 7-16-15
If trainee, licesned drillers'	
Signature and License No.	Work/Decommision Completed Date 7-16-15
Construction/Design	Well Data Formation Description
CONCRETE SU	RFACE SEAL O - FT Flush FT Romoval 2" x 15" FT 0 - FT
	Backfilled well with Bentonite
DEPTH OF BORIN	G <u>/5 </u> FT
Scale 1" ==	Dago

RESOURCE PROTECTION WELL REPORT CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALI	(LED) No	tice of Intent No. <u>AE32881</u>
Construction/Decommission		Type of Well
Construction		Resource Protection
Decommission ORIGINAL INSTALLATION Notice		Geotechnical Soil Boring
of Intent Number <u>RE101</u>	Sita Address 32	lo Wyser Const Truck Chy st
Consulting Firm Maul Foster Ale	ngi City Mount Vor	
Unique Ecology Well ID Tag No. TC-4 / BIP 8	Location 1/4 <u>54</u>	J 1/4 SW Sec 32 Twn 34N R 4 or WWM
WELL CONSTRUCTION CERTIFICATION: 1 constructed and/or accept re	sponsibility for Lat/Long (s,t,r Lat Deg	
construction of this well, and its compliance with all Washington well construct		eg Long Min/Sec
Materials used and the information reported above are true to my best knowled X Driller Trainee Name (Print)	Tax Tateet 140.	19.79
Driller/Trainee Signature Orla 18 milt	Cased or Uncased Diamet	er Static Level
Driller/Trainee License No. /229	Work/Decommision Start	Date 7-16-15
If trainee, licesned drillers'		
Signature and License No.	Work/Decommision Comp	oleted Date 7-/6-/5
Construction/Design	Well Data	Formation Description
BACK	CRETE SURFACE SEAL Flish Remonsed KFILL 2" x 15" FT TOF BORING 15" FT	0 - FT Backfilled well with Bertonike
Scale 1" =	Page of	ECY 050-12 (Rec=v 2/01)

RESOURCE PROTECTION WELL REPORT CURRENT

RESOURCE PROTECTI			RRENT te of Intent No. <u>A E</u>	32881
Construction/Decommission			Type of Well	
Construction			Resource Protection	ı
Decommission ORIGINAL INSTALLATI of Intent Number	<u>E 16182</u>	Property Owner C/2 Site Address 3216 City Mount Vorn	Geotechnical Soil E Wyser Coust Old Hwy 995 County	, , , , , , , , , , , , , , , , , , ,
	•			ŒWM)
Unique Ecology Well ID Tag No. 7C-5 / B	IP-880	Location 1/4 <u>SW</u>	1/4 <u>5 W</u> Sec <u>32</u> Twn 3	R 4 or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed at construction of this well, and its compliance with all Washington	nd/or accept responsibility for	Lat/Long (s,t,r Lat Deg still Required) Long Deg		Iin/Sec Min/Sec
Materials used and the information reported above are true to m		Tax Parcel No.		
X Driller Trainee Name (Print) Driller/Trainee Signature Driller/Trainee License No.	with	Cased or Uncased Diameter		Static Level
		— Work/Decommision Start De	ate 7-16-13	5
If trainee, licesned drillers' Signature and License No.		Work/Decommision Comple	ted Date 7-16	-15
Construction/Design	7	Well Data	Formation I	Description
	- CONCRETE SU	RFACE SEAL Flush FT Romored 2" × 15" FT Well	0 - Backfilled Bentonike	FT FT Well with
•	DEPTH OF BORING	GFT		
Scale 1" =		Page of		CY 050-12 (Rec=v 2/01)

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)	Notice of Intent No. AES 28/
Construction/Decommission	Type of Well
Construction	Resource Protection
Decommission ORIGINAL INSTALLATION Notice of Intent Number RE10182	Property Owner Const. Truck City St. Site Address 3216 GB Hwy 99 5.
Consulting Firm Maul Forter Alongi	City Mount Vornon County Skigit
Unique Ecology Well ID Tag No. TC-3 / BIP 878	Location 1/4 <u>SW</u> 1/4 <u>SW</u> Sec <u>32</u> Twn <u>34N</u> R <u>4</u> or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards	Lat/Long (s,t,r Lat Deg Lat Min/Sec still Required) Long Deg Long Min/Sec
Materials used and the information reported above are true to my best knowledge and belief X Driller Trainee Name (Print) Date Sun, Th	Tax Parcel No.
Driller/Trainee Signature All Suit	Cased or Uncased Diameter Static Level
Driller/Trainee License No.	Work/Decommision Start Date 7-16-15
If trainee, licesned drillers'	
Signature and License No.	Work/Decommision Completed Date 7-16-15
Construction/Design	Well Data Formation Description
CONCRETE SU	RFACE SEAL O - FT Flush FT Romoval 2" x 15" FT 0 - FT
	Backfilled well with Bentonite
DEPTH OF BORIN	G <u>/5 </u> FT
Scale 1" ==	Dago

RESOURCE PROTECTION WELL REPORT CURRENT

(SUBMIT ONE WELL REPORT PER WELL INSTALI	(LED) No	tice of Intent No. <u>AE32881</u>
Construction/Decommission		Type of Well
Construction		Resource Protection
Decommission ORIGINAL INSTALLATION Notice		Geotechnical Soil Boring
of Intent Number <u>RE101</u>	Sita Address 32	lo Wyser Const Truck Chy st
Consulting Firm Maul Foster Ale	ngi City Mount Vor	
Unique Ecology Well ID Tag No. TC-4 / BIP 8	Location 1/4 <u>54</u>	J 1/4 SW Sec 32 Twn 34N R 4 or WWM
WELL CONSTRUCTION CERTIFICATION: 1 constructed and/or accept re	sponsibility for Lat/Long (s,t,r Lat Deg	
construction of this well, and its compliance with all Washington well construct		eg Long Min/Sec
Materials used and the information reported above are true to my best knowled X Driller Trainee Name (Print)	Tax Tateet 140.	19.79
Driller/Trainee Signature Orla 18 milt	Cased or Uncased Diamet	er Static Level
Driller/Trainee License No. /229	Work/Decommision Start	Date 7-16-15
If trainee, licesned drillers'		
Signature and License No.	Work/Decommision Comp	oleted Date 7-/6-/5
Construction/Design	Well Data	Formation Description
BACK	CRETE SURFACE SEAL Flish Remonsed KFILL 2" x 15" FT TOF BORING 15" FT	0 - FT Backfilled well with Bertonike
Scale 1" =	Page of	ECY 050-12 (Rec=v 2/01)

RESOURCE PROTECTION WELL REPORT CURRENT

RESOURCE PROTECTI			RRENT te of Intent No. <u>A E</u>	32881
Construction/Decommission			Type of Well	
Construction			Resource Protection	ı
Decommission ORIGINAL INSTALLATI of Intent Number	<u>E 16182</u>	Property Owner C/2 Site Address 3216 City Mount Vorn	Geotechnical Soil E Wyser Coust Old Hwy 995 County	, , , , , , , , , , , , , , , , , , ,
	•			ŒWM)
Unique Ecology Well ID Tag No. 7C-5 / B	IP-880	Location 1/4 <u>SW</u>	1/4 <u>5 W</u> Sec <u>32</u> Twn 3	R 4 or WWM
WELL CONSTRUCTION CERTIFICATION: I constructed at construction of this well, and its compliance with all Washington	nd/or accept responsibility for	Lat/Long (s,t,r Lat Deg still Required) Long Deg		lin/Sec
Materials used and the information reported above are true to m		Tax Parcel No.		
X Driller Trainee Name (Print) Driller/Trainee Signature Driller/Trainee License No.	with	Cased or Uncased Diameter		Static Level
		— Work/Decommision Start De	ate 7-16-13	5
If trainee, licesned drillers' Signature and License No.		Work/Decommision Comple	ted Date 7-16	-15
Construction/Design	7	Well Data	Formation I	Description
	- CONCRETE SU	RFACE SEAL Flush FT Romored 2" × 15" FT Well	0 - Backfilled Bentonike	FT FT Well with
•	DEPTH OF BORING	GFT		
Scale 1" =		Page of		CY 050-12 (Rec=v 2/01)

APPENDIX C SITE PHOTOGRAPHS





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

Photo No.

Description

Decommissioning and removal of one 500-gallon underground storage tank (UST) and one 15,000-gallon UST, looking north. Photo taken on 8/6/2015.



Photo No. 2

Description

UST excavation pit, looking east. Photo taken on 8/6/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

Photo No.

Description

UST excavation and dewatering, looking west. Photo taken on 8/7/2015.



Photo No.

Description

Excavation of fuel product line, looking west. Photo taken on 8/12/2015.





Photo No.

Description

Excavation of fuel product line and former dispenser islands, looking south. Photo taken on 8/12/2015.

Photo No.

Description

Former truck scale and Baker Tanks in the background, looking south. Photo taken on 8/12/2015.

SITE PHOTOGRAPHS

Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington







Photo No.

Description

Overexcavation of product line area to the southeast of the former convenience store, looking west. Photo taken on 8/18/2015.

SITE PHOTOGRAPHS

Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington



Photo No.

Description

South dispenser island excavation showing location of abandoned UST, looking north. Photo taken on 8/20/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

Photo No.

Description

Granular activated carbon filters and sediment filters, looking south. Photo taken on 8/21/2015.



Photo No. 10

Description

Water-treatment system, including two 21,000gallon Baker Tanks, sediment filters, granular activated carbon filters, looking south. Photo taken on 8/21/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

<u>Photo No.</u> 11

Description

Overexcavation of RE1, looking north. Photo taken on 8/21/2015.



<u>Photo No.</u> 12

Description

Backfilled former UST excavation area, looking north. Photo taken on 8/21/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

Photo No. 13

Description

Excavation of abandoned 650-gallon UST, looking east. Photo taken on 8/25/2015.



Photo No. 14

Description

Decommissioned, abandoned 650-gallon UST. Photo taken on 8/25/2015.





Photo No. 15

Description

Interface between historical backfill material and native soil in the western excavation area, looking northwest. Photo taken on 8/28/2015.

SITE PHOTOGRAPHS

Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington



Photo No. 16

Description

Extent of western excavation area, looking west.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

Photo No. 17

Description

Staining observed along eastern wall of western excavation, looking east. Photo taken on 9/3/2015.



Photo No. 18

Description

Southern excavation limits of western excavation. Photo taken on 9/4/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

Photo No. 19

Description

Stained soil south of the former convenience store, looking east. Photo taken on 9/4/2015.



Photo No. 20

Description

Northern boundary of western excavation. Photo taken on 9/8/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

Photo No. 21

Description

Dewatered excavation and initial backfilling of imported clean fill material in excavation area near former truck scale. Photo taken on 9/8/2015.



Photo No. 22

Description

Stained soil south of the former convenience store, looking east. Photo taken on 9/10/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

<u>Photo No.</u> 23

Description

Sheen in water to the south of the former convenience store, looking north. Photo taken on 9/14/2015.



Photo No. 24

Description

Preparation of ORCa application to imported clean backfill, looking north. Photo taken on 9/16/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

Photo No. 25

Description

ORCa application, prior to mixing with imported clean backfill, looking east. Photo taken on 9/11/2015.



<u>Photo No.</u> 26

Description

ORCa application and mixing with imported clean backfill, looking north. Photo taken on 9/10/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

<u>Photo No.</u> 27

Description

Demolition of former convenience store, looking north. Photo taken on 9/24/2015.



<u>Photo No.</u> 28

Description

Excavation extent of eastern excavation, looking east. Photo taken on 9/29/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South, Mount Vernon, Washington

Photo No.

Description

Remedial excavation backfilled to grade, looking north toward the former Truck Wash. Photo taken on 10/12/2015.



<u>Photo No.</u> 30

Description

Remedial excavation backfilled to grade, looking west. Photo taken on 10/12/2015.





Project Name: Truck City Project Number: 0714.03.01

Location: 3216 Old Highway 99 South,

Mount Vernon, Washington

<u>Photo No.</u> 31

Description

Remedial excavation backfilled to grade, looking west. Photo taken on 10/12/2015.



APPENDIX D FIELD NOTES



9/30/15 - Wednesday 0714.03.01-ZA Conditions: clear ? Sunny (continuation of August 2015-September 2015 Truck City yield notes) 9 Time 1200 Geotest on site 1205 Garbage / debris truck on site 1230 Proctor tests at approx. 5 it depth dong the northern wall of the excavation read between 80-83.5. Additional compaction was done on the area to reach readings above 85 FBI counier at voite Por sample pick-up 1305 Proctor tests to south of James 1308 convienence store all above 85 at le, 5 depth 1320 Truck ? trailer -> PCS 1330 Northern wall of western excavation was re-tested by Gestest after additional compaction. Results were 3 determined at 85786 with the proctor 3 1400 Geotest of site Truck + trailer -> PCS 1405 Wyser continued backfilling area of western execution 1500 Wyser ? CRIO coff soite 3

Rite in the Rain.

Monday - 10/5/15 07H. 03.01-2A Conditions: clear and sunny 0810 CRW amues on site Mitch of Wyser on site 18-55 lb bags of orlar Begin applying ORC to backfilled soil Truck ? trailer > PCS 915 930' Truck? trailer 935 Vac truck on site for clean up of Baker tanks Mix ORCa with clean back fill to le 5 ft bas 1000 within area to the south of the Comer convienence store, as well as area below joundation of former convienence store, no ORCa left truck ? trailer > PCS on site 1145 1200 I truck? trailer -> PCS. I last truck of PCS removed from wite Wyser continues to break up concrete footings and the convienence store foundation for disposal ulgoer compacts ORCa mixed ourface 1210 with weller equipment I truck ? trailer = concrete/asphalt off site

I truck ? trailer = clean backfill on site/renon 1320 1430 I truck? trailer -> clear backfull onsite concrete CKW off site -> remove concrete off site from site 1452 1530

10/6/15 - Tuesday 0714.03.01-24 Conditions: cloudy and cool, low 50s 830 - CRW arrives on site, Wyser already on site I truck + trailer = concrete pick up Mike of Wyser indicated prior to my amual: \$2 picked up concrete I truck + trailer - drop off import wand 856 - pick up concrete 930 1 truck? trailer > drop import full 1010 I truck? trailer > drop import fill -2 pick up concrete * Last meta reading = 23497 1030 I truck? trailer -> import sand drop 1040 Spread imported sand as a 1-1.5 ft life in the excavation area to the south of the former convienence store. Wyser Using a roller to compact sand in excavation your each I truck? trailer - import drop of sand 1125 1140 I truck? trailer > imported sand Comer of convienence store to 34 feet 1215 2 truck trailer - deposit imported said 1230 as of 1230, 700 1-1.5 ft lifts to were laid and compacted in the southeast comer of the excavation to the south of the former convienence store, ~ 4 below I track tracker - deposit import sand 1304 1315 I truck? traler - & deposit import sand 1330 Geotest arrives con site 4 It lift area had 2 tests performed one at 95, second at 96, 1350 1400 truck? trailer -> import sand Geotest off site 1405 1500 I truck? trailer > import sand

Rite in the Rain.

10/12/15: Monday 0714.03.01-ZA 1315 CRID on site 1320 CRW begin inspecting site for closeout checklist o site to has been back filled to grade with approved imported sand and existing clean overburden woil · all garbage created from site activities has been removed from the site.

the property has been sweet or
paved surfaces and isignage has been removed from · Storm wester controls have been removed an excavator, roller, and weeper remain at loite and will be removed by Thined mike R. end of day on Tuesday, Oct. 13th · all fencing will be removed from 3 sanitary bucket will be removed by cos on Tues, Oct, 13 80° 00 · cement barners along old Highway 99 will remain on site, unless removied by the County, barriers were onsite prior to Wyser's arrival · all 55-gallon drums storing DW from previous investigation work are were removed from roite a · area of excavation has been compacted with roller and comoothed out to be in greade with the councinding ground surface · Monitoring well monument broken by heavy machinen rating over it located to the west of the moose lodge restaurant 1420 - Property owner onsite to inspect buildings 1440 - CRW offsite

3

Rite in the Rain.

Truck City, Mt. Vemon, WA

MAUL FOSTER

0714.03.01

Toucks 03:02A

August 2015 -September 2015

Rite in the Rain.

ALL-WEATHER

FIELD

Nº 353-MX

Truck City, 0714.03.08-03 Mt. Veman UST Excavation Date: 8/16/15 Conditions: Cloudy with light rain 655: Carolyn Wise of MFA onsite 658: CRIO of MFA meet with Mike David, Daven, of Wyser Construction 705 Hang poster en Spence, Dale Myers on 81te 710: Begin excavating overbuders soil overburden soil: brown med-fine grain, native? laminated sa grains, coome piping, coarse, r-sa gravel along of piping, gray colored Native fill = blue gray, ps med sand
ground water at a 10 feet during
time of excapation 830: Removed tank I from excavation
Dimensions 15'x 8', no pitting or convenion
observed 845: Removed tank 2 from excavation
Dimensions: 15'x8', no pitting or corrosion
900: Annette of DOE onsite observed Soil Conditions pative

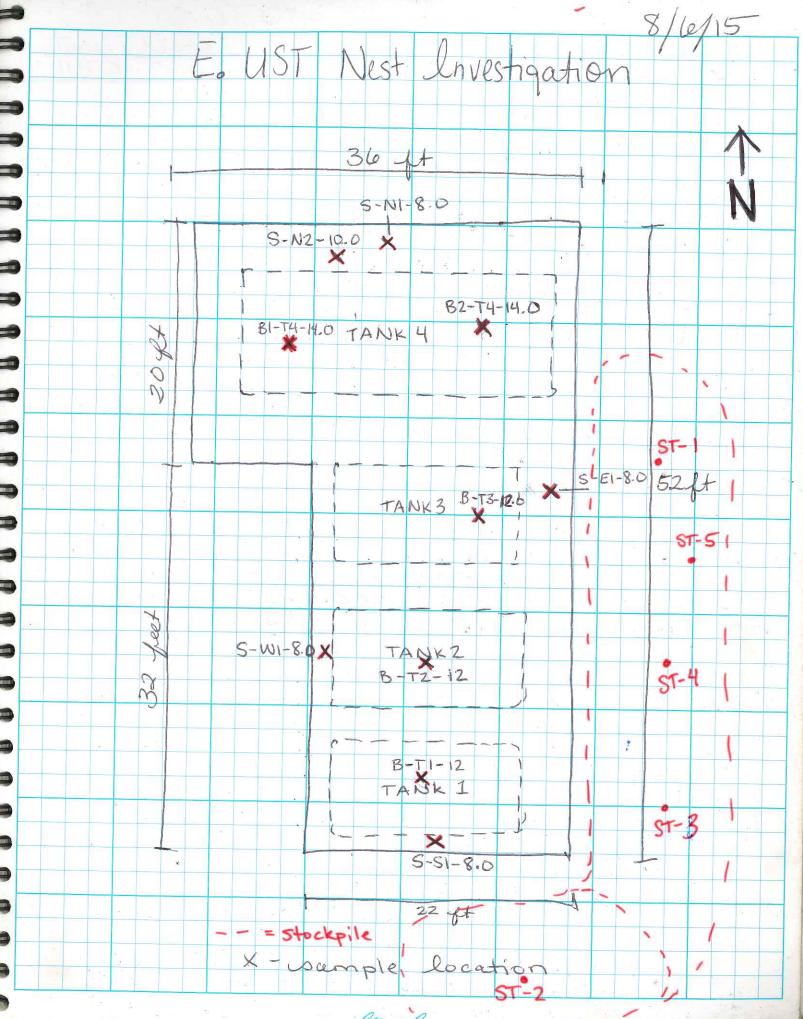
Interface of backfill and native at 5 ft bys

Throughout the excavation, capillary Below 8 feet by throughout of expanded of strong odors observed dering tunks I or 2's removal

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Rite in the Rain.

8/10/15 909 - Collect sample base of tank 1 2 (formerly contained gasoline) PID = 0. Oppm 915 - Collect Sample base of tank 2 PID = 3.7 ppm (formerty contains gasoline) Mar Vac on site to clean out fuel lines 930 -945 - Tank 3 pulled out of excavation some full-like liquid running on south wide of tank previous excavation areas TANK 3 - PID = 000 ppm 47.4 ppm TANK 3: Dimensions 8x15'. no obvious signs of on tank, fuel-like floating substance observed in water of excavation along si boundary Begin excavation of tank 4, 1000 a 15,000 gallen dusel tank Remove Tank 4 > formerly containing biesel 1030 26'×10' 12 no pitting or composion observed P1D = 4.8 ppm @ Base of 15k tank, rounded-sr cobbles 23 ft thick 1130. Collect sample from bottom of TANK I PID = 0. Oppm B-T1-12-0 Silty sand, loose, gray, m-f, PS 1138: Collect sample from bottom of TANKZ B-TZ-12-0 q PID= 0. Oppm silty sand, loose, gray, m-6, ps, some 1145: Dale Myers offsite



Rite in the Rain

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				5	wy a s	
	Sample Ta	ble		, s	- /	
. (Sample 1D	Date	Time	PID (ppm)	
	S-W1-8.0	8/10/15	1204	0.0		
-	5-51-8.0	8/6/15	1150	0.0		
	B-T1-12-0	8/6/15		0.0		90 24
٠.		8/6/15	\$ 10	0.0		ž ,
	B-T2-12.0	8/6/15		0.0		
K ,	S-NI-8.0	8/6/15		0.7		
-	S-E1-8.0					- a
	ST-1	8/6/15		47.4	# 15 \$ 9	*
	ST-Z		1345	5.7		·
8	ST - 3		1350	4.2		
	ST-4	8/6/15	1355	3.1		
-	ST- 5	8/1/15	1045	26.2		
	B1-T4-14.0	8/7/15	1000	0.0	- 1 (A)	
	B7-T4-14-0	8/7/15	1130	17.8	*	5 %
		8/7/15	1300	0.0		
	B-T3-12-0 S-N2-10-0	8/1/10	4155			Q.
		1 413	,	0.0	-	2
				X.		
			Δ.	i :	10 A 2	- 4
					11 A	

8/6/15 0714.63.01-03 Notes Time Collect south sidewall sample 1150 = from UST excavation pit, capillary fringe · no odor · PID = 0.0 ppm @8.0yt · Sample 1D: 5-51-8.0 1204 Collect soil sample from west sidewall of UST excavation pit, from capillary chings. one odor · PID= 0.0 PPM · Sample 1D: S-W1-8.0 · Soil type: silty sand, gray, moist grain, loose, 1 1300 Collect sample at north coidewall within capillary fringe at & 8.0 ft bgs -· PID = O- Oppm · Sample 1D: S-N1-8-0 · Soil Type: with sand, loose, gray, Annette Ademasie of Ecology of 1330 Collect sidewall Cooil sample along side of UST excavation with Capillary Image at approximately · PID = 0.7 ppm · Sample lD: 5-E1-8.0 · Soil Type: oithy sand gray, m-f loose moist 1340 Collect stockpile sample from north end of stockpile (see map) \$200-300 yd3 PID = 47.4 ppm · slight odor · Sample 1D = 8T-Z 1345 Collect stockpile composte pample from south end of stockpole no odor o PID = 5-7 ppin · ST-2 Rite in the Rain.

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8/6/15 0714.03.01-03 Time Comments Collect composite stockpile sample
from southeast comer of
stockpile

nocodor

PID = 4.2 ppm

« Sample ID = ST-3 Couner from FBI arrives to Couner offsite with samples 1355 Collect composite soil sample

from middle of stockpile (see map)

ono odor

oPID = 3.1 ppm

oSample 1D = ST-4 0 Wyser begins covering UST excavation with plastic wrap UST excavation stockpile covered with plastic wrap 1400 1410 Near water and gas line on western portion of site to provide Gas to cap line 1430 1600 Wyser Construction and Carolyn of

0714.03.01-03 Enday 8/7/15 Conditions = partly cloudy? sunny Time Comments

715 Carolyn Wise of MFA arrives on site
Wyser construction already on site Two of the 5,000 gallon USTs formerly containing gasoline loaded on truck of for off pite disposal 730 Dale Myers of Ecology on site 735 Water level in excavation pit vose between 815 from approximately 10 ft by to 7.5 ft by as neascred from the side f the excavation Water in pit observed to be It brown, sludger 900 Begin pumping out water from exculation in order to collect confination soil Tanks 3 and 4. base of executation at Observed brown-reddish brown colored 915 soil along northern sidewall of execuation pit (see map), slightly discolored water seeping from to Dale Myses off site 1000 Collect Eonfirmational soil sample from base of Tank 4 at approximately 14 feet bgs · Cobbles observed at buse of Tank 4

· Soil Sample in diameter, gray ono odor o PID = 0. Oppm o poorly - graded Sand, gray, loose,

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0714:03.01-03 8/7/15 Time Comments 15,000 gallon tank loaded and secured for off wite disposal 1030 Collect additional composite soil
stockpile sample

• PID = 26.2 ppm

• no odor 1045 · no odor ° Sample 1D = ST-5 1100 Continue dewatering UST execution for base confirmational samples Collect Confirmational soil sample from base of east side of 15 R gallon UST • no odor • PID= 17.8 ppm 1130 · Sample 1D = B2-T4-14.0 · Soil Type = silty sand, gray, moist, loose, fin 1155 Collect additional sidewall sample from UST excavation from light brown soil area @ 10.0 ff bgs · PID = 0.0 ppm · Sample ID = S-N2-10.0 · Soil Type = light brown, ps sand, m-f, louse, moist 1200 Break for lunch 1230 Continue dewetering excavation Collect continuational sample from
base of TANK 3 5 former location 2 12,

o slight odor o Sample 1D = 69s

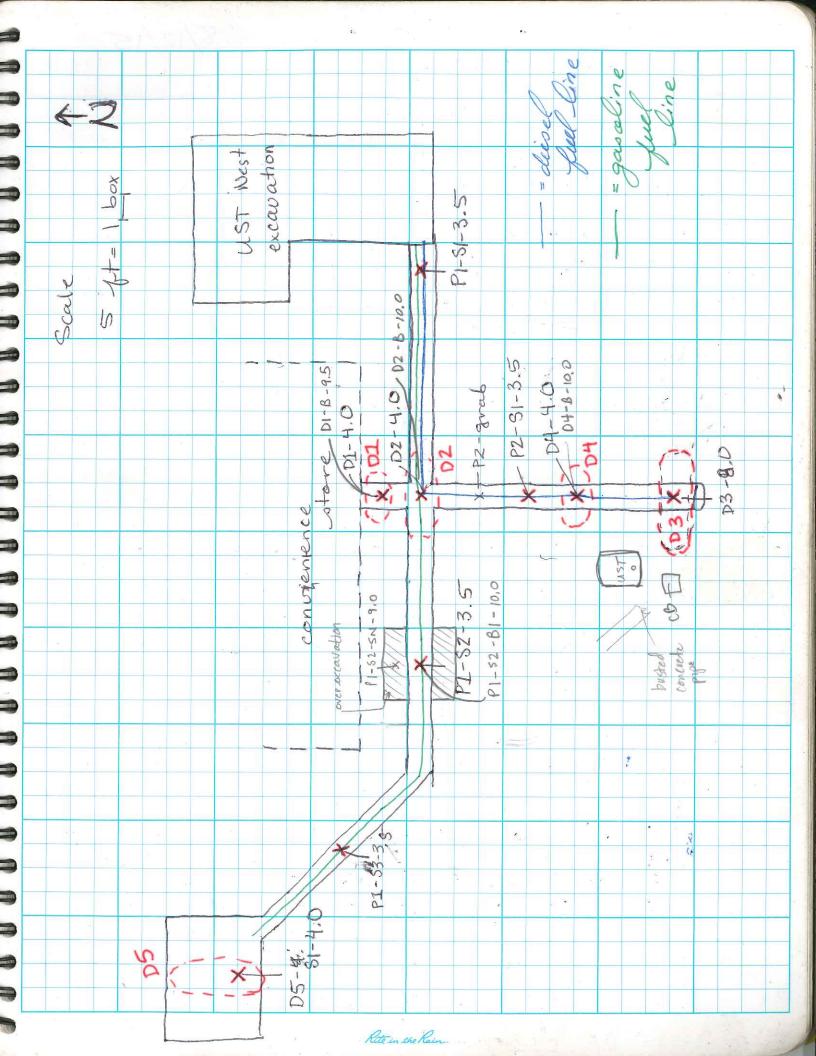
o PID=0.0ppm B-T3-12.0 1300 - cobbles observed at base, 2-3 in in drameter, V-SV

0714.03.01-03 (omments Time Charlie Wend of sheriffs department 1305 Charlie Wend off soite 1308 Wyser begins breaking up and removing 1310 overburden concrete from of UST excavation area ? FBI courier arrives on soite to collect soil samples and drop 1430 aff additional coolers 1545 Rick of Mt. Vermon planning depart Rick coff soite 1 Carolys of MFA off. 1615

Conditions: partly cloudy; warm 8/12/15 Time Comments 645 MFA (CRIO) and Wyser (Mike? Darren) on site 3 Dale Myers on site 700 3 Sump pump to east of truck scale was noted by Wyser deming 715 4 9 decommissioning to not have had a base, Wyser noted odor during excavation Truck scale base noted to have some descoloring and oc 7 Begin excavating around product lines to below pea gravel layer. Collect product line sample I 730 800 eno odor PID = 0.0 ppm · Sample ID = PLI - SI <u>a</u> · Soil Type = below pea gravel light brown fine sand, ps, moist-oly 845 Odor observed in trench pit of product lines of SW corner of Convenence offere during extravation of product line to gasoline tanks Collect product line sample where 715 diesel line elbows to South pump islands below pea gravel @ 4 ft 3 · strong odor · PID= 139.7 ppm · Sample ID = PLI-SZ · Soil Type = 55 light graces moist, m. with 4 4 of groun

0714.03.01-03 8/12/15 = Time Comments 950 Collect confirmational sample from base of dispenser I a 4 ft · PID = 19-1 ppm · Sample 15 = DI - 4-0 Soil Type = light grey sand w/ gravel, moist, loose-m.dense le 0% sand, m-f 30% gravel f, sr-sas 10% fines Collect sample from base of pea gravel pump cisland 3, significant pea gravel backfill 025 · Sample 1D= D3-8.0 · Soil Type, light gray SS, f, moist excavation Collect grab PID sample from product line 2 at 35 feet **1**050 P1D = 1-4 ppm (P2-grab) ppm Collect sample from product line = 1055 · Strongt odor · PID = over range · Sample Soil Type = SSM-f, monst loose, shight odor poorly sorted m- fround = 1200 - Collect soil sample PZ-SI-3.5 ono odor 0P/D · Soil type = light brown SS. vf.f.

0714.03.01-03/2a
Time Comments 8/12/15 1215 Break for lunch Collect confirmational soil coample (3) 1300 along product line 7 - pin = 18.3 ppm - ID = PI-53-3.5 - Type = 40% gravel 40% sand 20% fines, It brown, m. shiff moist 1326 Collect confirmational cool sample from base of Tank 4 - strong odor - PID = 408.7 ppm - 1D = D4-4.6 - Type = light grey silty sand, ps, m-f grain, loose, moist 1330 Dale Myers of Ecology off site Collect continuation woil sample 1345 beneath despenser 5 · no odor · PID = 3.4 ppm · 1D = D5 - 4.0 Type: 50% gravel, f-m, light brown 40% sand, sa-r, m. stiff 10% fines, moist after to collect additional soil 1400 example beneath pump island 5 Soil was excavated to 10 ft bgs and observed to be coarse gravel, angular groundwater a approx. 8 It bas unable to collect supplemental sample Courser from FBI collects samples 1430 Demob egeripment 1445



8/12/15 Summary for Samples Collected on 8/12/15 PID (ppm) ID P1-51-3.5 0.0 D2-4.0 ppm 19.1 DI - 4.0 D3-8.0 92.1 P1-52-3.5 over range (>5000) 4.7 18.3 P2-53-3.5 04-4.0 408.7 D5-4.6 3.4 P2-51-3.5 4.7 1600 - Carolyn Wise of MFA Wyser Construction of

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8/18/15			
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Ecy (Dane myers)	ARRIVED C 5700		
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COLLECTED PID	BEADINGS. OURING OVER-EXC	AVATION	
		100	
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		COTES BASE 18 500 C	AMPLE (P1-52-B1-10,0)
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	7' 40	THE STORE	
P1-52-5N-9,0)	91 16 -> 2014	ECTED SAMPLE PI-SI	(0870)
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		ors - didn't collect	20
5			
	5' 58	executation down to	water.
		ny DI location.	•
	2' 35	ng DI 10 carrar.	
		7 71 2 25	(102)
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(02-6-10,0) 10.		2 WILL CONT. EXC TO	
D4-8-5 5	/ 20	ingle 02-B-10,0	(hit GW)
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(D4-B-10,0) 10		State In	
201-8-70,0	C. M. A. J. San.	de Di B	
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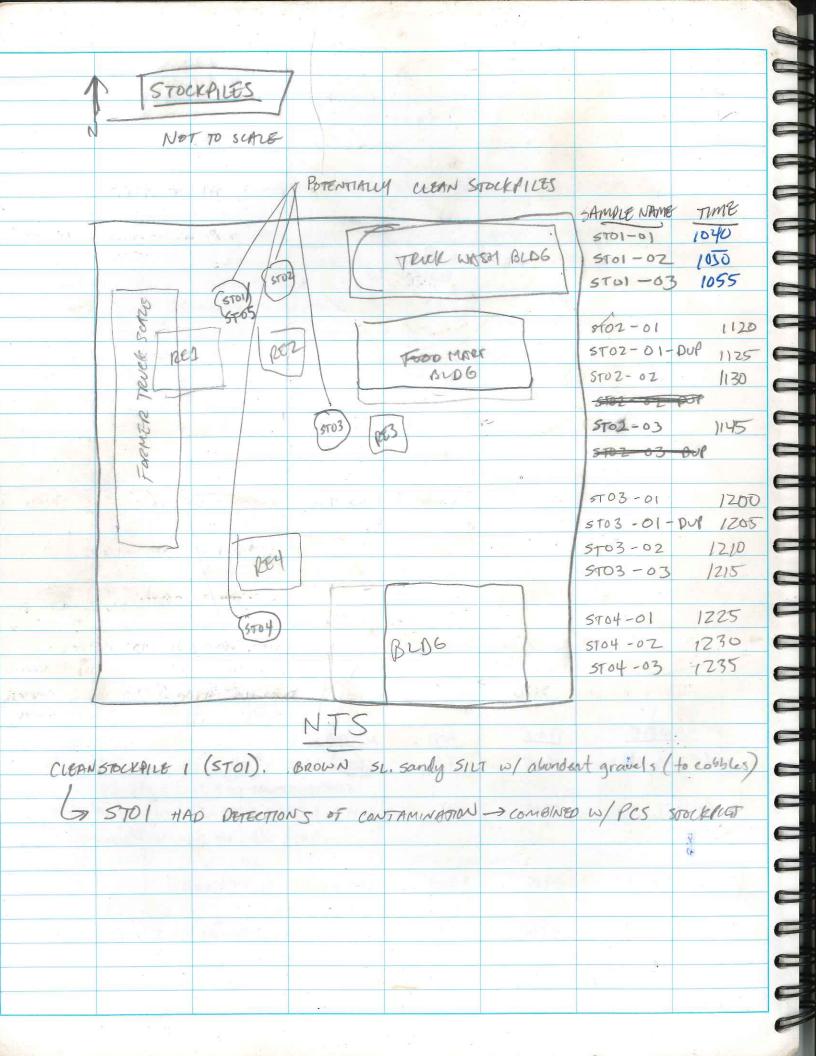
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07H. 03.01-ZA 8/19/15 ASK + WYSER ARRIVED ON STIF @ 0645. PUMP ISLAND EXCAVATION FROM YESTERDAY FILED W/ 6W (a couple feet) REI EXCAVATION ALSO FILED W/ 6W, - BOTH HAVE A SMEEN OVOR THE WATER (SEE PHOTOS) WYSER CONTINUING TO DIG REY AND MOVING CONTAMINATED STOCKPILE EXCAVATED REY AREA. SEE NEXT PAGE, WYSER DEWATERING REI SO WE CAN COLLECT SAMPLES. ALSO BESINNING REZ ARRA MARK FROM THE CITY CAME BY TO CHECK ON STATUS/ SCHEDULE. @-1230 WYSER TAKING LUNCH 1230-1320, EXCAVATING REZ AREA. CLEAN MATTERIAL WITHIN TOP ~4 STOCKPULD SEPARATELY DARK BLACK LAMER STARTING ~5' Lgs STRONG ODOR, EXCAVATED DOWN TO NO! , GW PRESENT, 1430 WYSER STARTING TO 016 RE3 MIKE (WYSER) OFFSITE @ 1500(TO GET SUPPLIES FOR DISCHARGING WATER) COURIER (PBI) PICKEDUP SANFLES @ 1500,

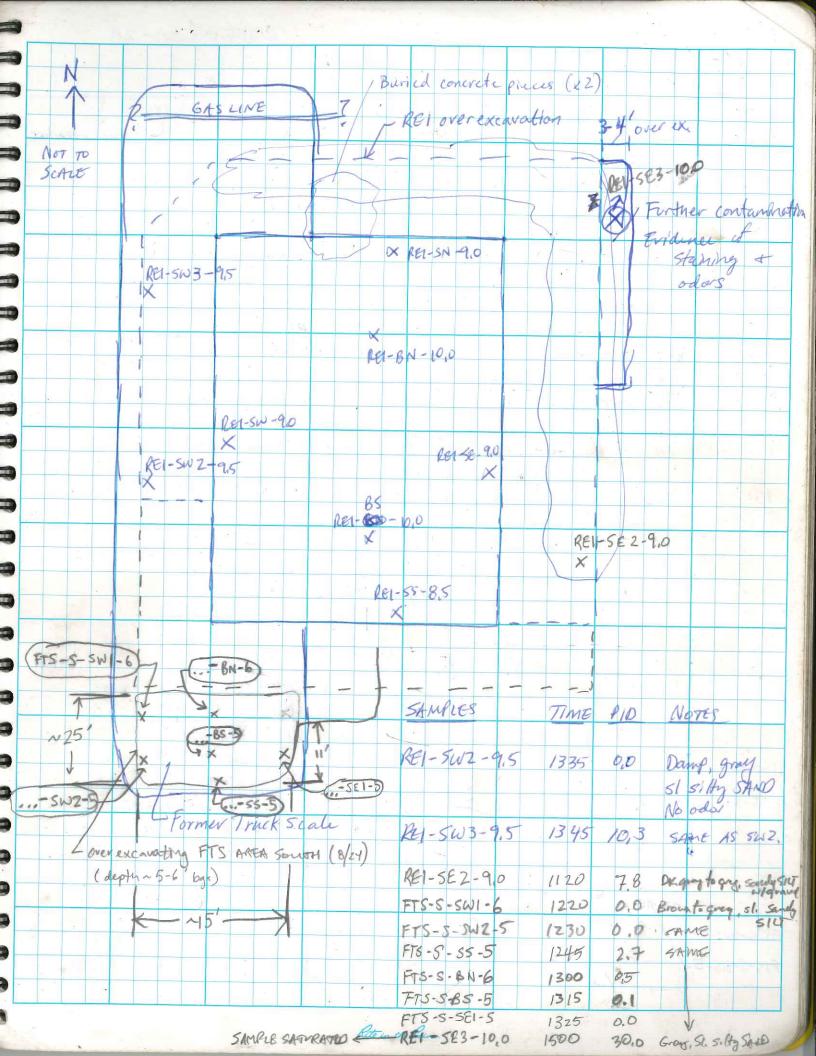
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	SAMPLE	LOCATION	DEPTH	PID	TIME	
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B206 - 3rdewerk REB-SN2-9.0 - V overexcavation 8/25 -10/ (8' Boverhay / Auning (sp)) RE3 R 3-51-9,0 WATER PRESNT IN EXC. AFTER SAMPLING. SIMILAR TO GWIN PL MAREA - SHEEN ON TUP RE3-SE-RE3-5W-9.0 RE3-B-10,0 X 1 X RE3-55-9,0 1 -SAMPLE DME PID 1 RE3-B-10,0 7 ppm 0725 (DAMP TO WEST) GRAY ST. SIFTY SAND (SATURATED) 7 45 RE3-5E-9.0 -0735 5 GRAN, SILT W/ frage son -SE Brown to great SILF RE3-55-9,0 0750 5 25 RE3-5W-9,0 0805 Geor very prive SILT w/ trace organics × 5000 RE3-5N-90 GRAMY SANDY SILT W/ Trace 08 30 organics Re 3 - SN 2-9,0 *5000 GROY + BLACK, SI. granely sordy SILT. 1120



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0714-63-01-24 8/25/15 ASK ON SITE, WYSER MEREADY LOADED 3 TRULE TRAVERS OF PCS, 0700 STALTING TO OVEREX, REZ. 0850-0945 MARVAC ON SITE TO FUMP CONTENTS OF TANK ASK COLLECTING STOCKALE (RE-STOB) SAMPLES 1000 TPMB! 1000 RE-5TO6-1 1010 RF-5T06-2 RG-ST06-3 1020 FIRE DEPT, (STEVE) ON SITE TO INSPECT TANK IN PLANEA 1105 SAUS NE REORTO PULL IT, NO SIGNS OF PITTING OR PAMAGE - DON'T NOED TO TENE DO COLLECT SAMPLES HE'D LIKE US TO DIFFERENTIATE A NAMES FROM PREVIOUS USTS OVER EX. AT NORTH SIDEWALL OF RE3. COLLECTED SAMPLE 1100-1130 RE3-SNZ-9,0 @ 1/20 WYSER ALLED TANK NO SAMPLES COLLEGED YET. FIRE MARSHALL 11451 SAID WE WERE OR WONT SAMPLES; PLUS AREA LIKELY TO BIS OVER EXCAVATED ANYWAYS, ASK COLLECTING WATER SAMPLE FROM DISHAFEE 1200 DR: P TURB PU DU CANO. TIME TEMP 668 ugn 1,51 mg/c 74,5 6.8 NTU 21,25°c 6.61 1200 7.02 79.1 0.64 6.79 668 1203 21.14 BT-POST-3 0 1205

[PE-STOB] RE2 OVEREXCAVATION gas line Not yet decommissione) original At 7 Est (15 × 15) 3 Staining 18-10/695 7 TOP 5 AT PLACED IN -A SEPARATE STOCKPILE staining + odor FOR REUSE AT BACKFILL Staining + 1 ~ 1' thick 9-10' bgs Stanley + odor 18-10' by 8 116 Exist, CB -3 9)

0714.03.01-2A 8/26/15 Conditions: partly cloudy? sunny 700 - CRW on site, Wyser on site removal of soil for off site disposal * Refer to notes con 8/24 fear additional sample locations at REI : the wyser removes asphalt from around REZ, all vides Wyser initiates discharge of treated water from
Baker tunks to coanitary sewer 815 Begin dewatering former truck socile ? REI area Begin excavating north end of youner truck scale Observed strong odors within excavated soil beginning at about tolafeet to 10 feet 900 915 945 Collect west oidewall sample from former scale Collect base sample from famer truck scale
Attempted to collect east sidewall sample, 1100 PID readings or grad samples were all obove range (> 5000 ppm) Begin removing asphalt between REI PFTS to 1200 1230 REZ in anticipation of lateral expansion from either RE area FBI courier on site/off site 1340 Wyser removes top 4 ft of soil between REI?
in anticipation for sampling 8/27 AM REZ 1400 CRW off site 1530

8/26/15 0714-03-01-ZA NS-10 SN Former truck scale 7 --gas ene - REI Area 7 FTS-N-SWIS NOTES PID SAMPLE JIME -575-N-SW-90 945 sardy silt 0.0 FT5-8-10.0 7 FTS-N-SN-9.0 1000 0.0 11 FTS-N-B-10.0 1100 0.0 7 Sat. 1 7 - = asphalt and top soil removed in anticipation of collecting samples to north of REI? 1 east of the former truck scale 7 --7 SOIL TYPE SAMPLE sandy with lt grey, soft, of sand grains trace woody? leafy debris, no odor FTS- N-SW-9.0 1 1 -FTS-N-SN-9.0 SAA, no odor 1 FTS-N-B-10.0 Sand (3P), It grey 1 m-f greating, -

0714.03.01-2A 8/27/15 Conditions with few clouds 705-CRW on site, Wyser already on site loading PCS into truck for off site disposal steen observed in water within former truck scale 730-JLC on site of MFA ?REZ area 800 - Marc Estudid on site? Roger Howard 815 - Dairen Ness on Site 830 - Mare? Roger off site 840 - De watered former truck scale, ULC off site 900 - Darren off site 950- Collect a northern sidewall sample of REI 1030-Significant wheen in sand at northwestern expansion area of REI at approximately 10-10.5 ft approximately form Back J. I material to north of expansion gray-colored from 8-10 ft bgs

- Refer to location 2 on field map 9 1200 - Lunch 1230 - over execusate south edge of REI.
1310 - color change in soil south of REI at = 7 ft 1422 - Collect second south sidewall comple 1425 - FBI courier to pick up samples: 1440 - Collect second south sidual sample 1450 - Begin excavating 5-10 depth in area between REI & REZ 1550 CRW 3 Wyser off site

0714.03.01-ZA 8/27/15 PID Gras Samples 7 2 = 6.7 ppm@10 2 =>5000 ppm@ 10 N 50 70 90 30 110 7 -1 X REZ REZ 30ft -→ + 02 → 02 -2014 1 106 10-61 2 40 20 100 80 > roadway Sample PID Notes Time REZ-SN2-9.0 950. 0.0 brown, &W, a-sa, m-c, d-m RE-STO7-1 1210 0.0 RE-5T07-2 0.0 1215 SAA RE-STO7-3 1220 0.0 SHA 1422 REZ-SSZ-10.0 1-2 SW, grey, m-c, a-sa, moist lt.gray, &M, f, firm, moist REZ-553-10,0 1440 3.4

8/28/15 Conditions: cool, partly cloudy CRW arrives on site 0714.03.01-ZA 700 Wyser already on site finishing loading 4th dump truck? pupt sheen observed in water in western 710 excavation (REI, REZ, +FTS): 19 RE3 730 New backhoe arrives on site 800 Wyser begins consolidating stockpiles to provide access to south wall 5 cop western excavation 900 Truck on site for removal of PCS Cascade Natural Gas on Site to cap gas line PSE on site to verify lack of electric connection Began discharging treated water to sanitary Couptern 1000 1010 Sheen observed in water in area between REI ? REZ 1030 1100 Truck arrives for PCS pickup 1200 Wyser breaks for lunch Collect water quality parameters from 1210 Collect water sample from Baker Tark Truck arrives for PCS pick up 1230 1300 FBI courier arrives to pick up samples Cascade Natural Gas off site Truck arrives for asphalt pickup i disposal 1344 1415 1420 offsite CRW + Wyser off site 1530 Notes Samples PID Time SP, et grey, loose, m-f SP, et grey, loose, m-f REZ - B2 - 10.0 1140 0.0 REZ-B3-10.0 1150 0:0 BT-POST-4 1230 Water Quality Parameters DOMYL pH ORP Time Temp Cond. Turb 1210 19.84 0.86 7.13 79.5 16,20 771 76.9 771 1220 19.62 0,80 7.21 76.0 771

8/31 0714.03.01-24 Conditions = rainy, cloudy, windy CRW arrives on site 700 Wyser already on site and loading PCS into truck for disposal 730 2 dump trucks loaded with PCS for off site disposal I dump truck loaded with PCS for disposed 800 Begin excavating southwest ordewall of KEZ/C 830 area between REI > REZ I dump truck loaded firth PCS 840 Collect scenthwest sidewall sample (SSZ) 936 2 dump trucks loaded with PCS 1000 Collect southwest sidewall sample 1045 (REZ-553-9-0) I demp truck loaded with PCS 1145 I durip truck loaded with PCS 1210 I dump truck loaded with PCS 1215 Lunch 1230 Odors observed in area to the southwest 1300 Of REZ FBI on wite 1322 I deemp truck loaded with PCS 1350 I dump truck loaded with PCS 1410 Continue to over- excavating south 1430 sicle of REZ 1530 CRW and Wyser off site

9/2015 0714.03.01-24 1 N 112-6 3 1 60 pt 7 staining Stain CB 3 odovs 1 9 30 9 Odors o 9 15 3 9 3 Notes 9 Time 915 Sample PID RE-ST08-1 0.0 3 930 RE2-SS2-8-0 GP, brown-It grey f-c, a-sa, m 0.0 945 RE-STO8-2 0.0 1. (grab) RE- 5708-3 3.7 9 1013 0.0 3 1045 REZ-SS3-9.0 0.0 GP, brown/gray, f-c, sa-a, moist

0714.03-01-0ZA Conditions: cloudy and cool 700 crw arrives on site Wyser already on site and working to reposition stockpiles north of I dump truck on site for PCS removal

I dump truck on site for PCS "

I dump truck on site for PCS "

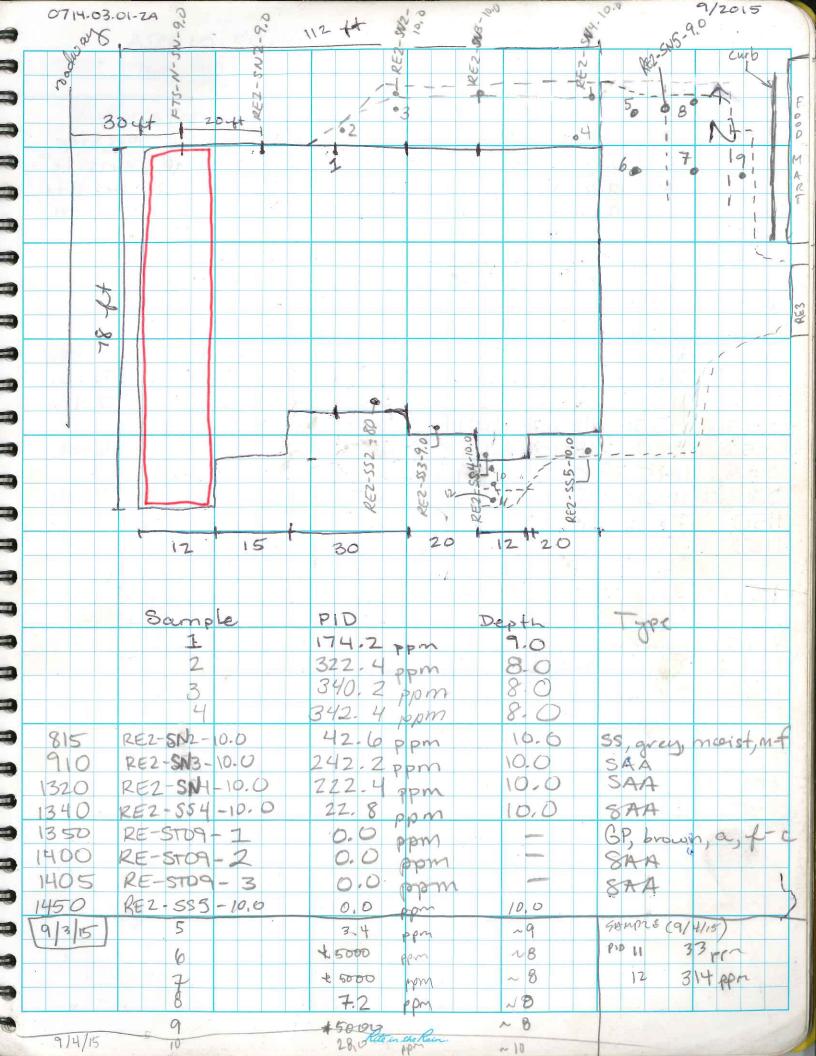
I dump truck on site for PCS "

Continue to remove otock pried coample. 710 745 750 920 930 from north voide of REZ I dump truck on site for PCS removal 1000 I dump truck " "

I dump truck "

I dump truck " 1100 1142 dump truck 1200 Wyser replaced on It filters in Baker Tank
I dump truck
Continue cleaning out north side of

RED 305 1308 1344 1400 CRW: Wyser off ste 1540



12 - Wednesday 6714.03.01-02A Conditions: partly cloudy 700 CRW on sife Ak onsite, Wyser already on site

2 dump trucks for PCS removal on site

1 dump truck for PCS in in

Tony Silva on site

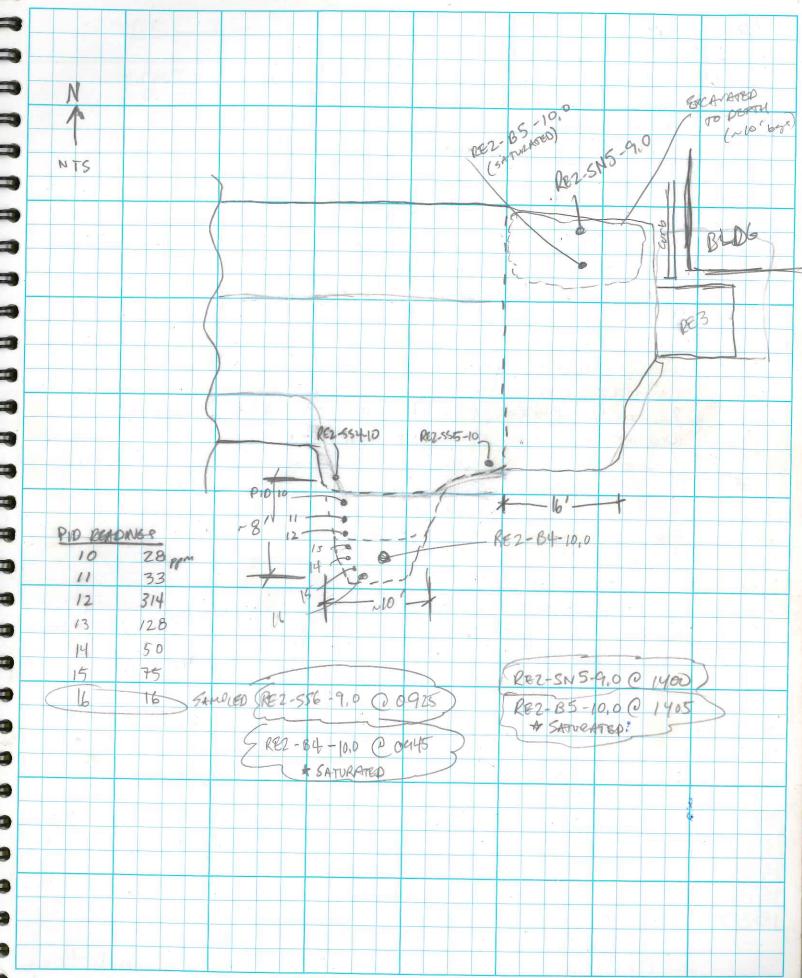
Wyser continuing to excavate base

of north side of REZ 705 710 920 1000 1005 1010 I dump tuck on site for PCS removal Begin collecting water sample from 1125 1130 Baker Tank Vol Time Temp Cond. DO M/L PH ORP
1130 16.66 690 30.3 6.83 59.7
~4.5qq1 1135 16.67 691 3.25 6.95 59.0 Turb. ~5.0gal 1140 16.68 688 3.72 7.06 58.3 6.68 ~5.25gal 1145 17.13 691 3.70 7.12 55.4 ~6 gal 1150 18.16 693 3.77 7.17 55.1 9.64 1150 Pump on baken tank ran out of fuel 1150 City official arrived on edge of site to take photos of work outside fence 200 Take leater sample from Baker tenk BT-POST-5 1215 Tony Silva off inte 1305 Collect soil sample REZ-SN4-10.0 1320 Collect soil sample REZ-SS4-10.0 from S. sidewall of REZ: 1340

9/3/15	THURSDAY	7	2 1	× 2		0714.03.01-20
Weath	er: partly i	cloudy, ~ 50	od, windy	· ·	. 4	V.
0700	ASK ON	SITE. WYSEN	(DARDEN, MU	LE, KELLEY) ON S	718	
0745	Truck of	U SITE TO	PICK-UP BACK	+02		
0800	DARGEN	OFF SITE.	ASK Cour	ETING STOCKPILE	· CLEAN OVE	epuroun) sanfies
	ST10-1	0750				
	-ST10-2			> 2		
RE	-ST10 -3	0800				
0815	GEOTEST	S ON	S178 70 CO	LECT SAMPLES/	FOR PROCTO	R PESTING) FROM
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		S Fix PCS,				
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9/4/15	ED. MAN			+		071	40301-2a
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0700	ASK ON	SITE, WY	SER ALREN	roy on so	E. LOHOING 1	SAHALT - 19	R HR.
0825		PALER TO			Bert VIII A		
	WYSER MO	WING CLEAN	OVERBURDE	U W/ LOADE	e (BACKHOE),	LOADING TRI	eks,
			C 082-		A time to	و الأولوك الدوا	
0940	THURTRAL	BR DELIVERS	o BACKFILL (FOR FTS A	COA). WHI LOA	D W/ASAMALA	2
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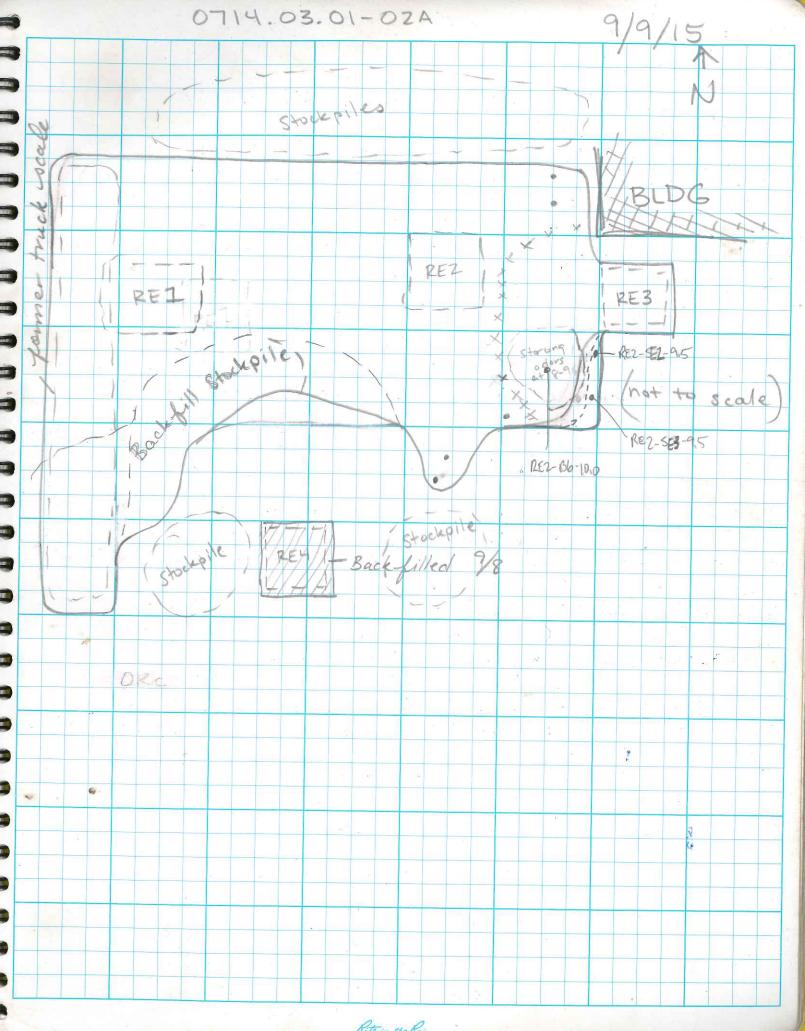
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0714.03.01-02A 9/8/15 - Tuesday Conditions: cloudy and cool, some light rain early in the marning CRW arrives an soite 700 Wyser on site Wyser begins dewatering excavation 730 Executar temporarily in need of repair 800 with larger diameter (3/4 in. to 11/2 in. for Baker Tank discharges I truck load of clean backfill deposited 815 at site 900 Wysur surveyor jen site 930 Concast on site 2 truck loads of back fill deposited 938 Repair man for excavator con site 948 Collect RE-STII- I (Sail) from east stockprile 1010 Collect RE-STII-2 (soil) " 1015 1035 Repair man for executator off rite Excavator repaired Collect RE-STII-3 1040 Callect RE-STII-4 1045 1 truck on site depositing imported fill unch, 2 trucks offloading import fill, on 87 te C 1100 **E** 1155 Continue to dewater western excavation 1225 345 Surveyor of site Jegin to back fill south end of 1400 create base layer of fill of ! approximately to in. at depth prior to ORC application
Begin backfilling bottom extent of REY w/ amended 1430 Il trucks an site for imported fill deposit 1435 1500 Marc, Justin & Roger off site RE4 filled with 30 lbs of ORC 1515 1530 ORC mixed with imported still on bottom 3' and clean stockpile material from 3'-grade

DRC Treatment Notes -dewater 19-80 inch 3 add ORC treatment - mix with bucket - 90 up to 6.5 ft (10-6.5 ft) EU. CRW ? Wyser off ste

9/9 - Wednesday - 0714.03.01-02A Conditions: fogging with some coun CRW? Wysir on site 700 Continue to treat excavation water and discharge to wanitary system 800 Begin collecting water quality parameters treated water, noter at 192500 gallons From Temp. Time Cond DO mg/ Cond DO 1 pH ORP 787 3.07 6.61 42.7 Turb. 800 18.27 13.87 18.36 788 2.93 18.39 788 2.85 805 38.6 9.00 38.6 9.63 6.73 40.0 10.12 810 6.82 815 18.38 788 2.90 6.88 820 Collect water wample (BT-POST-6) from output of treated Baker tank 830 Wyser begins excavating lower 5-10 ft 1030 Begin dewatering western excavation Continue stocked ling imported dil near former fruck scale in preparation of ORC application to back fill 1335 FBI Onsite Wor sample pick up 1530 CRW: Wyser off site most of day, fixed &= 2:30 PM 3/9



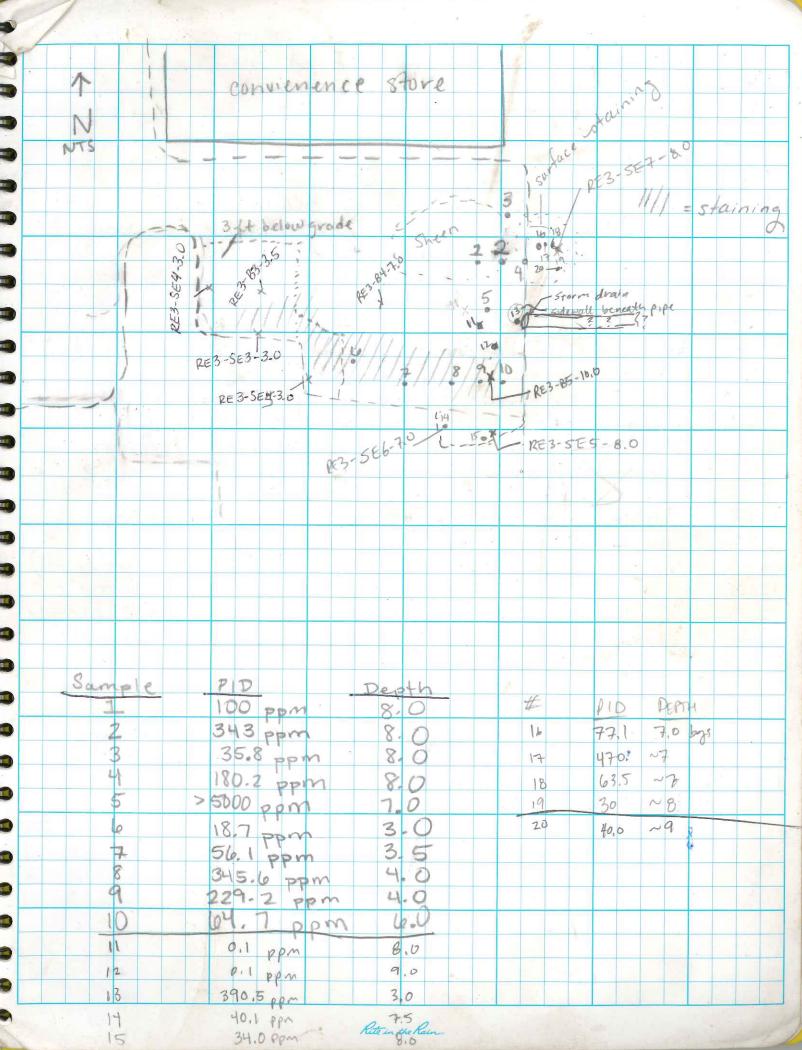
LOADING LOADING TRUCK +T WYSER TMULE A STOPPED LOADING BED TES TMULE AT WYSER M ADDED -PLACED - PLACED - PLACED	STITE, WYS TRUCK + TO TRUCK	RALLER W/ PANISH W/ PANISH W/ PANISH W/ PANISH W/ EN OF BACKFILL MORE BACKFILL IMPORT BACK BACKFILL BAC	PCS, PCS, PCS, PCS, PCS, PCS POLINER AFILL MATER OW SIGN, PCS NG. FORMER CEFILL MATER (55 16 ORC PILL	Thuck Scall per 13 × 13 ×	2 ft)	
ASK ON. LOKDING LOADING TRUCK +T WYSER TRUCK +T WYSER TRUCK + STOPPED LOAD. VO 680 TES TRUCK + MYSER M -ADDED -PLACED - PLACED - PLACED - PLACED - PLACED - RUCK + TRA	STITE, WYS TRUCK + TO TRUCK	RALLER W/ PANISH W/ PANISH W/ PANISH W/ PANISH W/ EN OF BACKFILL MORE BACKFILL IMPORT BACK BACKFILL BAC	PCS, PCS, PCS, PCS, PCS, PCS POLINER AFILL MATER OW SIGN, PCS NG. FORMER CEFILL MATER (55 16 ORC PILL	Thuck Scall per 13 × 13 ×	2 ft)	
LOADING LOADING TRUCK + T WYSER TRUCK + T STOPPED LOADING BEO TES TRUCK + T ADDED - PLACED - PLACED - PLACED RUCK + TRA	TRUCK + TO TRUCK + TO TRUCK + TO TRUCK + TO MAILER LO HOOKING-UP AND TRAVE DEWATERIN TRUCK + TO TRUCK + T	RALLER W/ PANISH W/ PANISH W/ PANISH W/ PANISH W/ EN OF BACKFILL MORE BACKFILL IMPORT BACK BACKFILL BAC	PCS, PCS, PCS, PCS, PCS, PCS POLINER AFILL MATER OW SIGN, PCS NG. FORMER CEFILL MATER (55 16 ORC PILL	Thuck Scall per 13 × 13 ×	2 ft)	
LOADING LOADING TRUCK + T WYSER TRUCK + T STOPPED LOADING BEO TES TRUCK + T ADDED - PLACED - PLACED - PLACED RUCK + TRA	TRUCK + TO TRUCK + TO TRUCK + TO TRUCK + TO MAILER LO HOOKING-UP AND TRAVE DEWATERIN TRUCK + TO TRUCK + T	RALLER W/ PANISH W/ PANISH W/ PANISH W/ PANISH W/ EN OF BACKFILL MORE BACKFILL IMPORT BACK BACKFILL BAC	PCS, PCS, PCS, PCS, PCS, PCS POLINER AFILL MATER OW SIGN, PCS NG. FORMER CEFILL MATER (55 16 ORC PILL	Thuck Scall per 13 × 13 ×	2 ft)	
TRUCK +T WYSER TAMEL A STOPPED LOAD NO GEO TES TAMELE A ADDED - PLACED - PLACED - PLACED - PLACED - PLACED - PLACED	TRAILER LOT HOOKING-UP DEWATERIN TRAILER TRAILER TRAILER ORC PEUM ORC W/ IMPORT LER OF BACK THE TOP BACK TO THE TOP BACK THE TOP BACK TO THE TOP BACK THE	AP OF BA 200 Punt EN OF BAC 6. DARPEN EAUBR, W/ (ZALM) OF BACKFILLI IMPORET BAC ETS ON TOP 1-2 FT BACK BACKFILL OVE BACKFILL OVE	PCS PORMER (55 16 ORC	Thuck Scall per 13 × 13 ×	2 ft)	
TRUCK +T WYSER TAMEL A STOPPED LOAD NO GEO TES TAMELE A ADDED - PLACED - PLACED - PLACED - PLACED - PLACED - PLACED	TRAILER LOT HOOKING-UP DEWATERIN TRAILER TRAILER TRAILER ORC PEUS	AP OF BA 200 Punt EN OF BAC 6. DARPEN EAUBR, W/ (ZALM) OF BACKFILLI IMPORET BAC ETS ON TOP 1-2 FT BACK BACKFILL OVE BACKFILL OVE	PCS PORMER (55 16 ORC	Thuck Scall per 13 × 13 ×	2 ft)	
WYSER TRULL A STOPPED LOAD. VO GROTES TRULE + WYSER M - ADDED - PLACED - PLACED - PLACED - PLACED - RUCK + TRA	TRAVER TRAVER	200 Punt ELL OF BAC 6. DARPEN EAUBR, W/ (ZACH) OF BACKFILLI IMPORET BAC ETS ON TOP 1-2 FT BACK BACKFILL OVE BACKFILL OVE	PCS SIFE, PCS NG. FORMER CEFILL MATER (55 16 ORC	Thuck Scall per 13 × 13 ×	2 ft)	
STOPPED LOAD. NO GEO TES TRUCK + TRA RUCK + TRA	DEWATELINE TRUCK + TO TRAVER TRAVER	ELL OF BACE 6. DARPEN RANBR, W/ (ZALM) OF BACKFILL RC/BACKFILL IMPORET BACE ETS ON TOP 1-2 FT BACK BACKFILL OVE	PCS NG. FORMER (55 16 ORC	Threk Scars per 13 × 13 ×	5) E, 2 ft)	Z-FT LIFTS,
STOPPED LOADING BED TES TRUCK + MYSER M ADDED - PLACED - MIXED - PLACED - PLACED - RICK + TRA	DEWATERIN TRUCK + TO ST OF SITE TRAVER IN MIXING IN OR 1-2 FT OF ORC PEUS ORC W/ IMPORT OF HIER OF BACK	EAUBR, W/ (ZACH) OF BACKFILLI MPORET BACK 1MPORET BACK 1-2 FT BACK BACKFILL OVE	PCS NG. FORMER LEFILL MAYER (55 16 ORC	(0845 - 093 Thuck Scall xIAL. per 13 × 13 ×	2 (4)	Z. FT LIFTS,
COADINO 680 TES TRUCK + ADDED - PLACED - PLACED - PLACED - PLACED - RICK + TRA	TRUCK + TO ST OF SITE OF BACKER OF BACKER	PAUBR, W/ (ZACH) OF BACKFILLI RC/BACKFILLI IMPORET BACK ETS ON TOP 1-2 FT BACK BACKFILL OVE	PCS NG. FORMER LEFILL MATER (55 16 ORL	Thuck Scall Scall. per 13 × 13 ×	2 (4)	Z. FT LIFTS,
TRUCK + TRA	TOPSITE TRAVER OF BACKET OF BACKET OF BACKET	CZACH) OF BACKFILLI RE / BACKFILLI IMPORT BACK ETS ON TOP 1-2 FT BACK BACKFILL OVE	NG FORMER CEFILL MATER (55 16 ORC	x1AL. per 13×13×	2 ft)	Z. FT LIFTS,
TRUCK + TRA	TRAVER OF BACK	OP BACKFILLI RC/BACKFILLI IMPORET BAC 895 ON TOP 1-2 PT BACK BACKFILL OVE	NG. FORMER LEFILL MATER (55 16 ORC	x1AL. per 13×13×	2 ft)	2. FT LIFTS,
ADDED - PLACED - PLACED - PLACED - PLACED - PLACED	1-2 FT OF 1-2 FT OF DRC PEUS ORC W/ IMPORT OF BACK	RE BACKPILLI IMPORT BAC ETS ON TOP 1-2 PT BACK BACKPILL OVE	NG. FORMER LEFILL MATER (55 16 ORC	x1AL. per 13×13×	2 ft)	2-FT LIFTS,
- ADDED - PLACED - MIXED - PLACED - PLACED	1-2 FT OF DRC PELLY ORC W/ IMPORT OF BACK	IMPORT BACK ETS ON TOP 1-2 PT BACK BACKFILL OVE	(55 16 ORC	x1AL. per 13×13×	2 ft)	Z. FT LIFTS,
- PLACED - MIXED - PLACED RUCK + TRA	ORC PENS ORC W/ ORC W/ ORC W/	ETS ON TOP 1-2 FT BACK	(55 16 ORC	per 13 × 13 ×		2- FT LIFTS,
- PLACED RUCK + TRA	ORC W/	1-2 PT BACK	PILL.			Z-FT LIFTS,
- PLACED RUCK + TRA	IMPORT OF BAC	BACKPILL OVE		MENDED BA	CEPUL 11 1	ZIFT LIFTS,
RUCK + TRA	HLER OF BAC	CKALL	COT TICE	MENOCO DA	CEPILL IT 19	C.11 col 10
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20	ysel is ever + TR ever + TR ever + TR ever + TR	MEK + TRALER OF BAC 4582 IS SWEEPING I RUCK + TRAILER OF I RUCK + TRAILER OF	BOTH TEST PASSED (MEK +TRALER OF BACKFUL PUCK +TRALER OF BACKFUL BUCK + TRAILER OF BACKFUL SX COLLETED CONFIRMATION SA	BOTH TEST PASSED (>85%) MEK TRAVER OF BACKFUL 4584 IS SWEEPING THE TRUCK ACCESS ROAK RUCK +TRAVER OF BACKFUL BUCK +TRAVER OF BACKFUL SX COVERTED CONFIRMATION SAMPLES SE	BOTH TEST PASSED (>85%) MEK TRAVER OF BACKFUL YSEL IS SWEEPING THE TRUCK ARCESS ROAD RUCK +TRAVER OF BACKFUL SK COVETER OF BACKFUL SK COVETER CONFIRMATION SAMPLES SE OF REZ.	YSEL IS SWEEPING THE TRUCK ACCESS ROAD RUCK +TRAILER OF BACKFILL SK COLLETED CONFIRMATION SAMPLES SE OF REZ.

9/11/15 F	RIDAY	0714.03.01-02A
	Partly cloudy - Surry -55	
	ASK ON SITE, WYSER ALREADY ON SITE. MIKE LOADING	Tevels.
	2 TRUCK + TRAILERS LONGED W/ PCS,	
0750	TRUCK + TRAVER OF BACKRILL, DARREN OFF SITE.	
	WYSER MONING CLEAN STOCKPILE MATERIAL TO SOUTH OF A	CRI POR FINENCE
	BACKPILL ALSO MONNO PLS NEAR PRODUCT LINE AREA	
0920	TRUCK + TRAVER -> ACS	
	Tevel + TRANCA OF BACKFILL DELIVERED	
0925	TRUCK +TRAILER -> PCS	
0940	WYSER STARTING IN PRODUCT LINE AKEA	31
1010	TRUCK + TRAILER OF SACKFILL	
1020		
1055	ORC DELIVERY	DATER METER
		00249500 (21400)
1170		
1120	TRUCK + TRAILER -> PCS	
1135	TRUCK + TRAILER -> PCS	
1250	BACKFILL TRUCK TRAILER	
1735	BACKFILL TRUCK TRUCK	
1315	TMUK TRAVEA - PCS	
	BEOTEST ON SITE (SHAWA), COMPACTION TESTS ALL ABOVE 8	\$ 7 1 1
1350	TRUCK-TRAVER -> 8CS	
1415	BACKENIE TRUCK TRAILER	
15/0	BACKFILL TRUCK + TRAILER	
A N	FOOD MART BLOS	
(NT		
7		
PRODUCT LIN	SE AREA	7
LOVER- EXC	AVATION / 1 PG II.	
	(195)	
		g T
		*
	STAINING IN SOLL	

9/14/15 Monday 0714.03-01-ZA Weather: Overcust, cool CRW on site, Wyser already on site (Mike? Kaylen) 700 Loading truck with PCS 730 Truck ? trailer -> import full 815 Truck > trailer -> PCS, surveyors on site 830 Completed marker test to check PID operation 845 Collect REZ-SEY-9.5 900 * Truck ? trailer >> PCS 915 Collect REZ-SES-9.5 Truck? trailer -> pCS 1005 Davren? Dan of Wyer on site, surveyors Davren? Dan off site 1030 1055 Truck? trailer - PCS. 1210 1300 Collect REZ- B7-11.0 Sheen observed in standing water south 1305 of convienence store Collect RE3-B2-9.5 1310 Collect RE3-SEZ-9-0 1315 FBI on site to collect samples off site 1400 Truck trailer > PCS 1411 Truck? trailer -> PCS 1450 CRW? Wyoer off wite 1545

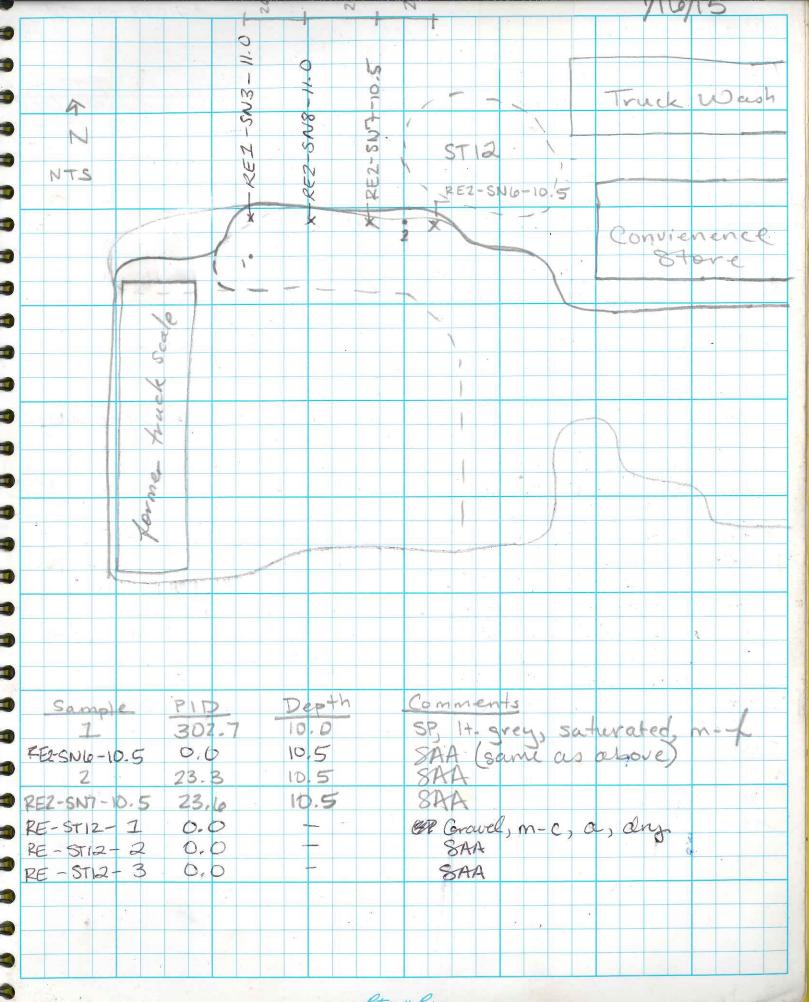
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Resolvent September 1 September 2 September 2 September 3 Septemb	-3	9.		5	B
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9/15/15 Tuesday 0714.03.01-ZA Conditions: cool : cloudy CRW on site Wyser already on site Truck ; traver -> PCS 730 Truck : trailer => import 930 Truck ? trailer > import fill Truck ? trailer > PCS Noticable sheen in water coming out of 930 Soil SE of convience store 931 Truck? trailer - import fill 932 Truck? Ivailer -> PCS Truck? trailer > import fill 10/6 2 Truck? trailer -> PCS 1045 Truck ? trailer -> import fill 1130 1110 Collect RE3-SE3-3-0 Collect RE3-SE4-3.0 1120 Collect RE3-BZ -3.5 1130 Collect REZ-SEG-10.0 1200 Collect RE3-SE5-3.0 1315 2 Truck + trailers -> PCS 1325 1407 FBI on 8 te /off site

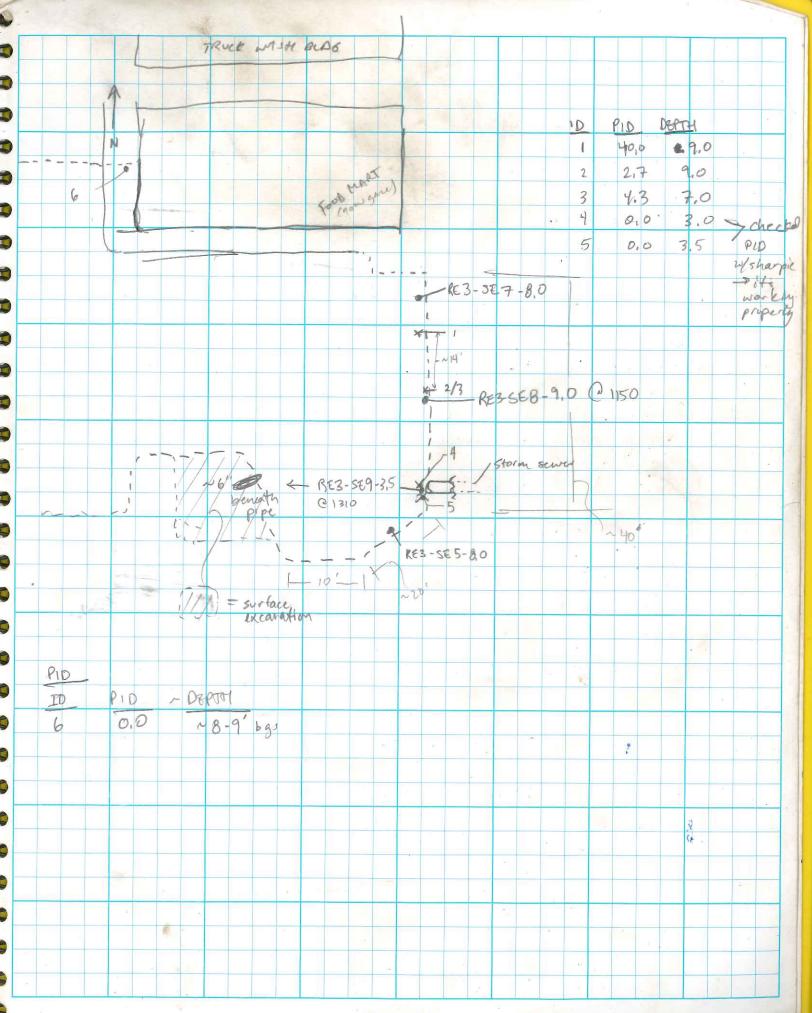


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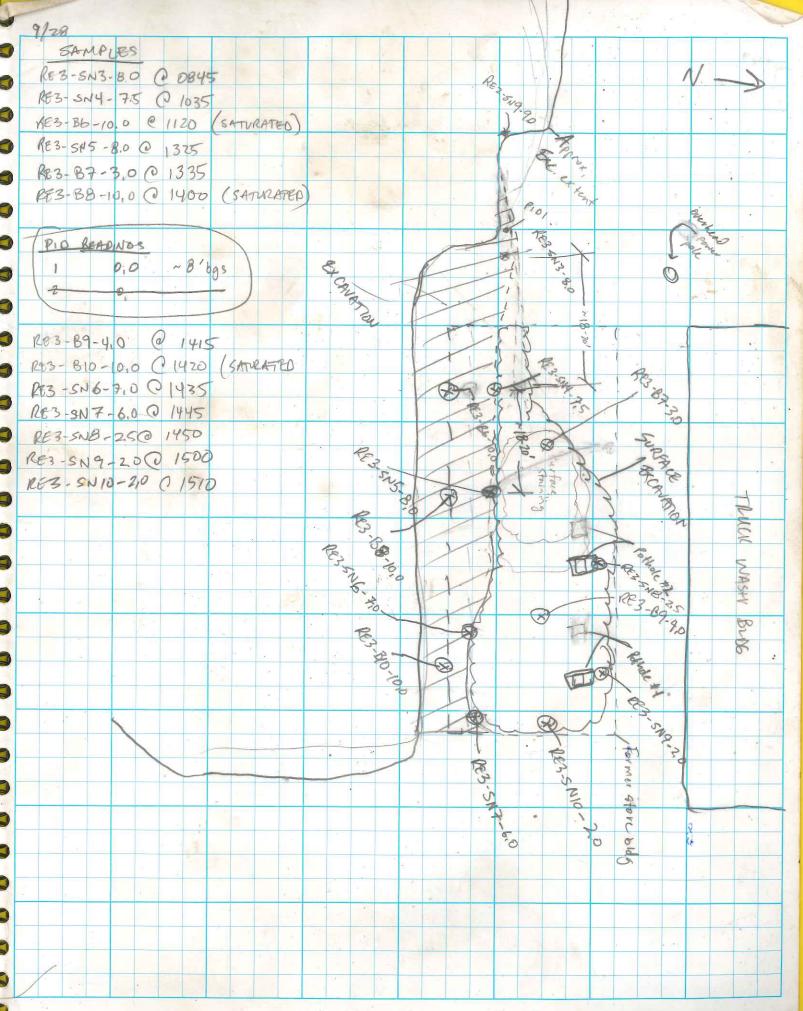
9/10/15 - Wednesday 0714.03.01- ZA Conditions: partly wunny, cool 700 CRW con soite Wyser already on site and removing asphalt from northern edge of western excavation 830 Collect turbidity readings, calibrate turbidity neter, changed out filter bags 835 - Turbidity = 24,49 NTU 840 - Turbidity = 15,91 NTU 845 - Turbidity = 9.86 NTU Collect BT-POST-T water sample 850 from post treated water at Baker lanks 900 Wiser continuing to dewater excavation and removed top le pt of naterial along north wall of western execuation Rich Prosser of the City of Mt Vemon 1050 on site off site 1115 Sheen observed in water seeping from northern edge of the excavation Collect REZ-SNG-10.5 soil sample (sidewall) 1200 Collect RE-STIZ-I stockpile soil sample 1210 Collect REZ-SN7-10-5 sidewall soil sample 1215 Collect RE-STIZ-2 stockpile soil sample 1230 1240 Collect RE-STI2-3 " Collect REZ-SN8-11-0 sidewall soil sample 1305 Collect REZ-8N3-11.0 11 1315 FBI onsite offsite for sample pick up 1420 Began backfilling area to south of REZ 1445 Applied ORE tot first 2 ft of filled material (8-10 ft bgs) 1500



01.						0714,03,	010074
1/17/15	, THURSDAY	7				10	
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0930			BACKFILL OF		29.5		,
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1040	ORC /7 NO	LIFT) MIXE	P WYSER W	WE NOT PLACE	= BACKFILL	FROM (120)	STERPONES
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	TRUCK +TRA						
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9/18/15	ASK OFFS FRIDAY	itt - Oroff		100			UF NE3/
9/18/15	ASIL OFFS	itt - Oroff		100			UF NE3/
0/18/15 Westmen:	ASK OFFS FRIDAY OVERUST, ~	itt - Oroff	INB SAMPU	ex off e u	13	siphori	UF NE3/
9/18/15	FRIDAY OVERCLIST, ~	STOP WYSE	IND SAMPLY	6 PCS INTO	Trevells,	(4 7+Ts)	UF NE3/ PLARE
0700	FRIDAY WERCHST, ~ ASLE ON S DEWATERIN	STE, WYSE	IND SAMPLY REE, PULLIN	6 PCS INTO	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
0700	ASIC OFFS FRIDAY OVERCLEST, ~ ASIC ON S DEWATERIN TRUCK + TRA	STE, WYSE TO + DISCHMI	IND SAMPU BR LOADIN REE, PULLIN S REMONAL	6 PCS INTO 6 ASPHALI E (3 TITS)	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
0700 0900	ASK OFFS FRIDAY OVERCHST, ~ ASK ON S DEWATERIN TRUCK + TRE	STE, WYSE TO + DISCHMING HILER FORP	ING SAMPU RE LOADIN REE, PULLIN SREMENTE PCS REM	6 PCS INTO 6 ASPHALT E (3 TITS) OVAL (1)	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
0700 0900	ASK OFFS FRIDAY OVERCLIST, ~ ASK ON S DEWLATERIN TRUCK + TRA TRUCK + TRA	STRE, WYSE TO + DISCHMING HILER FORP PLER FOR	IND SAMPLE POET, PULLIN S COMOTAL PCS REM PCS KEMONAL	6 PCS INTO 6 ASPHALT E (3 TITS) OVAL (1)	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
0700 0900 0950 1055	ASK OFFS FRIDAY OVERCEST, ~ ASK ON S DENNATERIN TRUCK + TRA TRUCK + TRA 2 TRUCK + TRA	SITE, WYSE THE FORP CALLER FOR CHILDRE FOR	ING SAMPU REE, PULLIN SEEMONAL PCS REM PCS LEMONAL BACKFILL	6 PCS INTO 6 ASPHALT E (3 TITS) OVAL (1)	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
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9/18/15 WESTHER: 0700 0900 0950 1055	ASK OFFS FRIDAY OVERCEST, ~ ASK ON S DEWATERIN TRUCK + TRA 2 TRUCK + TRA 2 TRUCK + TRA TRUCK + TRA TRUCK + TRA	STE, WYSE TO A DISCHMING HILER FORP PLER FOR HILER FOR HILER FOR HILER FOR HILER FOR	IND SAMPU REE, PULLIN S REMOVAL PCS REM PCS LEMONAL BACKFILL PCS (1) ASPHALT	6 PCS INTO 6 ASPHALT E (3 TITS) OVAL (1)	TRUCKS,	(4 7+Ts)	UF NE3/ PLARE
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Conditions: Sunny A 50s 0714.03.01-ZA 700 CRW? Wyser on site 800 quality parameters from Baker tanks treated water Begin to collect water Turboidity & mechairements:

11 8.10 NTU

11 6.34 NTU

11 5.71 NTU 800 805 810 815 Collect treated water sample BT-POST-8 Begin backfilling area to west of convienence of Darren of Wyser on site

Darren of Wyser on site

Mix ORC into 8-10 ft bgs Velean backfill

along northern area. 850 945 1015 1030 along northern edge of western execuation Apply ORC to 8-6 ft bas layer of clean backfill along northern edge of 1130 westen execuation 1200 Lunch Begin compacting 6-10 ft clepth of ORC treated backfill Yen-Vy Var of MFA on site 1230 1235 1255 Begin backfilling excavation to the 1330 wouth of the former convienence whore and pump islands with imported sand 1445 JP of Geotest on site -all tests were above 85 (94 ? 90) 1530 CRW, Geotest, and Wyser off wite 1/30/15 - Wednesday, Conditions: sunny 2 (001 Wyser and crit on site, Wyser begins 700 cloading 2 truck ! trailer - PCS 730 Truck for garhage debris (> building) located 810 Truck & trailer > PCS 815 Surveyors on site 930 2 truck + trailer -> PCS Surveyors off site, I truck > garbage/debris
Collect REZ-857-9.5, PID=2.8 ppm, grey SS, Saturated 1000 1120 2 truck + trailer -> PCS 1130 (refer to next notebook)

APPENDIX E UST DECOMMISSIONING DOCUMENTATION



July 142015 - I waive the "wast time" of this notice, Contractions will supply construction schedule to A. Ademos ... and FOR OFFICE USE ONLY Site ID# 5354 Site ID# 5354 FSID#

ECOLOGY

(See back of form for instructions)

•	FOR OFFICE USE ONLY
	Site ID# 5354
	FS ID #
I	

State of Washington	n				907	
Please ✓	the appropriate bo			ntent		
		to In	stall to (Close		
HQ (360)407-717	70 / Central (509)5	575-2490 /	Eastern (509)32	9-3400 / Nor	thwest (425)649-	7000 / Southwest (360)407-6300
SITE INFORMATION	N			OWNER INFORMATION (this form will be returned to this address)		
				Skagit Co	unty Facilities Man	agement
Tag or UBI number	er			UST Owner/Operator		
Truck City					inental Place	
Site Name	00 C 41			Mailing Address/PO Box Mount Vernon		
3216 Old Highway Site Physical Addr			Mount Vernon 98273 City Zip Code			
Mount Vernon	C55	9827.	3			
City			Zip Code	Skagit County/360.416.1300 Owner/Operator Phone Number		
•		-		Owner/Operator Phone Number		
Site Phone Numbe	r			Owner/Ope	erator Email Addre	SS
TANK INFORMATION	l second					
	Substance		Date Pro			
Tank ID	Stored	Capacity	Expected t	o Begin		Comments:
TS-DIE	Diesel	15,000 g	July 29, 2015			
TS-REG	Unleaded Gas	5,000 g	July 29, 2015			
TS-SUP	Unleaded Gas	5,000 g	July 29, 2015			
TS-UN	Unleaded Gas	5,000 g	July 29, 2015			
1) SERVICE PROVID	ER INFORMATION -	check the app	ropriate boxes			
1	PLEASE NOTE: INDI PASSED ANOTHI				JST BE ICC CERTI DEPARTMENT OF E	
Installer X	Decommissioner	Site	Assessor			
Wyser Construction (Co., Inc.			Darren Nes	S	
Service Provider Con	npany Name			Contact Person		
Mike Redford				206.678.5122		
Certified Service Pro	vider Name			Contact Phone Number		
ICC00061806				Darren@wyserdirt.com		
ICC Certification #				Contact Email Address		
2) SERVICE PROVIDE	ER INFORMATION (R	EQUIRED IF	USING MORE THA	N ONE PROVI	DER) - check the app	propriate boxes
Installer	Decommissioner	Site	Assessor			
Service Provider Con	npany Name			Contact Per	son	
Certified Service Pro	vider Name			Contact Pho	one Number	
ICC Certification #				Contact Email Address		

ECY 020-95 (Rev. Feb. 2012)



TEMPORARY CLOSURE NOTICE

FOR UNDERGROUND STORAGE TANKS

UST ID #: <u>5354</u> County: *SKagit*

This notice certifies that temporary closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

		MILIC	T FACILTY				
Facil	ity Compliance			a	Owner/O	II. OWNER/OPERATO	
	180		11011	7	Pusings	perator Name: 0149	9210
		534			business	Name: Point B Tra	nsportation
Sito	Address: 7	ick o	City True	ell Stop			hurry 99 South
Site /	Address: 32	28 010	d Hwy 99	-			State: WA Zip: 48273
	Mt. Ve		WA.	98273	No.	360-424-7528	ext 102 or ext 10
Phon	e:360-420	4-75	28 LXt 1	02 08 100	6 Email: Ba	art Colmstact tran	sportation. Com
					ANKINEORMATI	ON P	
# 1	TANK ID		DATE LAST USI	ED 1	TANK CAPACITY	LAST SUBSTANCE STORI	ED EMPTY (Y/N) (less than 1" product)
#1	5000	1.	2/31/1	4 .	suc	Prem.	Ves
12	5000	>	1			un/	1
43	5000					vn/	
4	15,000)		1.	CUVO	to Die	/
)	1836	/-
				NE GHEAK	IST (check all tha	Lapply)	
X	Facility comp	liance ta	ng is attached (only applicat	ole if temporarily	closing <u>all</u> tanks for long	ger than 3 months).
	Business Licer tank operator	nse is cu	irrent and ann	ual tank fees	will continue to	be paid. There is a desig	gnated Class A/B certified
	Vent lines are	open; t	ank fill ports a	nd dispenser	nozzles are lock	ed.	
1/							
/ 1				***************************************		mped and now contain l	
	method)		tus report is a	as my me	1" product). I wi thod for monitor	Il continue to use (<i>insert</i> ring tank(s) for leaks. Th	leak detection e last month's passing
L	The most recent corrosion protection testing, if applicable, was conducted on (insert date) Routine testing and repairs will continue to be made. The impressed current system, if applicable, will remain ON and the 60 day (or monthly) Volt/Amp checks will continue to be made.						
				Va (Hae)	URED SIGNATUR	(E	
	Signature ac	knowled	ges UST(s) com			-360-380 Temporary Closu	re Requirements.
1-1	23-15	- 1	Pathy S.	mith			Smith
Date	Si	ignature	of Tank Owner	or Authorized	Representative	Print or Type N	ame

Invoice

III TRATANK SERVICES FUEL TANK DECOMMISSION, INSTALLATION & REPROPRIENCE

Petroleum & Environmental Construction Services

Invoice #
4967

Bill To	
Truck City Truck Stop 22529 Knapp Road Mt. Vernon, WA 98273	

P.O. No.	Terms	Project
	Due on Receipt	

Item	Quantity		Description	Rate	Amount
Disposal Vac Tank Labor	3	and #2 Dies gallon and undergroun Truck City 550 gallons Hours Vac \$100/hour	move & dispose of gasoline sel from (3) three 5,000 (1) one 15, 000 gallon and storage tanks (UST'S) at Truck Stop Mt. Vernon WA. disposal @\$0.75/gallon Tank and operator @ or @ \$65/hour	0.75 100.00 65.00 8.50%	412.50 300.00 195.00 907.50 77.14
				Subtotal	\$907.50
				Total	\$984.64
Phone #	Fa	x#	E-mail	Web S	Site
				+	

60 - Day Insection Results for Impressed Current Cathodic Protection Systems

FACILITY NAME: Truck City

AMP RANGE RECOMMENDED: 1.5 AMPS to 3 AMPS VOLTAGE RANGE RECOMMENDED: 8 VOLTS to 11 VOLTS

Date 2-1-14 3-1-14 5-1-14 5-1-14 8-1-14 101-14 11-1-14 12-1-14 1-1-15 1-28-15	Your Name Bart Bart Bart Bart Bart Bart Bart Bar	Voltage Reading 10.5 10.5 10.6 10.6 10.6 10.8 10.7 10.8 10.5	Amp Reading 2.5 2.4 2.4 2.4 2.6 2.6 2.5 2.5 2.5 2.5 2.5	Is your System Running Properly?/Howa 18 03623.10 18 4293.30 18	Tanks	empty

A) If the rectifier voltage and/or amperage output(s) are outside the recommended operating levels, contact a cathodic protection expert to address the problem.

B) NEVER turn off the rectifier.

C) KEEP THIS RECORD FOR AT LEAST 6 MONTHS AFTER THE DATE OF THE LAST READING.

60-Day Inspection Results for Impressed Current Cathodic Protection Systems

FACILITY NAME: TRUCK CITY

AMP RANGE RECOMMENDED: 1.5 AMPS to 3 AMPS

VOLTAGE RANGE RECOMMENDED: 8 VOLTS to 11 VOLTS

Date	Your Name	Voltage Reading	AMP Reading	Is your System
10-1-10	Rick	10.1	At .	Running Properly?
11-1-10	Rick		2.4	743371.2
1-10-11	RIVIL	10.1	2.5	750387.2
		10.1	2,4	767712.4
2-1-11	Rivie	10.2	2-5	772710.1
3-4-11	Bart	10.5	2.4	780323.3
4-11-17	Ruk	10.5	2,4	7895034
7-1-1	Rick	10.4	1-5	79453 3.3
	Rick	10.4	2.5	808683.6
8-1-11	Rick	10.5	2.5	816287.7
9-2-11	RICK	10.4	2.4	
10-17-11	Rick	10.0	2.5	823969.7
11-4-11	RILK	10.1	2.4	639 103. 3
12-2-11	RIVIC	10.3	2.4	845824.3
1-1-12	RICK	10.2	243	852989.1
2-5-12	RICK	10.3	2.4	
3-2-12	RILK	10.2	2.4	861423.4
4-1-12	RICK	10.2	2.4	874687.3
5-4-12	Rick	10.1	2.3	882624.9
6-1-12	Aick	10.2	2.4	889354.1
			0(00//2

- If the rectifier voltage and/or amperage output(s) are outside the recommended operating levels, contact a cathodic protection expert to address the problem.
- Never turn off your rectifier.
- KEEP THIS RECORD FOR AT LEAST 6 MONTHS AFTER THE DATE OF THE LAST READING.

60-Day Inspection Results for Impressed Current Cathodic Protection Systems

FACILITY NAME: TRUCK CITY

AMP RANGE RECOMMENDED: 1.5 AMPS to 3 AMPS

VOLTAGE RANGE RECOMMENDED: 8 VOLTS to 11 VOLTS

Date	Your Name	Voltage	AMP	Is your System
Date	I our maine	Reading	Reading	Running Properly?
7-1-12	RILK	10.2	2.4	896601,2
8-3-12	Rick	10.1	2.3	904432.3
9-8-12	Risid	10.1	2.3	913062.1
9-30-12	RICK	10.2	2.3	918354.9
12-1-12	Rick	10.1	2.4	933253.2
1-2-13	Rick	10.1	2.4	9410177.4
2-1-13	12:14	10.2	2.4	947993.3
3-1-13	RILK	10.1	2.3	954934.2
3.31.13	RICK	10.1	1.2	962031.4
5-1-13	Rick	10.2	2.3	969593.4
6-1-13	Rick	10.2	2.2	976923.1
6-30-13	RICK	10-6	2.3	983865.1
8-1-13	Bart	10.2	2.3	991427.0
9-1-13	Bart	10.2	2.4	99786.22
10-3-13	Bart	10.3	25	0066342
10-26 20	JKeppler NCL	10.0	2.9	1269227
1243	Bart	10.1	2-3	2109.77
12-11-13	John Kepe NCC	10.2	2.4	
1-1-14	Bart	10.3	24	2879.43

- If the rectifier voltage and/or amperage output(s) are outside the recommended operating levels, contact a cathodic protection expert to address the problem.
- Never turn off your rectifier.
- KEEP THIS RECORD FOR AT LEAST 6 MONTHS AFTER THE DATE OF THE LAST READING.



PERMANENT CLOSURE NOTICE

UST ID #: _____ County: SKAUIT

FOR UNDERGROUND STORAGE TANKS

This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.

	I. UST FACILITY			II. OWNER/OPE	RATOR INFORMA	ATION
Facility Compliance Tag #:			Owner/O	perator Name:		
UST ID #:			Business	Name:		
Site Name: TOU	CK CITY		Address:			
Site Address: 321	6 OLD HUH	Way 99 Sout	ACity:		State:	Zip:
City: Mr. VETZ	Mon	Pateon will till t	Phone:	d lengt gul spaed	gara yfalst a	it ,haedio
Phone:			Email:			
		III. CERTIFIED US	Г D ECOMMI	SSIONER		
Company Name: W	YSER CONST	TWOTEN	Service Pr	rovider Name: 🚶	UKE DEB	FORO
Address: 9015	109th AVF S	SF	Certificat	ion Type: CC	/O.S. 1000000 100	1 901 401
City: SNOHOM	(SH State	: WA Zip: 98291	Cert. No.:	1110001180	Exp. Date: 3	3/2017
Provider Phone: V	75.742.09	798	Provider I	Email: darrey	e wyserdin	rt.con
Provider Signature:	Maher	Red m	CONTRACTOR OF THE PARTY	10/22/15	n white the period of	- ostalo
		19-6-011	NFORMATIO	N .		
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	removal	CLOSURE METHO	D change-in-service	CLOSURE DATE
TS-DIF	15,0009	DESEL	×	erkiscia 🗀st mas	simpo 🗖 a sloo	8/6/15
TS-REU	5,000 A	DULFADED	K			8/6/15
TS-80P	5,000 6	UNITABED	K			8/6/15
TS-UN	6,000 g	UNLEADED	Þ			8/6/15
		said, Survens, We	os , 🗖 a O	h eq . D		2 112 22
	* , , , , , , 200.5	ation commit i				1004100
		V. REQUIRE	D SIGNATUI	RE		
Signature a	cknowledges UST(s) c	omply with UST regula	tion WAC 173	3-360-380 Tempora	ry Closure Require	ments.
		, MARTINE 1 50 MEDICAL	a (8399) ji	11757 6		

MOUNT VERNON FIRE DEPARTMENT INSTALLATION PERMIT

FOR INSPECTION CALL: 336-6277 1-HOURS NOTICE REQUIRED

PERMIT: 15-042

APPLICANT TO COMPL	ETE NUMBERED SPACES	ONLY				
JOB ADDRESS (AND NA	ME IF APPLICABLE)					
. 2220 OLD HIGHW	AN OO COLUTII DOAD	NEW CIT COLL	NITS/ IAII	CITE (OI D TRII)	CV CITY TRUCY STOP)	
OWNER	AY 99 SOUTH ROAD	- NEW SKAGII COU	NI I JAIL	SITE (OLD TRU	CK CITY TRUCK STOP) PHONE	
OWNER					THORE	
2.SKAGIT COUNTY					360336.9400	
MAILING ADDRESS					ZIP	
1800 CONTINENTA	L PLACE	MOUNT VER			98273	
CONTRACTOR		STATE LICENSE	: NO.		CITY BUSINESS NO.	
3.WYSER CONSTRU	ICTION INC	WYSERCI045	5N9			
MAILING ADDRESS	oction, inc	ZIP	7117		PHONE	
A NATIONAL AND						
19015 109 TH AVENU	JE SE	SNOHOMISH	, WA 9829	96	425.742.0898	
ARCHITECT OR DESIGN	NER				PHONE	
4 DADDENINESS 20	06 679 5122					
4. DARREN NESS 20 MAILING ADDRESS	00.078.3122	a consequence and a consequence of the consequence	25115		ZIP	
MAILING ADDICESS					211	
USE OF BUILDING						
5						
CLASS OF WORK:	☐ NEW	ADDITION	L ALT	ERATION	REPAIR	
6. DESCRIBE WORK:						
	OO GAL DIESEL AND	(3) 5,000 GAL GASOI	INE LINE	FRGROUND STO	OR AGE TANKS	
7. ILENIO VE (1) 13,00	OU GITE DIESEE IN ID	(5) 5,000 GILE GISOI	DITTE OTTE	ZERORO OTAD BT	ordiob francs.	
CIAL CONDITIONS:				INCRECTION	AND PLAN REVIEW FEES	
SCIAL CONDITIONS.			NO		NSPECTION	FEE
			110	SPRINKLER SYS		1
				FIRE ALARM SY	STEM	
				KITCHEN FIRE S	UPPRESSION SYSTEM	
APPLICATION ACCEPTED BY:	PLANS CHECKED BY:	RECEIPT			SUPPRESSION SYSTEM	
		INITIAL DATE			PRESSION SYSTEM	
	NOTICE	DATE		STANDPIPE SYS	TEM	
THIS PERMIT RECOMES	NOTICE NULL AND VOID IF WOR	RK OR CONSTRUCTION		FIRE PUMP	TANK	
	OMMENCED WITHIN 180			UNDERGROUND INSTALLATION		
	S SUSPENDED OR ABANI		4	REMOVAL		500.00
OF 180 DAYS AT ANY TI	ME AFTER WORK IS COM	MMENCED.	7	ABANDONMEN	NT	200.00
I HEREBY CERTIFY THA	T I HAVE READ AND EX.	AMINED THIS APPLI-		ABOVE-GROUNI		
CATION AND KNOW TH	E SAME TO BE TRUE ANI	D CORRECT. ALL PRO-		LIQUEFIED PETF	ROLEUM TANK	
VISIONS OF LAWS AND	ORDINANCES GOVERNI	NG THIS TYPE OF WORK		COMPRESSED G.		
	TH WHETHER SPECIFIED T DOES NOT PRESUME TO			FLAMMABLE 2		
	HE PROVISIONS OF ANY			NON-FLAMMA		
	NG CONSTRUCTION OR T	THE PERFORMANCE OF		FIREWORKS ST	TAND	
CONSTRUCTION.					INSPECTION TOTAL	-
	al 63	1		\$.	INSPECTION TOTAL	
	1			J		
me /	Meller	1/0/6		5)	PLAN REVIEW	
of Musho,	77	2/62-6		\$	385.000 (Sp. 800.000 at 2500.000 at 2	
SIGNATURE OF CONTRA	CTOR OR AGENT	(DATE)				
						-
NATURE OF OWNER	(IF OWNER)	(DATE)			TOTAL FEE \$	500.00
					\	
)	101
		PERMIT ISSUED	BY:	OH-	20(C)	1/16/15
				CHIEF OF FIRE PRE	VENTION	(DATE)

Mount Vernon Fire Department

Prevention Bureau

1901 North LaVenture Road Mount Vernon, WA 98273

Commercial Tank Removal Permit

Office (360) 336-6277 Fax (360) 336-6247

HAVE THIS PERMIT ON SITE DURING FIRE DEPARTMENT INSPECTION

Site Address: 3228 Old Hwy 99 South Road (P29546)	Permit: 15-042
Tenant: Old Truck City Truck Stop (New County Jail Site)	Phone:
Property Owner: Skagit County	Phone: (360) 336-9400
Contractor: Wyser Construction, Inc.	Phone: (425) 742-0898 Darren Ness
Number of tanks to be removed: (1) 15,000 gal Diesel and (3) 5,000 gal Gas	

NOTE: Signatures below confirm only tank removal was performed to satisfy requirements of the International Fire Code, and do not confirm presence or absence of product in the ground.

*Comply with the following procedures for commercial tank r **A Fire Department employee signature below constitutes of	removal
Inspector Signature: Tukhose	_ Date: <u>8-</u>
Print Name: Rick PROSSER	_

- Permit is required to remove underground tanks.
- 2. Department of Ecology shall be notified of closure of registered tank thirty (30) days prior.
- Tank(s) may be removed only after the Fire Department inspection.
- 4. Two (2) 20BC portable fire extinguishers are to be on the site within 50 feet of the operation.
- 5. Rope or ribbon barricades must be provided, circling 10 feet from the operation or be enclosed in a fenced yard.
- 6. Approved "NO SMOKING" signs must be posted in readily visible locations.
- 7. No hot works allowed unless the tanks are certified safe.
- 8. Determine what product is in the tank (heating oil, kerosene, waste oil, etc.).
- 9. Have the residual heating oil or petroleum product pumped from the tank by a tank decommissioning company, a tank cleaning company, or a used oil recycler.
- Disconnect the suction, inlet, gauge and vent lines; remove section of connecting lines which are not to be used further.
- 11. To insure that the tank atmosphere is inert, 1 lbs of dry ice per 50 gallons liquid capacity of the tank must be inserted in the tank. This shall be done prior to the use of heavy equipment for excavating.
 - Wait a minimum of 60 minutes for dry ice to vaporize. Vapors should begin to show at the fill-pipe at this time
 which should be left open.
 - CO-2 fire extinguishers or compressed gas are not to be used for inerting purposes as this produces static electricity which may result in an explosion.
- 12. A certified firm shall collect and monitor soil and water samples. In the event that soil and water samples are found to be contaminated, that site shall be cleaned per EPA regulations (not required for residential tanks unless obvious contamination). If there is product in the ground, you will be notified to contact the Department of Ecology for further guidance.

YOU MUST CONTACT THE FIRE DEPARTMENT AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION

UST ID #: _5354____



SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

County: _Skagit____

This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.

I. UST F	ACILITY	II. OWNER/OPERA	TOR INFORMATION	
Facility Compliance Tag #:		Owner/Operator Name: Skag	git County	
UST ID #: 5354		Business Name: Truck City		
Site Name: Truck City Truck St	ор	Address: 3216 Old Highway 9	99 S Road	
Site Address: 3228 Old Highwa	ay 99 S Road	City: Mt. Vernon	State: WA Zip: 98273	
City: Mt. Vernon		Phone: (360) 770-3994		
Phone: N/A		Email: mestvold@comcast.ne	et	
	III. CERTIFIED	SITE ASSESSOR		
Service Provider Name: Caroly	yn Wise	Company Name: Maul Foster	⁻ & Alongi, Inc.	
Cell Phone: (360)690- 5982	l: cwise@maulfoster.com	Address: 1329 N. State Stree	t, Ste. 301	
Certification #: ICC8277112	Exp. Date: 9/13/16	City: Bellingham	State: WA Zip: 98225	
	IV. TANK I	NFORMATION		
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED	
TS-DIE	15,000	Diesel	8/6/2015	
TS-REG	5,000	Unleaded Gasoline	8/6/2015	
TS-SUP	5,000	Unleaded Gasoline	8/6/2015	
TS-UN	5,000	Unleaded Gasoline	8/6/2015	
V. Re	ASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT (chec	k one)	
□ Release investigation follows:	owing permanent UST system	n closure (i.e. tank removal or cl	osure-in-place).	
☐ Release investigation follo	owing a failed tank and/or lin	e tightness test.		
☐ Release investigation follo	owing discovery of contamina	ated soil and/or groundwater.		
☐ Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.				
UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).				
☐ Directed by Ecology for U	ST system permanently close	d or abandoned before 12/22/1	1988.	
Other (describe):				

	VI. CHECKLIST		
	The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication Guidance for Site Checks and Site Assessments for Underground Storage Tanks.	YES	NO
1.	The location of the UST site is shown on a vicinity map.	\boxtimes	
2.	A brief summary of information obtained during the site inspection is provided (Section 3.2)	\boxtimes	
3.	A summary of UST system data is provided (Section 3.1)	\boxtimes	
4.	The soils characteristics at the UST site are described. (Section 5.2)	\boxtimes	
5.	Is there any apparent groundwater in the tank excavation?	\boxtimes	
6.	A brief description of the surrounding land use is provided. (Section 3.1)	\boxtimes	
7.	The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.		
8.	The following items are provided in one or more sketches:		
	Location and ID number for all field samples collected	\boxtimes	
	If applicable, groundwater samples are distinguished from soil samples	\boxtimes	
	Location of samples collected from stockpiled excavated soil		
	Tank and piping locations and limits of excavation pit	\boxtimes	
	Adjacent structures and streets	\boxtimes	
	Approximate locations of any on-site and nearby utilities	\boxtimes	
9.	If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	\boxtimes	
10	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	\boxtimes	
11	Any factors that may have compromised the quality of the data or validity of the results are described.	\boxtimes	
12	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	\boxtimes	
	VII. REQUIRED SIGNATURES		
	Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through	-395.	
Ca	rolyn Wise		
Pri	nt or Type Name Signature of Certified Site Assessor Date		

SITE CHECK/SITE ASSESSMENT CHECKLIST

FOR UNDERGROUND STORAGE TANKS

Instructions

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or "change-in-service" of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted within thirty days of completing these activities to the following address:

Dept. of Ecology UST Section PO Box 47655 Olympia, WA 98504-7655

- **I./II. UST Facility and Owner/Operator Information:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- **III. Service Provider Information:** It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology's *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.
- **IV. Tank Information:** Use the same Tank identification numbers listed on the facility's Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature: The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

Further questions? Please contact your regional office below and ask for a tank inspector to assist you.

Regional Office	Counties Served
Central (509) 575-2490	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima
Eastern (509) 329-3400	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman
HQ (360) 407-7170	Federal facilities in Western Washington
Northwest (425) 649-7000	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom
Southwest (360) 407-6300	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

or find a complete list of UST inspectors at:

www.ecy.wa.gov/programs/tcp/ust-lust/people.html

APPENDIX F UST DISPOSAL DOCUMENTATION





WEIGH NUMBER W- 12859

NAME WISER CONS	DATE 8/7/6
HAULERLal_TRAU	Brong
COMMODITY	
TRUCK # LO	AD #
FROM	
TO	
FEE	1st GROSS
DRIVER ON DRIVER OFF	2nd GROSS
	1st TARE
CERTIFIED SCALE	ZIO TATIL
GROSS & TARE CERTIFIED SCALE WEIG	NET GOMMILINIO
09:08AM 07AUG15 TARE 386	to LB
WEIGHED DV	de
WEIGHED BY	7
THIS FORM IS PRINTED ON RECYCLED PAPER	ODICIAIAI

2 small Turk?



Serving You Since 1958

WEIGH

ORIGINAL

NAME Wiser Const	truction	_ D	ATE
HAULER			
COMMODITY Unpre	#1	Ta.	1K
TRUCK #			
FROM		•	
TO			
FEE		1:	1st GROSS
DRIVER ON DRI	VER OFF		2nd GROSS
CERTIFIED S	SECTION OF		1st TARE
GROSS & TARE CERTIFIED S			2nd TARE
GROSS & TARE CERTIFIED S	CALE WEIGHTS		NET - COMMENTS
10:00AM 07AUG15 GROSS	43540	. D	,
10:22AM 07AUG15 TARE		To the last of the	
WEIGHED BY			
THIS FORM IS PRINTED ON RECYCLE			ORIGINAL

1 Smill Time



NAME WISER (ONS	truction	_ DATE	8-7-2015
NAME_WISER (ONS) HAULER_ L&L	Transpo	1	
COMMODITY UAPLE	#1.17	Tank	
TRUCK #	LOAD #		
FROM			
TO			
FEE			1st GROSS
DRIVER ON DF	RIVER OFF		2nd GROSS
CERTIFIED S		1	1st TARE
GROSS & TARE CERTIFIED			2nd TARE
SHOOS & TAIL CENTIFIED	SCALE WEIGHTS	1	NET - COMMENTS
12:04FM 07AUG15 GROSS		port, STANG	
12:31PM 07AUG15 TARE		France (and)	
9			
			27
11			
WEIGHED BY 167	at and a second an		
THIS FORM IS PRINTED ON RECYCLE	D PAPER		OBIGINAL

Big Tunk.

Invoice

III TRA TANK SERVICES

FUEL TANK DECOMMISSION, INSTALLATION & RETROFITTING

Petroleum & Environmental Construction Services

Date	Invoice #
1/27/2015	4967

Bill To

Truck City Truck Stop
22529 Knapp Road
Mt. Vernon, WA 98273

P.O. No.	Terms	Project
	Due on Receipt	

Item	Quantity		Description	Rate	Amount	
Disposal Vac Tank Labor	3	and #2 Dies gallon and oundergroun Truck City 7 550 gallons Hours Vac 3	move & dispose of gasoline sel from (3) three 5,000 (1) one 15, 000 gallon d storage tanks (UST'S) at Fruck Stop Mt. Vernon WA. disposal @\$0.75/gallon Tank and operator @	0.75 100.00 65.00 8.50%	412.50 300.00 195.00 907.50 77.14	
				Total	\$984.64	
Phone #	Fax	Fax # E-mail		Web Site		
(360) 398-0134	(360) 39	08-2311	ultratank2012@gmail.com	www.ultratankservices.com		

APPENDIX G ANALYTICAL LABORATORY REPORTS



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 4, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included is the amended report from the testing of material submitted on August 6, 2015 from the Truck City 0714.02, F&BI 508100 project. Sample ID S-N1-8.30 has been amended to S-N1-8.0.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0810R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 10, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 6, 2015 from the Truck City 0714.02, F&BI 508100 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0810R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 6, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.02, F&BI 508100 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508100 -01	S-W1-8.0
508100 -02	S-S1-8.0
508100 -03	B-T1-12.0
508100 -04	B-T2-12.0
508100 -05	S-N1-8.0
508100 -06	S-E1-8.0
508100 -07	ST-1
508100 -08	ST-2
508100 -09	ST-3

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/15 Date Received: 08/06/15

Project: Truck City 0714.02, F&BI 508100

Date Extracted: 08/06/15

Date Analyzed: 08/06/15 and 08/07/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
S-W1-8.0 508100-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	98
S-S1-8.0 508100-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	98
B-T1-12.0 508100-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	98
B-T2-12.0 508100-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	99
S-N1-8.0 508100-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
S-E1-8.0 508100-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	99
ST-1 508100-07	< 0.02	< 0.02	0.33	0.67	190	110
ST-2 508100-08	< 0.02	< 0.02	< 0.02	< 0.06	3.0	98
ST-3 508100-09	< 0.02	<0.02	< 0.02	< 0.06	<2	98
Method Blank 05-1603 MB	< 0.02	<0.02	< 0.02	< 0.06	<2	99

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/15 Date Received: 08/06/15

Project: Truck City 0714.02, F&BI 508100

Date Extracted: 08/06/15 Date Analyzed: 08/06/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
S-W1-8.0 508100-01	< 50	<250	91
S-S1-8.0 508100-02	<50	<250	84
B-T1-12.0 508100-03	< 50	<250	87
B-T2-12.0 508100-04	< 50	<250	99
S-N1-8.0 508100-05	< 50	<250	85
S-E1-8.0 508100-06	< 50	<250	85
ST-1 508100-07	1,600	<250	85
ST-2 508100-08	110	<250	83
ST-3 508100-09	<50	<250	89
Method Blank 05-1568 MB	< 50	<250	85

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-W1-8.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-01

 Date Analyzed:
 08/07/15
 Data File:
 508100-01.017

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 2.71

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-S1-8.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-02

 Date Analyzed:
 08/07/15
 Data File:
 508100-02.020

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 1.34

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: B-T1-12.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-03

 Date Analyzed:
 08/07/15
 Data File:
 508100-03.021

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 2.77

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: B-T2-12.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-04

 Date Analyzed:
 08/07/15
 Data File:
 508100-04.022

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 3.23

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-N1-8.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-05

 Date Analyzed:
 08/07/15
 Data File:
 508100-05.023

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Concentration

Analyte: mg/kg (ppm)

Lead 2.27

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: S-E1-8.0 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-06

 Date Analyzed:
 08/07/15
 Data File:
 508100-06.024

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 92 60 125

Concentration

Analyte: mg/kg (ppm)

Lead 1.38

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: ST-1 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-07

 Date Analyzed:
 08/07/15
 Data File:
 508100-07.026

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 92 60 125

Concentration

Analyte: mg/kg (ppm)

Lead 2.26

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: ST-2 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-08

 Date Analyzed:
 08/07/15
 Data File:
 508100-08.027

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 91 60 125

Concentration

Analyte: mg/kg (ppm)

Lead 4.35

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: ST-3 Client: Maul Foster Alongi

Date Received: 08/06/15 Project: Truck City 0714.02, F&BI 508100

 Date Extracted:
 08/07/15
 Lab ID:
 508100-09

 Date Analyzed:
 08/07/15
 Data File:
 508100-09.028

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 92 60 125

Concentration

Analyte: mg/kg (ppm)

Lead 3.93

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: NA Project: Truck City 0714.02, F&BI 508100

Date Extracted: 08/07/15 Lab ID: I5-434 mb
Date Analyzed: 08/07/15 Data File: I5-434 mb.015
Matrix: Soil Instrument: ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: AP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 89 60 125

Concentration

Analyte: mg/kg (ppm)

Lead <1

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/15 Date Received: 08/06/15

Project: Truck City 0714.02, F&BI 508100

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508087-06 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	92	69-120
Toluene	mg/kg (ppm)	0.5	103	70-117
Ethylbenzene	mg/kg (ppm)	0.5	103	65-123
Xylenes	mg/kg (ppm)	1.5	100	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/15 Date Received: 08/06/15

Project: Truck City 0714.02, F&BI 508100

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508100-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	90	99	63-146	10

Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	79-144

ENVIRONMENTAL CHEMISTS

Date of Report: 08/10/15 Date Received: 08/06/15

Project: Truck City 0714.02, F&BI 508100

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 508100-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	2.20	106	103	59-148	3

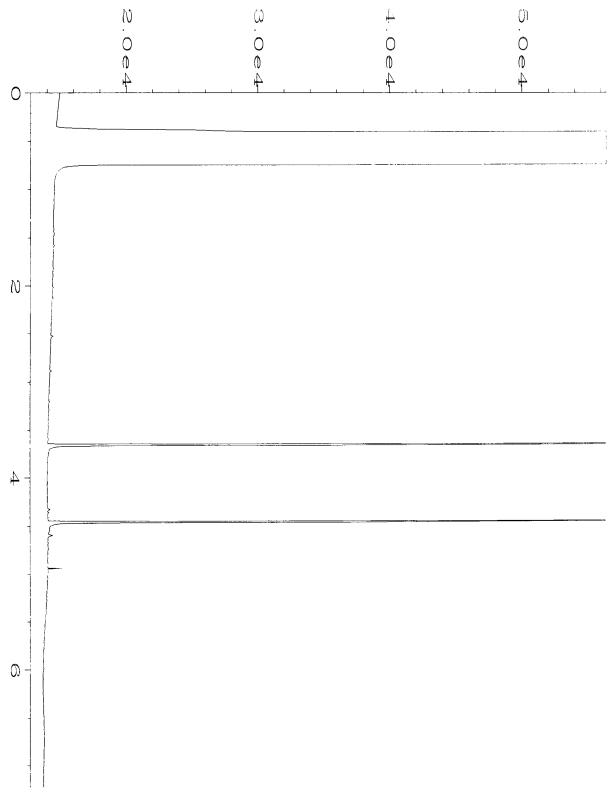
Laboratory Code: Laboratory Control Sample

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Lead	mg/kg (ppm)	50	106	80-120

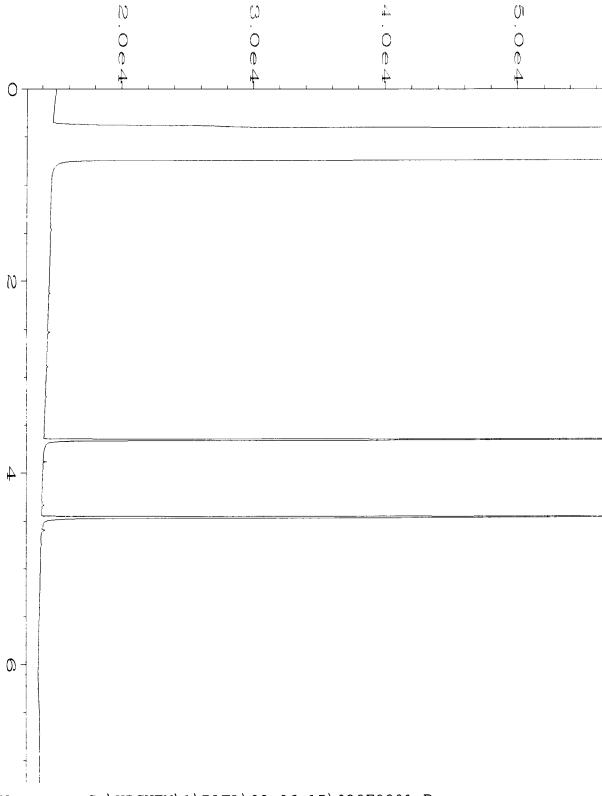
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

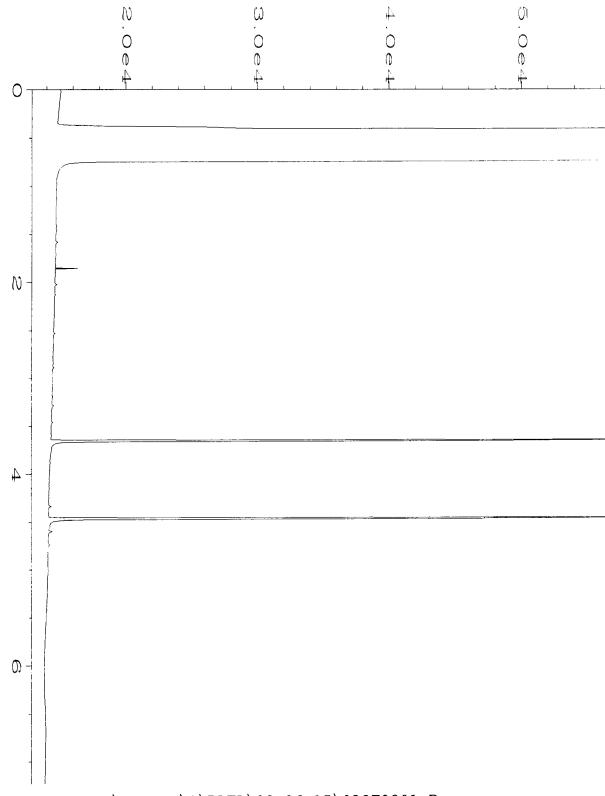
- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



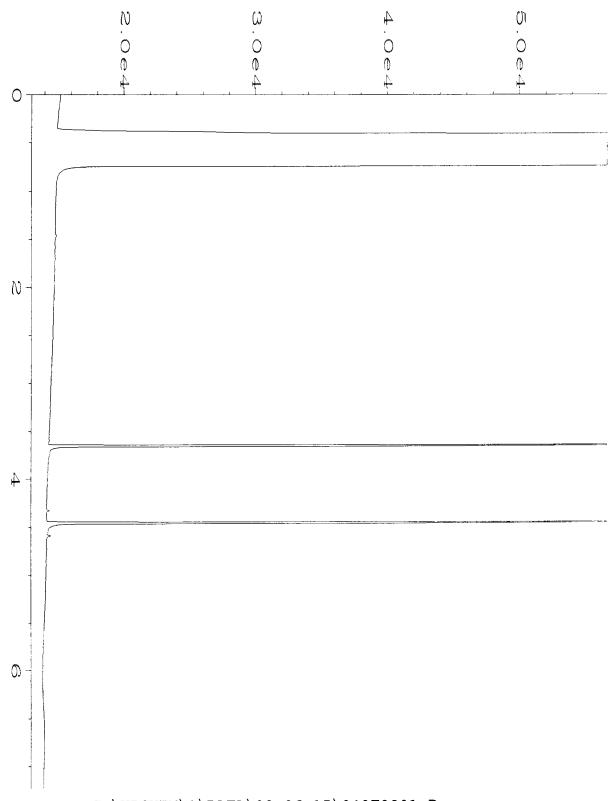
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Operator
                : mwdl
                                              Vial Number : 37
Instrument
                : GC1
                                              Injection Number: 1
Sample Name
                : 508100-01
                                              Sequence Line : 9
Run Time Bar Code:
                                              Instrument Method: DX.MTH
Acquired on : 06 Aug 15 05:43 PM
                                              Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:44 AM
```



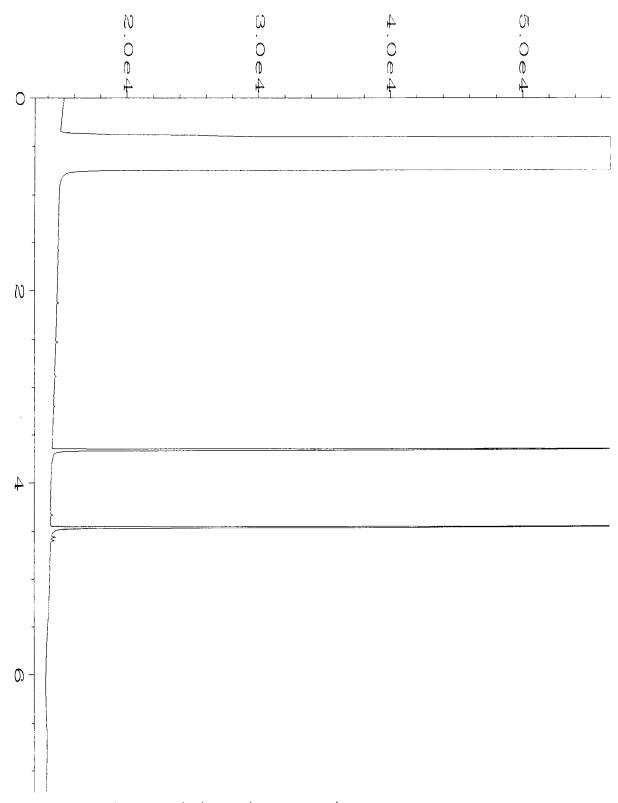
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Data File Name
                                               Page Number
Operator
                : mwdl
                                              Vial Number
                                                               : 38
Instrument
                : GC1
                                               Injection Number: 1
                : 508100-02
Sample Name
                                               Sequence Line : 9
Run Time Bar Code:
                                              Instrument Method: DX.MTH
Acquired on : 06 Aug 15 05:54 PM
                                              Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:44 AM
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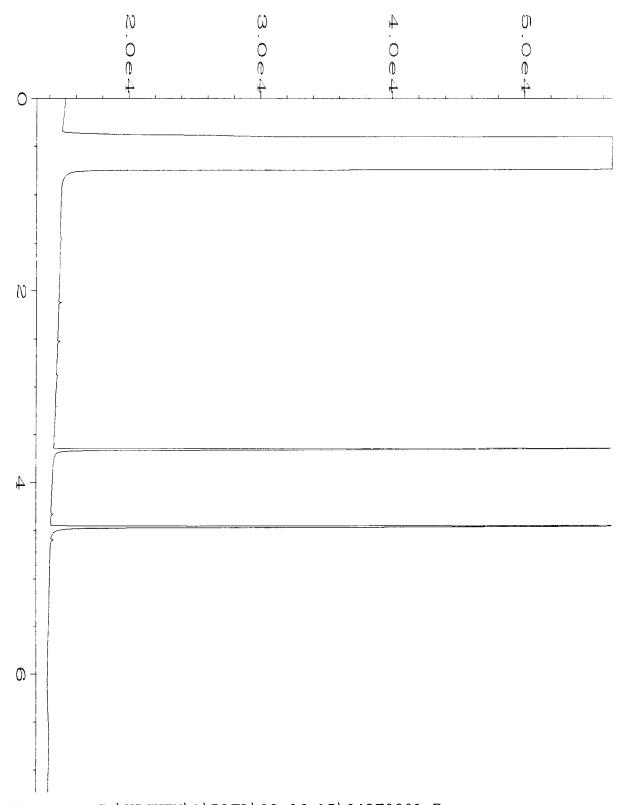
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Data File Name
                                               Page Number
Operator
                 : mwdl
                                               Vial Number
                                                                : 39
                : GC1
Instrument
                                               Injection Number: 1
                : 508100-03
Sample Name
                                               Sequence Line : 9
Run Time Bar Code:
                                               Instrument Method: DX.MTH
Acquired on : 06 Aug 15 06:05 PM
Report Created on: 07 Aug 15 08:44 AM
                                               Analysis Method : DX.MTH
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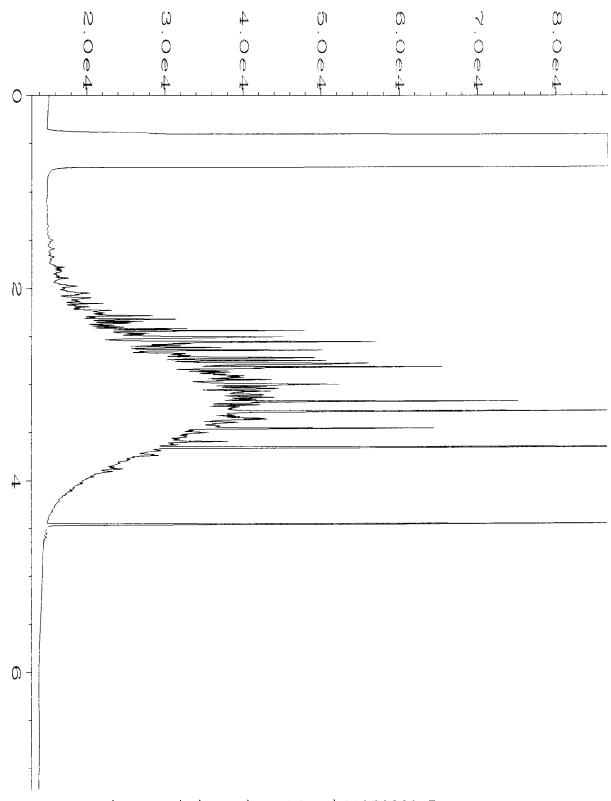
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Data File Name
                                               Page Number
Operator
                 : mwdl
                                                                : 1
                                                                : 40
                                               Vial Number
Instrument
                : GC1
                                               Injection Number: 1
                : 508100-04
Sample Name
                                               Sequence Line : 9
Run Time Bar Code:
                                               Instrument Method: DX.MTH
                : 06 Aug 15 06:17 PM
Acquired on
                                               Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:44 AM
```



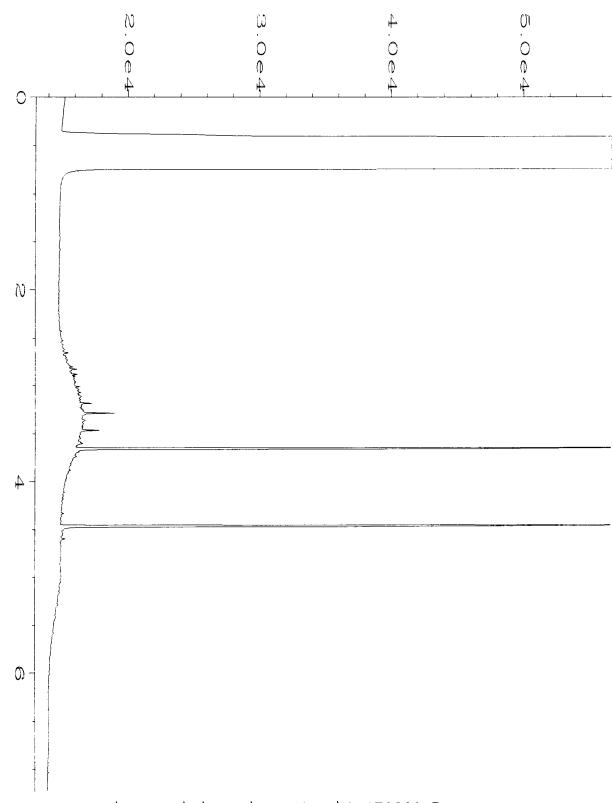
```
Data File Name
                : C:\HPCHEM\1\DATA\08-06-15\041F0901.D
                                              Page Number
                : mwdl
Operator
                                              Vial Number
Instrument
                                                               : 41
                : GC1
                : 508100-05
                                              Injection Number: 1
Sample Name
                                              Sequence Line : 9
Run Time Bar Code:
Acquired on : 06 Aug 15 06:28 PM
                                              Instrument Method: DX.MTH
                                              Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:45 AM
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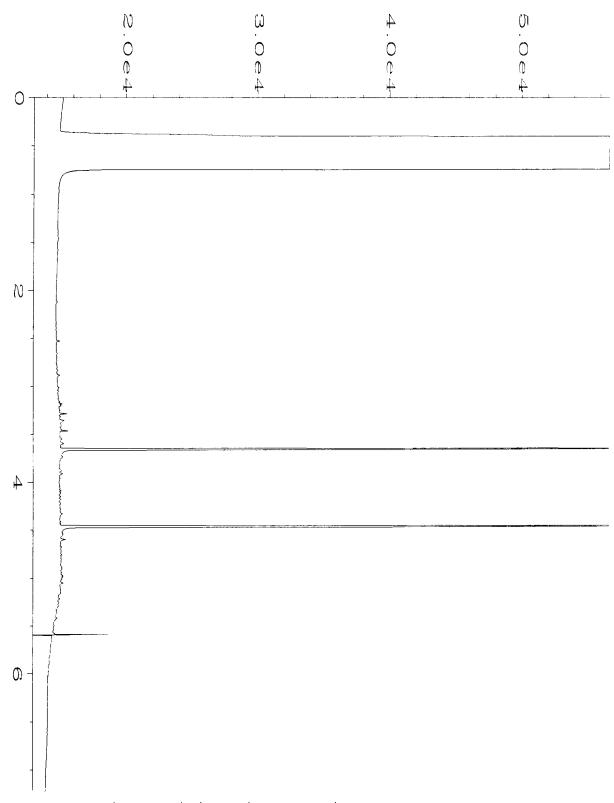
Data File Name	:	C:\HPCHEM\1\DATA\08-06-15\	\042F0901.D
Operator	:	mwdl	Page Number : 1
Instrument	:	GC1	Vial Number : 42
Sample Name	:	508100-06	Injection Number : 1
Run Time Bar Code	:		Sequence Line : 9
Acquired on	:	06 Aug 15 06:39 PM	Instrument Method: DX.MTH
Report Created or	1:	07 Aug 15 08:45 AM	Analysis Method : DX.MTH



```
Data File Name
                : C:\HPCHEM\1\DATA\08-06-15\043F0901.D
                                              Page Number
Operator
                : mwdl
                                              Vial Number
                                                              : 43
                : GC1
Instrument
                : 508100-07
                                              Injection Number: 1
Sample Name
                                              Sequence Line : 9
Run Time Bar Code:
Acquired on : 06 Aug 15 06:51 PM
                                              Instrument Method: DX.MTH
                                              Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:45 AM
```



Data File Name : C:\HPCHEM\1\DATA\08-06-15\044F0901.D Page Number Operator : mwdl Vial Number : 44 Instrument : GC1 Injection Number: 1 : 508100-08 Sample Name Sequence Line : 9 Run Time Bar Code: Instrument Method: DX.MTH Acquired on : 06 Aug 15 07:02 PM Analysis Method : DX.MTH Report Created on: 07 Aug 15 08:45 AM

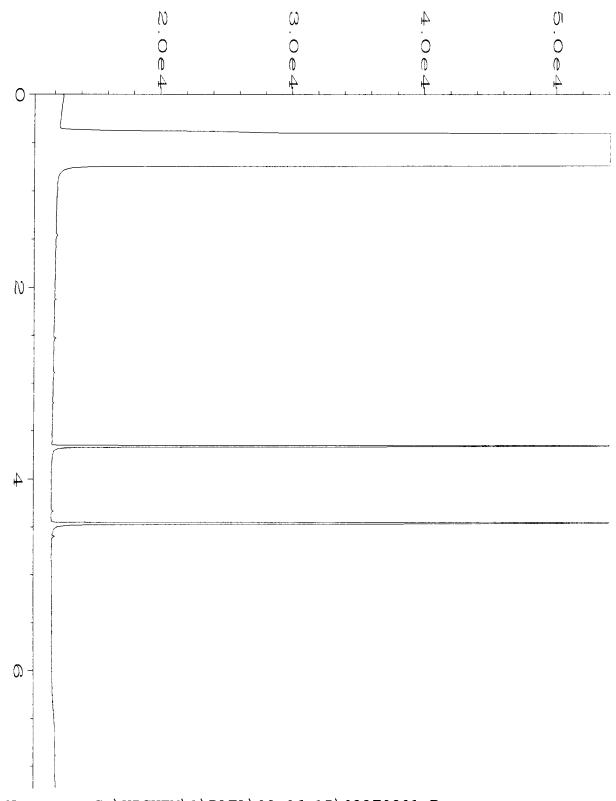


News 1

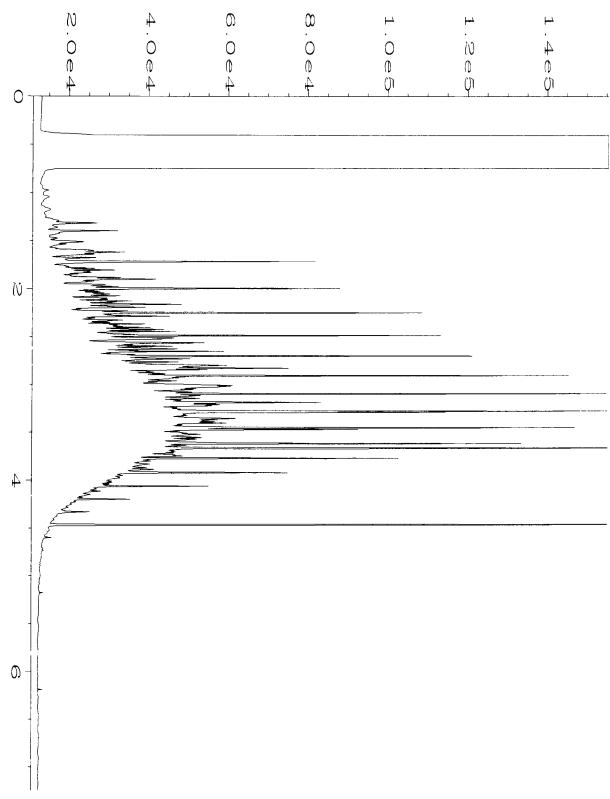
2.66

1.1

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: C:\HPCHEM\1\DATA\08-06-15\045F0901.D
Data File Name
                                                Page Number : 1
Vial Number : 45
Operator
                 : mwdl
Instrument
                : GC1
                 : 508100-09
                                                Injection Number: 1
Sample Name
                                                Sequence Line : 9
Run Time Bar Code:
                                                Instrument Method: DX.MTH
Acquired on : 06 Aug 15 07:14 PM
                                                Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:45 AM
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Data File Name : C:\HPCHEM\1\DATA\08-06-15\033F0901.D
                                             Page Number
Operator
                : mwdl
                                             Vial Number : 33
Instrument
                : GC1
                                             Injection Number: 1
Sample Name
                : 05-1568 mb
                                             Sequence Line : 9
Run Time Bar Code:
Acquired on : 06 Aug 15 04:58 PM
                                             Instrument Method: DX.MTH
                                             Analysis Method : DX.MTH
Report Created on: 07 Aug 15 08:45 AM
```



1301

1.444

inch.

1 77

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Data File Name
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                                              Page Number
Operator
                : mwdl
Instrument
                : GC1
                                              Vial Number
                                                               : 3
                : 500 Dx 44-94C
                                               Injection Number: 1
Sample Name
                                              Sequence Line : 2
Run Time Bar Code:
                                               Instrument Method: DX.MTH
Acquired on : 06 Aug 15 06:35 AM
Report Created on: 07 Aug 15 08:48 AM
                                              Analysis Method : DX.MTH
```

Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. 8-1 City, State, ZIP Belling ham Address \$1329 N. State $(\nabla D$ Phone #2533205378 Fax # Company Maul Send Report To _ 7 Sample ID 0,00) Ó \ \ \ 00 Jen-Received by: Relinquished by; Received by: Relinquished by: 2 R \$ g 02 ٥५ 2 011-68/6/15/1204 Lab ID 6/8/ 8/6/15/1150 8/6/15 600 Sampled e Date Ŋ įŜ <u>v</u> 5 WA 98225 REMARKS Alongi S十 Sk30 1330 1000 130 138 Sampled 0 1 3 4 0 Time Sample Type V SAMPLERS (signature) **(**\) PROJECT NAME/NO. Iruck City-0714.02 containers # of ST-1 Land - 24 12 TAT All other sed text PRINT NAME TPH-Diesel TPH-Gasoline VOCs by8260 be AM 8/6/12 ANALYSES REQUESTED SVOCs by 8270 **HFS** Pb THI PQ# COMPANY anipestricelynd at ☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions Standard (2 Weeks) Rush charges authorized by Page #_ TURNAROUND TIME SAMPLE DISPOSAL 8/6/ DATE tox Saturated ROT SET 105 not sat Saturated Saturated Saturated 70+ Notes 34 52+ sat TIME

508100

SAMPLE CHAIN OF CUSTODY

ME 08-86-15

FORMS\COC\COC.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 14, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 7, 2015 from the Truck City, PO 0714-03, F&BI 508128 project. There are 21 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures

c:

MFA0814R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 7, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City, PO 0714-03 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508128 -01	ST-4
508128 -02	B1-T4-14.0
508128 -03	ST-5
508128 -04	B2-T4-14.0
508128 -05	S-N2-10.0
508128 -06	B-T3-12.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

Date Extracted: 08/10/15 Date Analyzed: 08/10/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	Gasoline	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 56-165)
S-N2-10.0 508128-05	ND	ND	ND	83
Method Blank	ND	ND	ND	80

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

Date Extracted: 08/07/15 Date Analyzed: 08/07/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
ST-4 508128-01	< 0.02	< 0.02	< 0.02	< 0.06	11	95
B1-T4-14.0 508128-02	< 0.02	< 0.02	< 0.02	< 0.06	2.8	95
ST-5 508128-03	< 0.02	< 0.02	0.090	0.087	110	86
B2-T4-14.0 508128-04	< 0.02	< 0.02	0.028	< 0.06	28	95
B-T3-12.0 508128-06	<0.02	<0.02	<0.02	< 0.06	2.7	93
Method Blank 05-1607 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	94

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

Date Extracted: 08/07/15 Date Analyzed: 08/07/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
ST-4 508128-01	1,000	<250	121
B1-T4-14.0 508128-02	<50	<250	112
ST-5 508128-03	5,100	<250	111
B2-T4-14.0 508128-04	1,100	<250	115
B-T3-12.0 508128-06	< 50	<250	108
Method Blank 05-1582 MB	< 50	<250	93

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: ST-4 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

 Date Extracted:
 08/10/15
 Lab ID:
 508128-01

 Date Analyzed:
 08/10/15
 Data File:
 508128-01.036

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 92 60 125

Concentration

Analyte: mg/kg (ppm)

Lead 3.82

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: B1-T4-14.0 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

 Date Extracted:
 08/10/15
 Lab ID:
 508128-02

 Date Analyzed:
 08/10/15
 Data File:
 508128-02.037

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Lead 2.09

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: ST-5 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

 Date Extracted:
 08/10/15
 Lab ID:
 508128-03

 Date Analyzed:
 08/10/15
 Data File:
 508128-03.038

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Lead 4.00

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: B2-T4-14.0 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

 Date Extracted:
 08/10/15
 Lab ID:
 508128-04

 Date Analyzed:
 08/10/15
 Data File:
 508128-04.039

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Concentration

Analyte: mg/kg (ppm)

Lead 3.67

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: B-T3-12.0 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

 Date Extracted:
 08/10/15
 Lab ID:
 508128-06

 Date Analyzed:
 08/10/15
 Data File:
 508128-06.041

 Matrix:
 Soil
 Instrument:
 ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 89 60 125

Concentration

Analyte: mg/kg (ppm)

Lead <1

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Truck City, PO 0714-03, F&BI 508128

Date Extracted: 08/10/15 Lab ID: I5-435 mb

Date Analyzed: 08/10/15 Data File: I5-435 mb.008

Matrix: Soil Instrument: ICPMS1

Units: mg/kg (ppm) Dry Weight Operator: SP

Lower Upper Internal Standard: % Recovery: Limit: Limit: Holmium 88 60 125

Concentration

Analyte: mg/kg (ppm)

Lead <1

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID: S-N2-10.0 Client: Maul Foster Alongi

Date Received: 08/07/15 Project: Truck City, PO 0714-03, F&BI 508128

Date Extracted: 08/10/15 Lab ID: 508128-05 1/5
Date Analyzed: 08/10/15 Data File: 081015.D

Matrix: Soil Instrument: GCMS6

Unite: mg/kg (npm) Dry Weight Operator: VM

Units: mg/kg (ppm) Dry Weight Operator: VM

Surrogates: % Recovery: Limit: Limit: Anthracene-d10 117 31 163 Benzo(a)anthracene-d12 106 24 168

< 0.01

< 0.01

Concentration
mg/kg (ppm)

Benz(a)anthracene
Chrysene
Senzo(a)pyrene
Senzo(b)fluoranthene
Senzo(k)fluoranthene
Senzo(k)fluoranthene
Senzo(k)fluoranthene
Senzo(k)fluoranthene

Indeno(1,2,3-cd)pyrene

Dibenz(a,h)anthracene

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Truck City, PO 0714-03, F&BI 508128

08/10/15 Lab ID: Date Extracted: 05-1585 mb 1/5 Date Analyzed: 08/10/15 Data File: 081005.D Instrument: Matrix: Soil GCMS6 Units: mg/kg (ppm) Dry Weight Operator: VM

Lower

Upper Limit: Surrogates: % Recovery: Limit: Anthracene-d10 97 163 31 Benzo(a)anthracene-d12 91 24 168

Concentration Compounds: mg/kg (ppm)

Benz(a)anthracene < 0.01 Chrysene < 0.01 Benzo(a)pyrene < 0.01 Benzo(b)fluoranthene < 0.01 Benzo(k)fluoranthene < 0.01 Indeno(1,2,3-cd)pyrene < 0.01 Dibenz(a,h)anthracene < 0.01

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: S-N2-10.0 Client: Maul Foster Alongi

Date Received: Project: Truck City, PO 0714-03, F&BI 508128 08/07/15

Lab ID: Date Extracted: 08/10/15 508128-05 Date Analyzed: 08/11/15 Data File: 081107.D Matrix: Soil Instrument: GCMS4

Units: mg/kg (ppm) Dry Weight Operator: JS

		Lower	∪pper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	100	62	142
Toluene-d8	102	55	145
4-Bromofluorobenzene	99	65	139

	Concentration
Compounds:	mg/kg (ppm)
Benzene	< 0.03
Toluene	< 0.05
Ethylbenzene	< 0.05
m,p-Xylene	< 0.1
o-Xylene	< 0.05
Vinyl chloride	< 0.05
Chloroethane	< 0.5
1,1-Dichloroethene	< 0.05
Methylene chloride	< 0.5
trans-1,2-Dichloroethene	< 0.05
1,1-Dichloroethane	< 0.05
cis-1,2-Dichloroethene	< 0.05
1,2-Dichloroethane (EDC)	< 0.05
1,1,1-Trichloroethane	< 0.05
Trichloroethene	< 0.02
Tetrachloroethene	< 0.025

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Truck City, PO 0714-03, F&BI 508128

08/10/15 Lab ID: Date Extracted: 05-1580 mb Date Analyzed: 08/10/15 Data File: 081027.D Matrix: Soil Instrument: GCMS4

Units: mg/kg (ppm) Dry Weight Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	100	60	133

< 0.05

< 0.02

< 0.025

Concentration Compounds: mg/kg (ppm) Benzene < 0.03 Toluene < 0.05 Ethylbenzene < 0.05 m,p-Xylene < 0.1 o-Xylene < 0.05 Vinyl chloride < 0.05 Chloroethane < 0.5 1,1-Dichloroethene < 0.05 Methylene chloride < 0.5 trans-1,2-Dichloroethene < 0.05 1,1-Dichloroethane < 0.05 cis-1,2-Dichloroethene < 0.05 1,2-Dichloroethane (EDC) < 0.05

1,1,1-Trichloroethane

Trichloroethene

Tetrachloroethene

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508105-09 (Duplicate)

		Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	90	69-120		
Toluene	mg/kg (ppm)	0.5	100	70-117		
Ethylbenzene	mg/kg (ppm)	0.5	98	65-123		
Xylenes	mg/kg (ppm)	1.5	100	66-120		
Gasoline	mg/kg (ppm)	20	100	71-131		

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508119-04 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	95	100	63-146	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	111	79-144

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 508103-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Lead	mg/kg (ppm)	50	9.65	95	93	59-148	2

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Lead	mg/kg (ppm)	50	99	80-120		

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: 508127-01 1/5 (Matrix Spike)

			Sample	Percent	
	Reporting	Spike	Result	Recovery	Acceptance
Analyte	Units	Level	(Wet wt)	MS	Criteria
Benz(a)anthracene	mg/kg (ppm)	0.17	< 0.01	90	23-144
Chrysene	mg/kg (ppm)	0.17	< 0.01	94	32-149
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	< 0.01	107	23-176
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	< 0.01	107	42-139
Benzo(a)pyrene	mg/kg (ppm)	0.17	< 0.01	100	21-163
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	< 0.01	108	23-170
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	< 0.01	111	31-146

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.17	93	91	51-115	2
Chrysene	mg/kg (ppm)	0.17	97	98	55-129	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	107	107	56-123	0
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	109	109	54-131	0
Benzo(a)pyrene	mg/kg (ppm)	0.17	103	102	51-118	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	117	123	49-148	5
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	120	129	50-141	7

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 508128-05 (Matrix Spike)

	_		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	32	28	10-138	13
Chloroethane	mg/kg (ppm)	2.5	< 0.5	53	47	10-176	12
1,1-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	49	46	10-160	6
Methylene chloride	mg/kg (ppm)	2.5	< 0.5	66	61	10-156	8
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	60	57	14-137	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	67	63	19-140	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	70	68	25-135	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	76	73	12-160	4
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	69	64	10-156	8
Benzene	mg/kg (ppm)	2.5	< 0.03	67	64	29-129	5
Trichloroethene	mg/kg (ppm)	2.5	< 0.02	69	66	21-139	4
Toluene	mg/kg (ppm)	2.5	< 0.05	67	64	35-130	5
Tetrachloroethene	mg/kg (ppm)	2.5	0.023	67	64	20-133	5
Ethylbenzene	mg/kg (ppm)	2.5	< 0.05	70	67	32-137	4
m,p-Xylene	mg/kg (ppm)	5	< 0.1	73	70	34-136	4
o-Xylene	mg/kg (ppm)	2.5	< 0.05	71	68	33-134	4

ENVIRONMENTAL CHEMISTS

Date of Report: 08/14/15 Date Received: 08/07/15

Project: Truck City, PO 0714-03, F&BI 508128

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

•		Percent	
Reporting	Spike	Recovery	Acceptance
Units	Level	LCS	Criteria
mg/kg (ppm)	2.5	67	22-139
mg/kg (ppm)	2.5	88	10-163
mg/kg (ppm)	2.5	87	47-128
mg/kg (ppm)	2.5	91	42-132
mg/kg (ppm)	2.5	94	67-127
mg/kg (ppm)	2.5	97	68-115
mg/kg (ppm)	2.5	99	72-113
mg/kg (ppm)	2.5	103	56-135
mg/kg (ppm)	2.5	102	62-131
mg/kg (ppm)	2.5	95	68-114
mg/kg (ppm)	2.5	99	64-117
mg/kg (ppm)	2.5	92	66-126
mg/kg (ppm)	2.5	92	72-114
mg/kg (ppm)	2.5	95	64-123
mg/kg (ppm)	5	96	78-122
mg/kg (ppm)	2.5	95	77-124
	Units mg/kg (ppm) mg/kg (ppm)	Units Level mg/kg (ppm) 2.5 mg/kg (ppm) 5	Reporting Units Spike Level Recovery LCS mg/kg (ppm) 2.5 67 mg/kg (ppm) 2.5 88 mg/kg (ppm) 2.5 87 mg/kg (ppm) 2.5 91 mg/kg (ppm) 2.5 94 mg/kg (ppm) 2.5 97 mg/kg (ppm) 2.5 99 mg/kg (ppm) 2.5 103 mg/kg (ppm) 2.5 95 mg/kg (ppm) 2.5 99 mg/kg (ppm) 2.5 92 mg/kg (ppm) 2.5 92 mg/kg (ppm) 2.5 95 mg/kg (ppm) 2.5 95

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Company Maul City, State, ZIP Seattle, W.F. Address 4/1 Frst Send Report To Phone # 2533205378 Fax #

* Run otandard tum par SAMPLERS (signature) PROJECT NAME/NO Truck 0714-03 PO#

[] Standard (2 Weeks) TURNAROUND TIME Page #

MRUSH
Rush charges authorized by SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

[7] Will call with instructions

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FORMS/COC/COC DO Seattle, WA 981 3012 16th Aven Fax (206) 283-51 Ph. (206) 285-82

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 13, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the additional results from the testing of material submitted on August 12, 2015 from the Truck City, PO 0714.03, F&BI 508194 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA1013R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 12, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City, PO 0714.03, F&BI 508194 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508194 -01	P1-S2-3.5
508194 -02	P2-S1-3.5
508194 -03	D3-8.0
508194 -04	D1-4.0
508194 -05	D2-4.0
508194 -06	P1-S1-3.5
508194 -07	D4-4.0
508194 -08	P1-S3-3.5
508194 -09	D5-4.0

Sample D3-8.0 was analyzed out of hold time. The data were flagged accordingly.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 10/09/15 Date Analyzed: 10/09/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
D3-8.0 ht 508194-03	< 0.02	<0.02	0.64	1.8	310	112
Method Blank	<0.02	< 0.02	< 0.02	<0.06	<2	92

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 10/09/15 Date Analyzed: 10/09/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
D3-8.0 ht 508194-03	10,000	<250	90
Method Blank	< 50	<250	82

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 510127-02 (Duplicate)

-		Sample	Duplicate	222
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	79	66-121
Toluene	mg/kg (ppm)	0.5	86	72-128
Ethylbenzene	mg/kg (ppm)	0.5	86	69-132
Xylenes	mg/kg (ppm)	1.5	87	69-131
Gasoline	mg/kg (ppm)	20	100	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 510125-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	106	102	64-133	4

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	101	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
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- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Address 4//

Company 4

Send Report To

City, State, ZIP Seattle,

REMARKS

ruck

Phone #2533205378 Fax #

SAMPLE CHAIN OF CUSTODY $ME \sigma \delta / 12$,

PROJECT NAME/NO. SAMPLERS (signature)

0714.03

TURNAROUND TIME

Standard (2 Weeks)

CRUSH

Rush charges authorized by

☐ Return samples ☐ Dispose after 30 days SAMPLE DISPOSAL

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Notes		TPH-Diesel TPH-Gasoline BTEX by 8021B VOCs by8260 SVOCs by 8270 HFS	# of containers	Sample Type	Date Time Sampled Sampled	Lab I ID Sai	Sample ID
	ANALYSES REQUESTED	ANAL					

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 13, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the additional results from the testing of material submitted on August 12, 2015 from the Truck City, PO 0714.03, F&BI 508194 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA1013R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

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508194 -02	P2-S1-3.5
508194 -03	D3-8.0
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508194 -07	D4-4.0
508194 -08	P1-S3-3.5
508194 -09	D5-4.0
508194 -04 508194 -05 508194 -06 508194 -07 508194 -08	D1-4.0 D2-4.0 P1-S1-3.5 D4-4.0 P1-S3-3.5

Sample D3-8.0 was analyzed out of hold time. The data were flagged accordingly.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 10/09/15 Date Analyzed: 10/09/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
D3-8.0 ht 508194-03	< 0.02	<0.02	0.64	1.8	310	112
Method Blank	<0.02	< 0.02	< 0.02	<0.06	<2	92

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 10/09/15 Date Analyzed: 10/09/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
D3-8.0 ht 508194-03	10,000	<250	90
Method Blank	< 50	<250	82

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 510127-02 (Duplicate)

-		Sample	Duplicate	222
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
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Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	79	66-121		
Toluene	mg/kg (ppm)	0.5	86	72-128		
Ethylbenzene	mg/kg (ppm)	0.5	86	69-132		
Xylenes	mg/kg (ppm)	1.5	87	69-131		
Gasoline	mg/kg (ppm)	20	100	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 510125-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	106	102	64-133	4

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	101	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

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- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
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- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
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- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions TURNAROUND TIME SAMPLE DISPOSAL ME 08/12/15 0714.03 SAMPLE CHAIN OF CUSTODY SAMPLERS (signature) PROJECT NAME/NO REMARKS Send Report To Yen-Uy Van Phone #2533205378 Fax # City, State, ZIP Deatle 761805 Address 4// Company _

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Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044
Rec

FORMS/COC/COC.DOC

Ç Samples received at COMPANY PRINT NAME Relinquished by Relinquished by Received by: Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 18, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 12, 2015 from the Truck City, PO 0714.03, F&BI 508194 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures

c:

MFA0818R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 12, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City, PO 0714.03, F&BI 508194 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508194 -01	P1-S2-3.5
508194 -02	P2-S1-3.5
508194 -03	D3-8.0
508194 -04	D1-4.0
508194 -05	D2-4.0
508194 -06	P1-S1-3.5
508194 -07	D4-4.0
508194 -08	P1-S3-3.5
508194 -09	D5-4.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 08/12/15

Date Analyzed: 08/12/15 and 08/13/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
P1-S2-3.5 508194-01 1/50	7.0	1,400	770	4,400	40,000	111
D1-4.0 508194-04	0.13	< 0.02	< 0.02	< 0.06	6.2	94
D2-4.0 508194-05 1/5	0.37	3.9	1.5	11	170	95
P1-S1-3.5 508194-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	96
D4-4.0 508194-07 1/5	0.13	0.63	6.2	20	1,900	127
D5-4.0 508194-09	<0.02	<0.02	< 0.02	< 0.06	<2	83
Method Blank 05-1614 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	97

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

Date Extracted: 08/12/15 Date Analyzed: 08/12/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
P1-S2-3.5 508194-01	1,800 x	<250	89
D1-4.0 508194-04	< 50	<250	90
D2-4.0 508194-05	7,600	<250	94
P1-S1-3.5 508194-06	< 50	<250	88
D4-4.0 508194-07	27,000	360 x	129
D5-4.0 508194-09	<50	<250	90
Method Blank 05-1655 MB	<50	<250	91

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508189-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	89	69-120
Toluene	mg/kg (ppm)	0.5	105	70-117
Ethylbenzene	mg/kg (ppm)	0.5	103	65-123
Xylenes	mg/kg (ppm)	1.5	103	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/15 Date Received: 08/12/15

Project: Truck City, PO 0714.03, F&BI 508194

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508179-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	94	100	63-146	6

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	97	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

16/1

Notes

16/4

PRINT NAME Carolyn CC, VINH	PRINT NAME COMPANY Arolyn Wise MFA
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Fold Hold

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 2, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the additional results from the testing of material submitted on August 18, 2015 from the Truck City 0714.03, F&BI 508306 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0902R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 18, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03, F&BI 508306 project. Samples were logged in under the laboratory ID's listed below.

Maul Foster Alongi
P1-S2-B1-10.0
P1-S2-SN-9.0
D1-B-9.5
D2-B-10.0
D4-B-10.0
BT-PRE-1
BT-POST-1

Per your request, sample P1-S2-B1-10.0 was reextracted and reanalyzed.

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/15 Date Received: 08/18/15

Project: Truck City 0714.03, F&BI 508306

Date Extracted: 08/24/15 Date Analyzed: 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
P1-S2-B1-10.0 508306-01	< 0.02	< 0.02	< 0.02	<0.06	<2	92
Method Blank	< 0.02	< 0.02	<0.02	<0.06	<2	106

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/15 Date Received: 08/18/15

Project: Truck City 0714.03, F&BI 508306

Date Extracted: 08/24/15 Date Analyzed: 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
P1-S2-B1-10.0 508306-01	<50	<250	111
Method Blank 05-1724 MB	< 50	<250	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/15 Date Received: 08/18/15

Project: Truck City 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508400-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	82	69-120
Toluene	mg/kg (ppm)	0.5	83	70-117
Ethylbenzene	mg/kg (ppm)	0.5	81	65-123
Xylenes	mg/kg (ppm)	1.5	82	66-120
Gasoline	mg/kg (ppm)	20	85	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/02/15 Date Received: 08/18/15

Project: Truck City 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508368-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	440	119	122	73-135	2

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	mg/kg (ppm)	5,000	122	74-139	_

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

City, State, ZIP Seattle, Address 411 First Company _ Send Report To SAMPLE CHAIN OF CUSTODY REMARKS City PROJECT NAME/NO SAMPLERS (signature) () 0714.03 ME 08-18-11 PQ# ☐ Dispose after 30 days Rush charges authorized by Standard (2 Weeks) Page #__ TURNAROUND TIME SAMPLE DISPOSAL

Phone # 2533205378 Fax #

☐ Return samples
☐ Will call with instructions

FORMS\COC\COC.DOC	Fax (206) 283-5044	Ph. (206) 285-8282	Seattle, WA 98119-2029	Friedman & Bruya, Inc. 3012 16th Avenue West				61 - POST-1	BT-PRE-1	D4-8-10.0	D2-6-10.0	01-8-9.5	P2-S2-SN-9.0 02	P2-52-B1-10.001A EX/18/15 745	Sample ID	
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 21, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 18, 2015 from the Truck City, PO 0714.03, F&BI 508306 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0821R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 18, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City, PO 0714.03 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508306 -01	P1-S2-B1-10.0
508306 -02	P1-S2-SN-9.0
508306 -03	D1-B-9.5
508306 -04	D2-B-10.0
508306 -05	D4-B-10.0
508306 -06	BT-PRE-1
508306 -07	BT-POST-1

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

Date Extracted: 08/18/15

Date Analyzed: 08/18/15 and 08/19/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
P1-S2-B1-10.0 508306-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	99
P1-S2-SN-9.0 508306-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	100
D1-B-9.5 508306-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	100
D2-B-10.0 508306-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	100
D4-B-10.0 508306-05	< 0.02	< 0.02	<0.02	<0.06	<2	82
Method Blank 05-1630 MB	<0.02	< 0.02	<0.02	<0.06	<2	99

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

Date Extracted: 08/18/15 Date Analyzed: 08/19/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-PRE-1 508306-06	<1	1.4	<1	<3	120	80
BT-POST-1 508306-07	<1	<1	<1	<3	<100	82
Method Blank 05-1628 MB	<1	<1	<1	<3	<100	80

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

Date Extracted: 08/18/15 Date Analyzed: 08/18/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
P1-S2-B1-10.0 508306-01	< 50	<250	96
P1-S2-SN-9.0 508306-02	< 50	<250	93
D1-B-9.5 508306-03	< 50	<250	94
D2-B-10.0 508306-04	< 50	<250	100
D4-B-10.0 508306-05	<50	<250	97
Method Blank 05-1700 MB	< 50	<250	88

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

Date Extracted: 08/19/15 Date Analyzed: 08/19/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
BT-PRE-1 508306-06	2,400 x	600 x	96
BT-POST-1 508306-07	<50	<250	91
Method Blank 05-1672 MB2	< 50	<250	88

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508306-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	0.022	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	83	69-120
Toluene	mg/kg (ppm)	0.5	98	70-117
Ethylbenzene	mg/kg (ppm)	0.5	97	65-123
Xylenes	mg/kg (ppm)	1.5	97	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508250-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	ug/L (ppb)	50	102	65-118		
Toluene	ug/L (ppb)	50	101	72-122		
Ethylbenzene	ug/L (ppb)	50	106	73-126		
Xylenes	ug/L (ppb)	150	103	74-118		
Gasoline	ug/L (ppb)	1,000	94	69-134		

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508284-07 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	90	81	64-133	11

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	91	58-147

ENVIRONMENTAL CHEMISTS

Date of Report: 08/21/15 Date Received: 08/18/15

Project: Truck City, PO 0714.03, F&BI 508306

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

-	-		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	93	99	63-142	6

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 Friedman & Bruya, Inc. 3012 16th Avenue West 2-S2-SN-9.0 02 P1-S2-B1-10.001AF8/18/15 745 Phone # 2533205378 Fax # City, State, ZIP Deattle, NA Address 411 First Are S. Suite Company _ Send Report To D1-B-9.5 03 D4-B-10.0 D2-B-10.0 lox/ Sample ID Received by: Relinquished by Relinquished Received by: 05 Lab ID 18/8/18 18/8/18 8/15 830 8/8/5/1100 Sampled | Sampled /18/15 Date 18/15/1400 40186 1220 1930 1240 Time SAMPLE CHAIN OF CUSTODY Sample Type 3 3 S S REMARKS PROJECT NAME/NO. SAMPLERS (signature) () aroly IVWCK City Elizabeth Walber - Bruys containers 'aroun PRINT NAME TPH-Diesel TPH-Gasoline ANALYSES REQUESTED SVOCs by 8270 **HFS** 0714.03 F)B1 P0# COMPANY Samples received at Standard (2 Weeks) ☐ Will call with instructions ☐ Return samples ☐ Dispose after 30 days Rush charges authorized by TURNAROUND TIME SAMPLE DISPOSAL coaturated paturated Saturated Notes **イト**わ TIME

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 27, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 19, 2015 from the Truck City 0714.03.01, F&BI 508337 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0827R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 19, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508337 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
508337 -01	RE4-B-10.0
508337 -02	RE4-SW-9.0
508337 -03	RE4-SS-9.0
508337 -04	RE4-SE-8.0
508337 -05	RE4-SN-8.5
508337 -06	RE1-BN-10.0
508337 -07	RE1-BS-10.0
508337 -08	RE1-SN-9.0
508337 -09	RE1-SE-9.0
508337 -10	RE1-SS-8.5
508337 -11	RE1-SW-9.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/19/15

Project: Truck City 0714.03.01, F&BI 508337

Date Extracted: 08/19/15

Date Analyzed: 08/19/15, 08/20/15 and 08/22/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE4-B-10.0 508337-01	< 0.02	< 0.02	<0.02	< 0.06	<2	84
RE4-SW-9.0 508337-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	82
RE4-SS-9.0 508337-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	85
RE4-SE-8.0 508337-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
RE4-SN-8.5 508337-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
RE1-BN-10.0 508337-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	83
RE1-BS-10.0 508337-07	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
RE1-SN-9.0 508337-08 1/5	0.42	5.4	<0.1	30	750	105
RE1-SE-9.0 508337-09 1/5	1.1	9.5	20	7.5	2,300	130
RE1-SS-8.5 508337-10	< 0.02	0.11	0.17	0.37	61	87
RE1-SW-9.0 508337-11	0.55	0.12	1.2	1.1	32	85
Method Blank 05-1634 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	84

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/19/15

Project: Truck City 0714.03.01, F&BI 508337

Date Extracted: 08/19/15 Date Analyzed: 08/19/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE4-B-10.0 508337-01	< 50	<250	111
RE4-SW-9.0 508337-02	< 50	<250	110
RE4-SS-9.0 508337-03	< 50	<250	109
RE4-SE-8.0 508337-04	< 50	<250	107
RE4-SN-8.5 508337-05	< 50	<250	117
RE1-BN-10.0 508337-06	< 50	<250	111
RE1-BS-10.0 508337-07	< 50	<250	126
RE1-SN-9.0 508337-08	13,000	310 x	119
RE1-SE-9.0 508337-09	9,200	<250	126
RE1-SS-8.5 508337-10	< 50	<250	119
RE1-SW-9.0 508337-11	<50	<250	109
Method Blank 05-1707 MB	<50	<250	121

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/19/15

Project: Truck City 0714.03.01, F&BI 508337

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508337-03 (Duplicate)

, and the second		Sample	Duplicate	nnn.
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	93	66-121		
Toluene	mg/kg (ppm)	0.5	98	72-128		
Ethylbenzene	mg/kg (ppm)	0.5	101	69-132		
Xylenes	mg/kg (ppm)	1.5	99	69-131		
Gasoline	mg/kg (ppm)	20	95	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/19/15

Project: Truck City 0714.03.01, F&BI 508337

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508337-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	115	114	63-146	1

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Ph. (206) 285-8282 FORMS\COC\COC.DOC REI - SS - 8,5 Seattle, WA 98119-2029 Friedman & Bruya, Inc. Fax (206) 283-5044 3012 16th Avenue West RI-SN-9,0 RE1 - 85 - 10,0 死4-SW-9.0 REI-SE-9,0 RE4-5N-8,5 RE1-BN-10.0 RE4-8-10.0 RE4-SE-8.0 RE4-SS-9.0 City, State, ZIP SATTLE, WA Address 411 Flost AVE S, suite 610 Phone #(253) 320-5378 Fax # Sample ID Received by: Received by: Relinquished by: Relinquished by: 40 80 8 ō 3 Š 2 ω 0241 OIA: 8/19/15 Lab D t Sampled 4 Date SIGNATURE 40184 Sampled 1330 1400 1345 1230 1220 241 1125 270 1040 1055 Time Sample Type 2016 REMARKS 13nh Webber-Bruga KNOBEL PARKES containers # of ጣ 4 PRINT NAME マ マ マ マ 8 X X ጾ X X × X TPH-Diesel X R X 又 ス 8 <u>አ</u> ጽ X TPH-Gasoline ヌ R 又 X X X VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 imples received at **HFS** MANY LOSTER TUNGS FZ 81 COMPANY ☐ Return samples
☐ Will call with instructions ☐ Dispose after 30 days SAMPLE DISPOSAL 8/19/15 8/19/15 となること DATE 大学品 * SAMPLE SATURATED * SAMPLE SATURATED Gravely Sample Notes 1200 TIME

SAMPLE CHAIN OF CUSTODY

22

85N/502

SAMPLERS (signature) PROJECT NAME/NO.

PO#

TRUCK CATY/0714.03.01

Company Man Foster ALONG

Send Report To _

TEN-VY VAN

7087

RUSH_ Rush charges authorized by ☐ Standard (2 Weeks) TURNAROUND TIME

FORMS\COC\COC.DOC Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Fax (206) 283-5044 Friedman & Bruya, Inc. RE1-SW-7.0 Phone # (253) 320-5378 Fax # City, State, ZIP SERVICE, WA 98104 Send Report To YEN-VY VAN Company MAN FOSTER ALONGI Address 411 FIRST AND S , SHITE 60 Sample ID SIGNATURE Relinquished by: Received by: Received by: Relinquished by: 11/4E| 8/19/15 Lab ID Sampled Date Time Sampled 14/0 Sample Type | containers 5012 TRACKCITY / 0714.03.01 SAMPLERS (signature) PROJECT NAME/NO. REMARKS Ann Webber-Bruga ATORY THEAD # of 4 PRINT NAME X TPH-Diesel X TPH-Gasoline VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 **HFS** 7.67 7.67 PO# COMPANY Standard (2 Weeks)

RUSH

Rush charges authorized by ☐ Return samples
☐ Will call with instructions ☐ Dispose after 30 days TURNAROUND TIME SAMPLE DISPOSAL 8/19/15 DATE

TIME Sos

Notes

SAMPLE CHAIN OF CUSTODY

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 1, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 20, 2015 from Truck City 0714.03.01, F&BI 508363 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 20, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508363 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
508363 -01	RE3-B-10.0
508363 -02	RE3-SE-9.0
508363 -03	RE3-SS-9.0
508363 -04	RE3-SW-9.0
508363 -05	RE3-SN-9.0
508363 -06	RE2-B-10.0
508363 -07	RE2-SE-10.0
508363 -08	RE2-SS-9.0
508363 -09	RE2-SW-9.0
508363 -10	RE2-SN-9.0
508363 -11	REST01-01
508363 -12	REST01-02
508363 -13	REST01-03
508363 -14	REST02-01
508363 -15	REST02-02
508363 -16	REST02-03
508363 -17	REST03-01
508363 -18	REST03-02
508363 -19	REST03-03
508363 -20	REST04-01
508363 -21	REST04-02
508363 -22	REST04-03
508363 -23	REST02-01-DUP
508363 -24	REST03-01-DUP

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15

Date Analyzed: 08/20/15, 08/21/15, 08/22/15 and 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE3-B-10.0 508363-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	83
RE3-SE-9.0 508363-02	0.046	0.090	0.039	0.23	3.4	105
RE3-SS-9.0 508363-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	83
RE3-SW-9.0 508363-04	< 0.02	0.11	0.080	0.24	14	105
RE3-SN-9.0 508363-05 1/5	<0.1	0.89	3.8	14	400	99
RE2-B-10.0 508363-06	< 0.02	0.046	< 0.02	< 0.06	<2	101
RE2-SE-10.0 508363-07	< 0.02	0.16	0.11	0.20	39	104
RE2-SS-9.0 508363-08 1/10	0.11 j	7.4	4.3	12	1,100	114
RE2-SW-9.0 508363-09 1/10	0.11 ј	0.75	2.3	1.3	240	102
RE2-SN-9.0 508363-10 1/10	<0.2	28	29	46	4,600	156

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15

Date Analyzed: 08/20/15, 08/21/15, 08/22/15 and 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
REST01-01 508363-11	< 0.02	< 0.02	0.056	0.091	43	100
REST01-02 508363-12	< 0.02	< 0.02	< 0.02	<0.06	34	102
REST01-03 508363-13	< 0.02	< 0.02	< 0.02	< 0.06	22	104
REST02-01 508363-14	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
REST02-02 508363-15	< 0.02	< 0.02	< 0.02	< 0.06	<2	105
REST02-03 508363-16	< 0.02	< 0.02	< 0.02	< 0.06	<2	105
REST03-01 508363-17	< 0.02	< 0.02	< 0.02	< 0.06	<2	103
REST03-02 508363-18	< 0.02	< 0.02	< 0.02	< 0.06	<2	102
REST03-03 508363-19	< 0.02	< 0.02	< 0.02	< 0.06	<2	104
REST04-01 508363-20	< 0.02	< 0.02	<0.02	< 0.06	<2	100

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15

Date Analyzed: 08/20/15, 08/21/15, 08/22/15 and 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

			Ethyl	Total	Gasoline	Surrogate
Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Benzene	Xylenes	Range	(% Recovery) (Limit 50-132)
REST04-02 508363-21	< 0.02	< 0.02	< 0.02	< 0.06	<2	101
REST04-03 508363-22	< 0.02	<0.02	< 0.02	< 0.06	<2	100
REST02-01-DUP 508363-23	<0.02	< 0.02	<0.02	< 0.06	<2	102
REST03-01-DUP 508363-24	<0.02	<0.02	<0.02	<0.06	<2	84
Method Blank 05-1636 MB2	<0.02	<0.02	<0.02	< 0.06	<2	86
Method Blank 05-1638 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	84

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15 Date Analyzed: 08/20/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE3-B-10.0 508363-01	< 50	<250	91
RE3-SE-9.0 508363-02	< 50	<250	100
RE3-SS-9.0 508363-03	< 50	<250	101
RE3-SW-9.0 508363-04	< 50	<250	91
RE3-SN-9.0 508363-05	570	<250	89
RE2-B-10.0 508363-06	< 50	<250	89
RE2-SE-10.0 508363-07	180	<250	89
RE2-SS-9.0 508363-08	1,800	<250	101
RE2-SW-9.0 508363-09	250	<250	92
RE2-SN-9.0 508363-10	1,100	<250	101
REST01-01 508363-11	560	<250	93
REST01-02 508363-12	1,200	310	94

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15 Date Analyzed: 08/20/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
REST01-03 508363-13	510	<250	94
REST02-01 508363-14	< 50	<250	101
REST02-02 508363-15	< 50	<250	98
REST02-03 508363-16	< 50	<250	97
REST03-01 508363-17	< 50	<250	92
REST03-02 508363-18	< 50	<250	89
REST03-03 508363-19	< 50	<250	95
REST04-01 508363-20	< 50	<250	93
REST04-02 508363-21	< 50	<250	91
REST04-03 508363-22	< 50	<250	88
REST02-01-DUP 508363-23	< 50	<250	98

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

Date Extracted: 08/20/15 Date Analyzed: 08/20/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
REST03-01-DUP 508363-24	<50	<250	95
Method Blank 05-1715 MB	< 50	<250	93
Method Blank 05-1714 MB	< 50	<250	103

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508339-08 (Duplicate)

		Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	98	69-120
Toluene	mg/kg (ppm)	0.5	99	70-117
Ethylbenzene	mg/kg (ppm)	0.5	97	65-123
Xylenes	mg/kg (ppm)	1.5	96	66-120
Gasoline	mg/kg (ppm)	20	100	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508363-24 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	91	66-121		
Toluene	mg/kg (ppm)	0.5	95	72-128		
Ethylbenzene	mg/kg (ppm)	0.5	96	69-132		
Xylenes	mg/kg (ppm)	1.5	97	69-131		
Gasoline	mg/kg (ppm)	20	90	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508363-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	116	107	63-146	8

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	107	79-144

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/20/15

Project: Truck City 0714.03.01, F&BI 508363

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508363-21 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	106	117	63-146	10

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	115	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

508363

SAMPLE CHAIN OF CUSTODY \mathcal{ME}

Send Report To YEN-14 VAN City, State, ZIP SZANTE, WA 7810+ Address 411 FAST Ave S, Suite 610 Company MAN FOTER ALONGI

Phone # (253)320-5378 Fax #____

PROJECT NAME/NO. SAMPLERS (signature) TRUCK CITY / 0714.03.01

REMARKS

Rush charges authorized by Standard (2 Weeks) TURNAROUND TIME

PO#

SAMPLE DISPOSAL

Dispose after 30 days

□ Return samples

☐ Will call with instructions

Ph. (206) 285-8282	2029	7	Friedman & Bruya, Inc.	KEZ-5N-9D	REZ-SW- 9.0	162-55-9,0	Rod RE2-SE-10,0	REZ-B-10.0	RE3-SN-9.0	Re3-Sw-7.0	RE3-SS-9,0	KE3-SE-9,0	RE3-B-10.0	Sample ID	
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FORMS\COC\COC.DOC

Fax (206) 283-5044

Received by:

Samples received at

Ph. (206) 285-8282

Seattle, WA 98119-2029 3012 16th Avenue West 10-4015 5703-02 503-01 Fax (206) 283-5044 Ph. (206) 285-8282 Friedman & Bruya, Inc. 5102-02 5703-03 5702-63 ST02-01 5701-03 Phone # City, State, ZIP Address_ Company Send Report To YEN. VY VAN 508363 5701-02 201-01 11 ANDUS ALANG Sample ID Relinquished by; Relinquished by: Received by: Received by: B \approx *E1* 1 14 \overline{z} 15 Lab ID Fax # 8/20/15 Date Sampled SIGNATURE Time Sampled 1225 942 1215 1200 1050 1120 1145 1130 B 1040 SAMPLE CHAIN OF CUSTODY Sample Type | containers 5012 & RUSH TAT FOR ALL STECKPIEL (ST REMARKS PROJECT NAME/NO. SAMPLERS (signature) TENCK CITY /0714,03.01 AMM Wobber Bry. From Latte 5 # of PRINT NAME <u>×</u> × × メ メ × <u>×</u> TPH-Diesel <u>ァ</u>シマ 文文 入 × メ TPH-Gasoline ANALYSES REQUESTED SVOCs by 8270 **HFS** PO# 2 COMPANY Samples received at 5 ☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions RUSH_ ☐ Standard (2 Weeks) Rush charges authorized by TURNAROUND TIME SAMPLE DISPOSAL 8/2/15 DATE Notes TIME

FORMS\COC\COC.DOC

R FORMS\COC\COC.DOC Seattle, WA 98119-2029 Fax (206) 283-5044 Ph. (206) 285-8282 508363 3012 16th Avenue West Friedman & Bruya, Inc. Phone # City, State, ZIP Address_ Company _ Sena Keport To 5104-02 And-10-8005 ST04-03 ST62 -01-0W Sample ID YEN-VY VAN Relinquished by: Received by: Receivedby Relinquished by: 226 12 P 3 23 H Lab ID Fax # Date Sampled Bluds Time Sampled 1135 1205 1230 IB SAMPLE CHAIN OF CUSTODY Sample Type 2016 REMARKS PROJECT NAME/NO. SAMPLERS (signature) No RUSH FOR THE 2 TRUW CITY Ann Webber Bruga containers ANDEW LAPARON 4 # of PRINT NAME X X TPH-Diesel X R × TPH-Gasoline ス ANALYSES REQUESTED SVOCs by 8270 - DUP SAMPLE **HFS** ME 08/201 PO# MER Samples received at COMPANY ☐ Return samples
☐ Will call with instructions ☐ Standard (2 Weeks)
ZRUSH ☐ Dispose after 30 days Rush charges authorized by TURNAROUND TIME SAMPLE DISPOSAL 2/02/18 DATE *YELEAD NOT RUSH NOT RUSH Notes 1240 TIME 3

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

August 27, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 21, 2015 from the Truck City 0714.03.01, F&BI 508394 project. There are 18 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0827R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 21, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508394 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508394 -01	PL-UST-650
508394 -02	BT-Post-2
508394 -03	RE ST05-01
508394 -04	RE ST05-02
508394 -05	RE ST05-03

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Date Analyzed: 08/21/15

RESULTS FROM THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

Sample ID Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery) (Limit 48-168)
PL-UST-650 508394-01 1/200	ND	ND	D	102
Method Blank 05-1717 MB	ND	ND	ND	93

ND - Material not detected at or above 4,000 mg/kg gas, 10,000 mg/kg diesel and 50,000 mg/kg heavy oil.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Date Analyzed: 08/22/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE ST05-01 508394-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	97
RE ST05-02 508394-04	< 0.02	< 0.02	< 0.02	<0.06	<2	95
RE ST05-03 508394-05	< 0.02	< 0.02	<0.02	<0.06	<2	90
Method Blank 05-1640 MB	< 0.02	< 0.02	<0.02	< 0.06	<2	105

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Date Analyzed: 08/21/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-Post-2 508394-02	<1	<1	<1	<3	<100	96
Method Blank 05-1639 MB	<1	<1	<1	<3	<100	99

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Date Analyzed: 08/21/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE ST05-01 508394-03	<50	<250	97
RE ST05-02 508394-04	<50	<250	91
RE ST05-03 508394-05	<50	<250	99
Method Blank 05-1718 MB	<50	<250	92

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/24/15 Date Analyzed: 08/24/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 51-134)
BT-Post-2 508394-02	< 50	<250	85
Method Blank 05-1723 MB	<50	<250	87

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: PL-UST-650 Client: Maul Foster Alongi

Date Received: 08/21/15 Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Lab ID: 508394-01 1/2000

Date Analyzed: 08/22/15 Data File: 082143.D Matrix: Soil/Product Instrument: GCMS9

Units: mg/kg (ppm) Dry Weight Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	99	89	113
Toluene-d8	99	64	137
4-Bromofluorobenzene	100	81	119

Concentration

Compounds: mg/kg (ppm)

Vinyl chloride <100 Chloroethane <1,000 1,1-Dichloroethene <100 Methylene chloride <1,000 trans-1,2-Dichloroethene <100 1.1-Dichloroethane <100 cis-1,2-Dichloroethene <100 1,2-Dichloroethane (EDC) <100 1,1,1-Trichloroethane <100 Trichloroethene <40 Tetrachloroethene < 50

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Truck City 0714.03.01, F&BI 508394

Date Extracted:08/21/15Lab ID:05-1686 mbDate Analyzed:08/21/15Data File:082117.DMatrix:Soil/ProductInstrument:GCMS9

Units: mg/kg (ppm) Dry Weight Operator: JS

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	102	89	113
Toluene-d8	99	64	137
4-Bromofluorobenzene	97	81	119

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	< 0.05
Chloroethane	< 0.5
1,1-Dichloroethene	< 0.05
Methylene chloride	< 0.5
trans-1,2-Dichloroethene	< 0.05
1,1-Dichloroethane	< 0.05
cis-1,2-Dichloroethene	< 0.05
1,2-Dichloroethane (EDC)	< 0.05
1,1,1-Trichloroethane	< 0.05
Trichloroethene	< 0.02
Tetrachloroethene	< 0.025

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	PL-UST-650	Client:	Maul Foster Alongi
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Date Received: 08/21/15 Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Lab ID: 508394-01

Date Analyzed: 08/21/15 Data File: 082121.D\ECD1A.CH

Matrix: Product Instrument: GC7 Units: mg/kg (ppm) Operator: VM

Surrogates: % Recovery: Limit: Limit: TCMX 91 37 158

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <2
Aroclor 1232 <2
Aroclor 1016 <2
Aroclor 1242 <2

Aroclor 1248 <2
Aroclor 1254 <2
Aroclor 1260 <2

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID: Method Blank Client: Maul Foster Alongi

Date Received: Not Applicable Project: Truck City 0714.03.01, F&BI 508394

Date Extracted: 08/21/15 Lab ID: 05-1720 mb

Date Analyzed: 08/21/15 Data File: 082119.D\ECD1A.CH

 $\begin{array}{cccc} \text{Matrix:} & \text{Product} & \text{Instrument:} & \text{GC7} \\ \text{Units:} & \text{mg/kg (ppm)} & \text{Operator:} & \text{VM} \end{array}$

Concentration
Compounds: mg/kg (ppm)

Aroclor 1221 <2
Aroclor 1232 <2
Aroclor 1016 <2

Aroclor 1242 <2
Aroclor 1248 <2
Aroclor 1254 <2
Aroclor 1260 <2

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508308-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	97	69-120
Toluene	mg/kg (ppm)	0.5	100	70-117
Ethylbenzene	mg/kg (ppm)	0.5	98	65-123
Xylenes	mg/kg (ppm)	1.5	98	66-120
Gasoline	mg/kg (ppm)	20	75	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508392-02 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	ug/L (ppb)	50	107	72-119		
Toluene	ug/L (ppb)	50	104	71-113		
Ethylbenzene	ug/L (ppb)	50	101	72-114		
Xylenes	ug/L (ppb)	150	89	72-113		
Gasoline	ug/L (ppb)	1,000	100	70-119		

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508389-03 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	57	108	102	64-133	6

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	mg/kg (ppm)	5,000	115	58-147	

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	90	100	58-134	11

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 508308-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	60	57	10-91	5
Chloroethane	mg/kg (ppm)	2.5	< 0.5	75	71	10-101	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	76	74	11-103	3
Methylene chloride	mg/kg (ppm)	2.5	< 0.5	91	86	14-128	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	86	83	13-112	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	89	85	23-115	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	90	85	25-120	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	87	85	22-124	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	88	84	27-112	5
Trichloroethene	mg/kg (ppm)	2.5	< 0.02	91	86	30-112	6
Tetrachloroethene	mg/kg (ppm)		< 0.025	88	83	25-114	6

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL/PRODUCT SAMPLES FOR VOLATILES BY EPA METHOD 8260C

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	69	42-107
Chloroethane	mg/kg (ppm)	2.5	80	47-115
1,1-Dichloroethene	mg/kg (ppm)	2.5	85	65-110
Methylene chloride	mg/kg (ppm)	2.5	94	50-127
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	71-113
1,1-Dichloroethane	mg/kg (ppm)	2.5	95	74-109
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	73-110
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	91	73-111
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	94	72-116
Trichloroethene	mg/kg (ppm)	2.5	93	72-107
Tetrachloroethene	mg/kg (ppm)	2.5	93	73-111

ENVIRONMENTAL CHEMISTS

Date of Report: 08/27/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508394

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF PRODUCT SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Aroclor 1016	mg/kg (ppm)	100	92	105	60-151	13
Aroclor 1260	mg/kg (ppm)	100	97	108	53-144	11

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

12-STOS-01 net 5705-03 Ph. (206) 285-8282 Seattle, WA 98119-2029 FORMS\COC\COC.DOC Fax (206) 283-5044 3012 16th Avenue West Friedman & Bruya, Inc. BT-POST-2 ST05-02 PL-UST-650 Phone # (253) 320-5378 Fax # Send Report to YEAR - VY VAN City, State, ZIP SEATURE, WA 98117 Address 411 1 ST AVB S, Swot 610 Company May Fosger ALONG Sample ID Received by: Received by: Relinquished by: Relinquished by: 62AF 10 2 ID Lab Date Sampled 8/21/5 0730 Sampled 1055 0180 1050 645 Time SAMPLE CHAIN OF CUSTODY Sample Type SOIL SARK 2/2 REMARKS SAMPLERS (signature) PROJECT NAME/NO TRUCK CITY / 0714.03.01 Ann Webberr Bruge toby reson containers Ŋ Ŋ S PRINT NAME X <u>×</u>× × X ×× × 叉 TPH-Diesel ×× $\overline{\times}$ TPH-Gasoline BTEX by 8021B VOCs by8260 ANALYSES SVOCs by 8270 ME 08-21-15 又 REQUESTED 7 7 COMPANY Samples received at X RUSH authorized by ☐ Will call with instructions ☐ Standard (2 Weeks) ☐ Return samples ☐ Dispose after 30 days Page # TURNAROUND TIME SAMPLE DISPOSAL DATE ۶ P (1railed -560 on **Notes** Block A 包 TIME ष्ठ

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 4, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included is the amended report from the testing of material submitted on August 21, 2015 from Truck City 0714.03.01, F&BI 508400 project. The sample IDs have been corrected.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 1, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 21, 2015 from Truck City 0714.03.01, F&BI 508400 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 21, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508400 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi

508400 -01 RE1-SW2-9.5 508400 -02 RE1-SW3-9.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508400

Date Extracted: 08/24/15 Date Analyzed: 08/24/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE1-SW2-9.5 508400-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	103
RE1-SW3-9.5	< 0.02	<0.02	< 0.02	<0.06	<2	102
Method Blank 05-1643 MB	< 0.02	<0.02	< 0.02	<0.06	<2	106

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508400

Date Extracted: 08/21/15 Date Analyzed: 08/21/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE1-SW2-9.5 508400-01	< 50	<250	101
RE1-SW3-9.5 508400-02	< 50	<250	106
Method Blank 05-1719 MB	<50	<250	103

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508400

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508400-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	82	69-120
Toluene	mg/kg (ppm)	0.5	83	70-117
Ethylbenzene	mg/kg (ppm)	0.5	81	65-123
Xylenes	mg/kg (ppm)	1.5	82	66-120
Gasoline	mg/kg (ppm)	20	85	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/21/15

Project: Truck City 0714.03.01, F&BI 508400

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508388-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	115	119	73-135	3

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	mg/kg (ppm)	5,000	115	74-139	

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. KEI-SW2-95 Phone # (253) 320-5378 Fax # City, State, ZIP SEATLE, WA 98104 Address 411 FAST AVE \$ 5, Sume 610 Company MAYL FOSTER ALONGI Send Report To You-by Van KE1-SU3-9.5 Do 7 805 Sample ID Received by: Relinquished by: Received by: Relinquished by: 02 T OIAF 8/21/15 1335 Lab ID Date Time
Sampled Sampled SIGNATURE 1345 Sample Type SAMPLE CHAIN OF CUSTODY $\mathcal{M} \in \mathcal{O}$ \mathcal{S} - \mathcal{D} /- \mathcal{O} 2012 SAMPLERS (signature) PROJECT NAME/NO. REMARKS TRUCK CITY / 0714,03,01 APPLAS TRACES containers 7 # of PRINT NAME 8 TPH-Diesel TPH-Gasoline BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 **HFS** P0# 282 COMPANY RUSH authorized by ☐ Return samples ☐ Dispose after 30 days ☐ Will call with instructions Te photoser TURNAROUND TIME SAMPLE DISPOSAL Notes

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 4, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included is the amended report from the testing of material submitted on August 24, 2015 from the Truck City 0714.03.01, F&BI 508421 project. The sample IDs have been corrected.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 1, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on August 24, 2015 from the Truck City 0714.03.01, F&BI 508421 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Justin Clary MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 24, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508421 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
508421 -01	RE1-SE2-9.0
508421 -02	FTS-S-SW1-6
508421 -03	FTS-S-SW2-5
508421 -04	FTS-S-SS-5
508421 -05	FTS-S-BN-6
508421 -06	FTS-S-BS-5
508421 -07	FTS-S-SE1-5
508421 -08	RE1-SE3-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/24/15

Project: Truck City 0714.03.01, F&BI 508421

Date Extracted: 08/24/15 Date Analyzed: 08/25/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE1-SE2-9.0 508421-01	< 0.02	0.029	< 0.02	< 0.06	8.3	94
FTS-S-SW1-6 508421-02	< 0.02	< 0.02	< 0.02	< 0.06	3.0	85
FTS-S-SW2-5 508421-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	93
FTS-S-SS-5 508421-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	92
FTS-S-BN-6 508421-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	94
FTS-S-BS-5 508421-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	92
FTS-S-SE1-5 508421-07	< 0.02	< 0.02	< 0.02	< 0.06	<2	94
RE1-SE3-10.0 508421-08	<0.02	< 0.02	<0.02	< 0.06	<2	93
Method Blank 05-1644 MB	<0.02	< 0.02	< 0.02	< 0.06	<2	92

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/24/15

Project: Truck City 0714.03.01, F&BI 508421

Date Extracted: 08/25/15 Date Analyzed: 08/25/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE1-SE2-9.0 508421-01	< 50	<250	123
FTS-S-SW1-6 508421-02	< 50	<250	124
FTS-S-SW2-5 508421-03	< 50	<250	116
FTS-S-SS-5 508421-04	< 50	<250	112
FTS-S-BN-6 508421-05	< 50	<250	120
FTS-S-BS-5 508421-06	< 50	<250	117
FTS-S-SE1-5 508421-07	< 50	<250	126
RE1-SE3-10.0 508421-08	<50	<250	124
Method Blank 05-1733 MB	< 50	<250	118

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/24/15

Project: Truck City 0714.03.01, F&BI 508421

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508421-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	88	66-121
Toluene	mg/kg (ppm)	0.5	88	72-128
Ethylbenzene	mg/kg (ppm)	0.5	89	69-132
Xylenes	mg/kg (ppm)	1.5	89	69-131
Gasoline	mg/kg (ppm)	20	85	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/24/15

Project: Truck City 0714.03.01, F&BI 508421

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508421-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	118	109	64-133	8

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	107	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

SAMP

Phone # (253)320-5378 Fax # City, State, ZIP SHATLE, WA 18104 Address 411 Franks S., Suite 60 Company MAKIL FOSTER ALONGI Sena Report To YEN-VY VAN

REMARKS

	Tance City / 0714,03.01
PO#	PROJECT NAME/NO.
ξ	SAMPLERS (signature)

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08/20115 803 Page #_ TURNAROUND TIME of |

☐ Dispose after 30 days Rush charges authorized by Standard (2 Weeks) SAMPLE DISPOSAL

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ANALYSES REQUESTED	•	
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 1, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on August 25, 2015 from the Truck City 0714.03.01, F&BI 508449 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen-Vy Van MFA0901R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 25, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508449 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508449 -01	RE-ST06-1
508449 -02	RE-ST06-2
508449 -03	RE-ST06-3
508449 -04	RE3-SN2-9.0
508449 -05	BT-POST-3

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

Date Extracted: 08/25/15 Date Analyzed: 08/26/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE-ST06-1 508449-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	82
RE-ST06-2 508449-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	82
RE-ST06-3 508449-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	74
RE3-SN2-9.0 508449-04	0.044	0.11	0.40	0.72	10	84
Method Blank 05-1646 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	96

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

Date Extracted: 08/26/15 Date Analyzed: 08/26/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
BT-POST-3 508449-05	<1	<1	<1	<3	<100	85
Method Blank 05-1648 MB	<1	<1	<1	<3	<100	95

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

Date Extracted: 08/26/15 Date Analyzed: 08/26/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
BT-POST-3 508449-05	< 50	<250	94
Method Blank 05-1738 MB	<50	<250	99

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

Date Extracted: 08/25/15 Date Analyzed: 08/25/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE-ST06-1 508449-01	< 50	<250	99
RE-ST06-2 508449-02	< 50	<250	104
RE-ST06-3 508449-03	< 50	<250	100
RE3-SN2-9.0 508449-04	<50	<250	93
Method Blank 05-1736 MB	<50	<250	96

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508425-11 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	66-121
Toluene	mg/kg (ppm)	0.5	94	72-128
Ethylbenzene	mg/kg (ppm)	0.5	96	69-132
Xylenes	mg/kg (ppm)	1.5	96	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508449-05 (Duplicate)

v	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	101	65-118
Toluene	ug/L (ppb)	50	100	72-122
Ethylbenzene	ug/L (ppb)	50	101	73-126
Xylenes	ug/L (ppb)	150	101	74-118
Gasoline	ug/L (ppb)	1,000	86	69-134

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	114	116	63-142	2

ENVIRONMENTAL CHEMISTS

Date of Report: 09/01/15 Date Received: 08/25/15

Project: Truck City 0714.03.01, F&BI 508449

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508430-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5.000	10.000	128 b	227 b	63-146	56 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report To UUSTIN CLARY

Company MAYL FOSTER ALONG! Address 1329 N. STATE ST. SUITE 301

Phone # (360) 601-4647 Fax #_ City, State, ZIP BELLINGHAM, WA 98225

	SAMPLE CHAIN OF CUSTODY
	MIT
	8725/
	SP
\	76

SAMPLERS (signature)
PROJECT NAME/NO. TRUCK CTY /0714.03.01 PO#

REMARKS

TURNAROUND TIME

Standard (2 Weeks) Rush charges authorized by

☐ Dispose after 30 days SAMPLE DISPOSAL

☐ Will call with instructions ☐ Return samples

FORMS\COC\COC.DOC

Fax (206) 283-5044

Received by:

Ph. (206) 285-8282

Seattle, WA 98119-2029

Received by:

Relinquished,

Relinquished by:

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ANDROW KAPAGES

Flizabeth Webber - Bruc

5/25/15/15:00

2/22/8

3012 16th Avenue West

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 3, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on August 26, 2015 from the Truck City PO 0714.03.01, F&BI 508469 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen Vy-Van MFA0903R.DOC

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 26, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City PO 0714.03.01, F&BI 508469 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
508469 -01	FTS-N-SW-9.0
508469 -02	FTS-N-SN-9.0
508469 -03	FTS-N-B-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/26/15

Project: Truck City, F&BI 508469

Date Extracted: 08/26/15 Date Analyzed: 08/26/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
FTS-N-SW-9.0 508469-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	95
FTS-N-SN-9.0 508469-02	<0.02	< 0.02	< 0.02	< 0.06	<2	95
FTS-N-B-10.0 508469-03	< 0.02	< 0.02	<0.02	< 0.06	<2	94
Method Blank	< 0.02	< 0.02	< 0.02	< 0.06	<2	95

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/26/15

Project: Truck City, F&BI 508469

Date Extracted: 08/26/15 Date Analyzed: 08/26/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
FTS-N-SW-9.0 508469-01	< 50	<250	110
FTS-N-SN-9.0 508469-02	< 50	<250	113
FTS-N-B-10.0 508469-03	< 50	<250	107
Method Blank 05-1739 MB	< 50	<250	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/26/15

Project: Truck City, F&BI 508469

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508469-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	82	66-121
Toluene	mg/kg (ppm)	0.5	85	72-128
Ethylbenzene	mg/kg (ppm)	0.5	86	69-132
Xylenes	mg/kg (ppm)	1.5	87	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/26/15

Project: Truck City, F&BI 508469

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508459-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	110	119	64-133	8

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	124	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FORMS\COC\COC.DOC 3012 16th Avenue West Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 Friedman & Bruya, Inc. FTS-N-B-10.0193 FTS-N-SW-9.0 FTS-N-SN-9.0 City, State, ZIP Bellingham, WA 9822 SREMARKS Phone # 360594 6260 Fax # Address 1329 N. State St. Str. 30 Company Ward Frater Send Report To Custin Sample ID 508469 Received by/ Relinquished by: Received by: Relinquished by: 03 T 726/15-1000 01A-68/26/15/945 H & Sampled Date Along Sampled 1100 Time Sample Type | containers SAMPLE CHAIN OF CUSTODY **(**) 10 **(**) PROJECT NAME/NO. SAMPLERS (signature) Truck (it, Any Wilker # of 5 PRINT NAME TPH-Diesel TPH-Gasoline VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 **HFS** ではいまれの 0714.03.01 HE 08-26-15 COMPANY Samples received at ☐ Return samples
☐ Will call with instructions ☐ Dispose after 30 days Rush charges authorized by Standard (2 Weeks) TURNAROUND TIME SAMPLE DISPOSAL 9/26/15 871618 * 60 A 8830 **Notes** のから TIME ဂိ

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 3, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on August 27, 2015 from the Truck City 0714.03.01, F&BI 508504 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0903R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 27, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508504 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u> Maul Foster Alongi</u>
508504 -01	RE1-SN2-9.0
508504 -02	RE-ST07-1
508504 -03	RE-ST07-2
508504 -04	RE-ST07-3
508504 -05	RE1-SS2-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/27/15

Project: Truck City 0714.03.01, F&BI 508504

Date Extracted: 08/27/15

Date Analyzed: 08/27/15 and 08/28/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE1-SN2-9.0 508504-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	94
RE-ST07-1 508504-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	96
RE-ST07-2 508504-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	95
RE-ST07-3 508504-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	95
RE1-SS2-10.0 508504-05	<0.02	<0.02	<0.02	<0.06	<2	95
Method Blank 05-1745 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	93

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/27/15

Project: Truck City 0714.03.01, F&BI 508504

Date Extracted: 08/27/15 Date Analyzed: 08/27/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE1-SN2-9.0 508504-01	< 50	<250	106
RE-ST07-1 508504-02	< 50	<250	106
RE-ST07-2 508504-03	< 50	<250	103
RE-ST07-3 508504-04	< 50	<250	109
RE1-SS2-10.0 508504-05	< 50	<250	115
Method Blank 05-1761 MB	< 50	<250	118

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/27/15

Project: Truck City 0714.03.01, F&BI 508504

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508504-01 (Duplicate)

•	Reporting	Sample Result	Duplicate Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	86	66-121
Toluene	mg/kg (ppm)	0.5	86	72-128
Ethylbenzene	mg/kg (ppm)	0.5	87	69-132
Xylenes	mg/kg (ppm)	1.5	88	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/27/15

Project: Truck City 0714.03.01, F&BI 508504

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508477-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	115	115	64-133	0

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	120	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Notes

| 유 |

B01/18

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TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 3, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on August 28, 2015 from the Truck City 0714.03.01, F&BI 508533 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen-Vy Van MFA0903R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 28, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508533 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
508533 -01	RE1-SS3-10.0
508533 -02	RE2-B2-10.0
508533 -03	RE2-B3-10.0
508533 -04	BT-POST-4

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

Date Extracted: 08/28/15 Date Analyzed: 08/29/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-POST-4 508533-04	<1	<1	<1	<3	<100	91
Method Blank 05-1746 MB	<1	<1	<1	<3	<100	91

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

Date Extracted: 08/28/15 Date Analyzed: 08/29/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE1-SS3-10.0 508533-01	< 0.02	< 0.02	< 0.02	<0.06	<2	91
RE2-B2-10.0 508533-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE2-B3-10.0 508533-03	<0.02	< 0.02	<0.02	<0.06	<2	91
Method Blank 05-1747 MB	<0.02	< 0.02	<0.02	<0.06	<2	82

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

Date Extracted: 08/28/15 Date Analyzed: 08/28/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 51-134)
BT-POST-4 508533-04	<50	<250	83
Method Blank 05-1765 MB	<50	<250	95

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

Date Extracted: 08/28/15 Date Analyzed: 08/28/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE1-SS3-10.0 508533-01	< 50	<250	84
RE2-B2-10.0 508533-02	< 50	<250	94
RE2-B3-10.0 508533-03	<50	<250	95
Method Blank 05-1781 MB	<50	<250	109

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508485-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	95	65-118
Toluene	ug/L (ppb)	50	94	72-122
Ethylbenzene	ug/L (ppb)	50	96	73-126
Xylenes	ug/L (ppb)	150	94	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508533-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	86	66-121
Toluene	mg/kg (ppm)	0.5	88	72-128
Ethylbenzene	mg/kg (ppm)	0.5	87	69-132
Xylenes	mg/kg (ppm)	1.5	90	69-131
Gasoline	mg/kg (ppm)	20	85	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	107	116	58-134	8

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/28/15

Project: Truck City 0714.03.01, F&BI 508533

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508507-03 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	109	109	63-146	0

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	124	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report To Justin Claus City, State, ZIP Bellingham, WA 7823 Company Maul Foster Mongi REJ-553-10.0 OIN-E 827/5 1440 Address | 329 N. State St. Str. 301 RE2-82-10.0 by Phone #3605946260 Fax # RE2-83-10.0 03 Friedman & Bruya, Inc. Sample ID 3-5044 8119-2029 enue West -8282 SIGNATURE)
Relinquished by: Received by: Received by: Relinquished by: 6 ID & 8/28/15 8/28/15 12/5 NSO Sampled Date Sampled ロエロ 130 Time SAMPLE CHAIN OF CUSTODY Sample Type **TREMARKS** 3 Truck City PROJECT NAME/NO SAMPLERS (signature Ŵ containers Elizabeth arolyn # of (1) PRINT NAME TPH-Diesel Webbur - Brya TPH-Gasoline 10714-03-01 BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 **HFS** ME 08-28-15 F?B1 COMPANY Samples received at. Standard (2 Weeks) ☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions Rush charges authorized by TURNAROUND TIME Page # SAMPLE DISPOSAL 325 DATE 802 Notes 1344 1344 TIME

2

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 3, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on August 31, 2015 from the Truck City 0714.03.01, F&BI 508558 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen-Vy Van MFA0903R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 31, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 508558 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
508558 -01	RE-ST08-1
508558 -02	RE2-SS2-8-0
508558 -03	RE-ST08-2
508558 -04	RE-ST08-3
508558 -05	RE2-SS3-9.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/31/15

Project: Truck City 0714.03.01, F&BI 508558

Date Extracted: 08/31/15 Date Analyzed: 08/31/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE-ST08-1 508558-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE2-SS2-8-0 508558-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	88
RE-ST08-2 508558-03	< 0.02	< 0.02	< 0.02	<0.06	<2	90
RE-ST08-3 508558-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	89
RE2-SS3-9.0 508558-05	<0.02	< 0.02	<0.02	<0.06	<2	92
Method Blank 05-1749 MB	< 0.02	< 0.02	<0.02	< 0.06	<2	91

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/31/15

Project: Truck City 0714.03.01, F&BI 508558

Date Extracted: 08/31/15 Date Analyzed: 08/31/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE-ST08-1 508558-01	< 50	<250	109
RE2-SS2-8-0 508558-02	< 50	<250	107
RE-ST08-2 508558-03	< 50	<250	98
RE-ST08-3 508558-04	< 50	<250	98
RE2-SS3-9.0 508558-05	<50	<250	103
Method Blank 05-1791 MB	< 50	<250	98

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/31/15

Project: Truck City 0714.03.01, F&BI 508558

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 508558-01 (Duplicate)

	_	Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent					
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Benzene	mg/kg (ppm)	0.5	82	66-121			
Toluene	mg/kg (ppm)	0.5	85	72-128			
Ethylbenzene	mg/kg (ppm)	0.5	86	69-132			
Xylenes	mg/kg (ppm)	1.5	87	69-131			
Gasoline	mg/kg (ppm)	20	90	61-153			

ENVIRONMENTAL CHEMISTS

Date of Report: 09/03/15 Date Received: 08/31/15

Project: Truck City 0714.03.01, F&BI 508558

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 508557-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	1,300	116	120	64-133	3

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	124	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ${\it ca}$ The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FORMS\COC\COC.DOC Fax (206) 283-5044 Seattle, WA 98119-2029 3012 16th Avenue West RE2-SS2-8-0 City, State, ZIP Bellingham, WA 9829 REMARKS company Marcal Froster Albrigi Ph. (206) 285-8282 Friedman & Bruya, Inc. REZ-SS3-9, O RE-8708-3 ZE-STD8-2 RE-STO8-1 Phone # 360594 6260Fax # Address 1329 N. Statz St. Str. 301 Truck City/0714. 03.01 Send Report To WWHA Sample ID 508558 Received by: Received by: Relinquished by: Relinquished by 5 130 01 AF \$31/15 Hab U Date Sampled SIGNATURE 275 Signal Signal Sampled 930 03 いな Time Sample Type | containers SAMPLE CHAIN OF CUSTODY PROJECT NAME/NO. SAMPLERS (signature) O # of 5 PRINT NAME TPH-Diesel TPH-Gasoline ANALYSES REQUESTED SVOCs by 8270 HFS ME 08-31-15 COMPANY Samples ☐ Return samples
☐ Will call with instructions ☐ Dispose after 30 days Rush charges authorized by ☐ Standard (2 Weeks) received at Page # TURNAROUND TIME SAMPLE DISPOSAL 21/5kg Notes 1322 'ဂံ TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 10, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on September 2, 2015 from the Truck City 0714.03.01-03, F&BI 509054 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen Vy-Van MFA0910R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01-03, F&BI 509054 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
509054 -01	RE2-SN2-10.0
509054 -02	RE2-SN3-10.0
509054 -03	BT-POST-5
509054 -04	RE2-SN4-10.0
509054 -05	RE2-SS4-10.0
509054 -06	RE-ST09-1
509054 -07	RE-ST09-2
509054 -08	RE-ST09-3
509054 -09	RE2-SS5-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

Date Extracted: 09/02/15 Date Analyzed: 09/02/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-POST-5 509054-03	<1	<1	<1	<3	<100	95
Method Blank 05-1751 MB	<1	<1	<1	<3	<100	95

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

Date Extracted: 09/02/15 Date Analyzed: 09/03/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE2-SN2-10.0 509054-01	< 0.02	0.36	0.46	0.42	51	97
RE2-SN3-10.0 509054-02	< 0.02	0.38	0.23	0.34	71	102
RE2-SN4-10.0 509054-04	< 0.02	0.51	0.65	0.33	91	100
RE2-SS4-10.0 509054-05	< 0.02	0.062	0.090	0.10	53	93
RE-ST09-1 509054-06	< 0.02	< 0.02	< 0.02	< 0.06	6.5	92
RE-ST09-2 509054-07	< 0.02	< 0.02	< 0.02	< 0.06	2.2	92
RE-ST09-3 509054-08	< 0.02	< 0.02	< 0.02	< 0.06	<2	92
RE2-SS5-10.0 509054-09	<0.02	<0.02	<0.02	<0.06	<2	91
Method Blank 05-1754 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	93

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

Date Extracted: 09/03/15 Date Analyzed: 09/03/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
BT-POST-5 509054-03	<50	<250	82
Method Blank 05-1801 MB	< 50	<250	81

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

Date Extracted: 09/03/15 Date Analyzed: 09/03/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE2-SN2-10.0 509054-01	300	<250	102
RE2-SN3-10.0 509054-02	100	<250	95
RE2-SN4-10.0 509054-04	330	<250	98
RE2-SS4-10.0 509054-05	130	<250	91
RE-ST09-1 509054-06	< 50	<250	101
RE-ST09-2 509054-07	< 50	<250	90
RE-ST09-3 509054-08	< 50	<250	89
RE2-SS5-10.0 509054-09	<50	<250	94
Method Blank 05-1805 MB	< 50	<250	101

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509019-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

		Percent					
	Reporting	Spike	Recovery	Acceptance			
Analyte	Units	Level	LCS	Criteria			
Benzene	ug/L (ppb)	50	95	65-118			
Toluene	ug/L (ppb)	50	95	72-122			
Ethylbenzene	ug/L (ppb)	50	97	73-126			
Xylenes	ug/L (ppb)	150	96	74-118			
Gasoline	ug/L (ppb)	1,000	96	69-134			

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509054-01 (Duplicate)

·	Reporting	Sample Result	Duplicate Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	0.18	0.28	44 hr
Ethylbenzene	mg/kg (ppm)	0.23	0.33	36 hr
Xylenes	mg/kg (ppm)	0.21	0.35	50 hr
Gasoline	mg/kg (ppm)	26	44	51 hr

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	81	66-121
Toluene	mg/kg (ppm)	0.5	80	72-128
Ethylbenzene	mg/kg (ppm)	0.5	81	69-132
Xylenes	mg/kg (ppm)	1.5	80	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	102	101	63-142	1

ENVIRONMENTAL CHEMISTS

Date of Report: 09/10/15 Date Received: 09/02/15

Project: Truck City 0714.03.01-03, F&BI 509054

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509054-07 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	104	101	63-146	3

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	94	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ${\it ca}$ The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

ME 09/02/15

City, State, ZIP Bellingham, WA 98229 REMARKS Send Report To Justin Clary, Company Moul Foster Alongi Phone #360574626D Fax #_ Address 1329 W. State St. Ste 301

Truck Cty 10714.03.01-03 SAMPLERS (signature) PROJECT NAME/NO. PO#

Standard (2 Weeks) Page #_ TURNAROUND TIME

☐ Dispose after 30 days SAMPLE DISPOSAL Rush charges authorized by

☐ Return samples

☐ Will call with instructions

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	RE2-55-10.0	RE-ST09-3	RE-5709-2	RE-ST09-1	REZ-884-10.0	REZ-SN4-10.0	BT- POST- 5	REZ-SN3-10.0	RE2-SN2-10.0	Sample ID	
	091	80	to	90	50	8	63	2	07	Lab ID	
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Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Fax (206) 283-5044 Ph. (206) 285-8282

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Received by: Relinquished by: Received by: Relinquished by: Unan PRINT NAME

CARRO COMPANY Samples received at DATE

1630

1630 TIME

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 9, 2015

Justin Clary, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Mr. Clary:

Included are the results from the testing of material submitted on September 3, 2015 from the Truck City 0714.03.01, F&BI 509081 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures c: Yen Vy-Van MFA0909R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 3, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509081 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u> Maul Foster Alongi</u>
509081 -01	RE-ST10-1
509081 -02	RE-ST10-2
509081 -03	RE-ST10-3

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/15 Date Received: 09/03/15

Project: Truck City 0714.03.01, F&BI 509081

Date Extracted: 09/04/15 Date Analyzed: 09/04/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE-ST10-1 509081-01	<0.02	<0.02	< 0.02	< 0.06	<2	102
RE-ST10-2 509081-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	102
RE-ST10-3 509081-03	< 0.02	<0.02	< 0.02	< 0.06	<2	102
Method Blank 05-1756 MB2	<0.02	<0.02	< 0.02	< 0.06	<2	98

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/15 Date Received: 09/03/15

Project: Truck City 0714.03.01, F&BI 509081

Date Extracted: 09/04/15 Date Analyzed: 09/04/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE-ST10-1 509081-01	<50	<250	88
RE-ST10-2 509081-02	<50	<250	83
RE-ST10-3 509081-03	<50	<250	89
Method Blank	<50	<250	80

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/15 Date Received: 09/03/15

Project: Truck City 0714.03.01, F&BI 509081

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509080-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	92	66-121		
Toluene	mg/kg (ppm)	0.5	90	72-128		
Ethylbenzene	mg/kg (ppm)	0.5	92	69-132		
Xylenes	mg/kg (ppm)	1.5	93	69-131		
Gasoline	mg/kg (ppm)	20	90	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/15 Date Received: 09/03/15

Project: Truck City 0714.03.01, F&BI 509081

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509081-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	105	103	73-135	2

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	mg/kg (ppm)	5,000	101	74-139	_

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

るとアロー #-ST 10-2 18-ST10-3 Ph. (206) 285-8282 Seattle, WA 98119-2029 Fax (206) 283-5044 3012 16th Avenue West Friedman & Bruya, Inc. Phone # /360)601-4547 Fax # City, State, ZIP BELLINGHAM, WIT 18 Address 1329 N. STATE ST., SWITE Company MARIL FESTER ALONG Send Report To Justin Curry Sample ID 50908/ Received by: Received by: Relinquished by: Relinquished by: 420 0(A# 9/3/15 Lab TD Sampled Date 10755 Sampled 0750 0800 Time 301 SAMPLE CHAIN OF CUSTODY Sample Type 2011 SAMPLERS (signature) / Low PROJECT NAME/NO. REMARKS TRUCK CITY/0714.03.01 Twolan containers # of S PRINT NAME × メ TPH-Diesel KAPAROS × く TPH-Gasoline BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 HFS PO# COMPANY Samples received at _____ Standard (2 Weeks)

RUSH

Rush charges authorized by ☐ Will call with instructions □ Return samples ☐ Dispose after 30 days Page # TURNAROUND TIME SAMPLE DISPOSAL Notes TIME 630

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 15, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 4, 2015 from the Truck City 0714.03.01, F&BI 509116 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0915R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 4, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509116 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
509116 -01	RE2-SS6-9.0
509116 -02	RE2-B4-10.0
509116 -03	RE2-SN5-9.0
509116 -04	RE2-B5-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/04/15

Project: Truck City 0714.03.01, F&BI 509116

Date Extracted: 09/08/15 Date Analyzed: 09/08/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE2-SS6-9.0 509116-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	96
RE2-B4-10.0 509116-02	< 0.02	< 0.02	< 0.02	<0.06	<2	94
RE2-SN5-9.0 509116-03	< 0.02	< 0.02	< 0.02	<0.06	<2	96
RE2-B5-10.0 509116-04	<0.02	<0.02	<0.02	<0.06	<2	94
Method Blank 05-1821 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	92

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/04/15

Project: Truck City 0714.03.01, F&BI 509116

Date Extracted: 09/08/15 Date Analyzed: 09/08/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE2-SS6-9.0 509116-01	<50	<250	87
RE2-B4-10.0 509116-02	< 50	<250	87
RE2-SN5-9.0 509116-03	< 50	<250	84
RE2-B5-10.0 509116-04	<50	<250	89
Method Blank	<50	<250	90

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/04/15

Project: Truck City 0714.03.01, F&BI 509116

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509116-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

		Percent				
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria		
Benzene	mg/kg (ppm)	0.5	93	66-121		
Toluene	mg/kg (ppm)	0.5	94	72-128		
Ethylbenzene	mg/kg (ppm)	0.5	98	69-132		
Xylenes	mg/kg (ppm)	1.5	98	69-131		
Gasoline	mg/kg (ppm)	20	95	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/04/15 Project: Truck City 0714.03.01, F&BI 509116

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509116-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	93	98	63-146	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	95	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

ME 09-04-15

Page #

Phone # (360) 601-4547- Fax # City, State, ZIP BELLINGHAM, WA 98229 Address 1329 N. STATE ST, SHITE 301 Company Many Foster ALONG Send Report To Justin Cupy

> SAMPLERS (signature) TRUCK CITY /6714.03.01 REMARKS PROJECT NAME/NO. PO#

RUSH_ ☐ Dispose after 30 days ☐ Will call with instructions ☐ Return samples ☐ Standard (2 Weeks) Rush charges authorized by **TURNAROUND TIME** SAMPLE DISPOSAL

Friedman & Bruya, Inc.							REZ-65-10.0	KEZ-SN5-9.0	REZ-84-10.0	RE2-556-9,0	Sample ID	
Relinanis							04	03	02	01 8%	Lab	
SIGNATURE							4		 '	01 K. 7 9/4/K	Date Sampled	
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							<			5011	Sample Type	
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TIME	بنف	ဂ ဂ					ATED S		HURAN		tes	

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Fax (206) 283-5044

Received by: Relinquished by

Ph. (206) 285-8282

Seattle, WA 98119-2029

3012 16th Avenue West

Relinquished by

ANDRY CERCO

21/4/15 DATE

1625 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 15, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 9, 2015 from the Truck City 0714.03.01, F&BI 509148 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0915R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 9, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509148 project. Samples were logged in under the laboratory ID's listed below.

Maul Foster Alongi
RE-ST11-1
RE-ST11-2
RE-ST11-3
RE-ST11-4
BT-POST-6

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

Date Extracted: 09/09/15

Date Analyzed: 09/09/15 and 09/10/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE-ST11-1 509148-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	97
RE-ST11-2 509148-02	< 0.02	< 0.02	< 0.02	<0.06	<2	93
RE-ST11-3 509148-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	93
RE-ST11-4 509148-04	<0.02	< 0.02	<0.02	< 0.06	<2	94
Method Blank 05-1824 MB	<0.02	< 0.02	<0.02	< 0.06	<2	95

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

Date Extracted: 09/09/15 Date Analyzed: 09/09/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-POST-6 509148-05	<1	<1	<1	<3	<100	95
Method Blank 05-1822 MB2	<1	<1	<1	<3	<100	98

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

Date Extracted: 09/09/15 Date Analyzed: 09/10/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 47-140)	
BT-POST-6 509148-05	<50	<250	113	
Method Blank 05-1832 MB2	<50	<250	101	

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

Date Extracted: 09/09/15 Date Analyzed: 09/09/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE-ST11-1 509148-01	< 50	<250	133
RE-ST11-2 509148-02	< 50	<250	107
RE-ST11-3 509148-03	< 50	<250	127
RE-ST11-4 509148-04	<50	<250	117
Method Blank 05-1839 MB	<50	<250	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509064-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	94	66-121
Toluene	mg/kg (ppm)	0.5	93	72-128
Ethylbenzene	mg/kg (ppm)	0.5	98	69-132
Xylenes	mg/kg (ppm)	1.5	95	69-131
Gasoline	mg/kg (ppm)	20	90	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509109-07 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	85	72-119
Toluene	ug/L (ppb)	50	88	71-113
Ethylbenzene	ug/L (ppb)	50	88	72-114
Xylenes	ug/L (ppb)	150	77	72-113
Gasoline	ug/L (ppb)	1,000	89	70-119

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

-	-	_	Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	97	99	61-133	2

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/09/15

Project: Truck City 0714.03.01, F&BI 509148

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509076-03 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5.000	4.100	159 b	125 b	63-146	24 b

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	105	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 15, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 10, 2015 from the Truck City 0714.03.01, F&BI 509177 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 10, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509177 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u> Maul Foster Alongi</u>
509177 -01	RE2-SE2-9.5
509177 -02	RE2-SE3-9.5
509177 -03	RE2-B6-10.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/10/15

Project: Truck City 0714.03.01, F&BI 509177

Date Extracted: 09/11/15 Date Analyzed: 09/11/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE2-SE2-9.5 509177-01	< 0.02	< 0.02	< 0.02	0.12	<2	111
RE2-SE3-9.5	0.063	< 0.02	< 0.02	0.099	3.2	113
RE2-B6-10.0 509177-03	0.10	<0.02	< 0.02	0.092	<2	113
Method Blank 05-1826 MB	<0.02	<0.02	< 0.02	< 0.06	<2	109

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/10/15

Project: Truck City 0714.03.01, F&BI 509177

Date Extracted: 09/11/15 Date Analyzed: 09/11/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE2-SE2-9.5 509177-01	<50	<250	82
RE2-SE3-9.5 509177-02	< 50	<250	88
RE2-B6-10.0 509177-03	<50	<250	84
Method Blank 05-1857 MB2	<50	<250	90

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/10/15

Project: Truck City 0714.03.01, F&BI 509177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509178-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	83	69-120
Toluene	mg/kg (ppm)	0.5	93	70-117
Ethylbenzene	mg/kg (ppm)	0.5	94	65-123
Xylenes	mg/kg (ppm)	1.5	91	66-120
Gasoline	mg/kg (ppm)	20	105	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/15 Date Received: 09/10/15

Project: Truck City 0714.03.01, F&BI 509177

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509126-03 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	108	98	63-146	10

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	106	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 17, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 14, 2015 from the Truck City 0714.03.01, F&BI 509215 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0917R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 14, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509215 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
509215 -01	RE2-SE4-9.5
509215 -02	RE2-SE5-9.5
509215 -03	RE2-B7-11.0
509215 -04	RE3-B2-9.5
509215 -05	RE3-SE2-9.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/14/15

Project: Truck City 0714.03.01, F&BI 509215

Date Extracted: 09/14/15 and 09/15/15 Date Analyzed: 09/14/15 and 09/15/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE2-SE4-9.5	0.049	< 0.02	0.060	0.33	4.1	104
RE2-SE5-9.5 509215-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE2-B7-11.0 509215-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE3-B2-9.5 509215-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	87
RE3-SE2-9.0 509215-05	<0.02	< 0.02	<0.02	< 0.06	<2	91
Method Blank 05-1828 MB	<0.02	<0.02	<0.02	< 0.06	<2	91
Method Blank 05-1828 MB2	<0.02	< 0.02	< 0.02	<0.06	<2	99

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/14/15

Project: Truck City 0714.03.01, F&BI 509215

Date Extracted: 09/15/15 Date Analyzed: 09/15/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE2-SE4-9.5 509215-01	<50	<250	123
RE2-SE5-9.5 509215-02	< 50	<250	102
RE2-B7-11.0 509215-03	< 50	<250	116
RE3-B2-9.5 509215-04	< 50	<250	107
RE3-SE2-9.0 509215-05	<50	<250	101
Method Blank 05-1865 MB2	<50	<250	109

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/14/15

Project: Truck City 0714.03.01, F&BI 509215

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509208-03 (Duplicate)

, and the second	-	Sample	Duplicate	222
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	84	66-121
Toluene	mg/kg (ppm)	0.5	83	72-128
Ethylbenzene	mg/kg (ppm)	0.5	88	69-132
Xylenes	mg/kg (ppm)	1.5	84	69-131
Gasoline	mg/kg (ppm)	20	95	61-153

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/14/15

Project: Truck City 0714.03.01, F&BI 509215

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509211-15 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	107	112	64-133	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- \boldsymbol{d} The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report To Yen-

Company Mau

Phone # 25332 O 5378Fax #

City, State, ZIP Secuthe, WA

REMARKS

Address 411 First Ave S, Ste. 60

SAMPLE CHAIN OF CUSTODY

SAMPLERS (signature) PROJECT NAME/NO. Truck City/0714.03.01

Page #

9

Standard (2 Weeks) TURNAROUND TIME

Rush charges authorized by

☐ Dispose after 30 days SAMPLE DISPOSAL

☐ Return samples

☐ Will call with instructions

FORMS/COC/COC.DOC	Fax (206) 283-5044 Re	r .	620	_	Friedman & Bruya, Inc.						RE3-SE2-9.0	RE3-82-9.5	REZ-87-11.0	REZ-SES-9.5	RE2-SE4-9.5	Sample ID	
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 17, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 15, 2015 from the Truck City 0714.03.01, F&BI 509240 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0917R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 15, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509240 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
509240 -01	RE3-SE3-3.0
509240 -02	RE3-SE4-3.0
509240 -03	RE3-B3-3.5
509240 -04	RE2-SE6-10.0
509240 -05	RE3-SE5-3.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/15/15

Project: Truck City 0714.03.01, F&BI 509240

Date Extracted: 09/15/15 Date Analyzed: 09/15/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE3-SE3-3.0 509240-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	108
RE3-SE4-3.0 509240-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	109
RE3-B3-3.5 509240-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	109
RE2-SE6-10.0 509240-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	110
RE3-SE5-3.0 509240-05	<0.02	<0.02	< 0.02	< 0.06	<2	110
Method Blank 05-1830 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	107

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/15/15

Project: Truck City 0714.03.01, F&BI 509240

Date Extracted: 09/15/15 Date Analyzed: 09/15/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE3-SE3-3.0 509240-01	< 50	<250	81
RE3-SE4-3.0 509240-02	< 50	<250	85
RE3-B3-3.5 509240-03	< 50	<250	80
RE2-SE6-10.0 509240-04	< 50	<250	86
RE3-SE5-3.0 509240-05	< 50	<250	86
Method Blank 05-1875 MB	< 50	<250	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/15/15

Project: Truck City 0714.03.01, F&BI 509240

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509228-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	93	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	91	65-123
Xylenes	mg/kg (ppm)	1.5	89	66-120
Gasoline	mg/kg (ppm)	20	110	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/17/15 Date Received: 09/15/15

Project: Truck City 0714.03.01, F&BI 509240

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509228-06 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	113	113	63-146	0

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	107	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FORMS\COC\COC.DOC Seattle, WA 98119-2029 Fax (206) 283-5044 Ph. (206) 285-8282 3012 16th Avenue West City, State, ZIP Sea #16, M. Phone #2533205378 Fax # Friedman & Bruya, Inc. REZ-SE6-10.0 px Address 411 First Company Maul Send Report To __ 1E3-SE5-3,0 bs RE3-SE4-3.0 by 2E3-B3-3.5 los RE3-SE3-3.0 Sample ID Received by: Relinquished by Received by: Relinquished by; O(A.EPY)5 Lab D Date Sampled らい Time Sampled 5/20/20 1200 130 020 SAMPLE CHAIN OF CUSTODY Sample Type (J) SAMPLERS (signature) REMARKS PROJECT NAME/NO. Truck (ity/0714.03.01 containers # of PRINT NAME TPH-Diesel TPH-Gasoline ANALYSES REQUESTED SVOCs by 8270 **HFS** S M とだれ PO# Samples received at COMPANY 9/15/18 ☐ Will call with instructions ☐ Return samples ☐ Dispose after 30 days Rush charges authorized by ☐ Standard (2 Weeks) RUSH_ Page #_ TURNAROUND TIME SAMPLE DISPOSAL DATE Saturated Notes TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 21, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 16, 2015 from the Truck City 0714.03.01, F&BI 509269 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures
MFA0921R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 16, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509269 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Maul Foster Alongi
509269 -01	BT-POST-7
509269 -02	RE2-SN6-10.5
509269 -03	RE2-SN7-10.5
509269 -04	RE-ST12-1
509269 -05	RE-ST12-2
509269 -06	RE-ST12-3
509269 -07	RE2-SN8-11.0
509269 -08	RE1-SN3-11.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

Date Extracted: 09/16/15 Date Analyzed: 09/16/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE2-SN6-10.5	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE2-SN7-10.5	< 0.02	< 0.02	< 0.02	< 0.06	3.6	90
RE-ST12-1 509269-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	80
RE-ST12-2 509269-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE-ST12-3 509269-06	< 0.02	0.021	< 0.02	< 0.06	<2	90
RE2-SN8-11.0 509269-07	< 0.02	< 0.02	< 0.02	<0.06	<2	91
RE1-SN3-11.0 509269-08	< 0.02	< 0.02	<0.02	<0.06	<2	91
Method Blank 05-1878 MB	< 0.02	< 0.02	< 0.02	< 0.06	<2	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

Date Extracted: 09/17/15 Date Analyzed: 09/17/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
BT-POST-7 509269-01	<1	<1	<1	<3	<100	120
Method Blank	<1	<1	<1	<3	<100	119

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

Date Extracted: 09/16/15 Date Analyzed: 09/16/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE2-SN6-10.5 509269-02	< 50	<250	86
RE2-SN7-10.5 509269-03	< 50	<250	94
RE-ST12-1 509269-04	< 50	<250	93
RE-ST12-2 509269-05	< 50	<250	91
RE-ST12-3 509269-06	< 50	<250	92
RE2-SN8-11.0 509269-07	< 50	<250	89
RE1-SN3-11.0 509269-08	200	<250	92
Method Blank 05-1892 MB	< 50	<250	81

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

Date Extracted: 09/17/15 Date Analyzed: 09/17/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND RESIDUAL RANGE USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	$\frac{\text{Diesel Range}}{(C_{10}\text{-}C_{25})}$	Residual Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 51-134)
BT-POST-7 509269-01	<50	<250	93
Method Blank 05-1891 MB2	< 50	<250	88

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509200-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	78	69-120
Toluene	mg/kg (ppm)	0.5	85	70-117
Ethylbenzene	mg/kg (ppm)	0.5	87	65-123
Xylenes	mg/kg (ppm)	1.5	85	66-120
Gasoline	mg/kg (ppm)	20	110	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509282-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/L (ppb)	50	90	72-119
Toluene	ug/L (ppb)	50	90	71-113
Ethylbenzene	ug/L (ppb)	50	89	72-114
Xylenes	ug/L (ppb)	150	80	72-113
Gasoline	ug/L (ppb)	1,000	100	70-119

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509263-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	115	102	73-135	12

			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Diesel Extended	mg/kg (ppm)	5,000	109	74-139	_

ENVIRONMENTAL CHEMISTS

Date of Report: 09/21/15 Date Received: 09/16/15

Project: Truck City 0714.03.01, F&BI 509269

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	106	108	58-134	2

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report To Yen-Vi

SAMPLE CHAIN OF CUSTODY $M\hat{\epsilon}$ %

SAMPLERS (signature)

City, State, ZIP Scattle, WA Address 411 First Avenue, S Company Maul

98104

Phone # 2533205378 Fax #

REMARKS PROJECT NAME/NO. 0714.03.01 PO#

TURNAROUND TIME

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples
☐ Will call with instructions

Fax (206) 283-5044		2029	_	··			RE1-5N3-110		RE-ST12-3	RE-STIR-2	RE-5712-1	RE2-SN7-10.5	RE2-SN6-10.5	BT-P0ST-7	Sample ID	
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 24, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 17, 2015 from the Truck City 0714.03.01, F&BI 509310 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0924R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 17, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509310 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Maul Foster Alongi
509310 -01	RE3-B4-7.0
509310 -02	RE3-B5-10.0
509310 -03	RE3-SE5-8.0
509310 -04	RE3-SE6-7.0
509310 -05	RE3-SE7-8.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/17/15

Project: Truck City 0714.03.01, F&BI 509310

Date Extracted: 09/18/15 Date Analyzed: 09/18/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE3-B4-7.0 509310-01	< 0.02	< 0.02	< 0.02	<0.06	<2	104
RE3-B5-10.0 509310-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	106
RE3-SE5-8.0 509310-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	105
RE3-SE6-7.0 509310-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	105
RE3-SE7-8.0 509310-05	<0.02	<0.02	<0.02	< 0.06	<2	105
Method Blank 05-1883 MB2	< 0.02	< 0.02	<0.02	< 0.06	<2	110

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/17/15

Project: Truck City 0714.03.01, F&BI 509310

Date Extracted: 09/18/15 Date Analyzed: 09/18/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE3-B4-7.0 509310-01	< 50	<250	105
RE3-B5-10.0 509310-02	< 50	<250	117
RE3-SE5-8.0 509310-03	< 50	<250	119
RE3-SE6-7.0 509310-04	< 50	<250	109
RE3-SE7-8.0 509310-05	<50	<250	120
Method Blank 05-1916 MB	< 50	<250	111

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/17/15

Project: Truck City 0714.03.01, F&BI 509310

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509293-06 (Duplicate)

	_	Sample	Duplicate	
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	0.19	0.48	86 hr
Ethylbenzene	mg/kg (ppm)	0.02	0.056	95 hr
Xylenes	mg/kg (ppm)	0.09	0.25	94 hr
Gasoline	mg/kg (ppm)	11	30	93 hr

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	77	69-120
Toluene	mg/kg (ppm)	0.5	81	70-117
Ethylbenzene	mg/kg (ppm)	0.5	82	65-123
Xylenes	mg/kg (ppm)	1.5	80	66-120
Gasoline	mg/kg (ppm)	20	85	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/17/15

Project: Truck City 0714.03.01, F&BI 509310

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509310-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	109	107	64-133	2

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	119	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- \boldsymbol{d} The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. NE3-SE5-8,0 RE3-BY-70 Phone # 253-320-5378 Fax # City, State, ZIP SEATTLE, WA 98104 Address 411 FRST Ave S, FLITE 610 Company MAHAL FOSTER ALDN61 Send Report To FEN-VY MAN RE3-SE6-7,0 RE3-SE7-8,0 RE3-85-10.0 Sample ID Received by: Received by: Relinquished by; Relinquished by: 64 23 20/2 8 bA: M/19/15 Lab ID Sampled Date Time Sampled 143K 1250 1230 221 00/1 Sample Type 787 SAMPLERS (signature) / PROJECT NAME/NO. REMARKS Teuck GTY 0714.03.01 THORES KAPARAS containers 3 2 B # of 4 4 PRINT NAME ኦ X X メ X TPH-Diesel ኦ ኦ ኦ X X TPH-Gasoline メ X X X BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 **HFS** PO# COMPANY Samples repelved at

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Rush charges authorized by

Page #

D02/vs2

TURNAROUND TIME

☐ Will call with instructions

Notes

☐ Return samples ☐ Dispose after 30 days

SAMPLE DISPOSAL

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9/17/15 DATE

TIME 1620

2

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 24, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 18, 2015 from the Truck City 0714.03.01, F&BI 509330 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0924R.DOC

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 18, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509330 project. Samples were logged in under the laboratory ID's listed below.

509330 -01 RE3-SE8-9.0 509330 -02 RE3-SE9-3.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/18/15

Project: Truck City 0714.03.01, F&BI 509330

Date Extracted: 09/21/15 Date Analyzed: 09/21/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE3-SE8-9.0 509330-01	< 0.02	< 0.02	< 0.02	< 0.06	<2	84
RE3-SE9-3.5 509330-02	< 0.02	<0.02	<0.02	< 0.06	<2	90
Method Blank	< 0.02	< 0.02	< 0.02	< 0.06	<2	102

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/18/15

Project: Truck City 0714.03.01, F&BI 509330

Date Extracted: 09/21/15 Date Analyzed: 09/21/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 56-165)
RE3-SE8-9.0 509330-01	<50	<250	90
RE3-SE9-3.5 509330-02	110 x	300	88
Method Blank 05-1935 MB	<50	<250	88

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/18/15

Project: Truck City 0714.03.01, F&BI 509330

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509336-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	81	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123
Xylenes	mg/kg (ppm)	1.5	85	66-120
Gasoline	mg/kg (ppm)	20	110	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/18/15

Project: Truck City 0714.03.01, F&BI 509330

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509330-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	105	116	63-146	10

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report To YEN-VY VAN 509330

Address 411 FRST AVE S, Supe 610 Company MALL FOSTER ALONSI

City, State, ZIP Same, WA 98104

Phone # 253 - 320-5378 Fax #

SAMPLE CHAIN OF CUSTODY	
<u>ر</u> ر ک	

SAMPLERS (signature) PROJECT NAME/NO.

TEMARKS 074-03.01

#O#	/ 1	9/12	•
Standard (2 Weeks)	TURNAROUND TIME	8/15 DO1/VS1	

PO#

☐ Will call with instructions □ Return samples ☐ Dispose after 30 days Kusn charges authorized by SAMPLE DISPOSAL

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 24, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 21, 2015 from the Truck City 0714-03-07, F&BI 509363 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA0924R.DOC

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 21, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714-03-07, F&BI 509363 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> <u>Maul Foster Alongi</u>

509363 -01 RE2-SN9-9.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/21/15

Project: Truck City 0714-03-07, F&BI 509363

Date Extracted: 09/21/15 Date Analyzed: 09/21/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-150)
RE2-SN9-9.0 509363-01	< 0.02	<0.02	<0.02	<0.06	<2	102
Method Blank 05-1923 MB	< 0.02	<0.02	<0.02	< 0.06	<2	102

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/21/15

Project: Truck City 0714-03-07, F&BI 509363

Date Extracted: 09/22/15 Date Analyzed: 09/22/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 53-144)
RE2-SN9-9.0 509363-01	<50	<250	102
Method Blank 05-1939 MB	< 50	<250	94

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/21/15

Project: Truck City 0714-03-07, F&BI 509363

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509363-01 (Duplicate)

, and the second	-	Sample	Duplicate	222
	Reporting	Result	Result	RPD
Analyte	Units	(Wet Wt)	(Wet Wt)	(Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

	Percent							
	Reporting	Spike	Recovery	Acceptance				
Analyte	Units	Level	LCS	Criteria				
Benzene	mg/kg (ppm)	0.5	77	69-120				
Toluene	mg/kg (ppm)	0.5	87	70-117				
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123				
Xylenes	mg/kg (ppm)	1.5	86	66-120				
Gasoline	mg/kg (ppm)	20	100	71-131				

ENVIRONMENTAL CHEMISTS

Date of Report: 09/24/15 Date Received: 09/21/15

Project: Truck City 0714-03-07, F&BI 509363

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509363-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	119	123	64-133	3

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	119	58-147

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- \boldsymbol{d} The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

PORMS\COC\COC.DOC

Samples received at 6 °C

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 509	495	CLIENT_	UF	L			INITIAI DATE:_	S/	9/2	8/1
If custody seals	s are pre	sent on co	oler, a	re they in	act?		# NA		YES	□ NO
Cooler/Sample	tempera	ture								<u>∕_</u> •c
Were samples r	eceived	on ice/colo	d pack	s?				M	YES	□ NO
Number of days	s sample	s have bee	en sitti	ng prior to	rec	eipt at	laborate	ory	1	days
Is there a Chair *or other representa		• •	•	nipping memor	3			Ø	YES	□ NÒ
Are the sample	s clearly	identified	l? (expla	in "no" answe	r belov	w)		16	<i>Y</i> ÉS	□ NO
Is the following	; informa	ation prov	id ed o	n the COC	* ? (e:	kplain "ne	o" answer k	oelow)	
Sample ID's	Yes	□ No	# o	f Container	3	Yes	□ No			
Date Sampled	Xes	□ No	Re	linquished		Д Yes	□ No			
Time Sampled	Yes	□ No	Rec	quested ana	lysis	D. Yes	□ No			
Were all sample leaking etc.)? (e				act (i.e. no	t bro	ken,		<i>\(\begin{align*} \)</i>	YÉS	□ NO
Were appropria	ite samp	le contain	ers us	ed? (explain	'no" aı	nswer bel	ow)	*	YES	□ NO
If custody seals	are pres	sent on sa	mples,	are they i	ntaci	; ?	A-NA		YES	□ NO
Are samples rec	quiring r	o headspa	ace, he	adspace fr	ee?		₫ NA		YES	□ NO
	Explai	n "no" itei	ms fro	m above (u	-					
Are samples for	PCB tes	ting?		<u> </u>	· · · 				YES	A(NO
Did samples ori	ginate o	ut of the c	ountry	y? (if yes, put	in AP	HIS refri	gerator)		YES	NO
Was client notif	ied of sa	mple rece	ipt?			nter (explair		up l	by F&	BI
If Yes, name of 1	oerson coi	ntacted				· -	•		T_AA T	Message
		~ 11							TIGIT !	messake
Special Instruct	ions from	Client				· · · · · · · · · · · · · · · · · · ·			*	

SAMPLE CHAIN OF CUSTODY

ME 09-28-15

Send Report To YEN. VY VAN Phone # 253-310-5379 Fax # City, State, ZIP SENTILE, WM Address 411 First Ave S, #610 Company MAYL FOSTER ALONG 1 4810 Y

SAMPLERS (signature) TRUCK CITY 0714,03.01
REMARKS PROJECT NAME/NO. PO#

☐ Return samples
☐ Will call with instructions ☐ Dispose after 30 days Standard (2 Weeks) Rush charges authorized by Page # TURNAROUND TIME SAMPLE DISPOSAL

										ANA	Y	ES	REQ	ANALYSES REQUESTED	E	М				
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS								Notes	
RE3-5N3-8,0	D) 4-16	9/28/15	2480	7195	5	X	χ	χ						$\neg \uparrow$	<u> </u>					
RE3-SN4-7.5	92		/035		-	X	X	<u>×</u>								_				
RE3-136-10.0	03		1120			X	Χ	<u> </u>						_					* SAMPLE	>
RE3-5N5-8.0	20		1325			×	K	Χ												
RE3-B7-3.0	05		1335			×	X	×												
RE3-BB-10,0	8		(400			X	λ	L									-		+ SAMPLE	3
R3-69-4,0	4		1415			X	X	X											•••	
Re3-610-10.0	8		1420			X	ኦ ኦ	×											-SAMPLE A	Hr.
153 -SN6-7,0	8		1435			8		१	<u> </u>		<u>ري</u> و	nple	8	Samples received at	ed a		4	ငိ		
RES-SN 7-60	6	4	1445	4	4	8	8	_								0	23.9	S	14/15	
Friedman & Bruya, Inc.		SIGNA	ATJURE		PR		PRINT NAME	ME			Ш		0 %	COMPANY	PA		196769	1	DATE TU	TIME
3012 16th Avenue West	Kelinquished by:	hed by:	Wille	\	ANDREW S. KAPARO	10/	\$	3	7				3	TIE	4			9	9/28/15 16	1640
Seattle, WA 98119-2029 Ph. (206) 285-8282	Relinquished by:	hed by:	1	+	KI	R	8		\				121	101	M			4	16/6/10	Jò
Fax (206) 283-5044	Received by:	by:									_				İ					
FOR GOOD TOO						ĺ			١	l	L				l			-		

FORMS\COC\COC.DOC

FORMS\COC\COC.DOC Seattle, WA 98119-2029 Fax (206) 283-5044 Ph. (206) 285-8282 3012 16th Avenue West Friedman & Bruya, Inc. RE3-SN8-2,5 Send Report To YEN- UY VAN RE3-SN10-2.0 Phone # City, State, ZIP Address_ Company MANI FOSTER ALONGI KE3-SN9-20 Soguas Sample ID Relinquished by Received by: Received by: Reliniquished by: 7 ID ab 11 A-E Fax # 3/28/15 Sampled Date SIGNATURE Sampled 1450 500 1500 Time SAMPLE CHAIN OF CUSTODY Sample Type Sonc SAMPLERS (signature) PROJECT NAME/NO REMARKS TRUCK CIM 074,03.01 Angeon S. KAMARON containers # of J PRINT NAME <u>ጆ</u> R TPH-Diesel ۴ TPH-Gasoline ス X BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 HFS PO# COMPANY * Temp. on tared incomedly Samples received at ☐ Return samples
☐ Will call with instructions RUSH Standard (2 Weeks) ☐ Dispose after 30 days Rush charges authorized by Page # TURNAROUND TIME SAMPLE DISPOSAL 3/18/15 DATE Notes 80 9 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 1, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 28, 2015 from the Truck City 0714.03.01, F&BI 509495 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA1001R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 28, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City Truck City 0714.03.01, F&BI 509495 project. Samples were logged in under the laboratory ID's listed below.

Maul Foster Alongi
RE3-SN3-8.0
RE3-SN4-7.5
RE3-B6-10.0
RE3-SN5-8.0
RE3-B7-3.0
RE3-B8-10.0
RE3-B9-4.0
RE3-B10-10.0
RE3-SN6-7.0
RE3-SN7-6.0
RE3-SN8-2.5
RE3-SN9-2.0
RE3-SN10-2.0

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

Date Extracted: 09/28/15 Date Analyzed: 09/28/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE3-SN3-8.0 509495-01	< 0.02	< 0.02	< 0.02	<0.06	4.4	92
RE3-SN4-7.5 509495-02	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE3-B6-10.0 509495-03	< 0.02	< 0.02	< 0.02	< 0.06	<2	86
RE3-SN5-8.0 509495-04	< 0.02	< 0.02	< 0.02	< 0.06	<2	89
RE3-B7-3.0 509495-05	< 0.02	< 0.02	< 0.02	< 0.06	<2	89
RE3-B8-10.0 509495-06	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE3-B9-4.0 509495-07	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE3-B10-10.0 509495-08	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE3-SN6-7.0 509495-09	< 0.02	< 0.02	< 0.02	< 0.06	<2	90
RE3-SN7-6.0 509495-10	< 0.02	< 0.02	< 0.02	< 0.06	<2	90

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

Date Extracted: 09/28/15 Date Analyzed: 09/28/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE3-SN8-2.5 509495-11	< 0.02	< 0.02	< 0.02	< 0.06	<2	91
RE3-SN9-2.0 509495-12	< 0.02	< 0.02	< 0.02	<0.06	<2	90
RE3-SN10-2.0 509495-13	<0.02	< 0.02	<0.02	<0.06	<2	89
Method Blank	<0.02	< 0.02	<0.02	< 0.06	<2	91

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

Date Extracted: 09/29/15 Date Analyzed: 09/29/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	Diesel Range (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE3-SN3-8.0 509495-01	< 50	<250	83
RE3-SN4-7.5 509495-02	< 50	<250	84
RE3-B6-10.0 509495-03	< 50	<250	88
RE3-SN5-8.0 509495-04	< 50	<250	89
RE3-B7-3.0 509495-05	< 50	<250	88
RE3-B8-10.0 509495-06	< 50	<250	82
RE3-B9-4.0 509495-07	< 50	<250	86
RE3-B10-10.0 509495-08	< 50	<250	79
RE3-SN6-7.0 509495-09	< 50	<250	85
RE3-SN7-6.0 509495-10	< 50	<250	97

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

Date Extracted: 09/29/15 Date Analyzed: 09/29/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 48-168)
RE3-SN8-2.5 509495-11	<50	<250	98
RE3-SN9-2.0 509495-12	< 50	<250	91
RE3-SN10-2.0 509495-13	<50	<250	97
Method Blank 05-1996 MB2	< 50	<250	86

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	0.5	78	77	66-121	1
Toluene	mg/kg (ppm)	0.5	90	89	72-128	1
Ethylbenzene	mg/kg (ppm)	0.5	91	90	69-132	1
Xylenes	mg/kg (ppm)	1.5	91	91	69-131	0
Gasoline	mg/kg (ppm)	20	105	100	61-153	5

ENVIRONMENTAL CHEMISTS

Date of Report: 10/01/15 Date Received: 09/28/15

Project: Truck City 0714.03.01, F&BI 509495

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509491-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	104	94	63-146	10

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	101	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- \boldsymbol{J} The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

RE3-B8-10,0 85-B9-4,0 153 -SN6-7,0 RE3-136-10.0 Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West RE3-137-3,0 163-5NG-8.0 Friedman & Bruya, Inc. 103-SN 7-60 RES-810-10.0 RE3-SN4-7.5 Company MAYL FOSTER HUNE! RE3-SN3-8,0 City, State, ZIP Statute WM Phone # 253-370-5379 Fax # Send Report To YEN-VY VAN Address 411 FAST Ave S, #610 Sample ID SIGNATURE Relinquished by: Received by: Relinquisched by: 80 \$ 8 <u>8</u> 2 Q 8 3 B A 함 7 9/28/15 Sampled Date 48104 Sampled Srt/ #35 ST P 1120 1415 2780 1325 1035 Time 200 335 Sample Type 5010 SAMPLERS (signature) REMARKS PROJECT NAME/NO TRUCK CITY ANDREW S. KAPANOT containers 9 PRINT NAME 8 X X X X X K X X TPH-Diesel X X ኦ $\overline{\lambda}$ λ X X X K TPH-Gasoline 10.50,4120 又 ጷ X X X Ĺ ኢ **BTEX** by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 Samples redeived at 7 72 COMPANY ☐ Will call with instructions □ Return samples ☐ Dispose after 30 days Rush charges authorized by Standard (2 Weeks) \overline{v} HSUSH. Page # TURNAROUND TIME SAMPLE DISPOSAL

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Notes

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SAMPLE CHAIN OF CUSTODY

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09-28-15

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3/28/15 DATE

1640 TIME

1670

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Carronal Control

FORMS\COC\COC.DOC Fax (206) 283-5044 Ph. (206) 285-8282 Seattle, WA 98119-2029 3012 16th Avenue West Friedman & Bruya, Inc. RE3-SN10-2,0 Phone # Send Report To YEN- VY VAN RE3-SN9-20 RE3-SN8-2,5 City, State, ZIP Address Company May FOSTER ALONG! Soguas Sample ID Received by: Relinquished by: Received by: Relinquished by 5 E Lab A-E Fax # 3/28/15 Sampled Date SIGNATURE Sampled 1450 500 1500 Time SAMPLE CHAIN OF CUSTODY Sample Type 250 REMARKS PROJECT NAME/NO SAMPLERS (signature) TRUCK CIM 074,03.01 Angeon S. KAPARON containers S # of PRINT NAME X, TPH-Diesel ۴ TPH-Gasoline X BTEX by 8021B VOCs by8260 ANALYSES REQUESTED SVOCs by 8270 HFS **P** COMPANY 09-28-15 imples received at Standard (2 Weeks) ☐ Will call with instructions ☐ Return samples ☐ Dispose after 30 days Rush charges authorized by Page # TURNAROUND TIME SAMPLE DISPOSAL Mark. 3/18/15 DATE 9 Notes DOY / VS3 16/10 TIME

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Arina Podnozova, B.S. Eric Young, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

October 6, 2015

Yen-Vy Van, Project Manager Maul Foster Alongi 411 1st Ave S, Suite 610 Seattle, WA 98104

Dear Ms. Van:

Included are the results from the testing of material submitted on September 30, 2015 from the Truck City 0714.03.01, F&BI 509549 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA. INC.

Michael Erdahl Project Manager

Enclosures MFA1006R.DOC

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2015 by Friedman & Bruya, Inc. from the Maul Foster Alongi Truck City 0714.03.01, F&BI 509549 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> <u>Maul Foster Alongi</u>

509549 -01 BT-POST-8 509549 -02 RE2-SS7-9.5

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

Date Extracted: 10/01/15 Date Analyzed: 10/01/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 52-124)
BT-POST-8 509549-01	<1	<1	<1	<3	<100	90
Method Blank 05-1983 MB	<1	<1	<1	<3	<100	88

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

Date Extracted: 09/30/15 Date Analyzed: 09/30/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 50-132)
RE2-SS7-9.5 509549-02	< 0.02	<0.02	< 0.02	<0.06	<2	84
Method Blank	< 0.02	< 0.02	< 0.02	< 0.06	<2	94

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

Date Extracted: 10/01/15 Date Analyzed: 10/01/15

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Motor Oil Range (C ₂₅ -C ₃₆)	Surrogate (% Recovery) (Limit 41-152)
BT-POST-8 509549-01	<50	<250	99
Method Blank 05-2012 MB	<50	<250	100

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

Date Extracted: 09/30/15 Date Analyzed: 09/30/15

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

			Surrogate
Sample ID	<u>Diesel Range</u>	Motor Oil Range	(% Recovery)
Laboratory ID	$(C_{10}-C_{25})$	$(C_{25}-C_{36})$	(Limit 56-165)
RE2-SS7-9.5 509549-02	<50	<250	87
Method Blank 05-2007 MB	<50	<250	97

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509549-01 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

		Percent	
Reporting	Spike	Recovery	Acceptance
Units	Level	LCS	Criteria
ug/L (ppb)	50	91	65-118
ug/L (ppb)	50	90	72-122
ug/L (ppb)	50	90	73-126
ug/L (ppb)	150	89	74-118
ug/L (ppb)	1,000	96	69-134
	Units ug/L (ppb) ug/L (ppb) ug/L (ppb) ug/L (ppb)	Units Level ug/L (ppb) 50 ug/L (ppb) 50 ug/L (ppb) 50 ug/L (ppb) 150	Reporting Units Spike Level Recovery LCS ug/L (ppb) 50 91 ug/L (ppb) 50 90 ug/L (ppb) 50 90 ug/L (ppb) 150 89

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 509539-21 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Benzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Toluene	mg/kg (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	mg/kg (ppm)	< 0.02	< 0.02	nm
Xylenes	mg/kg (ppm)	< 0.06	< 0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	0.5	72	69-120
Toluene	mg/kg (ppm)	0.5	81	70-117
Ethylbenzene	mg/kg (ppm)	0.5	82	65-123
Xylenes	mg/kg (ppm)	1.5	81	66-120
Gasoline	mg/kg (ppm)	20	110	71-131

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Diesel Extended	ug/L (ppb)	2,500	92	95	63-142	3

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/15 Date Received: 09/30/15

Project: Truck City 0714.03.01, F&BI 509549

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 509524-02 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet Wt)	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	< 50	94	89	63-146	5

			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Diesel Extended	mg/kg (ppm)	5,000	95	79-144

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte may be due to carryover from previous sample injections.
- cf The sample was centrifuged prior to analysis.
- d The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv Insufficient sample volume was available to achieve normal reporting limits.
- f The sample was laboratory filtered prior to analysis.
- fb The analyte was detected in the method blank.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.
- hs Headspace was present in the container used for analysis.
- ht The analysis was performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- ${
 m jl}$ The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the analyte is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

504546

SAMPLERS (signature),

Truck Ctz, REMARKS City, State, ZIP Seattle, WA 98104 Send Report To len-Uy Van Company Maul Foster Aleng Address 411 First Ave S., Ste. Lold

PO# 10714.43.01 PROJECT NAME/NO

☐ Standard (2 Weeks)
☐ RUSH
☐ Rush charges authorized by SAMPLE DISPOSAI ☐ Dispose after 30 days

☐ Return samples ☐ Will call with instructions

Phone #2533205378 Fax #

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	Date Sampled	518 91/6/6	イン					
	Lab ID	24	A.E					
	Sample ID	8-1204-18	36 56- LSS-23D					

Friedman & Bruya, Inc 3012 16th Avenue West Seattle, WA 98119-2029 Fax (206) 283-5044 Ph. (206) 285-8282

FORMS/COC/COC.DOC

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APPENDIX H DATA VALIDATION MEMORANDA



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0714.03.01 | SEPTEMBER 3, 2015 | SKAGIT COUNTY

This report reviews the analytical results for treatment system water samples and soil samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Truck City property in Mount Vernon, Washington. The samples were collected on August 12 and 18, 2015.

Friedman and Bruya, Inc. (FBI) performed the analyses. FBI reports Truck City FBI 508194 (508194) and Truck City FBI 508306 (508306-1), and MFA Truck City 0714030 508306 additional (508306-2) were reviewed. The analyses performed, samples analyzed, and samples submitted on hold are listed below.

Analysis Reference

BTEX	USEPA 8021B
Diesel and Motor Oil	NWTPH-Dx
Gasoline	NWTPH-Gx

BTEX = benzene, toluene, ethylbenzene, xylenes. NWTPH = Northwest Total Petroleum Hydrocarbons. USEPA = U.S. Environmental Protection Agency.

	Samples Analyzed	
Report 508194	Report 508306-1	Report 508306-2
P1-S2-3.5	P1-S2-B1-10.0	P1-S2-B1-10.0
P2-S1-3.5 (hold)	P1-S2-SN-9.0	-
D3-8.0 (hold)	D1-B-9.5	-
D1-4.0	D2-B-10.0	-
D2-4.0	D4-B-10.0	-
P1-S1-3.5	BT-PRE-1	-
D4-4.0	BT-POST-1	-
P1-S3-3.5 (hold)	-	-
D5-4.0	-	-

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2014) and appropriate laboratory and method-specific guidelines (FBI, 2015; USEPA, 1986).

In report 508194, NWTPH-Dx diesel-range results for sample P1-S2-3.5 and motor-oil-range results for sample D4-4.0 were flagged by FBI because of chromatographic patterns that did not resemble the pattern of the standard used for quantitation. In report 508306-1, NWTPH-Dx diesel-range and motor-oil-range results for sample BT-PRE-1 were also flagged by FBI because of chromatographic patterns not matching the pattern of standards. Results were

quantified against diesel and motor-oil calibration standards and have not been qualified by the reviewer.

Sample P1-S2-B1-10.0 from report 508306-1 was reextracted and reanalyzed, with the results included in report 508306-2. Results from both sets of analyses were consistent. No qualification was necessary.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. All laboratory method blanks were non-detect at method reporting limits.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate results were within percent recovery acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. All MS/MSD results were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. All LCS/LCSD analytes were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Field duplicate samples were not submitted for analysis.

REPORTING LIMITS

FBI used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

- FBI. 2015. Quality assurance manual. Friedman & Bruya, Inc., Seattle, Washington. January 19.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846 Update V. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 1, July 2014).
- USEPA. 2014. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540/R-014/002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 0714.03.01 | OCTOBER 7, 2015 | SKAGIT COUNTY

This report reviews the analytical results for treatment system water samples and soil samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Truck City property in Mount Vernon, Washington. The samples were collected in August and September 2015.

Friedman and Bruya, Inc. (FBI) performed the analyses. The following FBI reports were reviewed:

MFA Truck City 07140301 508337 (508337)

MFA 508363 (508363)

MFA Truck City 07140301 508394 (508394)

MFA Truck City 0714.03.01 508400 amended (508400)

MFA Truck City 07140301 508421 amended (508421)

MFA Truck City 07140301 508449 (508449)

MFA Truck City PO 07140301 (508469)

MFA Truck City 07140301 508504 (508504)

MFA Truck City 07140301 508533 (508533)

MFA Truck City 07140301 508558 (508558)

MFA Truck City 07140301-03 509054 (509054)

MFA Truck City 07140301 509081 (509081)

MFA Truck City 07140301 509116 (509116)

MFA Truck City 07140301 509148 (509148)

MFA Truck City 07140301 509177 (509177)

MFA Truck City 07140301 509215 (509215)

MFA Truck City 07140301 509240 (509240)

MFA Truck City 07140301 509269 (509269)

MFA Truck City 07140301 509310 (509310)

MFA Truck City 07140301 509330 (509330)

MFA Truck City 0714-03-07 509363 (509363)

MFA Truck City 07140301 509495, 509495 coc0002, and 509495 checklist (509495)

MFA Truck City 07140301 509549 (509549)

The analyses performed and samples analyzed are listed below.

Analysis	Reference
BTEX	USEPA 8021B
Diesel and Motor Oil	NWTPH-Dx
Gasoline	NWTPH-Gx
Hydrocarbon Identification	NWTPH-HCID

Analysis Reference

Polychlorinated Biphenyls	USEPA 8082A
Volatile Organic Compounds	USEPA 8260C

BTEX = benzene, toluene, ethylbenzene, xylenes. NWTPH = Northwest Total Petroleum Hydrocarbons. USEPA = U.S. Environmental Protection Agency.

		Samples	S Analyzed		
Report 508337	Report	508363	Report 508394	Report 508400	Report 508421
RE4-B-10.0	RE3-B-10.0	RESTO2-01	PL-UST-650	REI-SW2-9.5	REI-SE2-9.0
RE4-SW-9.0	RE3-SE-9.0	REST02-02	BT-Post-2	REI-SW3-9.5	FTS-S-SW1-6
RE4-SS-9.0	RE3-SS-9.0	REST02-03	RE ST05-01	-	FTS-S-SW2-5
RE4-SE-8.0	RE3-SW-9.0	REST03-01	RE ST05-02	-	FTS-S-SS-5
RE4-SN-8.5	RE3-SN-9.0	REST03-02	RE ST05-03	-	FTS-S-BN-6
RE1-BN-10.0	RE2-B-10.0	REST03-03	-	-	FTS-S-BS-5
RE1-BS-10.0	RE2-SE-10.0	RESTO4-01	-	-	FTS-S-SE1-5
RE1-SN-9.0	RE2-SS-9.0	RESTO4-02	-	-	REI-SE3-10.0
RE1-SE-9.0	RE2-SW-9.0	REST04-03	-	-	-
RE1-SS-8.5	RE2-SN-9.0	REST02-01-DUP	-	-	-
RE1-SW-9.0	RESTO1-01	REST03-01-DUP	-	-	-
-	REST01-02	REST03-03	-	-	-
-	RESTO1-03	RESTO4-01	-	-	-
Report 508449	Report 508469	Report 508504	Report 508533	Report 508558	Report 509054
RE-ST06-1	FTS-N-SW-9.0	RE1-SN2-9.0	RE1-SS3-10.0	RE-ST08-1	RE2-SN2-10.0
RE-ST06-2	FTS-N-SN-9.0	RE-ST07-1	RE2-B2-10.0	RE2-SS2-8-0	RE2-SN3-10.0
RE-ST06-3	FTS-N-B-10.0	RE-ST07-2	RE2-B3-10.0	RE-ST08-2	BT-POST-5
RE3-SN2-9.0	-	RE-ST07-3	BT-POST-4	RE-ST08-3	RE2-SN4-10.0
BT-POST-3	-	RE1-SS2-10.0	-	RE2-SS3-9.0	RE2-SS4-10.0
-	-	-	-	-	RE-ST09-1
-	-	-	-	-	RE-ST09-2
-	-	-	-	-	RE-ST09-3
-	-	-	-	-	RE2-SS5-10.0
Report 509081	Report 509116	Report 509148	Report 509177	Report 509215	Report 509240
RE-ST10-1	RE2-SS6-9.0	RE-ST11-1	RE2-SE2-9.5	RE2-SE4-9.5	RE3-SE3-3.0
RE-ST10-2	RE2-B4-10.0	RE-ST11-2	RE2-SE3-9.5	RE2-SE5-9.5	RE3-SE4-3.0
RE-ST10-3	RE2-SN5-9.0	RE-ST11-3	RE2-B6-10.0	RE2-B7-11.0	RE3-B3-3.5
-	RE2-B5-10.0	RE-ST11-4	-	RE3-B2-9.5	RE2-SE6-10.0
-	-	BT-POST-6	-	RE3-SE2-9.0	RE3-SE5-3.0
Report 509269	Report 509310	Report 509330	Report 509363	Report 509495	Report 509549
BT-POST-7	RE3-B4-7.0	RE3-SE8-9.0	RE2-SN9-9.0	RE3-SN3-8.0	BT-POST-8
RE2-SN6-10.5	RE3-B5-10.0	RE3-SE9-3.5	-	RE3-SN4-7.5	RE2-SS7-9.5

		Samples	s Analyzed		
RE2-SN7-10.5	RE3-SE5-8.0	-	-	RE3-B6-10.0	-
RE-ST12-1	RE3-SE6-7.0	-		RE3-SN5-8.0	-
RE-ST12-2	RE3-SE7-8.0	-	-	RE3-B7-3.0	-
RE-ST12-3	-	-	-	RE3-B8-10.0	-
RE2-SN8-11.0	-	-	-	RE3-B9-4.0	-
RE1-SN3-11.0	-	-	-	RE3-B10-10.0	-
-	-	-	-	RE3-SN6-7.0	-
-	-	-	-	RE3-SN7-6.0	-
-	-	-	-	RE3-SN8-2.5	-
-	-	-	-	RE3-SN9-2.0	-
-	-	-	-	RE3-SN10-2.0	-

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2014) and appropriate laboratory and method-specific guidelines (FBI, 2015; USEPA, 1986).

In report 508337, the NWTPH-Dx motor-oil-range result for sample RE1-SN-9.0 was flagged by FBI because of chromatographic patterns that did not resemble the pattern of the standard used for quantitation. Results were quantified against motor oil calibration standards and have not been qualified by the reviewer.

In report 509330, the NWTPH-Dx diesel-range result for sample RE3-SE9-3.5 was flagged by FBI because of chromatographic patterns that did not resemble the pattern of the standard used for quantitation. Results were quantified against diesel calibration standards and have not been qualified by the reviewer.

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

Temperature on receipt was not indicated on the chain of custody for reports 508337 and 508421. The reviewer confirmed with FBI that samples were received at temperatures within acceptance criteria.

In report 509495, temperature on receipt recorded on the chain of custody was 21 degrees Celsius (°C). The reviewer confirmed with FBI that the temperature on receipt was 6°C and

was recorded incorrectly on the chain of custody. FBI issued a revised chain of custody (509495 coc0002) and the sample receipt checklist (509495 coc0002). The samples met temperature storage criteria of 2 to 6°C; thus, no qualification was required.

The remaining samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. Where an analyte was detected in a sample and in the associated method blank, the sample result was qualified if the concentration was less than five times the method blank concentration for USEPA Method 8021B results and less than ten times the method blank concentration for remaining results.

All laboratory method blanks were non-detect at method reporting limits (MRLs).

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate recoveries were within percent recovery acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency.

In reports 508449 and 509148, the NWTPH-Dx soil matrix MS/MSDs exceeded percent recovery acceptance limits. The MS/MSD spike concentrations could not be accurately quantified because of high concentrations of analyte present in the samples. Remaining batch quality control met acceptance criteria; thus, no results were qualified.

All remaining MS/MSD results were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency.

In report 509054, the USEPA Method 8021B and NWTPH-Gx laboratory duplicate exceeded RPD control limits for toluene, ethylbenzene, xylenes, and gasoline, ranging from 36 to 51 percent. FBI analyzed a second aliquot of the same sample and laboratory duplicate with similar results. The sample matrix is assumed to be nonhomogenous. Remaining batch quality control met acceptance criteria. In the following table, detected results in sample RE2-SN2-10.0, which was used to prepare the laboratory duplicate, have been qualified by the reviewer as estimated (J). Non-detect results were not qualified.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
509054	RE2-SN2-10.0	Toluene	0.36	0.36 J
509054	RE2-SN2-10.0	Ethylbenzene	0.46	0.46 J
509054	RE2-SN2-10.0	Xylenes	0.42	0.42 J
509054	RE2-SN2-10.0	Gasoline	51	51 J

mg/kg = milligrams per kilogram.

In report 509310, the USEPA Method 8021B and NWTPH-Gx laboratory duplicate exceeded RPD control limits for toluene, ethylbenzene, xylenes, and gasoline, ranging from 86 to 95 percent. FBI analyzed a second aliquot of the same sample and laboratory duplicate with similar results. The sample matrix is assumed to be nonhomogenous. The sample used to prepare the laboratory duplicate was presented in report number 509293, which is unrelated to the Truck City project. The soil samples submitted for the Truck City reports are assumed to have different matrices; thus, no results were qualified.

All remaining laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. All LCS/LCSD analytes were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Two field duplicate samples were submitted for analysis with report 508363 (REST02-01/REST02-01-DUP) and (REST03-01/REST03-01-DUP). MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the MRL, or 50 percent RPD for results that are greater than five times the MRL. Non-detect data are not used in the evaluation of field duplicate results. All analytes were within the acceptance criteria.

REPORTING LIMITS

FBI used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences. FBI reported some USEPA Method 8021B results below MRLs. The results were qualified by FBI with "J" as estimated. No additional qualification was required.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

- FBI. 2015. Quality assurance manual. Friedman & Bruya, Inc., Seattle, Washington. January 19.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846 Update V. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 1, July 2014).
- USEPA. 2014. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540/R-014/002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.

DATA QUALITY ASSURANCE/QUALITY **CONTROL REVIEW**

PROJECT NO. 0714.03.01 | SEPTEMBER 2, 2015 | SKAGIT COUNTY

This report reviews the analytical results for soil samples collected by the Maul Foster & Alongi, Inc., project team on the Truck City property in Mount Vernon, Washington. The samples were collected on August 6 and 7, 2015.

Friedman and Bruya, Inc. (FBI) performed the analyses. FBI reports MFA Truck City 071402 508100 amended (508100) and FBI Truck City UST decom part II 508128 (508128) were reviewed. The analyses performed and samples analyzed are listed below.

Analysis	Reference
BTEX	USEPA 8021B
Diesel and Motor Oil	NWTPH-Dx
Gasoline	NWTPH-Gx
Hydrocarbon Identification	NWTPH-HCID
Total Lead	USEPA 200.8

BTEX = benzene, toluene, ethylbenzene, xylenes. NWTPH = Northwest Total Petroleum Hydrocarbons. USEPA = U.S. Environmental Protection Agency.

Samples	Analyzed
Report 508100	Report 508128
S-W1-8.0	ST-4
S-S1-8.0	B1-T4-14.0
B-T1-12.0	ST-5
B-T2-12.0	B2-T4-14.0
S-N1-8.0	S-N2-10.0
S-E1-8.0	B-T3-12.0
ST-1	-
ST-2	-
ST-3	-

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2014a,b) and appropriate laboratory and method-specific guidelines (FBI, 2015; USEPA, 1986).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. All laboratory method blanks were non-detect at method reporting limits.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate results were within percent recovery acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. All MS/MSD results were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. All LCS/LCSD analytes were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Field duplicates were not submitted for analysis.

REPORTING LIMITS

FBI used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences. Reporting limits were also raised because results were reported on a dry-weight basis.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

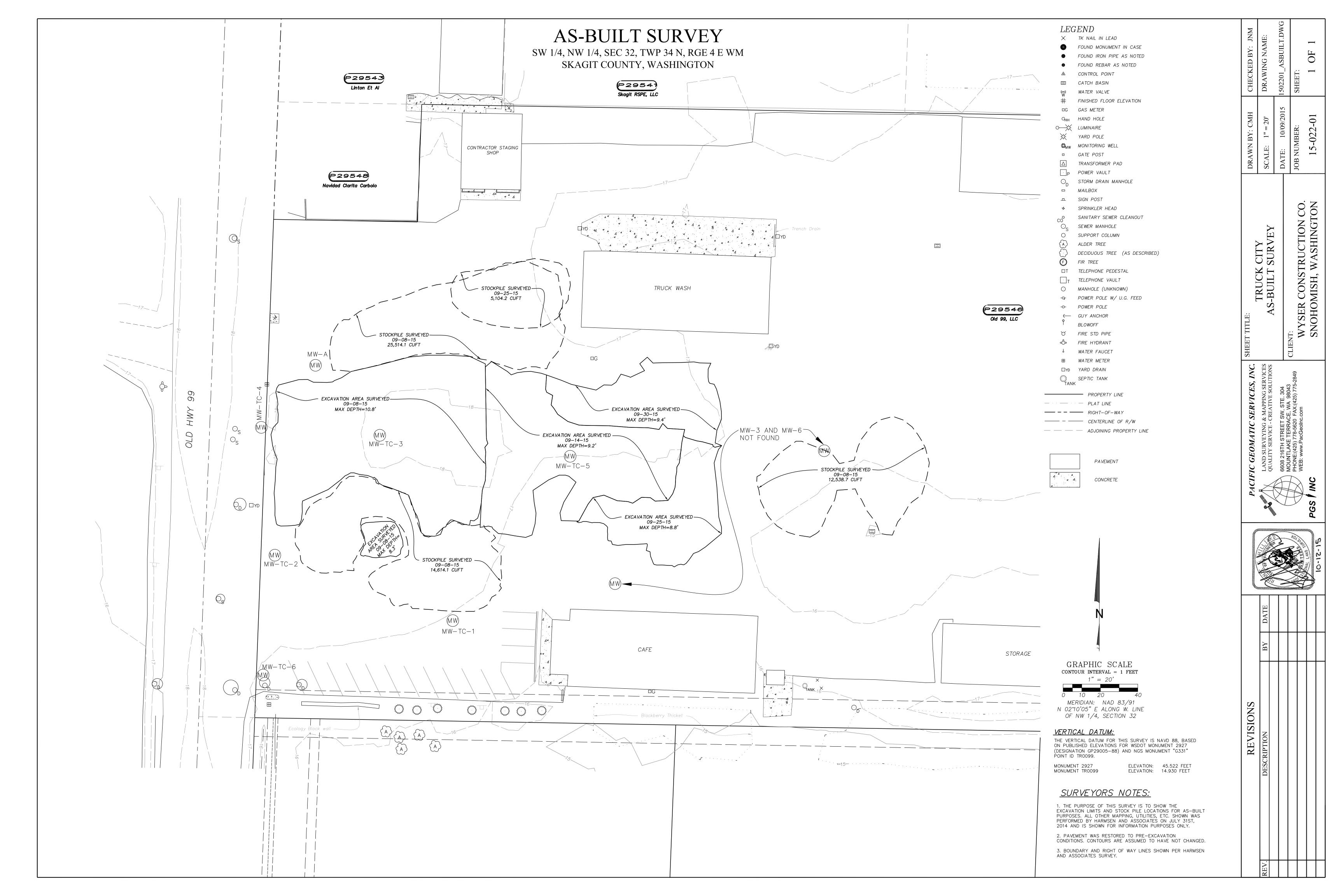
In report 508128, NWTPH-Dx, NWTPH-Gx, USEPA Method 8021B, and USEPA Method 200.8 total lead analyses for sample S-N2-10.0 were canceled and the sample was placed on hold after receipt by FBI. Analysis by NWTPH-HCID, USEPA Method 8270D SIM, and USEPA Method 8260C were requested by the project manager.

No additional issues were found.

- FBI. 2015. Quality assurance manual. Friedman & Bruya, Inc., Seattle, Washington. January 19.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846 Update V. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 1, July 2014).
- USEPA. 2014a. USEPA contract laboratory program, national functional guidelines for inorganic Superfund data review. EPA 540/R-013/001. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.
- USEPA. 2014b. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540/R-014/002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.

APPENDIX I AS-BUILT SURVEY





APPENDIX J

CEMEX LANDFILL CERTIFICATE OF PETROLEUM-CONTAMINATED-SOIL DISPOSAL





Ticket List By Customer\Order\Product



Date From

08/01/2015

To

10/07/2015

Location(s) 1876 **Order:** 41032119

								S h	C a	V 0
Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
Scale Tic	kets ONSTRUCTION INC	•								
41032119 1183951										
8/31/15	1876082771	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	15:10:00	7.75	Н			
8/31/15	1876082773	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	15:12:00	7.50	Н			
8/31/15	1876082776	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	15:43:00	8.25	Н			
9/1/15	1876082821	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	14:29:00	6.75	Н			
9/1/15	1876082829	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	15:19:00	8.25	Н			
9/1/15	1876082830	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	15:46:00	9.50	Н			
9/2/15	1876082915	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	14:52:00	8.75	Н			
9/2/15	1876082918	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	15:15:00	8.00	Н			
9/10/15	1876083187	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	13:50:00	6.25	Н			
9/11/15	1876083207	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	8:13:00	10.50	Н			
9/11/15	1876083273	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:40:00	7.50	Н			
9/11/15	1876083276	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	15:29:00	9.25	Н			
9/14/15	1876083342	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:38:00	8.00	Н			
9/14/15	1876083349	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	15:10:00	8.00	Н			
9/15/15	1876083448	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	14:33:00	8.50	Н			
9/15/15	1876083452	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:53:00	8.50	Н			
9/15/15	1876083454	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	15:39:00	0.50	Н			
Product To 1192508	otals 17				Qty	131.	75	Н		
8/31/15	1876082718	D:76: TRUCK CITY	C7-7TF,SPRINGBROOK NURSERY	0:00:00	8:47:00	29.06	TON			

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
8/31/15	1876082719	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	8:57:00	29.99	TON			
8/31/15	1876082720	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	9:00:00	32.39	TON	R		
8/31/15	1876082734	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	10:35:00	27.34	TON			
8/31/15	1876082739	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	11:06:00	32.52	TON	R		
8/31/15	1876082740	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	11:10:00	32.57	TON	R		
8/31/15	1876082754	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	12:41:00	28.93	TON			
8/31/15	1876082759	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	13:09:00	31.14	TON			
8/31/15	1876082762	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	13:40:00	28.81	TON			
8/31/15	1876082768	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	14:51:00	30.75	TON	R		
8/31/15	1876082772	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	15:11:00	31.74	TON			
9/1/15	1876082779	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	8:18:00	27.88	TON			
9/1/15	1876082785	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:45:00	29.02	TON			
9/1/15	1876082786	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	8:47:00	26.62	TON			
9/1/15	1876082792	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	10:15:00	28.18	TON			
9/1/15	1876082796	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	10:55:00	30.49	TON			
9/1/15	1876082802	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	12:05:00	27.29	TON			
9/1/15	1876082807	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	12:38:00	25.84	TON			
9/1/15	1876082810	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:48:00	28.28	TON			
9/1/15	1876082819	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	14:06:00	29.35	TON			
9/1/15	1876082825	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	14:52:00	29.89	TON			
9/1/15	1876082828	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	15:01:00	27.60	TON			
9/2/15	1876082833	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	8:14:00	32.84	TON	R		
9/2/15	1876082834	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:22:00	33.46	TON	R		
9/2/15	1876082887	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	10:19:00	30.05	TON			
9/2/15	1876082889	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	10:35:00	30.77	TON			
9/2/15	1876082894	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	12:20:00	28.83	TON			

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
9/2/15	1876082896	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:43:00	32.61	TON	R		
9/2/15	1876082913	D:76: TRUCK CITY	C7-14T,SPRINGBROOK NURSERY	0:00:00	14:27:00	29.66	TON			
9/2/15	1876082914	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:51:00	33.01	TON	R		
9/10/15	1876083140	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:08:00	31.32	TON			
9/10/15	1876083141	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	8:16:00	30.29	TON			
9/10/15	1876083144	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	10:06:00	30.91	TON			
9/10/15	1876083147	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	10:24:00	27.65	TON			
9/10/15	1876083169	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:27:00	31.15	TON			
9/10/15	1876083174	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	12:43:00	30.40	TON			
9/11/15	1876083204	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	7:58:00	31.85	TON			
9/11/15	1876083206	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	8:11:00	30.48	TON			
9/11/15	1876083214	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	10:10:00	33.99	TON	R		
9/11/15	1876083219	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	10:22:00	33.76	TON	R		
9/11/15	1876083244	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:13:00	31.53	TON			
9/11/15	1876083248	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	12:34:00	31.21	TON	R		
9/11/15	1876083268	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:24:00	30.73	TON			
9/11/15	1876083274	D:76: TRUCK CITY	C7-11T,SPRINGBROOK NURSERY	0:00:00	14:51:00	29.72	TON			
9/14/15	1876083277	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:03:00	30.83	TON			
9/14/15	1876083280	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	9:07:00	27.53	TON			
9/14/15	1876083282	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	9:55:00	30.47	TON			
9/14/15	1876083304	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	11:01:00	29.83	TON	R		
9/14/15	1876083319	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:07:00	33.18	TON	R		
9/14/15	1876083327	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	13:04:00	30.67	TON	R		
9/14/15	1876083339	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:21:00	33.06	TON	R		
9/14/15	1876083348	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	15:09:00	31.32	TON	R		
9/15/15	1876083362	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:25:00	29.78	TON			

Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	S h i	C a s	V o i
Duto	Tionotivo	Bollvery Address	Vernicio		Honorimo	a.,	J	р	h	d
9/15/15	1876083363	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	8:28:00	30.25	TON	R		
9/15/15	1876083378	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	10:17:00	33.72	TON	R		
9/15/15	1876083387	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	10:30:00	30.55	TON	R		
9/15/15	1876083414	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	12:23:00	30.26	TON			
9/15/15	1876083417	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	12:28:00	28.86	TON			
9/15/15	1876083447	D:76: TRUCK CITY	C7-24T,SPRINGBROOK NURSERY	0:00:00	14:32:00	30.57	TON	R		
9/15/15	1876083450	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	14:37:00	31.64	TON			
9/16/15 Product To Order Tota Customer	als 78	D:76: TRUCK CITY	C7-26T,SPRINGBROOK NURSERY	0:00:00	8:06:00 Qty Qty Qty	0.00 1,824 . 1,956 . 1,956 .	17 TON	I		V
Grand Tot	al	78			Qty	1,956.17	7 TON			



Ticket List By Customer\Order\Product



Date From

08/01/2015

То

10/07/2015

Location(s) 1876 **Order:** 41027925

Scale TicketNo Delivery Address Vehicle Timeln TicketTime Qty Unit Delivery Qty									S h	C a	V
## 1027925 ## 1027925	Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	S	i d
41027925 1192508 41027925 1192508<			:								
8/14/15 1876082148 P: TRUCK CITY Z&S7,Z&S TRUCKING 7:40:00 7:58:00 27:53 TON R 8/14/15 1876082151 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:53:00 8:07:00 30.36 TON R 8/17/15 1876082164 P: TRUCK CITY 2xS7,Z&S TRUCKING 0:00:00 7:46:00 31.11 TON R 8/20/15 1876082261 P: TRUCK CITY 1875-1,EVERETT GENERIC 0:00:00 7:34:00 30.87 TON R 8/20/15 1876082281 P: TRUCK CITY 1847,L&L TRANSPORT 0:00:00 7:34:00 30.87 TON TON R 8/21/15 1876082383 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:40:00 7:56:00 31.78 TON R 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.50 TON <th>41027925</th> <th></th>	41027925										
8/17/15 1876082164 P: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:46:00 31.11 TON 8/17/15 1876082165 P: TRUCK CITY 1875-1,EVERETT GENERIC 0:00:00 8:23:00 34.03 TON R 8/20/15 1876082281 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:34:00 30.87 TON 8/20/15 1876082283 P: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:56:00 31.78 TON 8/21/15 1876082354 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:31:00 29.15 TON 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.14 TON R 8/21/15 1876082398 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:45:00 31.59 TON 8/21/15 1876082420 P: TRUCK CITY		1876082148	P: TRUCK CITY	Z&S7,Z&S TRUCKING	7:40:00	7:58:00	27.53	TON	R		
8/17/15 1876082165 P: TRUCK CITY 1875-1,EVERETT GENERIC 0:00:00 8:23:00 34.03 TON R 8/20/15 1876082281 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:34:00 30.87 TON 8/20/15 1876082283 P: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:56:00 31.78 TON 8/21/15 1876082354 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:31:00 29.15 TON 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.14 TON R 8/21/15 1876082398 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:35:00 32.50 TON 8/21/15 1876082400 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422	8/14/15	1876082151	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	7:53:00	8:07:00	30.36	TON	R		
8/20/15 1876082281 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:34:00 30.87 TON 8/20/15 1876082283 P: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:56:00 31.78 TON 8/21/15 1876082354 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:31:00 29.15 TON 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.14 TON R 8/21/15 1876082398 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:35:00 31.59 TON 8/21/15 1876082400 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/17/15	1876082164	P: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:46:00	31.11	TON			
8/20/15 1876082283 P: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:56:00 31.78 TON 8/21/15 1876082354 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:31:00 29.15 TON 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.14 TON R 8/21/15 1876082398 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:35:00 32.50 TON 8/21/15 1876082399 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:45:00 31.59 TON 8/21/15 1876082420 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/17/15	1876082165	P: TRUCK CITY	1875-1,EVERETT GENERIC	0:00:00	8:23:00	34.03	TON	R		
8/21/15 1876082354 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:31:00 29.15 TON 8/21/15 1876082363 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:42:00 7:56:00 30.04 TON R 8/21/15 1876082367 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 7:55:00 8:13:00 32.14 TON R 8/21/15 1876082398 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:35:00 32.50 TON 8/21/15 1876082399 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:45:00 31.59 TON 8/21/15 1876082400 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/20/15	1876082281	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	7:34:00	30.87	TON			
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8/21/15 1876082398 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:35:00 32.50 TON 8/21/15 1876082399 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:45:00 31.59 TON 8/21/15 1876082400 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/21/15	1876082363	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	7:42:00	7:56:00	30.04	TON	R		
8/21/15 1876082399 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 9:45:00 31.59 TON 8/21/15 1876082400 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/21/15	1876082367	P: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	7:55:00	8:13:00	32.14	TON	R		
8/21/15 1876082400 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 9:54:00 33.98 TON R 8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/21/15	1876082398	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	9:35:00	32.50	TON			
8/21/15 1876082422 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:40:00 29.44 TON 8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/21/15	1876082399	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	9:45:00	31.59	TON			
8/21/15 1876082423 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 11:47:00 29.07 TON	8/21/15	1876082400	P: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	9:54:00	33.98	TON	R		
	8/21/15	1876082422	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	11:40:00	29.44	TON			
	8/21/15	1876082423	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	11:47:00	29.07	TON			
8/21/15 1876082424 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 11:56:00 30.59 TON	8/21/15	1876082424	P: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	11:56:00	30.59	TON			
8/21/15 1876082432 P: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 13:48:00 31.22 TON	8/21/15	1876082432	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	13:48:00	31.22	TON			
8/21/15 1876082435 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 13:55:00 29.80 TON	8/21/15	1876082435	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	13:55:00	29.80	TON			
8/21/15 1876082436 P: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 14:04:00 29.93 TON	8/21/15	1876082436	P: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	14:04:00	29.93	TON			
8/24/15 1876082438 P: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 7:29:00 7:39:00 29.99 TON R	8/24/15	1876082438	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	7:29:00	7:39:00	29.99	TON	R		

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
8/24/15	1876082440	P: TRUCK CITY	WC30T,WYSER CONSTRUCTION	0:00:00	7:49:00	30.57	TON			
8/24/15	1876082459	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	9:32:00	31.18	TON			
8/24/15	1876082464	P: TRUCK CITY	WC30T,WYSER CONSTRUCTION	0:00:00	9:58:00	32.75	TON	R		
8/24/15	1876082485	P: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	10:57:00	11:15:00	31.56	TON	R		
8/24/15	1876082489	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	11:33:00	31.98	TON			
8/24/15	1876082491	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	11:47:00	31.22	TON			
8/24/15	1876082509	P: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	13:00:00	32.72	TON	R		
8/24/15	1876082516	P: TRUCK CITY	WC30T,WYSER CONSTRUCTION	0:00:00	13:29:00	30.44	TON			
8/24/15	1876082520	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	13:44:00	31.97	TON			
8/24/15	1876082526	P: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	10:57:00	15:14:00	25.51	TON			
8/25/15	1876082529	P: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	7:07:00	31.07	TON			
8/25/15	1876082530	P: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	7:09:00	28.74	TON			
8/25/15	1876082531	P: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	7:19:00	30.93	TON			
8/25/15	1876082532	P: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:33:00	30.22	TON			
8/26/15	1876082561	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	7:24:00	30.07	TON			
8/26/15	1876082562	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:37:00	31.08	TON			
8/26/15	1876082564	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	7:49:00	32.71	TON			
8/26/15	1876082569	P:76: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	8:04:00	30.70	TON			
8/27/15	1876082655	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	7:28:00	30.85	TON			
8/27/15	1876082657	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:40:00	31.03	TON			
8/27/15	1876082659	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	7:52:00	35.09	TON	R		
8/27/15	1876082663	P:76: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	8:19:00	32.90	TON	R		
8/28/15	1876082678	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	7:34:00	32.64	TON			
8/28/15	1876082679	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:46:00	32.40	TON			
8/28/15	1876082681	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	7:56:00	36.37	TON	R		
8/28/15	1876082683	P:76: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	8:07:00	33.43	TON	R		

Date TicketNo Delivery Address Vehicle TimeIn Ticket 8/28/15 1876082688 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 10:02 8/28/15 1876082693 P:76: TRUCK CITY LL4T,L&L TRANSPORT 12:17:00 12:18 8/31/15 1876082701 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:27 8/31/15 1876082702 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:37 8/31/15 1876082706 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 8/31/15 1876082729 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:51 9/1/15 1876082777 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:47 9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0			h	а	V 0
8/28/15 1876082693 P:76: TRUCK CITY LL4T,L&L TRANSPORT 12:17:00 12:18 8/31/15 1876082701 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:27 8/31/15 1876082702 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:37 8/31/15 1876082706 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 8/31/15 1876082729 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:51 9/1/15 1876082777 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:40 9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/2/15 1876082832 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:30 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:40 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025	Time Qty	Unit	i p	s h	i d
8/31/15 1876082701 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:27 8/31/15 1876082702 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:37 8/31/15 1876082706 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 8/31/15 1876082729 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:51 9/1/15 1876082777 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:40 9/2/15 1876082778 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:47 9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025<	::00 32.06	TON			
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8/31/15 1876082706 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 8/31/15 1876082729 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:51 9/1/15 1876082777 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:40 9/1/15 1876082778 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:47 9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/2/15 1876082832 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 8:06 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:40 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 32.71	TON			
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9/1/15 1876082777 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:40 9/1/15 1876082778 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:47 9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/2/15 1876082832 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 8:06 9/8/15 1876083021 P:76: TRUCK CITY 2&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 33.19	TON	R		
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9/2/15 1876082831 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:53 9/2/15 1876082832 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 8:06 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 29.08	TON			
9/2/15 1876082832 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 8:06 9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 28.62	TON			
9/8/15 1876083021 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:30 9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 32.16	TON			
9/8/15 1876083022 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:40 9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 33.92	TON			
9/8/15 1876083024 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:48 9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 33.41	TON			
9/8/15 1876083025 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 8:06	:00 39.25	TON	R		
	:00 31.96	TON			
	:00 35.95	TON	R		
9/9/15 1876083075 P:76: TRUCK CITY 1876-1,EVERETT SOIL GENERIC 0:00:00 7:04	:00 32.97	TON	R		
9/9/15 1876083076 P:76: TRUCK CITY 1876-2,EVERETT SOIL GENERIC 0:00:00 7:05	:00 29.13	TON			
9/9/15 1876083077 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:15	:00 31.60	TON			
9/9/15 1876083078 P:76: TRUCK CITY Z&S7,Z&S TRUCKING 0:00:00 7:28	:00 31.91	TON			
9/17/15 1876083537 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 7:50:	:00 29.91	TON			
9/17/15 1876083543 P:76: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 8:04	:00 28.56	TON			
9/17/15 1876083546 P:76: TRUCK CITY 1876-5,EVERETT SOIL GENERIC 0:00:00 8:12	:00 24.78	TON			
9/17/15 1876083556 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 9:51:	:00 30.34	TON			
9/17/15 1876083558 P:76: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 10:02	:00 37.94	TON	R		
9/17/15 1876083562 P:76: TRUCK CITY 1876-5,EVERETT SOIL GENERIC 0:00:00 10:12	:00 29.08	TON			
9/17/15 1876083580 P:76: TRUCK CITY LL4T,L&L TRANSPORT 0:00:00 11:54	:00 32.66	TON			
9/17/15 1876083582 P:76: TRUCK CITY 1876-3,EVERETT SOIL GENERIC 0:00:00 12:04	:00 34.74	TON	R		

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
9/17/15	1876083585	P:76: TRUCK CITY	1876-5,EVERETT SOIL GENERIC	0:00:00	12:11:00	30.96	TON			
9/17/15	1876083606	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	14:09:00	28.48	TON			
9/17/15	1876083609	P:76: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	14:14:00	32.70	TON			
9/17/15	1876083614	P:76: TRUCK CITY	1876-5,EVERETT SOIL GENERIC	0:00:00	14:20:00	29.70	TON			
9/18/15	1876083624	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	8:01:00	30.20	TON			
9/18/15	1876083625	P:76: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	8:09:00	31.73	TON			
9/18/15	1876083627	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:18:00	29.30	TON			
9/18/15	1876083628	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	8:30:00	31.68	TON			
9/18/15	1876083636	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	9:57:00	31.01	TON			
9/18/15	1876083641	P:76: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	10:10:00	31.29	TON			
9/18/15	1876083645	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:26:00	29.11	TON			
9/18/15	1876083656	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	10:50:00	30.39	TON			
9/18/15	1876083668	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	11:55:00	28.11	TON			
9/18/15	1876083672	P:76: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	12:10:00	30.97	TON			
9/18/15	1876083679	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	12:31:00	31.69	TON			
9/18/15	1876083685	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	12:48:00	30.36	TON			
9/18/15	1876083692	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	14:02:00	28.64	TON			
9/18/15	1876083695	P:76: TRUCK CITY	1876-2,EVERETT SOIL GENERIC	0:00:00	14:15:00	33.89	TON	R		
9/18/15	1876083701	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	15:07:00	28.83	TON			
9/21/15	1876083710	P:76: TRUCK CITY	1876-3,EVERETT SOIL GENERIC	0:00:00	8:05:00	24.51	TON			
9/21/15	1876083712	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:16:00	27.37	TON			
9/21/15	1876083716	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	8:28:00	28.40	TON			
9/21/15	1876083739	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:31:00	31.68	TON			
9/21/15	1876083742	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	10:38:00	29.49	TON			
9/21/15	1876083767	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	12:32:00	30.46	TON			
9/21/15	1876083770	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	12:42:00	29.75	TON			

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
9/21/15	1876083785	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	14:45:00	30.35	TON			
9/22/15	1876083792	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	7:57:00	27.93	TON			
9/22/15	1876083794	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:11:00	30.77	TON			
9/22/15	1876083795	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	8:17:00	28.51	TON			
9/22/15	1876083797	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	10:13:00	26.16	TON			
9/22/15	1876083798	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:18:00	30.20	TON			
9/22/15	1876083799	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	10:34:00	30.43	TON			
9/22/15	1876083826	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	12:08:00	28.51	TON			
9/22/15	1876083827	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	12:21:00	29.19	TON			
9/22/15	1876083828	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	12:31:00	29.00	TON			
9/22/15	1876083840	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	14:16:00	28.44	TON			
9/22/15	1876083841	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	14:29:00	30.34	TON			
9/23/15	1876083844	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	7:58:00	29.97	TON			
9/23/15	1876083845	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	9:57:00	31.07	TON			
9/23/15	1876083857	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	11:53:00	30.24	TON			
9/23/15	1876083870	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	13:57:00	27.00	TON			
9/30/15	1876084048	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	8:19:00	25.42	TON			
9/30/15	1876084049	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:26:00	27.82	TON			
9/30/15	1876084051	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	9:08:00	27.90	TON			
9/30/15	1876084054	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	10:18:00	26.61	TON			
9/30/15	1876084055	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:33:00	31.81	TON			
9/30/15	1876084060	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	11:07:00	31.57	TON			
9/30/15	1876084071	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	12:24:00	27.43	TON			
9/30/15	1876084077	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	13:01:00	31.26	TON			
9/30/15	1876084083	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	13:48:00	29.88	TON			
9/30/15	1876084091	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	14:27:00	31.44	TON			

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Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	i p	s h	i d
9/30/15	1876084103	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	15:09:00	31.52	TON			
10/1/15	1876084106	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:17:00	29.79	TON			
10/1/15	1876084107	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	8:27:00	30.25	TON			
10/1/15	1876084108	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	8:37:00	28.77	TON			
10/1/15	1876084116	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:21:00	29.68	TON			
10/1/15	1876084119	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	10:30:00	29.75	TON			
10/1/15	1876084120	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	10:37:00	30.82	TON			
10/1/15	1876084137	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	12:31:00	31.46	TON			
10/1/15	1876084138	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	12:39:00	30.33	TON			
10/1/15	1876084139	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	12:52:00	30.58	TON			
10/1/15	1876084149	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	14:39:00	30.03	TON			
10/1/15	1876084150	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	14:50:00	29.81	TON			
10/1/15	1876084152	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	15:11:00	30.82	TON			
10/2/15	1876084153	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	8:10:00	25.29	TON			
10/2/15	1876084156	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	10:16:00	26.78	TON			
10/2/15	1876084163	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	12:30:00	28.80	TON			
10/2/15	1876084172	P:76: TRUCK CITY	1876-1,EVERETT SOIL GENERIC	0:00:00	14:35:00	26.25	TON			
10/2/15	1876084173	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	15:00:00	29.69	TON			
10/5/15	1876084174	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	8:17:00	32.60	TON			
10/5/15	1876084175	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	8:35:00	30.58	TON			
10/5/15	1876084176	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	10:17:00	29.99	TON			
10/5/15	1876084177	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	10:42:00	30.48	TON			
10/5/15	1876084178	P:76: TRUCK CITY	LL4T,L&L TRANSPORT	0:00:00	12:21:00	31.17	TON			
10/5/15	1876084180	P:76: TRUCK CITY	Z&S7,Z&S TRUCKING	0:00:00	12:53:00	28.73	TON			
Product To Order Tota Customer	als 147				Qty Qty Qty	4,492.6 4,492.6 4,492.6	2 TO	N		

Date	TicketNo	Delivery Address	Vehicle	Timeln	TicketTime	Qty	Unit	S h i p	C a s h	V o i d
Grand Tot	tal	147			Qty	4,492.62	2 TON			

APPENDIX K

BACKFILL SOURCE EVALUATION AND CLEAN SOIL
STATEMENT
SUMMARY OF IMPORTED MATERIALS



0ct 12, 15 10: 56: 33 BIG ROCK PIT
Customer = WYSER
Weight shown in TN
Outbound Loads Only
Both Sales & Purchases
From Date Jun 01,15 to Oct 12,15

Page

Materi al	Loads	Weight Out	Pcs Out	Sales of Materials	Sales of Cartage
W//CED	WA/CED				
WYSER	WYSER	CONSTRUCTI ON	CO., INC		
DF2- asphalt/concre	ete 30	843. 6	30		0. 00
DF3- concrete with	rebar 4	106. 7	4		0.00
GBASE2 - import	4	121. 8	4		0.00
PITRUN -import	230	7063.0	230		
SubTotal :	268	8135.0	268		
TOTAL:	268	8135. 0	268		



SUBMITTAL No. 5

TO Maul Foster Alongi **ATTN** Yen Vy Van 206.858.7618

DATE 8/6/15 PROJECT Truck City PROJECT NO SKG-15-1427 NUMBER OF PAGES

FAX

PHONE

FROM Darren Ness

CC

SEND VIA Electronic Mail

QTY	DESCRIPTION	ORIGINAL	COPY	FOR APPROVAL	INFORMATION & LISE	COMMENT & REVIEW	REQUEST FOR SERVICE	PER YOUR REQUEST
1	Skagit Aggregates – Notarized Letter			Χ				
1	Skagit Aggregates – Analytical Report			Χ				

NOTES

Enclosed are the notarized letter and analytical report for structural fill at Skagit Aggregates.

The documents accompanying this telecopy transmission contain confidential information belonging to the sender, which is legally privileged. The information is intended only for the use of the individual(s) or entity named above. If you are not the intended recipient, you are hereby notified than any disclosure, copying, distribution or the taking of any action in reliance on the contents of this telecopied information is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone at the number listed below to arrange for return of the original documents to us. Thank you.

Skagit Aggregates, LLC owns and operates a pit located at 14107 SR 9, formerly known as the Tennyson Pit.

The land we are currently mining on was farmland converted to a gravel pit in the mid 2000's.

The material is native ground and has never had any contamination.

Signature Scheral Manager Date 7/31/2015

State of Washington
County of Skagit

Subscribed and sworn to (or Affirmed) before me on this $\frac{3/54}{}$ day of

July , 20/5, by Steven D. Dall . Proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

PUBLIC 12-7-2016 SEATO F WASHING

Signature Line J. White



August 5, 2015

Mr. Darren Ness Wyser Construction 19015 109th Ave SE, Snohomish, WA 98296

Dear Mr. Ness,

On July 31st, 1 sample was received by our laboratory and assigned our laboratory project number EV15070162. The project was identified as your Truck City. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan

Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Wyser Construction

Wyser Construction DATE: 8/5/2015 19015 109th Ave SE, ALS JOB#: EV15070

19015 109th Ave SE, ALS JOB#: EV15070162 Snohomish, WA 98296 ALS SAMPLE#: EV15070162-01

CLIENT CONTACT: Darren Ness DATE RECEIVED: 07/31/2015

CLIENT PROJECT: Truck City COLLECTION DATE: 7/28/2015 12:00:00 PM

CLIENT SAMPLE ID Skagit AGG WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS AN Date	IALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	08/01/2015	PAB
Benzene	EPA-8021	U	0.030	1	MG/KG	08/01/2015	PAB
Toluene	EPA-8021	U	0.050	1	MG/KG	08/01/2015	PAB
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	08/01/2015	PAB
Xylenes	EPA-8021	U	0.20	1	MG/KG	08/01/2015	PAB
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	07/31/2015	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	07/31/2015	EBS
Arsenic	EPA-6020	8.5	1.0	5	MG/KG	08/05/2015	RAL
Lead	EPA-6020	8.1	0.50	5	MG/KG	08/05/2015	RAL

			ANALYSIS ANALYSIS DATE BY	
SURROGATE	METHOD	%REC		
TFT	NWTPH-GX	114	08/01/2015 PAB	
TFT	EPA-8021	100	08/01/2015 PAB	
C25	NWTPH-DX	108	07/31/2015 EBS	

U - Analyte analyzed for but not detected at level above reporting limit.

ALS Group USA, Corp



CERTIFICATE OF ANALYSIS

CLIENT: **Wyser Construction**

DATE: 8/5/2015 19015 109th Ave SE, ALS SDG#: EV15070162

Snohomish, WA 98296 WDOE ACCREDITATION: C601

CLIENT CONTACT: Darren Ness **CLIENT PROJECT:** Truck City

LABORATORY BLANK RESULTS

MBG-073015S - Batch 95793 - Soil by NWTPH-GX

					REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY	
TPH-Volatile Range	NWTPH-GX	U		MG/KG	3.0	07/30/2015	DLC	

U - Analyte analyzed for but not detected at level above reporting limit.

MB-073015S - Batch 95793 - Soil by EPA-8021

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Benzene	EPA-8021	U		MG/KG	0.030	07/30/2015	DLC
Toluene	EPA-8021	U		MG/KG	0.050	07/30/2015	DLC
Ethylbenzene	EPA-8021	U		MG/KG	0.050	07/30/2015	DLC
Xylenes	EPA-8021	U		MG/KG	0.20	07/30/2015	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-073015S - Batch 95837 - Soil by NWTPH-DX

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
TPH-Diesel Range	NWTPH-DX	U		MG/KG	25	07/30/2015	EBS
TPH-Oil Range	NWTPH-DX	U		MG/KG	50	07/30/2015	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-080515S - Batch 95908 - Soil by EPA-6020

					REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	QUAL	UNITS	LIMITS	DATE	BY
Arsenic	EPA-6020	U		MG/KG	0.20	08/05/2015	RAL
Lead	EPA-6020	U		MG/KG	0.10	08/05/2015	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Wyser Construction

19015 109th Ave SE,

Snohomish, WA 98296

ALS SDG#:

8/5/2015 EV15070162

WDOE ACCREDITATION:

C601

DATE:

CLIENT CONTACT: CLIENT PROJECT: Darren Ness Truck City

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 95793 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS Date	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	86.9		07/30/2015	DLC
TPH-Volatile Range - BSD	NWTPH-GX	85.3	2	07/30/2015	DLC

ALS Test Batch ID: 95793 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS Date	ANALYSIS BY
Benzene - BS	EPA-8021	84.0		07/30/2015	DLC
Benzene - BSD	EPA-8021	84.0	0	07/30/2015	DLC
Toluene - BS	EPA-8021	85.6		07/30/2015	DLC
Toluene - BSD	EPA-8021	85.6	0	07/30/2015	DLC
Ethylbenzene - BS	EPA-8021	86.3		07/30/2015	DLC
Ethylbenzene - BSD	EPA-8021	86.7	0	07/30/2015	DLC
Xylenes - BS	EPA-8021	88.0		07/30/2015	DLC
Xylenes - BSD	EPA-8021	89.1	1	07/30/2015	DLC

ALS Test Batch ID: 95837 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102		07/30/2015	EBS
TPH-Diesel Range - BSD	NWTPH-DX	102	0	07/30/2015	EBS

ALS Test Batch ID: 95908 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD QUAL		ALYSIS Date	ANALYSIS BY
Arsenic - BS	EPA-6020	98.0		08/	/05/2015	RAL
Arsenic - BSD	EPA-6020	105	7	08/	/05/2015	RAL
Lead - BS	EPA-6020	98.9		08/	/05/2015	RAL
Lead - BSD	EPA-6020	106	7	08/	/05/2015	RAL

APPROVED BY

Laboratory Director

8620 Holly Drive, Strite 100	100				<u>3</u>	Chain Of Custody/	ე გ	Sust	(po	>					L	ALS Job#	#qo	(Laboratory Use Only)	ry Use Or	(<u>Ş</u>	
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Organic, Metals & Inorganic Analysis

Organic, Metals & Inorganic Analysis

OTHER:

Searcher

Fuels & Hydrocarbon Analysis

Specify:

Fuels & Hydrocarbon Analysis

Searcher

Fuels & Hydrocarbon Analysis Standard SIGNATURES (Name, Company Date, Jime):

1. Relinquished By:

*Turnaround request less than standard may incur Rush Charges

2. Relinquished By: _ Received By:_

Received By:_

APPENDIX L COMPACTION TESTING REPORTS





phone: (360) 733.7318 toll free: (888) 251.5276

fax: (360) 733.7418

Josh Neyman

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD001

PERMIT #: DATE: 8/18/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1 **INSPECTOR:**

CONTRACTOR: Wyser Construction Co.

GEOTEST

Compaction Of: Former Tank Nest - Backfill Area

Field Data:

		Depth/	DT/	Wet	Field	Dry		Comp	action	
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9	%	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	N End of Tank Nest	-2	8	118.2	3.3	114.4	1	86	85	Р
2	S End of Tank Nest	-2	8	126.7	3.5	121.9	1	91	85	Р

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-2207A	PGSw/G	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler 3430/19500 M/D Standard Count: 625/1809

Comments: GeoTest was on site as requested to provide compaction testing at the above locations. The contractor had backfilled the tank nest area to 2' below subgrade at the time of GeoTest's arrival. A front-loading backhoe and a tracked excavator were used to wheel roll and bucket-tamp the structural fill into place.

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fax: (360) 733.7418

15-0509

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #:

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD002

PERMIT #: DATE: 8/24/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1

CONTRACTOR: Wyser Construction Co. INSPECTOR: Josh Neyman

Compaction Of: Potholing for Compaction at Depth at Former Tank Nest Backfill Area

Field Data:

		Depth/	DT/	Wet	Field	Dry		Comp	action	
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9	%	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	N End of Tank Nest	-4	12	133.7	6.7	125.3	1	94	85	Р
2	S End of Tank Nest	-4	12	131.2	6.1	123.7	1	92	85	Р

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-2207A	PGS w/Gravel	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler 3440 / 37531 M/D Standard Count: 625/2381

Comments: GeoTest was on site as requested to provide compaction testing at the above locations. The contractor had backfilled the tank nest area to 2' below subgrade at the time of GeoTest's arrival. A front-loading backhoe and a tracked excavator were used to wheel roll and bucket-tamp the structural fill into place.

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Reviewed by



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fax: (360) 733.7418

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD003

PERMIT #: DATE: 9/10/2015

CLIENT:Skagit CountyEngineering & Public WorksPAGE #:1 of 1CONTRACTOR:Wyser Construction Co.INSPECTOR:Zach Click

Compaction Of: Backfill in Truck Scale Area

Field Data:

		Depth/	DT/	Wet	Field	Dry		Comp	action	
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	North End of Truck Scale	-8	DT/12	119.2	4.5	114.1	1	85	85	Р
2	South End of Truck Scale	-8	DT/12	122.0	5.0	116.2	1	87	85	Р

Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-2207A	PGS w/ Gravel	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3440P/60559 M/D Standard Count: 659/2781

Comments: GeoTest was on site as requested by the client to perform compaction testing for the above locations.

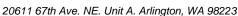
While GeoTest was on site the contractor was placing approximately 2' loose lifts of fill and mixing with ORC pellets. The contractor bucket packed and drove over the area with a loaded bulldozer as a compactive method.

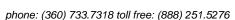
All tests attained the required compaction.

COPIES: Wyser Construction Co. Skagit County Engineering & Public Works Estvold, Marc L. AIA Howard Consulting,

LLC

Reviewed by





INSPECTOR:



fax: (360) 733.7418

Sean Rogerson

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD004

PERMIT #: DATE: 9/11/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1

CONTRACTOR: Wyser Construction Co.

Compaction Of: Structural Fill at Remediation Excavation

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	100' SE of NW Corner of Excavation	-8	DT/12	131.4	7.5	122.2	1	91	85	Р
2	80' E of NW Corner of Excavation	-8	DT/12	132.7	6.2	124.9	1	93	85	Р
3	45' SE of NW Corner of Excavation	-6	DT/12	131.6	5.3	125.0	1	93	85	Р
4	18' SE of NW Corner of Excavation	-6	DT/12	123.3	5.3	117.1	1	88	85	Р
5	30' E of NW Corner of Excavation (Scale Area)	TOG	DT/12	119.9	4.8	114.4	1	86	85	Р

Lab Sample	Soil Type	Source	Max. Dry Density	Optimum Moisture	Retained On #4	Test
#			(pcf)	(%)	(%)	Method
1-2207A	PGS w/Gravel	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler 3440P / 60560 M/D Standard Count: 677 / 2545

Comments: TOG - Top of Grade

GeoTest was on site as requested by the client to perform compaction testing for the above locations.

While GeoTest was on site the contractor was placing approximately 2' loose lifts of fill and mixing with ORC pellets. The contractor drove over the area with a loaded excavator as a compaction method.

All tests attained the required compaction.

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LLC

Reviewed by



phone: (360) 733.7318 toll free: (888) 251.5276

INSPECTOR:

fax: (360) 733.7418

Justin Symonds

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

3216 Old Highway 99 South, Mount Vernon, WA ADDRESS: REPORT #: FD005

PERMIT #: DATE: 9/29/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1

CONTRACTOR: Wyser Construction Co.

Compaction Of: Structural Fill at Remediation Excavation

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9,	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	East Section of Excavation	-6.5	DT/12	126.6	5.5	120.0	1	90	85	Р
2	Northwest Section of Excavation	-7.0	DT/12	131.5	4.9	125.4	1	94	85	Р

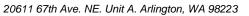
Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-2207A	PGS w/gravel	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3440/22281 M/D Standard Count: 592/2007

Comments: GeoTest was on site as requested by the client to perform compaction testing. The contractor was placing approximately 2' loose lifts of fill and mixing with ORC pellets. The contractor drove over the area with a loaded excavator as a compaction method.

All tests attained the required compaction. The contractor was notified of GeoTest's results before leaving the site.

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fax: (360) 733.7418

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action

JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD006

9/30/2015

PERMIT #: **CLIENT:**

Skagit County Engineering & Public Works

1 of 2

CONTRACTOR: Wyser Construction Co.

INSPECTOR:

DATE:

PAGE #:

Ben Fox

Compaction Of: Structural Fill for Remediation Excavation

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9,	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	52' W and 38' N of SE corner of excavation	-7	DT/12	132.2	5.1	125.8	1	94	85	Р
2	65' W and 37' N of SE corner of excavation	-7	DT/12	131.1	5.1	124.7	1	93	85	Р
3	69' E and 12' S of NW corner of excavation	-5	DT/12	132.8	4.7	126.8	2	85	85	Р
4	24' E and 14' S of NW corner of excavation	-4	DT/12	135.4	5.2	128.8	2	86	85	Р

Lab			Max. Dry	Optimum	Retained	_ ,
Sample #	Soil Type	Source	Density (pcf)	Moisture (%)	On #4 (%)	Test Method
1-2207A	PGS w/Gravel	Skagit Agg Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-2246A	Structural Fill	On-Site Crushed	150.0	4.6	57	ASTM D1557/D4718
3-			0.0			None

Gauge Make/Model/Serial#: Troxler 3440 / 29778 M/D Standard Count: 673 / 1952

Comments: GeoTest was on-site as requested to perform density material on the structural fill at the above referenced locations. All tests attained the required compaction. Elevations and locations are approximate.

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fax: (360) 733.7418

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT:Truck City Site Remedial ActionJOB #:15-0509CLIENT:Skagit County Engineering & Public WorksREPORT #:FD006CONTRACTOR:Wyser Construction Co.PAGE #:2 of 2

While on-site, GeoTest observed the wheel rolling of both the imported fill from the Big Rock Pit (middle to east areas of excavation) and the on-site crushed material (west area of excavation) using a loaded Case 621E loader. Imported fill was being placed near the middle of the excavation in approximate one to two foot lifts.

A photo of the middle and east areas of the excavation, with imported fill from the Big Rock Pit, after wheel rolling.



A photo of the west area of excavation, with on-site crushed being used as Structural Fill, during wheel rolling.





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INSPECTOR:

fax: (360) 733.7418

Noah Griffin

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD007

PERMIT #: DATE: 10/1/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1

CONTRACTOR: Wyser Construction Co.

Compaction Of: Structural Fill for Remediation Excavation

GEOTEST

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	100' SE of NW Site Corner	-1	DT/12	137.1	5.6	129.9	1	97	85	Р
2	100' E of NW Corner 30'S	TOG	DT/12	130.6	7.0	122.1	1	91	85	Р

Lab			Max. Dry	Optimum	Retained	
Sample	Soil Type	Source	Density	Moisture	On #4	Test
#			(pcf)	(%)	(%)	Method
1-2207A	PGS w/G	Skagit Agg - Big Rock Pit (M272)	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Instrotek/3500/2081 M/D Standard Count: 471/3135

Comments: TOG - Top of Grade

GeoTest was onsite to test compaction on structural backfill. All locations and elevations are approximate. Material was compacted with a large single drum roller. All tests attained required compaction. Contractor was notified of GeoTest's results before departure.

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INSPECTOR:

fax: (360) 733.7418

Justin Symonds

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD008

PERMIT #: DATE: 10/6/2015

CLIENT: PAGE #: Skagit County Engineering & Public Works 1 of 1

CONTRACTOR: Wyser Construction Co.

Compaction Of: Structural Fill for Remediation Excavation

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	9,	6	Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	100' NW of SE Site Corner	-3	DT/12	132.9	4.6	127.0	1	95	85	Р
2	50' NW of SE Site Corner	-4	DT/12	133.7	4.1	128.5	1	96	85	Р

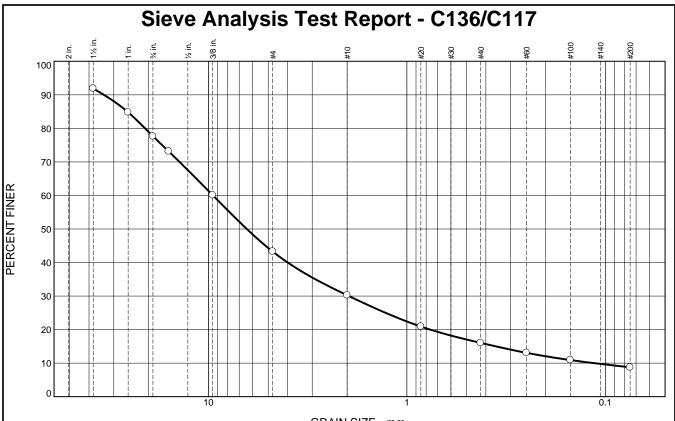
Lab Sample #	Soil Type	Source	Max. Dry Density (pcf)	Optimum Moisture (%)	Retained On #4 (%)	Test Method
1-2207A	PGS w/gravel	Skagit Big Rock Pit (M272)	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3440P/62856 M/D Standard Count: 653/2410

Comments: GeoTest was onsite to test compaction on structural backfill. All locations and elevations were approximate. Material was compacted with a large single drum roller.

All tests attained required compaction. Contractor was notified of GeoTest's results before departure.

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GRAIN SIZE - mm.

% +3"	% G	ravel	% Sand				
% +3	Coarse	Fine	Coarse	Medium	Fine	Silt	
		35	13	14	7	9	

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1-1/2"	92		
1"	85		
3/4"	78		
5/8"	73		
3/8"	60		
#4	43		
#10	30		
#20	21		
#40	16		
#60	13		
#100	11		
#200	8.8		

			,				
Structural Fill	<u>Material</u>	<u>Description</u>					
PL=	Atterbe	erg Limits	PI=				
D ₉₀ = 33.6454 D ₅₀ = 6.4085 D ₁₀ = 0.1140		25.6144 1.9597 83.25	D ₆₀ = 9.4907 D ₁₅ = 0.3566 C _c = 3.55				
USCS=	Class	sification AASHTO=					
Remarks Specification: Section 02 61 13 - 2.1 Backfill A-2 (Clean overburden soil and/or sotckpiled soil)							

Date: 9/4/15

(no specification provided)

Location: Existing On-Site Crushed - sampled from site stockpile **Sample Number:** 2246A



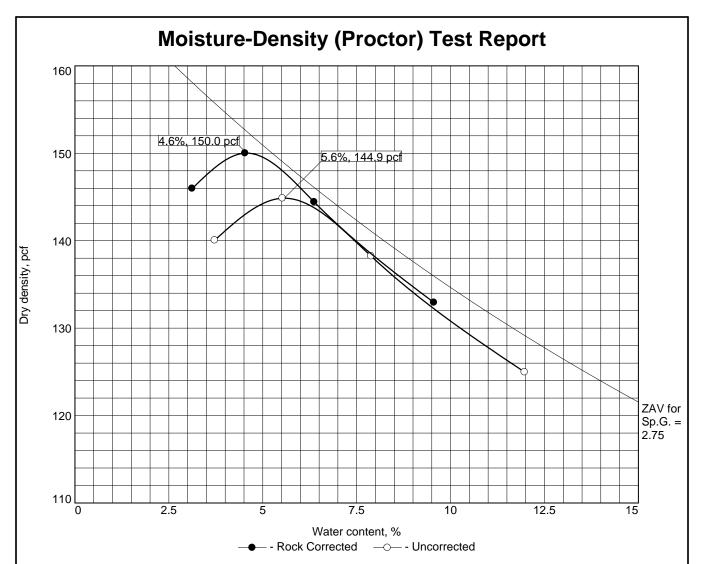
741 Marine Drive Bellingham, WA 98225 www.GeoTest-Inc.com

Client: Skagit County **Project:** Truck City

3216 Old Highway 99 South Mount Vernon, Wa 98273

SP002 **Project No:** 15-0509 **Figure**

Tested By: MC Checked By: DL



Test specification: ASTM D 1557-12 Method C Modified ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/	Classification		Nat.	Nat. Moist.	5	 PI	% >	% <
Depth	USCS	AASHTO	Sp.G.		 PI	3/4 in.	No.200	
						22	8.8	

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 150.0 pcf	144.9 pcf	Structural Fill
Optimum moisture = 4.6 %	5.6 %	
Project No. 15-0509 Client: Skagit County		Remarks:
Project: Truck City		SPG: assumed
3216 Old Highway 99 South Mount Vernon, Wa 98273	Date: 9-4-15	
Loc.: Existing On-Site Crushed - sampled from site stockpil	e Sample No.: 2246A	
Bellinghi	rine Drive m, WA 9822E soTest-Inc.com	Figure SP002

Tested By: MC Checked By: DL



phone: (360) 733.7318 toll free: (888) 251.5276

fax: (360) 733.7418

FIELD DENSITY/MOISTURE REPORT Nuclear Gauge * ASTM D6938

PROJECT: Truck City Site Remedial Action JOB #: 15-0509

ADDRESS: 3216 Old Highway 99 South, Mount Vernon, WA REPORT #: FD009

PERMIT #: DATE: 10/9/2015

CLIENT: Skagit County Engineering & Public Works PAGE #: 1 of 1 CONTRACTOR: Wyser Construction Co. **INSPECTOR:** Zach Click

Compaction Of: Structural Fill for Remediation Excavation

Field Data:

		Depth/	DT/	Wet	Field	Dry		Compaction		
Test	Location	Elev	BS	Density	Moisture	Density	Lab	%		Pass/
#		(ft)	(in)	(pcf)	(%)	(pcf)	#	Attained	Required	Fail
1	25' S. of Old Truck Wash Building	-2	DT/12	131.3	5.0	125.1	1	93	85	Р
2	45' S. of Old Truck Wash Building	-1	DT/12	131.0	4.9	124.9	1	93	85	Р
3	35' S. of Old Truck Wash Building	TOG	DT/12	132.0	4.7	126.1	1	94	85	Р

Lab Sample	Soil Type	Source	Max. Dry Density	Optimum Moisture	Retained On #4	Test
#	,,,,,,		(pcf)	(%)	(%)	Method
1-2207A	PGS w/ Gravel	Skagit Big Rock Pit	133.8	6.9	21	ASTM D1557/D4718
2-			0.0			None
3-			0.0			None

Gauge Make/Model/Serial#: Troxler/3440P/62856 M/D Standard Count: 661/2415

Comments: TOG - Top of Grade

GeoTest was onsite as requested by the client to perform compaction testing for the above locations.

All locations and elevations were approximate and all tests attained the required compaction. The contractor was notified of GeoTest's results on site.

COPIES: Wyser Construction Co. Skagit County Engineering & Public Works Estvold, Marc L. AIA Howard Consulting,

Kevin Richardson
Reviewed by

APPENDIX M BIOREMEDIATION PRODUCT DOCUMENTATION





ORC Advanced® Pellets Technical Specification

ORC Advanced Pellets are a dust-minimizing, dry application, pelletized form of the widely-used ORC Advanced controlled-release oxygen compound.

They are designed specifically for the treatment of dissolved-phase petroleum hydrocarbons through direct application into excavations, petroleum storage tank pits, trenches and backfill.

Oxygen is released from ORC Advanced for a period of 9 to 12 months in situ.



 $CaO(OH)_2 + H_2O \rightarrow \frac{1}{2}O_2 + Ca(OH)_2 + H_2O$

Example of ORC Advanced Pellets

ORC Advanced is a formulation of calcium oxyhydroxide which, upon hydration, releases oxygen and forms simple calcium hydroxide and water.

For a list of treatable contaminants with the use of ORC Advanced, view the Range of Treatable Contaminants Guide.

Chemical Composition

- Calcium Oxyhydroxide
- Calcium Hydroxide
- Monopotassium Phosphate
- Ammonium Phosphate Dibasic

Properties

- Pellet size: 3-10 mm
- Contains micro-nutrients such as nitrogen, phosphorous, and potassium (N,P,K) which can be beneficial to aerobic biodegradation processes



ORC Advanced® Pellets Technical Specification

Storage and Handling Guidelines

Storage

Store in a cool, dry place out of direct sunlight

Store in original tightly closed container

Store in a well-ventilated place

Do not store near combustible materials

Store away from incompatible materials

Provide appropriate exhaust ventilation in places where dust is formed

Handling

Minimize dust generation and accumulation

Keep away from heat

Routine housekeeping should be instituted to ensure that dust does not accumulate on surfaces

Observe good industrial hygiene practices

Take precaution to avoid mixing with combustibles

Keep away from clothing and other combustible materials

Avoid contact with water and moisture

Avoid contact with eyes, skin, and clothing

Avoid prolonged exposure

Wear appropriate personal protective equipment

Applications

- In situ or ex situ out of the bag
- Direct application into open excavations, petroleum storage tank pits and trenches
- Direct application to contaminated backfill or contaminated soils
- Ex situ biopile applications (requires a source of hydration)

Health and Safety

Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection. Please review the Material Safety Data Sheet for additional storage, usage, and handling requirements here: <u>ORC Advanced SDS</u>.



APPENDIX N GROUNDWATER COMPLIANCE MONITORING PLAN



GROUNDWATER MONITORING PLAN

FORMER TRUCK CITY SITE 3216 OLD HIGHWAY 99 SOUTH MOUNT VERNON, WASHINGTON

Prepared for

SKAGIT COUNTY

MOUNT VERNON, WASHINGTON

March 30, 2016

Project No. 0714.03.01

M A U L FOSTER A L O N G I

Prepared by Maul Foster & Alongi, Inc. 1329 N State Street, Suite 301, Bellingham, WA 98225

GROUNDWATER MONITORING PLAN

FORMER TRUCK CITY SITE 3216 OLD HIGHWAY 99 SOUTH MOUNT VERNON, WASHINGTON

The material and data in this plan were prepared under the supervision and direction of the undersigned.

MAUL FOSTER & ALONGI, INC.

Yen-Vy Van, LHG Senior Hydrogeologist

Justin L. Clary, PE Principal Engineer

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ACRONYMS AND ABBREVIATIONS

AGI Applied Geotechnology, Inc.

bgs below ground surface the County Skagit County, Washington GMP groundwater monitoring plan

COI chemical of interest CUL cleanup level

Ecology Washington State Department of Ecology

ESA environmental site assessment
IHS indicator hazardous substance
LNAPL light nonaqueous-phase liquid
MFA Maul Foster & Alongi, Inc.

MTC Materials Testing & Consulting, Inc.

MTCA Model Toxics Control Act
PCS petroleum-contaminated soil

Plan remedial action plan and engineering design report

POC point of compliance RA remedial action

RI/FS remedial investigation and feasibility study

the Site 3216 Old Highway 99 S, Mount Vernon, Washington,

Ecology Facility Site No. 2673, Cleanup Site No. 5176,

Agreed Order 15 2 00056 2

TPH total petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

UST underground storage tank VOC volatile organic compound

WAC Washington Administrative Code

On behalf of Skagit County (the County), Maul Foster & Alongi, Inc. (MFA) has prepared this groundwater monitoring plan (GMP) to direct groundwater monitoring activities at the former Truck City Truck Stop facility, located at 3216 Old Highway 99 South, Mount Vernon, Skagit County, Washington, Washington State Department of Ecology (Ecology) Facility Site No. 2673, Cleanup Site ID: 5176, Agreed Order 15 2 00056 2 (Site) (see Figure 1-1). Prior to remedial action (RA) activities, the Site contained six buildings associated with the former commercial operations of the Truck City Truck Stop gas station, truck stop and truck wash, restaurant, and retail store. Five of the buildings—the contractor's staging shop, office space, truck wash building, retail store, and restaurant/café—were constructed in 1978. All buildings associated with the former Truck City Truck Stop operation were demolished and removed. Construction activities associated with the proposed Skagit County Jail and associated features are currently being conducted at the Site.

This GMP has been prepared to meet the groundwater monitoring requirements specified in the Ecology-approved Remedial Action Plan and Engineering Design Report (the Plan) (MFA, 2015) for cleanup actions at the Site. This GMP was developed in accordance with the monitoring requirements put forth in the Washington State Model Toxics Control Act (MTCA) (Washington Administrative Code [WAC] 173-340-410).

1.1 Purpose of Groundwater Monitoring Plan

The RA was completed in October 2015, and groundwater monitoring will be conducted at the Site. Post-RA actions, as described in the Plan, include groundwater compliance monitoring.

This GMP:

- Identifies existing wells in the monitoring network.
- Identifies sentry wells beyond the leading edge of the dissolved-phase contaminant plume to allow for monitoring of potential migration of contamination beyond the currently confirmed extent.
- Describes the cleanup levels (CULs) against which cleanup attainment will be measured.
- Provides guidelines and criteria for each stage of monitoring, including criteria for assessing compliance with CULs and monitoring frequency.
- Provides decision process diagrams identifying contingent actions to be implemented in response to noncompliance with CULs within the network of monitoring wells and the criteria for triggering these actions.
- Provides criteria for decommissioning monitoring wells.
- Defines requirements for terminating the monitoring program.

2.1 Site Description

The Site is located in section 32, township 34 north, range 4 east, of the Willamette Meridian (see Figure 1-1). The Site, an 8.01-acre tax parcel (parcel number P29546), is accessed from Old Highway 99 South, adjacent to the west property boundary (see Figure 2-1). Its surface topography is generally flat.

2.2 Site History and Operations

The Site was operated as the Truck City Truck Stop facility, which contained gas and diesel pump islands, fueling facilities, a truck wash, and a truck scale (weigh station). All commercial operations ceased in 2014.

The Site was developed by 1953 and operated as a truck stop and restaurant until the truck stop burned in 1976. The parcel was redeveloped to its current configuration in 1978, and operations did not significantly change until they ceased in or about January 2015. Several subsurface investigations were conducted at the Site between 1989 and 2014. Ecology completed an interim soil remedial cleanup action in 1993.

Investigations have been conducted on the Site since 1989 to assess potential petroleum hydrocarbon impacts related to the operation of the retail gasoline station. Applied Geotechnology, Inc. (AGI) conducted a hydrocarbon assessment of the Site in 1989. AGI advanced eight borings, to approximately 15 to 20 feet below ground surface (bgs), adjacent to the northern, southern, and eastern underground storage tank (UST) nests; gasoline and diesel pump islands; and truck wash area (see Figure 2-1). Six of the borings were completed as 2-inch-diameter monitoring wells. AGI concluded that soil and groundwater gasoline and diesel petroleum hydrocarbon contamination was present around the northern and southern UST nests, and the potential exists for off-site migration of these chemicals of interest (COIs). Detected concentrations of gasoline- and diesel-range total petroleum hydrocarbons (TPH) and associated petroleum fuel volatile organic compounds (VOCs), specifically benzene, toluene, and total xylenes, were above Ecology's current MTCA Method A CULs. Groundwater flow direction at the Site was assessed to be west to southwesterly (AGI, 1989).

Ecology conducted an interim action cleanup in 1993 (see Figure 2-1). Seven USTs, 5,000 gallons in capacity each and located in the northern and southern UST nests, were decommissioned and removed along with associated product lines. Two 500-gallon-capacity USTs, as well as a septic tank full of waste oil, encountered during the contaminated-soil-excavation activities were also removed. Ecology reported that, because the septic system had been used for waste-oil disposal and was connected to the parcel's storm drain system, the septic tank may be one of the contaminant sources at this parcel (Ecology, 1993). The interim action removed 6,244 cubic yards of contaminated soil and 89,991 gallons of contaminated water. Final confirmation samples from the stockpiled soil showed

detections of gasoline-range TPH below CULs, with residual diesel-range TPH concentrations above CULs.

In 2005, an unknown volume of diesel was spilled at the Site when a truck driver filling a rig allowed an unattended fueling nozzle to fall out of the tank during fueling activities. The spill spread to a ditch (known as Maddox Creek), which is located adjacent to and west of the Site and flows south parallel to Old Highway 99 South to Hickox Road (approximately 0.68 mile south of the Site). This spill went unreported until an Ecology Spills Team traced the source back to the Truck City parcel (Ecology, Environmental Report Tracking System No. 546209, 2005). Sheen was observed in Maddox Creek. Ecology retained NRC Environmental Services to clean up the spill. Absorbent booms and pads were placed in Maddox Creek. Subsequently, Materials Testing & Consulting, Inc. (MTC) conducted sediment sampling in Maddox Creek, in the vicinity of the Site, to assess whether residual contamination remained in Maddox Creek. Based on current data, sediments in Maddox Creek no longer appears to be impacted by releases at the Site.

MTC conducted an initial Phase II environmental site assessment (ESA) in February 2014 and a supplemental ESA in March 2014. Eleven borings were advanced, via a direct-push-probe drilling rig, to a maximum depth of 15 feet bgs. The borings were located in and outside the former excavation remediation area (see Figure 2-1). MTC concluded that impacted soil at concentrations above MTCA CULs for gasoline- and diesel-range TPH existed adjacent to the truck scale (MTC, 2014).

MFA conducted a remedial investigation and feasibility study (RI/FS) in August 2014 that focused on further characterization of the residual impacted areas at the Site, potential off-site migration of contaminants, and addressing data gaps (see Figure 2-2). The site investigation results and risk screening indicate that only TPH and selected VOCs are indicator hazardous substances (IHSs) in soil and groundwater. Exceedances of applicable CULs for these IHSs are localized in soil (depth and areal extent) as well as in groundwater (localized dissolved phase). Human exposure pathways were deemed complete for the identified IHSs in groundwater, while ecological exposure pathways were deemed incomplete.

Findings from MFA's collective previous investigations and recent subsurface investigations and from Ecology's interim soil RA indicate that historical operations related to the former USTs and gasoline pump islands were the sources of TPH and selected VOC soil and groundwater contamination beneath the Site. MFA also concluded that the lateral and vertical extent of the dissolved-phase TPH plume had been characterized as the result of the RI/FS (MFA, 2014). Monitoring wells installed adjacent west of the truck scale and downgradient of former USTs/former gasoline pump islands (along the western site boundary of the Truck City parcel) and near the south and southwestern areas of this parcel may serve as sentinel wells to the IHSs exhibited in the dissolved phase in groundwater.

The County and Ecology finalized the Prospective Purchaser Consent Decree in January 2015. The County became the formal owner of the Truck City parcel in February 2015.

As presented in the Plan, MFA proposed an RA involving soil excavation to remove residual petroleum-contaminated soil (PCS) and in situ bioremediation to address residual impacted saturated soil and contaminated groundwater (i.e., dissolved-phase petroleum hydrocarbons in groundwater).

2.3 Remedial Action

An RA was completed at the Site in October 2015. The primary elements of the RA were:

- Decommissioning the Site's four fuel-containing USTs and conducting a UST site assessment.
- Removal of the former truck scale.
- Removal of former fuel pump islands and associated product piping, in addition to the demolition of two free-standing canopies.
- Demolition of the former convenience store.
- Decommissioning of groundwater monitoring wells TC-3, TC-4, and TC-5.
- Completion of an asbestos-containing-materials abatement at the former convenience store, the contractor staging shop, the lodge/café, the truck wash, and the office building.
- Excavation and off-site disposal of tons of PCS.
- Construction dewatering to control groundwater inflow and prevent standing water in the bottom of the excavation.
- Construction dewatering fluids were treated using an on-site water treatment system, which included a 10,000-gallon Baker Tank, particulate filter units, and granular reactivated carbon vessels connected in series.
- Application of in situ treatment compounds Regenesis Oxygen Release Compound Advanced® activator during backfill of the excavation.
- Backfill of the excavation with clean import fill and overburden from the excavation that was deemed appropriate for reuse by laboratory analysis.

Further information associated with the RA is provided in the As Built Construction Complete Report (MFA, 2016). Figure 2-3 illustrates the extent of soil excavation and in situ bioremediation work as well as the wells that were decommissioned.

3 SITE CONDITIONS

Geology, hydrogeology, and environmental conditions of the Site are summarized below.

3.1 Geology and Hydrogeology

The Site and vicinity have been mapped as recent alluvium and artificial fill. Alluvium deposits encountered at the Site, at locations of investigation, consist of floodplain sequences ranging from fluvial silty sand and well-sorted sand, to silt with intervening clay. Fill, comprising sandy gravel to

gravelly silty sand, was generally present to approximately 3 to 5 feet bgs at the Site, except in the former UST nests, where soil remedial cleanup action by Ecology in 1993 overexcavated this area to approximately 9.5 feet bgs.

The matrix of the unconfined shallow aquifer appears to be silty sand. Depth to groundwater, encountered during subsurface exploration activities, was variable throughout the Site, ranging approximately from 3.5 to 9.5 feet bgs. The static water level at monitoring wells installed by MFA in July 2014, TC-1 through TC-6, ranged approximately from 5.80 to 6.45 feet bgs during the groundwater monitoring event conducted on July 18, 2014. The direction of groundwater migration at the Site during the July 2014 groundwater event, based on professionally surveyed elevations at monitoring wells TC-1 through TC-6, is generally to the south-southeast, with tangent to the west.

AGI reported a west-to-southwesterly groundwater flow direction at the Site during their investigation in October 1989, based on water levels measured from installed monitoring wells. Seasonal groundwater flow direction fluctuations are expected at the Site and vicinity because of the shallow depth to groundwater in the floodplain area. The local and regional discharge points in the area appear to be to the west-southwest, toward Britt Slough and the Skagit River. At their closest points, Britt Slough and the Skagit River are located approximately 0.5 mile and 1.5 miles, respectively, west of the Site. Maddox Creek, located west of the Site, flows south parallel to Old Highway 99 South, intersects at Hickox Road, and flows west from this intersection.

3.2 Residual Contamination

Residual contamination remained after completion of the interim RA; although the bulk of PCS was removed, saturated impacted groundwater remained below the excavation depth and laterally beyond the former excavation boundaries completed in 1993.

3.2.1 Indicator Hazardous Substances

Historical subsurface investigations and RIs conducted between 1989 and 2014 identified the following COIs in soil and groundwater at the Site: gasoline-, diesel-, and lube-oil-range TPH; petroleum-hydrocarbon-associated VOCs; arsenic; and lead; Some of these COIs are also confirmed as IHSs, which are defined as chemicals exceeding a CUL at one or more locations.

Soil and groundwater IHSs confirmed at the Site include:

- Gasoline-range TPH
- Diesel-range TPH
- Benzene
- Ethylbenzene
- Toluene
- Xylenes

3.2.2 Distribution of Indicator Hazardous Substances in Groundwater

Groundwater monitoring data from 1989 to 2014 were evaluated for each IHS to assess groundwater CUL exceedances at the Site. The MTCA Method A CULs for groundwater were established as the applicable CULs for the Site. The attached table presents a summary of groundwater analytical results based on MFA's groundwater monitoring event conducted in July 2014. Figure 3-1 shows the estimated extent of the dissolved-phase petroleum hydrocarbon plume at the Site.

Currently, IHS concentrations in groundwater outside the dissolved-phase plume boundary depicted in Figure 3-1 do not exceed CULs.

4 MONITORING PROGRAM

This section defines the groundwater monitoring program, including identification of the monitoring network, stages of monitoring, the sampling and analysis program, and a decision matrix for continuation or cessation of monitoring in each well or the need for implementation of additional RA(s).

4.1 Monitoring Objectives

The primary objectives of groundwater monitoring are to:

- Assess the effectiveness of the 2015 RA.
- Evaluate ongoing groundwater quality conditions.
- Evaluate compliance with MTCA Method A CULs.
- Evaluate the IHS concentration trends of the dissolved-phase plume (i.e., whether
 concentrations are declining, stable, or increasing) and whether the lateral extent has
 stabilized or has continued to migrate.

4.2 Point of Compliance

The point of compliance (POC) at the Site includes all monitoring wells designated within the monitoring network (see the table). To demonstrate that CULs are being met at the POC, sentry wells will be monitored. Sentry wells are designated for monitoring beyond the leading edge of the dissolved-phase plume. Detection of elevated concentrations of COIs in a sentry monitoring well may indicate that the dissolved-phase plume is migrating beyond the known extent of the plume and that additional actions may be warranted.

4.3 Groundwater Monitoring Network

To meet the groundwater monitoring requirements stipulated in WAC 173-340-410, quarterly groundwater monitoring activities will be conducted at the following types of wells: (1) a monitoring well located upgradient of the known dissolved-phase plume; (2) monitoring wells in the confirmed dissolved-phase plume; and (3) sentry monitoring wells located beyond the leading edge of the dissolved-phase plume (see Figure 3-1). Groundwater monitoring will be conducted at the following site-specific wells:

- Background well: TC-7
- **Dissolved-phase-plume monitoring wells:** TC-2R, TC-3R, TC-4R, and TC-5R
- **Sentry wells:** TC-1R and TC-6

Six replacement groundwater monitoring wells (TC-1R, TC-2R, TC-3R, TC-4R, TC-5R, and TC-7) are proposed for installation in and adjacent to the footprint of the PCS excavation and bioremediation, at inferred downgradient and upgradient locales, to evaluate the effectiveness of the RA and monitor the groundwater quality of this area.

The Ecology site manager authorized the locations of the proposed replacement monitoring wells on December 22, 2015 (Ecology, 2015). Figure 4-1 presents the locations of proposed wells with respect to the site features of the proposed Skagit County Jail. Replacement of the original wells is necessary, as some of them would interfere with the proposed retention pond and/or are projected to be in the pathway of a maintenance road to be constructed in the area.

Construction logs for monitoring wells TC-1 through TC-6, completed during the RI in July 2014, are included in Appendix A.

4.4 Sampling and Analysis

Groundwater monitoring will include measuring the presence and thickness of light nonaqueousphase liquid (LNAPL), water levels, and water quality parameters (e.g., dissolved oxygen, pH, temperature, specific conductance, and oxygen reduction potential); and collection and analysis of groundwater samples, which will be conducted in accordance with the methods and protocol outlined in the Sampling and Analysis Plan (see Appendix B).

Groundwater samples will be analyzed for IHSs, using the following analytical methods, or other comparable analytical methods deemed to be suitable alternatives and as approved for use by Ecology:

- Gasoline-range organics by Northwest Method NWTPH-Gx.
- Diesel-range organics by Northwest Method NWTPH-Dx.
- Petroleum-associated VOCs, specifically benzene, toluene, ethylbenzene, and xylenes, by U.S. Environmental Protection Agency (USEPA) Method 8260 or 8021.

To evaluate the biodegradation process at the Site, groundwater samples from two selected monitoring wells within the network will also be analyzed on a semiannual basis for the following geochemical parameters to prescreen for the presence of electron acceptors:

- Nitrate by USEPA 353.2
- Manganese by USEPA 6020A
- Ferrous iron by USEPA ApplEnvMic7-87-1536
- Sulfate by ASTM D516-02
- Methane by RSK 175

The following activities will be conducted during each groundwater monitoring event:

- Groundwater sample collection and analysis from each applicable monitoring well for evaluating compliance with CULs
- Water level measurements in each applicable monitoring well for evaluating hydraulic gradient trends
- Analysis of IHS concentration trends relative to associated CULs, and geochemical parameter monitoring to assess the efficacy of in situ bioremediation and evaluate the trend of biodegradation of IHSs

4.5 Quarterly Reporting

Quarterly groundwater monitoring reports will be prepared in accordance with Ecology reporting requirements (WAC 173-340-840(5)) and submitted within 60 days of receipt of final laboratory analytical results. Quarterly reports will provide a description of sampling methodologies and activities (including sampling frequency, laboratory containers/preservations, and field equipment), analytical data and analytical laboratory data reports and associated chains of custody, field measurements of groundwater quality parameters and groundwater levels, a discussion of analytical data trends, a comparison of analytical results to MTCA CULs, and data validation reports. Deviations from this GMP, if applicable, will be described and explained. All final, validated data will also be uploaded to Ecology's Environmental Information Management database within 30 days of receipt of validated data.

The reports will also include a description of the monitoring well network, including a table presenting the specifications of each well and a map showing the network of wells.

The data validation reports will provide a review of all raw data to verify that the laboratory has supplied the required quality assurance and quality control deliverables. The data will be validated against USEPA, Washington State, and laboratory-specific criteria for completeness and usability.

5 PROGRAM NOTIFICATION REQUIREMENTS

Ecology will be notified 30 days before installation or replacement of groundwater monitoring wells and within 30 days of receipt of laboratory analyses indicating an IHS CUL exceedance or measurement of LNAPL in a sentry or background well.

6 SCHEDULE

The groundwater monitoring activities outlined in this GMP will begin six months following completion of the RA (initiation of groundwater monitoring anticipated in April 2016) and continue for four to eight consecutive quarters. This GMP will be reevaluated after completion of four quarterly events.

LIMITATIONS

The services undertaken in completing this plan were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This plan is solely for the use and information of our client unless otherwise noted. Any reliance on this plan by a third party is at such party's sole risk.

Opinions and recommendations contained in this plan apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this plan.

AGI. 1989. Hydrocarbon contamination assessment, Truck City Truck Stop, 1731 Old Highway 99 South, Mount Vernon, Washington. Applied Geotechnology, Inc. November 13.

Ecology. 1993. Interim action cleanup report, Truck City Truck Stop, 1731 Old Highway 99 South, Mount Vernon, Washington. Washington State Department of Ecology. January 8.

Ecology. 2015. Formal notification of a minor change to the cleanup action plan (CAP) and prospective purchaser consent decree (PPCD). Truck City Truck Stop, 3216 Old Highway 99 S., Mount Vernon, WA 98273. Facility/Site ID: 2673, Cleanup Site ID: 5176. Agreed Order No. 15 2 00056 2. Washington State Department of Ecology. December 22.

MFA. 2014. Public review remedial investigation and feasibility study report, Truck City site, Mount Vernon, Washington. Maul Foster & Alongi, Inc. November 11.

MFA. 2015. Remedial action plan and engineering design report, Truck City site, Mount Vernon, Washington. Maul Foster & Alongi, Inc. May 13.

MFA. 2016. As-built construction complete report, former Truck City site, Mount Vernon, Washington. Maul Foster & Alongi, Inc., Bellingham, Washington. January.

MTC. 2014. Phase II environmental site assessment, Truck City site, 3228 Old Highway 99 South, Mount Vernon, WA 98273. Materials Testing & Consulting, Inc. March 17.

TABLE



		Location:	TC-1	TC-1	TC-2	TC-3	TC-4	TC-5	TC-6
		Sample Name:	TC1-W-10.0	TCDup-W-10.0	TC2-W-10.0	TC3-W-10.0	TC4-W-10.0	TC5-W-10.0	TC6-W-10.0
		Collection Date:	07/17/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014
	Collection Depth (ft bgs):		10	10	10	10	10	10	10
	cas_number	MTCA Method A							
TPH (ug/L)						<u> </u>		<u> </u>	
Gasoline-Range Hydrocarbons	86290-81-5	800	100 U	100 U	100 U	380	100 U	800	100 U
Diesel-Range Hydrocarbons	68334-30-5	500	120 J		50 U		50 U	360 J	89 J
Motor-Oil-Range Hydrocarbons	64742-65-0	500	250 U		250 U		250 U	250 U	250 U
TPH Identification	•			•				•	
Gasoline-Range Hydrocarbons		NV							
Diesel-Range Hydrocarbons		NV							
Motor-Oil-Range Hydrocarbons		NV							
VOCs (ug/L)	•			•				•	•
1,1,1,2-Tetrachloroethane	630-20-6	NV	1 U			1 U			
1,1,1-Trichloroethane	71-55-6	200	1 U			1 U			
1,1,2,2-Tetrachloroethane	79-34-5	NV	1 U			1 U			
1,1,2-Trichloroethane	79-00-5	NV	1 U			1 U			
1,1-Dichloroethane	75-34-3	NV	1 U			1 U			
1,1-Dichloroethene	75-35-4	NV	1 U			1 U			
1,1-Dichloropropene	563-58-6	NV	1 U			1 U			
1,2,3-Trichlorobenzene	87-61-6	NV	1 U			1 U			
1,2,3-Trichloropropane	96-18-4	NV	1 U			1 U			
1,2,4-Trichlorobenzene	120-82-1	NV	1 U			1 U			
1,2,4-Trimethylbenzene	95-63-6	NV	1 U			23			
1,2-Dibromo-3-chloropropane	96-12-8	NV	10 U			10 U			
1,2-Dibromoethane	106-93-4	0.01	0.01 U			0.01 U			
1,2-Dichlorobenzene	95-50-1	NV	1 U			1 U			
1,2-Dichloroethane	107-06-2	NV	1 U			1 U			
1,2-Dichloropropane	78-87-5	NV	1 U			1 U			
1,3,5-Trimethylbenzene	108-67-8	NV	1 U			6.2			
1,3-Dichlorobenzene	541-73-1	NV	1 U			1 U			
1,3-Dichloropropane	142-28-9	NV	1 U			1 U			
1,4-Dichlorobenzene	106-46-7	NV	1 U			1 U			
2,2-Dichloropropane	594-20-7	NV	1 U			1 U			
2-Butanone	78-93-3	NV	10 U			10 U			
2-Chlorotoluene	95-49-8	NV	1 U			1 U			
2-Hexanone	591-78-6	NV	10 U			10 U			
4-Chlorotoluene	106-43-4	NV	1 U			1 U			
4-Isopropyltoluene	99-87-6	NV	1 U			1 U			
4-Methyl-2-pentanone	108-10-1	NV	10 U			10 U			
Acetone	67-64-1	NV	10 U			10 U			

Table
Summary of Groundwater Analytical Results
Truck City Site Property
Mount Vernon, Washington

		Location:	TC-1	TC-1	TC-2	TC-3	TC-4	TC-5	TC-6
		Sample Name:	TC1-W-10.0 07/17/2014	TCDup-W-10.0	TC2-W-10.0	TC3-W-10.0	TC4-W-10.0	TC5-W-10.0	TC6-W-10.0
		Collection Date:		07/17/2014	07/18/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014
	Coll	ection Depth (ft bgs):	10	10	10	10	10	10	10
	cas_number	MTCA Method A							
Benzene	71-43-2	5	0.35 U	1 U	1 U	1.2	1 U	22	1 U
Bromobenzene	108-86-1	NV	1 U			1 U			
Bromodichloromethane	75-27-4	NV	1 U			1 U			
Bromoform	75-25-2	NV	1 U			1 U			
Bromomethane	74-83-9	NV	1 U			1 U			
Carbon tetrachloride	56-23-5	NV	1 U			1 U			
Chlorobenzene	108-90-7	NV	1 U			1 U			
Chloroethane	75-00-3	NV	1 U			1 U			
Chloroform	67-66-3	NV	1 U			1 U			
Chloromethane	74-87-3	NV	10 U			10 U			
cis-1,2-Dichloroethene	156-59-2	NV	1 U			1 U			
cis-1,3-Dichloropropene	10061-01-5	NV	1 U			1 U			
Dibromochloromethane	124-48-1	NV	1 U			1 U			
Dibromomethane	74-95-3	NV	1 U			1 U			
Dichlorodifluoromethane	75-71-8	NV	1 UJ			1 UJ			
Ethylbenzene	100-41-4	700	1 U	1 U	1 U	8.1	1 U	25	1 U
Hexachlorobutadiene	87-68-3	NV	1 U			1 U			
Isopropylbenzene	98-82-8	NV	1 U			1 U			
m,p-Xylene		NV	2 U			27			
Methyl tert-butyl ether	1634-04-4	20	1 U			1 U			
Methylene chloride	75-09-2	5	5 U			5 U			
Naphthalene	91-20-3	160	1 U			5.2			
n-Hexane	110-54-3	NV	1 U			12			
n-Propylbenzene	103-65-1	NV	1 U			2.8			
o-Xylene	95-47-6	NV	1 U			5.6			
sec-Butylbenzene	135-98-8	NV	1 U			1 U			
Styrene	100-42-5	NV	1 U			1 U			
tert-Butylbenzene	98-06-6	NV	1 U			1 U			
Tetrachloroethene	127-18-4	5	1 U			1 U			
Toluene	108-88-3	1000	1 U	1 U	1 U	1 U	1 U	1.7	1 U
trans-1,2-dichloroethene	156-60-5	NV	1 U			1 U			
trans-1,3-Dichloropropene	10061-02-6	NV	1 U			1 U			
Trichloroethene	79-01-6	5	1 U			1 U			
Trichlorofluoromethane	75-69-4	NV	1 U			1 U			
Vinyl chloride	75-01-4	0.2	0.2 U			0.2 U			
Xylenes, Total		1000		3 U	3 U		3 U	130	3 U

		Location:	TC-1	TC-1	TC-2	TC-3	TC-4	TC-5	TC-6
		Sample Name:	TC1-W-10.0	TCDup-W-10.0	TC2-W-10.0	TC3-W-10.0	TC4-W-10.0	TC5-W-10.0	TC6-W-10.0
		Collection Date:	07/17/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014
	Collection Depth (ft bgs):		10	10	10	10	10	10	10
	cas_number	MTCA Method A							
PAHs (ug/L)						<u> </u>			
1-Methylnaphthalene	90-12-0	NV	0.1 U			0.28		0.77	
2-Methylnaphthalene	91-57-6	NV	0.1 U			0.34		0.48	
Acenaphthene	83-32-9	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Acenaphthylene	208-96-8	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Anthracene	120-12-7	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Benzo(a)anthracene	56-55-3	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Benzo(a)pyrene	50-32-8	0.1	0.1 U			0.1 U	0.1 U	0.1 U	
Benzo(b)fluoranthene	205-99-2	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Benzo(ghi)perylene	191-24-2	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Benzo(k)fluoranthene	207-08-9	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Chrysene	218-01-9	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Dibenzo(a,h)anthracene	53-70-3	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Fluoranthene	206-44-0	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Fluorene	86-73-7	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Indeno(1,2,3-cd)pyrene	193-39-5	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Naphthalene	91-20-3	160	0.1 U			0.83	0.1 U	8.6	
Phenanthrene	85-01-8	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Pyrene	129-00-0	NV	0.1 U			0.1 U	0.1 U	0.1 U	
Total Metals (ug/L)	'			•		•		•	
Arsenic	7440-38-2	5			7.1 J	1.29			
Barium	7440-39-3	NV			125 J	85.3			
Cadmium	7440-43-9	NV			1 UJ	1 U			
Chromium	7440-47-3	NV			1.02 J	2.29			
Lead	7439-92-1	15			1 UJ	1 U			
Manganese	7439-96-5	NV		1300 J		708			
Mercury	7439-97-6	2			0.25 U	0.1 U			
Selenium	7782-49-2	NV			1 UJ	1 U			
Silver	7440-22-4	NV			1 UJ	1 U			
Dissolved Metals (ug/L)	•			•					
Arsenic	7440-38-2	5			1.37				
Barium	7440-39-3	NV			79.8				
Cadmium	7440-43-9	NV			1 U				
Chromium	7440-47-3	NV			1 U				
Lead	7439-92-1	15			1 U				
Manganese	7439-96-5	NV	1200						

		Location:	TC-1	TC-1	TC-2	TC-3	TC-4	TC-5	TC-6
		Sample Name:	TC1-W-10.0	TCDup-W-10.0	TC2-W-10.0	TC3-W-10.0	TC4-W-10.0	TC5-W-10.0	TC6-W-10.0
		Collection Date:	07/17/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014	07/17/2014	07/18/2014
	Coll	ection Depth (ft bgs):	10	10	10	10	10	10	10
	cas_number	MTCA Method A							
Mercury	7439-97-6	2			0.1 U				
Selenium	7782-49-2	NV			1 U				
Silver	7440-22-4	NV			1 U				
Dissolved Gases (ug/L)				•				•	•
Methane	74-82-8	NV	7.1			48			
Anions (mg/L)	1							<u> </u>	I .
Nitrate		NV	0.329 J			1.47			
Sulfate		NV	198			126			
Ferrous Iron (mg/L)	<u> </u>					-		l	L
Ferrous Iron		NV	16.4			5.4			
EPH (ug/L)			•	•					
C8-C10 Aliphatic Hydrocarbons		NV	80 U					213 U	
C10-C12 Aliphatic Hydrocarbons		NV	80 U					213 U	
C12-C16 Aliphatic Hydrocarbons		NV	80 U					213 U	
C16-C21 Aliphatic Hydrocarbons		NV	80 U					213 U	
C21-C34 Aliphatic Hydrocarbons		NV	162					271	
C8-C10 Aromatic Hydrocarbons		NV	89.9 J					213 UJ	
C10-C12 Aromatic Hydrocarbons		NV	80 UJ					213 UJ	
C12-C16 Aromatic Hydrocarbons		NV	80 U					213 U	
C16-C21 Aromatic Hydrocarbons		NV	86					676	
C21-C34 Aromatic Hydrocarbons		NV	14500					49000	
VPH (ug/L)									
C5-C6 Aliphatic Hydrocarbons		NV	10 U			214			
C6-C8 Aliphatic Hydrocarbons		NV	10 U			80.7			
C8-C10 Aliphatic Hydrocarbons		NV	10 U			44.3			
C10-C12 Aliphatic Hydrocarbons		NV	10 U			99.2			
C8-C10 Aromatic Hydrocarbons		NV	10 U			82.6			
C10-C12 Aromatic Hydrocarbons		NV	10 U			117			
C12-C13 Aromatic Hydrocarbons		NV	10 U			10 U			
Benzene		5	5 U			5 U			
Ethylbenzene		700	5 U			6.93			
m,p-Xylene		NV	5 U			22.9			
o-Xylene		NV	5 U			5 U			
Methyl tert-butyl ether		20	5 U			5 U			
Naphthalene		160	5 U			5 U			
Toluene		1000	5 U			5 U			

Table
Summary of Groundwater Analytical Results
Truck City Site Property
Mount Vernon, Washington

NOTES:

Result values in **bold** font indicate exceedance of MTCA Method A cleanup level. Non-detect results are not evaluated against MTCA cleanup levels. Analytes and sample names with exceedances are also in **bold** font.

-- = not analyzed.

cas_number = Chemical Abstracts Service number

EPH = extractable petroleum hydrocarbons.

ft bgs = feet below ground surface.

J = Result is an estimated value.

mg/L = milligrams per liter.

MTCA Method A = Model Toxics Control Act Method A.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

TPH = total petroleum hydrocarbons.

U = Result is non-detect.

ug/L = micrograms per liter.

VOC = volatile organic compound.

VPH = volatile petroleum hydrocarbon.

FIGURES



Source: US Geological Survey (1990) 7.5-minute topographic quadrangle: Mount Vernon Section 32, Township 34 North, Range 4 East

Figure 1-1 Site Location

Former Truck City Site Mount Vernon, Washington



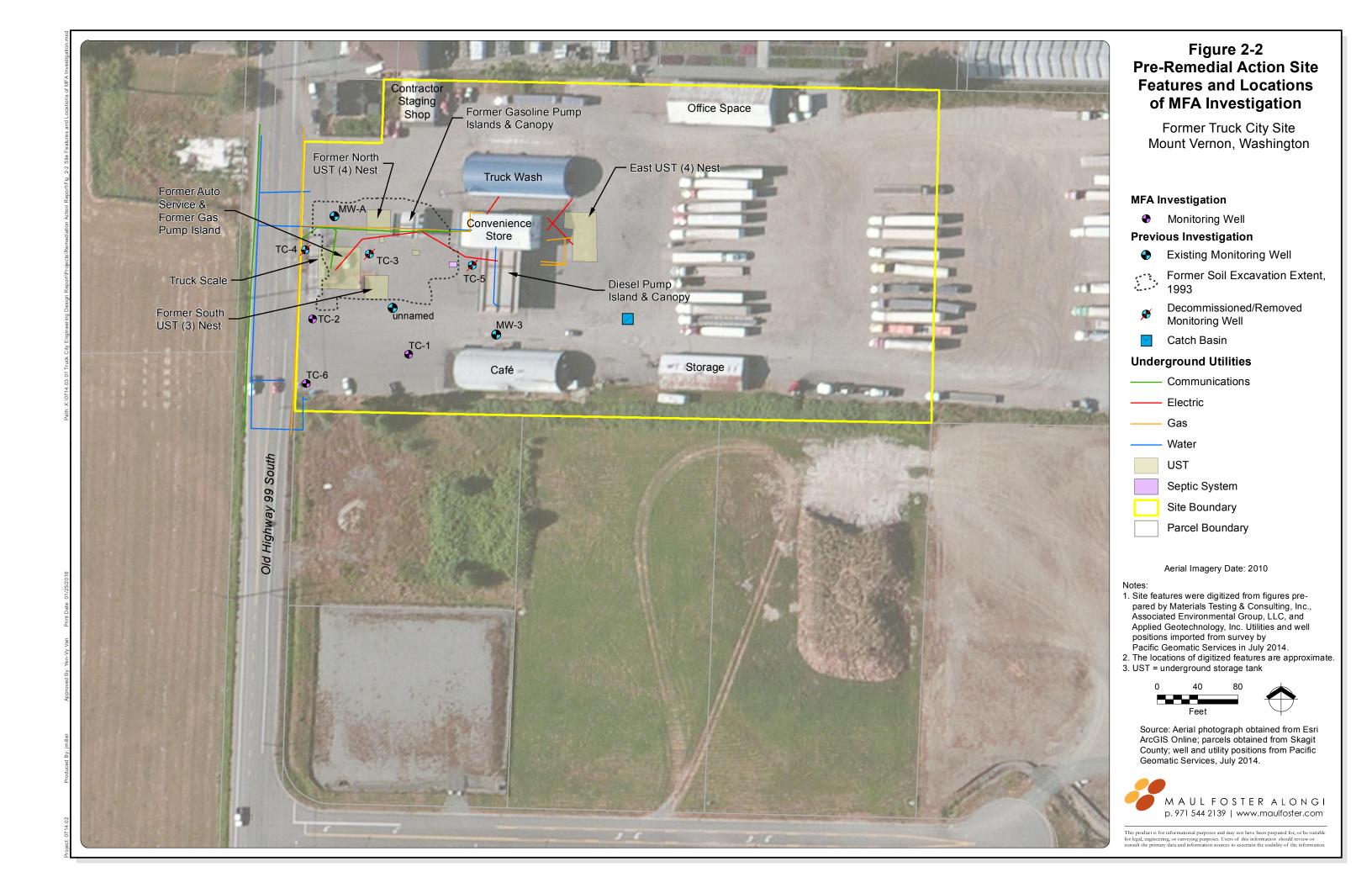
0 1,000 2,000 Feet



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Produced By: imiller





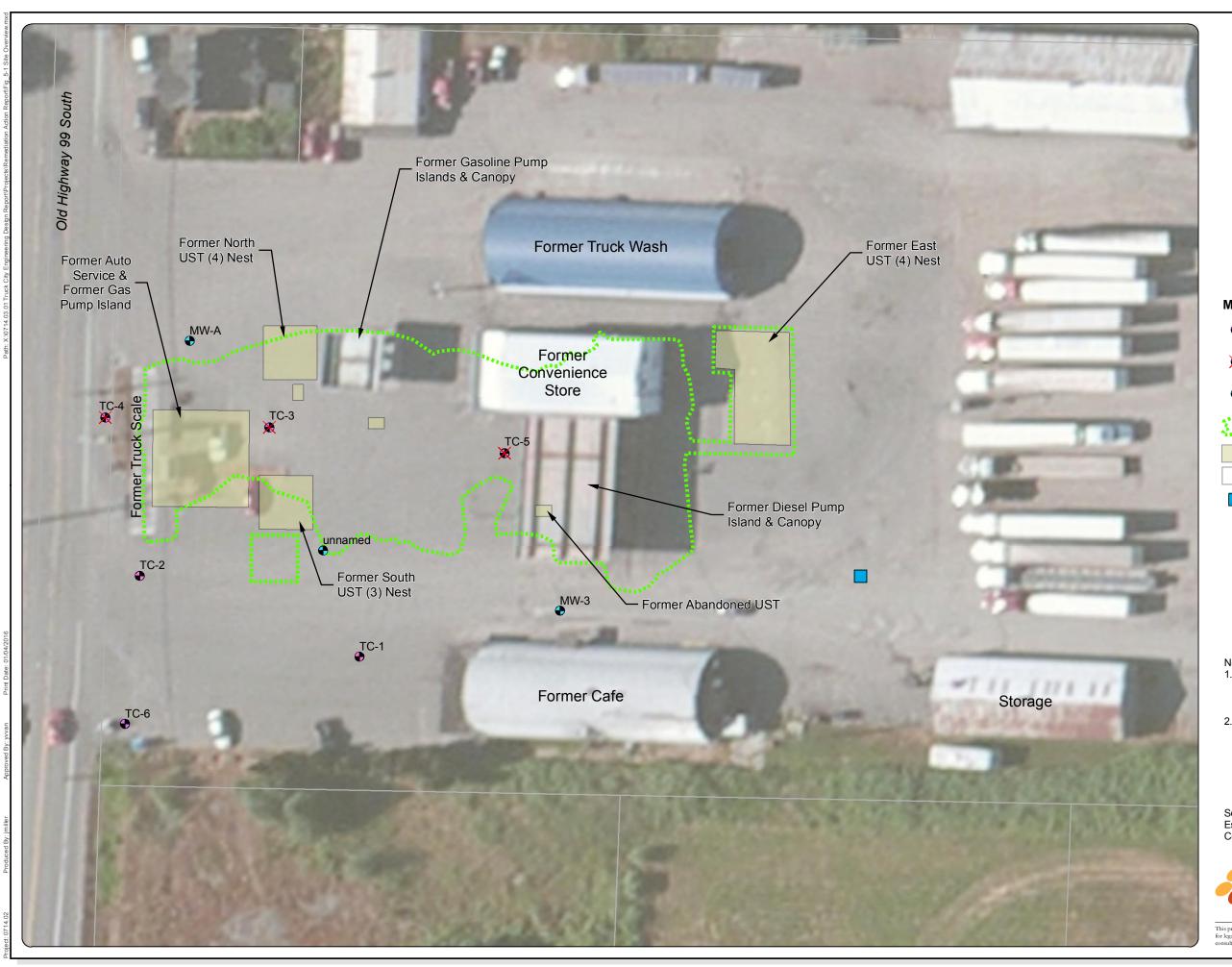


Figure 2-3 Site Overview -**Remedial Action**

Former Truck City Site Mount Vernon, Washington

MFA Investigation

- Monitoring Well
- Decommissioned/ Removed Monitoring Well
- Historical Monitoring Well



Estimated Remedial Action Estimated Kei Extent, 2015

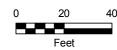
UST

Parcel Boundary

Catch Basin

- Notes:
 1. Site features were digitized from figures prepared by Materials Testing & Consulting, Inc., Associated Environmental Group, LLC, and Applied Geotechnology, Inc.

 2. The locations of all features are approximate.

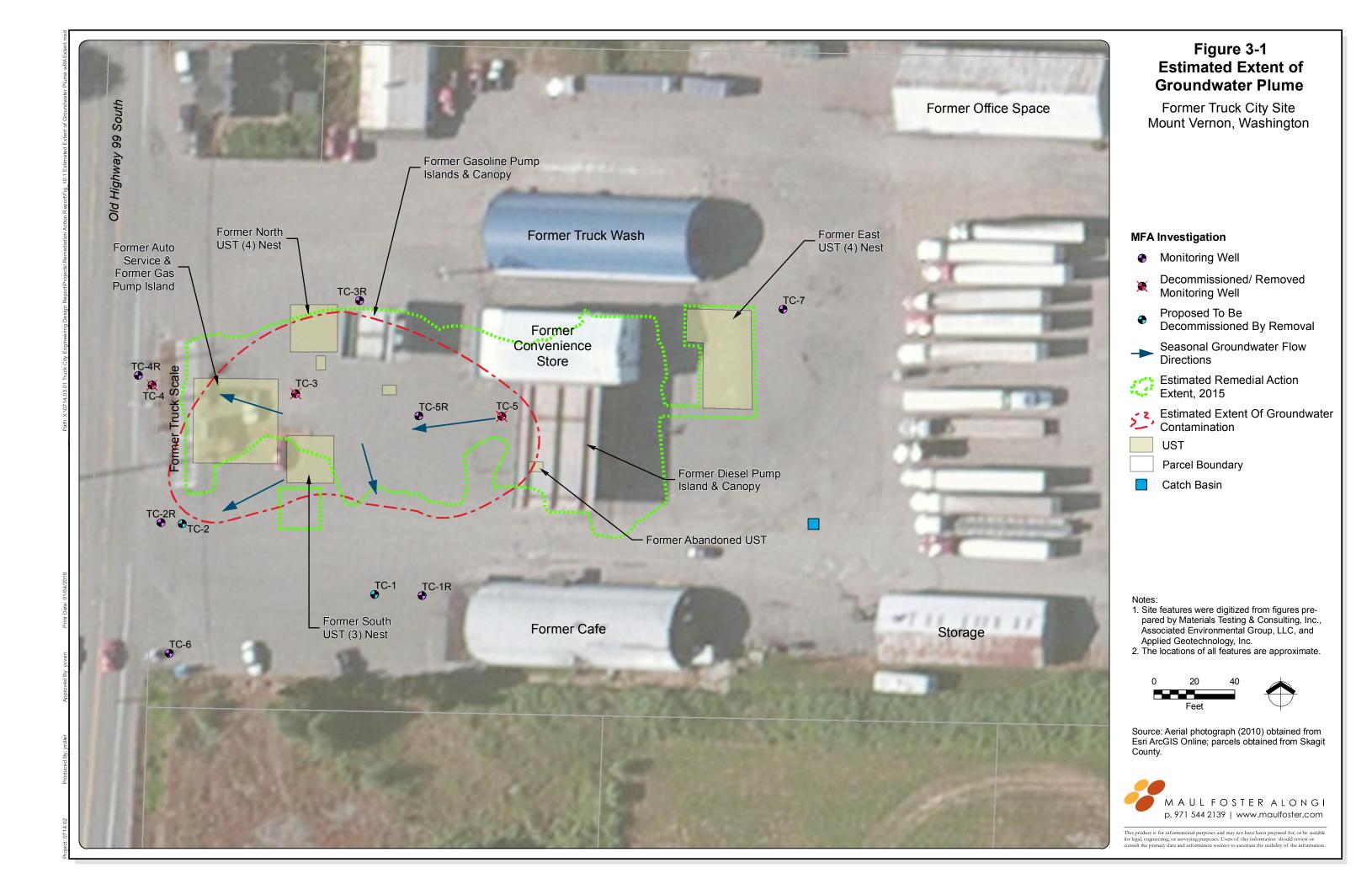




Source: Aerial photograph (2010) obtained from Esri ArcGIS Online; parcels obtained from Skagit County.



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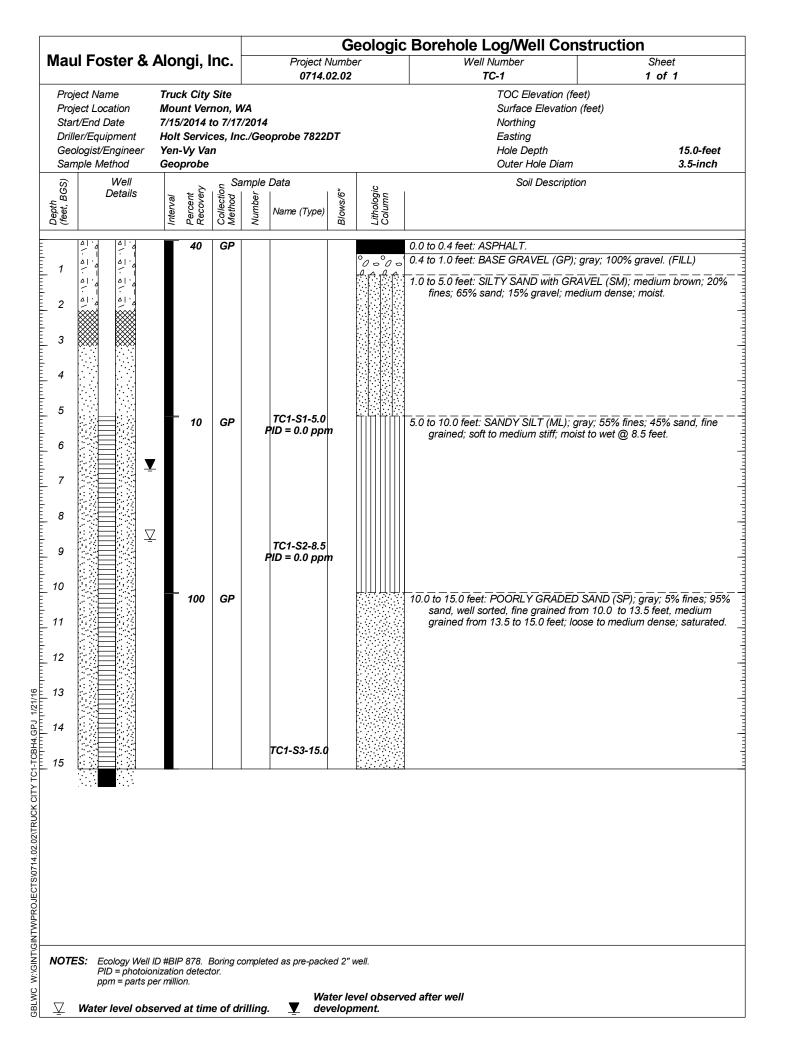




APPENDIX A

GROUNDWATER MONITORING WELL NETWORK CONSTRUCTION LOGS





Maul Foster &	Alongi,	Inc.	Project N	lumber	Borehole Log/Well Construction Well Number Sheet				
Project Name Project Location Start/End Date Driller/Equipment Geologist/Engineer Sample Method	Truck City Mount Ver 7/17/2014	Site rnon, V to 7/17 ces, Ind			TC-2 1 of 1 TOC Elevation (feet) Surface Elevation (feet) Northing Easting Hole Depth 15.0-fee				
Well Details (Leef, BGS) Details	Interval Percent Recovery		mple Data	Blows/6" Lithologic Column	Soil Description	0.0 men			
Dec (fe	Pe Re	SS	N N	Bk Co					
1	100	GP GP	TC2-S-6.5 PID = 2.0 ppm TC2-S-9.0		O.0 to 0.4 feet: ASPHALT. O.4 to 5.0 feet: SANDY GRAVEL (GW); tan be sand, fine to coarse; 60% gravel, fine to imedium dense; dry. (FILL) 5.0 to 6.5 feet: SILTY SAND (SM); grayish be sand; medium dense; moist to wet @ 6.5 intermittent pockets of silty clay; saturate moist to wet @ 9.0 feet. 10.0 to 14.5 feet: POORLY GRADED SAND sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand, medium, well sorted; medium dense sand.	medium, subangular; fown; 35% fines; 65% feet. fray; 100% fines; soft; d from 7.0 to 8.0 feet,			
12 13 14			TC2-S-12.0		feet. 14.5 to 15.0 feet: CLAY (CL); gray; 100% fine				
15	•		P ID = 0.0 ppr	<u> </u>	local wood chips; moist to wet.	zz, rigr practicity, soit,			

Maul Foster & A	Alongi,	Inc.	Project Nu		C Borehole Log/Well Construction Well Number Sheet				
			0714.02		TC-5	1 of 1			
Project Name Project Location Start/End Date Driller/Equipment Geologist/Engineer Sample Method	Truck City Mount Ver 7/17/2014 Holt Servic Yen-Vy Va Geoprobe	rnon, W to 7/17 ces, Ind		Τ	TOC Elevation (feet) Surface Elevation (feet) Northing Easting Hole Depth 15.0-feet				
i			mple Data		Outer Hole Diam Soil Description	3.5-inch			
Opepth (feet, BGS) Well Details	Interval Percent Recovery	Collection Method S	Name (Type)	Blows/6" Lithologic Column	GOII DESCRIPTION				
	20	GP			0.0 to 0.4 feet: ASPHALT.				
					0.4 to 4.0 feet: SANDY GRAVEL (GW); tan I sand; 65% gravel, fine to coarse, subang (FILL)				
5					4.0 to 5.0 feet: GRAVELLY SAND (SW); gra 60% sand, fine to coarse; 25% gravel; n	yish brown; 15% fines; nedium dense; moist.			
6	20	GP			5.0 to 6.5 feet: SILTY CLAY (CL); medium b plasticity; soft; moist.	rown; 100% fines, low			
. 7 . 8 . 9	100	GP	TC5-S-9.5 PID = 0.0 ppm		6.5 to 13.0 feet: SILTY SAND (SM); grayish sand; loose; moist to saturated @ 10.0 f	eet.			
13			TC5-S-13.0		13.0 to 14.0 feet: SANDY SILT (ML); gray; 7 sheen; saturated.	5% fines; 25% sand; sligi			
15			TC5-S-15.0 PID = 1.8 ppm		14.0 to 15.0 feet: POORLY GRADED SAND 95% sand, well sorted, medium; mediun fuel odor; moist to wet.	(SP); dark gray; 5% fines n dense; strong diesel-like			
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)									
NOTES: Ecology Well II PID = photoion ppm = parts pe	ization detec		ompleted as pre-packed	d 2" well. Fuel imp	acted from approximately 10.0 to 15.0 feet.				

APPENDIX B SAMPLING AND ANALYSIS PLAN



SAMPLING AND ANALYSIS PLAN

FORMER TRUCK CITY SITE 3216 OLD HIGHWAY 99 SOUTH MOUNT VERNON, WASHINGTON

Prepared for

SKAGIT COUNTY

MOUNT VERNON, WASHINGTON March 30, 2016

Project No. 0714.03.01

Prepared by

Maul Foster & Alongi, Inc. 1329 N State Street, Suite 301, Bellingham, WA 98225



SAMPLING AND ANALYSIS PLAN

GROUNDWATER MONITORING PLAN FORMER TRUCK CITY SITE 3216 OLD HIGHWAY 99 SOUTH MOUNT VERNON, WASHINGTON The material and data in this plan were prepared

The material and data in this plan were prepared under the supervision and direction of the undersigned.

MAUL FOSTER & ALONGI, INC.

Yen-Vy Van, LHG Senior Hydrogeologist

Justin L. Clary, PE Principal Engineer

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APPENDIX A

APPENDIX B

BORING LOG FORM

FIELD SAMPLING DATA SHEET FORM

FOLLOWING PLAN:

TABLE

GROUNDWATER SAMPLE HANDLING SUMMARY

ACRONYMS AND ABBREVIATIONS

the County Skagit County, Washington

COC chain of custody
COI chemical of interest
CUL cleanup level

Ecology Washington State Department of Ecology

GMP groundwater monitoring plan
IDW investigation-derived waste
IHS indicator hazardous substance
LCS laboratory control sample
LDS laboratory duplicate sample
MFA Maul Foster & Alongi, Inc.

MS/MSD matrix spike and matrix spike duplicate

QA quality assurance QC quality control

SAP sampling and analysis plan

Site former Truck City, 3216 Old Highway 99 South, Mount

Vernon, Washington

USEPA U.S. Environmental Protection Agency WAC Washington Administrative Code

Maul Foster and Alongi, Inc. (MFA) has prepared this sampling and analysis plan (SAP), including quality assurance project plan elements, consistent with the requirements of Washington Administrative Code (WAC) 173-340-820, on behalf of Skagit County (the County) for the former Truck City Truck Stop facility located at 3216 Old Highway 99 South, Mount Vernon, Skagit County, Washington, Washington State Department of Ecology (Ecology) Facility Site No. 2673, Cleanup Site ID: 5176, Agreed Order 15 2 00056 2 (Site) (see Figure 1-1), to guide the collection of groundwater samples during groundwater compliance monitoring events.

This SAP has been prepared consistent with the requirements in Ecology's Guidance on Sampling and Data Analysis Methods (Ecology, 1995), Guidance for Preparing Quality Assurance Project Plans for Environmental Studies (Ecology, 2004), and the Model Toxics Control Act (WAC Chapter 173-340).

1.1 Investigation Objectives

The primary objective of this SAP is to establish procedures for the collection of data of sufficient quality to evaluate the nature and extent of impacted groundwater at the Site. The groundwater compliance monitoring plan (CMP) references the relevant procedures and protocols from this SAP and the locations, frequency, and types of field or laboratory analyses that will be conducted. This SAP is meant to ensure that reliable data are obtained to support consideration of additional remedial actions at the Site, if such actions are necessary, for the protection of human health and the environment, and ultimate demonstration of Site compliance with associated cleanup levels (CULs). It provides a consistent set of procedures that will be used throughout implementation of the CMP.

If a phase of work or an otherwise unforeseen change in methodology requires modification to this SAP, an addendum will be prepared that describes the specific revision(s) or the alternative procedure(s). Procedures are provided that will be used to direct the monitoring process so that the following conditions are met:

- Data collected are of high quality, representative, and verifiable.
- Use of resources is cost-effective.
- Data can be used by the County and by Ecology to support compliance monitoring for the selected Site remedy.

This SAP provides guidance on procedures for groundwater sampling, monitoring well installation and decommissioning (as applicable), and management of investigation-derived waste (IDW). It also includes procedures for collecting, analyzing, evaluating, and reporting useful data. The document includes quality assurance (QA) procedures for field activities, sampling QA and quality control (QC) procedures, and data validation. The goal of the procedures outlined in this SAP is to obtain reliable

data about physical, environmental, and chemical conditions at the Site in order to support the goals and objectives of the CMP.

2 ACCESS AND SITE PREPARATION

2.1 Access

MFA personnel will be on the Site during compliance monitoring activities. Access to the Site is allowed at all reasonable times for the purpose of performing work, as stipulated in the Agreed Order. Work activities resulting in loud noises will generally be confined to the hours between 7 a.m. and 7 p.m. MFA will notify the County and Ecology before beginning work at the Site.

2.2 Site Preparation

As applicable, before any subsurface field activities (e.g., monitoring well installation) begin at the Site, public and private utility-locating services will be used to check for underground utilities and pipelines near each proposed well or boring location. MFA will coordinate fieldwork with the County to define the locations of possible on-site utilities, piping, and other subsurface obstructions. Ecology will be notified a minimum of 48 hours before activities begin at the Site.

3 GROUNDWATER ASSESSMENT

Procedures for installing monitoring wells are provided below, as future replacement monitoring well installation activities will be necessary, as presented in MFA's As-Built Construction Complete Report (MFA, 2016).

3.1 Monitoring Well Installation

Monitoring wells will be constructed according to the Washington well construction standards (Chapter 173-160 WAC) and as described below.

- Monitoring wells will be constructed with 2-inch-diameter polyvinyl chloride or stainlesssteel riser pipe and screened sections consisting of 0.010-inch machine slots. The monitoring wells may be constructed with prepacked well screen with 10 x 20 washed silica sand or by placing materials downhole, consistent with the WAC regulation listed above.
- Additional filter pack may be placed around the prepacked screen (if used). The additional filter pack will consist of graded 10 x 20 washed silica sand and will extend a maximum of 1 foot below the bottom of the screen and 3 feet above the top of the screen. A

- weighted line will be used to monitor the level of the filter pack during installation. The filter pack may be surged during installation.
- Bentonite grout or hydrated chips (e.g., 0.75-inch minus) will be used to seal the annulus above the filter pack. Potable water will be used. A weighted line will be used to measure the top of the bentonite chips as they are poured into place.
- After installation, the well will be mechanically developed by surging, bailing, or pumping
 to remove sediment that may have accumulated during installation and to improve the
 hydraulic connection with the water-bearing zone.
- Water-quality field parameters such as specific conductance, pH, temperature, and turbidity will be measured during well-purging activities. The wells will be purged until the turbidity measurements are 10 nephelometric turbidity units or fewer, or until there is no noticeable decrease in turbidity. To the extent practical, water-quality field parameters will be considered stable when the specific conductance is within 10 percent of the previous reading, pH is within 0.1 standard unit of the previous reading, and temperature is within 0.1 degree Celsius of the previous reading.

During well installation, a log of the soil will be prepared by a geologist or hydrogeologist licensed by the State of Washington, or a person working under the direct supervision of a geologist or hydrogeologist licensed by the State of Washington. Site characterization of the extent of the dissolved phase plume is considered complete based on findings from MFA's remedial investigation (MFA, 2014) and prior groundwater sampling completed at the Site. Therefore, soil samples associated with any future borings are not anticipated to be collected for chemical analysis. Soil logs will include information such as the project name and location, the name of the drilling contractor, the drilling method, the sampling method, sample depths, blow counts (if applicable), a description of soil encountered, and screened intervals. Soils will be described using American Society for Testing and Materials D2488-00, as well as Standard Practice for Description and Identification of Soils (Visual-Manual Procedures). The information will be recorded on an MFA boring log form, as shown in Appendix A, or in field notes.

3.2 Groundwater Elevations

Depth of light non-aqueous phase liquid (LNAPL) or free-product and water-level measurements will be recorded, to the nearest 0.01 foot, using an Interface probe and/or an electronic water-level indicator. If LNAPL is present, a measurement of its thickness will be recorded. Groundwater elevations at wells with LNAPL present will be corrected to compensate for the effect of differing densities of the LNAPL and water. If the total well or boring depth is not known, the total depth will also be measured. Water depth will be measured from the designated measuring point (typically the top of the casing on the north side, which is typically a polyvinyl-chloride riser pipe). The measuring point will be marked so that readings are measured from the same reference point during each monitoring event, and the measuring-point elevation will be surveyed. During monitoring events, the well condition (including the condition of the lock, monument integrity, and legibility of well labels) will be recorded for each location. The water-level indicator will be decontaminated between wells in accordance with the procedures outlined in Section 3.5.

3.3 Surveying

The installation locations for proposed wells, as applicable, and other features of interest will be surveyed using a global positioning unit (e.g., TrimbleTM) capable of submeter accuracy. The location and measuring-point elevation for newly installed monitoring wells will be surveyed by a licensed surveyor.

The Trimble global positioning unit will tie in to published survey control, establish onsite control, and survey horizontal positions of monitoring wells. The published accuracy of the Trimble system, which is calibrated annually by a Trimble Certified Service Center, is as follows:

```
Network RTK Positioning Performance
Horizontal . . . . . . 8 mm + 0.5 ppm RMS
Vertical . . . . . . . 15 mm + 0.5 ppm RMS
```

If there is not an established Washington State Department of Transportation benchmark onsite, the surveyors will use a differential level loop from the established onsite control, through all of the monitoring wells, to survey their elevations. Differential level loops are only accepted if the data are within 0.02 feet. The survey would be re-run if accuracy is not within this range. The referenced survey datum for the Site is NAVD88 datum in the State Plane South Projection.

3.4 Equipment Cleaning and Decontamination

3.4.1 Drilling Equipment

The working area of the drill rig and downhole drilling equipment will be steam-cleaned or pressure-washed after arrival on the Site and after use in each borehole or monitoring well. Decontamination fluids will be transferred to drums approved by the Washington State Department of Transportation, and will be managed according to the procedures outlined in Section 3.6.

3.4.2 Sampling Equipment

Nondisposable sampling equipment and reusable materials that contact soil or water will be decontaminated onsite and before and after use for each sample and sampling location. Decontamination will consist of the following:

- Tap-water rinse (may consist of an equivalent high-pressure or hot-water rinse); visible soil to be removed by scrubbing
- Nonphosphate detergent wash, consisting of a dilute mixture of Liqui-Nox® (or equivalent) and tap water
- Distilled-water rinse
- Methanol solution rinse (1:1 solution of methanol with distilled water)

Decontamination fluids will be transferred to drums for management.

3.5 Management of Investigation-Derived Waste

IDW may include items such as soil cuttings, purged groundwater, decontamination fluids, sampling debris, and personal protective equipment. The IDW will be segregated into solids, liquids, and sampling debris (e.g., personal protective equipment, tubing, bailers). IDW will be stored in a designated area on the Site in Washington State Department of Transportation approved drums.

Drums will be labeled with their contents, the approximate volume of material, the date of collection, and the origin of the material. The drums will be sealed, secured, and transferred to a designated area on the Site, pending characterization. Analytical data from groundwater-sampling activities previously described may be used to characterize the soil cuttings, drilling fluids, purge water, and decontamination fluids generated during drilling and monitoring well sampling. A plan for IDW management, specific to future field tasks, will be developed prior to conducting the associated fieldwork.

4 GROUNDWATER SAMPLING

Groundwater samples will be collected from monitoring wells following the procedures outlined below.

4.1 Monitoring Well Groundwater Sampling

If a peristaltic pump is used, standard low-flow sampling techniques will be used to collect groundwater samples from monitoring wells, per Ecology Standard Operating Procedure and Sampling Monitoring Wells (Ecology, 2015). If possible, groundwater samples should be collected from the middle of the screened interval or, if the water level is below the top of the screen, from the middle of the water column. New and disposable teflon-lined polyethylene tubing will be used at each monitoring location.

Before collection of groundwater samples, the water level will be measured, and the well will be purged. If a peristaltic pump is used, the well should be purged at a low flow rate (e.g., 0.1 to 0.5 liter per minute). A minimum of three well volumes will be purged before sample collection, or until selected water-quality field parameters (e.g., temperature, specific conductance, oxidation-reduction potential, pH, turbidity) have stabilized. If the well goes dry during purging, a sample can be collected once the well recharges enough water; field observations regarding the length of time for a well to recharge will be recorded. During purging, flow rates, water levels, and water quality parameters will be recorded on an appropriate field form or in field notes. Groundwater will be transferred directly into laboratory-supplied containers specific to the analysis required.

4.2 Nomenclature

Groundwater samples will be labeled with a prefix to describe the sampling location identification number. A "W" will indicate a water-sample matrix, and the midpoint of the screened or open area sample depth will be recorded in feet. For example, a groundwater sample collected from monitoring well TC1, with a screen from 5 to 15 feet below ground surface, will have the sample nomenclature of TC1-W-10.0.

Duplicate groundwater samples will replace the location number with "DUP," and the sample will have the same sample time as the primary sample. To avoid confusion, collection of more than one duplicate sample from the same depth, at the same date and time, should be avoided. A duplicate sample of the abovementioned sample would appear as TCDUP-W-10.0.

Relevant sample information will be documented on the exploratory boring log (see Appendix A) or a field-sampling data sheet (see Appendix B); documentation may include items such as the screened interval or open space, equipment used, water-quality field parameters, and the amount of water purged before sampling. The screened interval or open borehole will be recorded on the boring log.

5 ANALYTICAL METHODS

5.1 Chemicals of Interest

All compliance monitoring-network wells defined in the CMP will be analyzed for the following chemicals, which have been identified as indicator hazardous substances (IHS) for Site groundwater:

- Gasoline-range total petroleum hydrocarbons
- Diesel-range total petroleum hydrocarbons
- Benzene
- Ethylbenzene
- Toluene
- Xylenes

Groundwater samples from two monitoring wells within the network will also be analyzed on a semiannual basis for the following geochemical parameters to prescreen for the presence of electron acceptors and evaluate the biodegradation process at the Site:

- Nitrate
- Manganese
- Ferrous iron
- Sulfate
- Methane

All samples will be analyzed using standard analytical laboratory turnaround time. Analytical methods and sample handling procedures for these IHS are included in the attached table.

5.2 Laboratory Test Methods and Reporting Limits

5.2.1 Groundwater

In accordance with the QA/QC requirements set forth in this SAP, a Washington State–accredited laboratory will perform the following analyses. Laboratory methods are summarized below and in the attached table:

- Gasoline-range total petroleum hydrocarbons by Northwest Method NWTPH-Gx
- Diesel-range total petroleum hydrocarbons by Northwest Method NWTPH-Dx
- Petroleum-associated VOC, specifically benzene, toluene, ethylbenzene, and xylenes by United States Environmental Protection Agency (USEPA) Method 8260 or 8021

5.3 QA/QC Samples Generated in Field

To ensure that field samples and quantitative field measurements are representative of the media collected and conditions being measured, sample collection and measurement methods will follow procedures documented in Section 4.1. QC samples collected in the field include field equipment rinsate blanks, trip blanks, and field duplicates. Field QC samples will be identified on field-data sampling sheets. Field and trip-blank results may indicate possible contamination introduced by field or laboratory procedures; field duplicates indicate precision in both field and laboratory procedures.

5.4 Laboratory Operations

In the laboratory, QC samples may include matrix spike and matrix spike duplicate (MS/MSD) samples, laboratory control samples (LCSs), surrogate spike samples, and method blanks, as well as other QC samples and procedures, as required by the individual methods.

5.5 Sample Containers, Preservation, and Handling

5.5.1 Preservation

Water samples will be collected in laboratory-supplied containers with preservatives, as applicable, as summarized in the table.

All samples will be stored in iced coolers at approximately 4 degrees Celsius. Sample containers will be supplied by the laboratory.

5.5.2 Sample Packaging and Shipping

All samples will be stored in shipping containers with ice or a refrigerator designated for samples, and be transported to the analytical laboratory. All samples will be submitted to the analytical laboratory within the timeframes needed to allow for analysis within the applicable holding time (see table).

5.6 Sample Custody

Sample custody will be tracked from point of origin through analysis and disposal, using a chain-of-custody (COC) form, which will be filled out with the appropriate sample and analytical information after samples are collected.

The following items will be recorded on the COC form:

- Project name
- Project number
- MFA project manager
- Sampler name(s)
- Sample number, date and time collected, media, number of bottles submitted
- Requested analyses for each sample
- Type of data package required
- Turnaround requirements
- Signature, printed name, and organization name of persons having custody of samples, and date and time of transfer
- Additional instructions or considerations that would affect analysis (nonaqueous layers, archiving, etc.)

Persons in possession of the samples will be required to sign and date the COC form whenever samples are transferred between individuals or organizations. The COC will be included in the shipping containers. The laboratory will implement its in-house custody procedures, which begin when sample custody is transferred to laboratory personnel.

If samples are shipped via air or ground transportation (by a third party), the following custody procedures will be followed. The COC will be signed and custody will be relinquished to the carrier. The signed COC(s) will be packed in shipping containers with the samples, and a custody seal will be placed on the container. The shipping documentation will be used by the carrier to document custody of the package while it is in transit to the laboratory.

At the analytical laboratory, a designated sample custodian will accept custody of the samples and will verify that the COC form matches the samples received. The shipping container or set of containers

is given a laboratory identification number, and each sample is assigned a unique sequential identification number.

5.7 Instrumentation

5.7.1 Field Instrumentation

Field instruments will be used during the investigations. The following field equipment may require calibration before use and periodically during sampling activities:

- pH meter
- Conductivity meter
- Dissolved-oxygen meter
- Oxygen/reduction potential meter
- Turbidity meter
- Thermometer
- Photoionization detector
- Electronic water-level probe

Field-instrument calibration and preventive maintenance will adhere to manufacturers' guidelines. Any deviations from the established guidelines will be documented.

5.7.1.1 Field Calibration

Generally, field instruments should be calibrated daily, before work begins. Field personnel may decide to calibrate more than once a day if inconsistent or unusual readings occur, or if conditions warrant more frequent calibration. Calibration activities should be recorded in logbooks or field notebooks. To ensure that field instruments are properly calibrated and remain operable, at least the following procedures will be used:

- Operation, maintenance, and calibration will be performed in accordance with the manufacturers' instrument specifications.
- Standards used to calibrate field instruments will meet the minimum requirements for source and purity recommended in the equipment operation manual. Standards will be checked for expiration dates that may be printed on the bottle. Standards that have expired should not be used.
- Acceptable criteria for calibration will be based on the limits delineated in the operations manual.
- Users of the equipment will be trained in the proper calibration and operation of the instrument.
- Operation and maintenance manuals for each field instrument will be available to persons using the equipment.

- Field instruments will be inspected before they are taken to the Site.
- Field instruments will be calibrated at the start of each workday. Meters will be recalibrated, as necessary, during the work period.
- Calibration procedures (including items such as time, standards used, and calibration results) will be recorded in a field notebook. The information should be available if problems are encountered.

5.7.1.2 Preventive Maintenance

Preventive maintenance of field instruments and equipment will follow operation manuals. A schedule of preventive-maintenance activities should be followed to minimize downtime and ensure the accuracy of measurement systems. Maintenance will be documented in the relevant field notebook.

5.7.2 Laboratory Instrumentation

Specific laboratory-instrument calibration procedures, frequency of calibration, and preparation of calibration standards will be followed according to the method requirements as developed by the USEPA, consistent with procedures presented in SW-846 (USEPA, 1986).

5.7.2.1 Laboratory Calibration and Preventive Maintenance

The laboratory calibration ranges specified in SW-846 (USEPA, 1986) will be followed.

Preventive maintenance of laboratory equipment will be the responsibility of the laboratory personnel and analysts. This maintenance includes routine care and cleaning of instruments and inspection and monitoring of carrier gases, solvents, and glassware used in analyses. The preventive-maintenance approach for specific equipment should follow manufacturers' specifications, good laboratory practices, and industry-standard techniques.

Precision and accuracy data will be examined for trends and excursions beyond control limits to determine evidence of instrument malfunction. Maintenance should be performed when an instrument begins to change, as indicated by degradation of peak resolution, shift in calibration curves, decrease in sensitivity, or failure to meet any of the QC criteria.

5.8 Laboratory QA/QC Samples

The laboratory QC samples will be used to assess the accuracy and precision of the laboratory analysis. Each category of laboratory QA/QC will be performed by the laboratory as required by method-specific guidelines. The acceptance criteria presented in the guidelines will be adhered to, and samples that do not meet the criteria will be reanalyzed or qualified, as appropriate.

5.8.1 Calibration Verification

Instruments will initially be calibrated at the start of the project or sample run, as required, and when ongoing calibration does not meet control criteria. The number of points used in the initial calibration is defined in the analytical method. Calibration will be continued as specified in the analytical method to track instrument performance. If a continuing calibration does not meet control limits, analysis of project samples will be suspended until the source of the control failure is either eliminated or reduced to within control specifications.

5.8.2 Matrix Spike/Matrix Spike Duplicate

MS samples are analyzed to assess matrix effects on the accuracy of analytical measurements. MS/MSD samples will be prepared by spiking investigative samples with known amounts of analytes before extraction and preparation and analysis. The recoveries for the MS/MSD samples will be used to assess the accuracy and precision of the analytical method by measuring how well the analytical method recovers the target compounds in the investigative matrices. For each matrix type, at least one set of MS/MSD samples will be analyzed for each batch of samples (consisting of 20 or fewer samples) received.

5.8.3 Method Blanks

Method blanks are prepared using analyte-free (reagent) water and are processed with the same methodology (e.g., extraction, digestion) as the associated investigative samples. Method blanks are used to document contamination resulting in the laboratory from the analytical process. In every analytical batch, a method blank shall be prepared and analyzed. The method-blank results are used to verify that reagents and preparation do not impart unacceptable bias to the investigative sample results. The presence of analytes in the method-blank sample will be evaluated against method-specific thresholds. If analytes are present in the method blank above the method-specific threshold, corrective action will be taken to eliminate the source of contamination before proceeding with analysis. Investigative samples of an analytical batch associated with method-blank results outside of acceptance limits will be appropriately qualified by the data-validation contractor.

5.8.4 Laboratory Control Samples

LCSs are prepared by spiking laboratory-certified, reagent-grade water with the analytes of interest or a certified reference material that has been prepared and analyzed. The result for percent recovery of the LCS is a data-quality indicator of the accuracy of the analytical method and laboratory performance.

5.8.5 Laboratory Duplicate Samples

Laboratory duplicate samples (LDSs) are prepared by the laboratory by splitting an investigative sample into two separate aliquots and performing separate sample preparation and analysis on each aliquot. The results for relative percent difference of the primary investigative sample and the

respective LDSs are used to measure precision in the analytical method and laboratory performance. For nonaqueous matrices, sample heterogeneity may affect the measured precision for the LDSs.

5.9 Field QC

The following samples will be prepared by the sampling personnel in the field and submitted to the laboratory:

- Equipment Rinsate Blanks—To ensure that decontamination procedures are sufficient, an equipment rinsate blank will be collected when nondedicated, nondisposable equipment is used. At least one equipment rinsate blank will be collected for every 20 samples collected. If more than 20 samples are collected with the same equipment, or if high concentrations of contaminants are encountered, additional equipment rinsate blanks may be collected. Equipment rinsate blanks will be collected by passing laboratory-deionized/distilled water through or over nondisposable sampling equipment.
- Trip Blanks—A trip blank monitors the potential for sample contamination during sample collection and transport. A trip blank consists of reagent-grade water in a new sample container, which is prepared at the same time as the sample containers. The trip blank will accompany the samples throughout collection, shipment, and storage. At least one trip blank should be included with each cooler in which samples for volatile organic compound analyses are stored.
- **Field Duplicates**—Field duplicates are collected to measure sampling and laboratory precision. At least one duplicate sample will be collected for every 20 samples.

5.10 Data Reduction, Validation, and Reporting

The analytical laboratory will submit analytical data packages that include laboratory QA/QC results to permit independent and conclusive determination of data quality. Data quality will be determined by MFA, using the data-evaluation procedures described in this section. The results of the MFA evaluation will be used to determine if the project-data quality objectives are being met.

5.10.1 Field Data Reduction

Daily internal QC checks will be performed for field activities. Checks will consist of reviewing field notes and field activity memoranda to confirm that the specified measurements, calibrations, and procedures are being followed. The need for corrective action will be assessed on an ongoing basis, in consultation with the project manager.

5.10.2 Laboratory Evaluation

Initial data reduction, evaluation, and reporting at the analytical laboratory will be, as appropriate, carried out as described in USEPA SW-846 manuals for analyses (USEPA, 1986). Additional laboratory data qualifiers may be defined and reported to further explain the laboratory's QC concerns

about a particular sample result. Additional data qualifiers will be defined in the laboratory's case-narrative reports.

5.10.3 Data Deliverables

Laboratory data deliverables are listed below. Electronic deliverables will contain the same data that are presented in the hard-copy report.

- Transmittal cover letter
- Case narrative
- Analytical results
- COC
- Surrogate recoveries
- Method-blank results
- MS/MSD results
- Laboratory duplicate results
- Laboratory data qualifiers and associated definitions

5.10.4 MFA Evaluation

5.10.4.1 Data QA/QC Review

MFA will evaluate the laboratory data for precision, completeness, accuracy, and compliance with the analytical method. MFA will review data according to applicable sections of USEPA organic and inorganic procedures (USEPA, 2008, 2010), as well as appropriate laboratory method-specific guidelines (USEPA, 1986).

Data qualifiers, as defined by the USEPA, are used to classify sample data according to their conformance to QC requirements. Common qualifiers are listed below:

- J—Estimate, qualitatively correct but quantitatively suspect.
- R—Reject, data not suitable for any purpose.
- U—Not detected at a specified reporting limit.

Poor surrogate recovery, blank contamination, or calibration problems, among other issues, can require qualification of the sample data. When sample data are qualified, the reasons for the qualification should be stated in the data evaluation report.

QC criteria not defined in the guidelines for evaluating analytical data are adopted, where appropriate, from the analytical method.

The following information will be reviewed during data evaluation, as applicable:

- Sampling locations and blind sample numbers
- Sampling dates
- Requested analysis
- COC documentation
- Sample preservation
- Holding times
- Method blanks (if analyzed)
- Surrogate recoveries
- MS/MSD results
- Laboratory duplicates (if analyzed)
- Field duplicates
- Field blanks (if analyzed)
- LCSs
- Method-reporting limits above requested levels
- Additional comments or difficulties reported by the laboratory
- Overall assessment

The results of the data-evaluation review will be summarized for each data package. Data qualifiers will be assigned to sample results on the basis of USEPA guidelines, as applicable.

5.10.4.2 Data Management and Reduction

MFA uses the database EQuISTM to manage laboratory data. The laboratory will provide the analytical results in electronic, EQuIS-compatible format. After data evaluation, data qualifiers will be entered into the database. Following validation, complete data packages will be uploaded to Ecology's Environmental Information Management database.

Data may be reduced to summarize particular data sets and to aid interpretation of the results. Statistical analyses may also be applied to results. Data-reduction QC checks will be performed on hand-entered data, calculations, and graphically displayed data. Data may be further reduced and managed using one or more of the following computer-software applications:

- Microsoft Excel® (spreadsheet)
- EQuISTM (database)
- Microsoft Access® (database)
- AutoCad and/or Arc GIS (graphics)
- USEPA ProUCL (statistical software)

6 reporting

After the data are received, MFA will generate a data report in accordance with Ecology reporting requirements [WAC 173-340-840(5)], which will summarize and screen the data against the applicable criteria.

LIMITATIONS

The services undertaken in completing this plan were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This plan is solely for the use and information of our client unless otherwise noted. Any reliance on this plan by a third party is at such party's sole risk.

Opinions and recommendations contained in this plan apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this plan.

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TABLE



Table Groundwater Sample Handling Summary Former Truck City Site Mt. Vernon, Washington

Analyte	Method	Suggested Volume	Container	Number of Containers	Preservative	Storage Temperature	Holding Time from Collection	
Gasoline-range organics	NWTPH-Gx	40 milliliters	VOA	3	HCL pH < 2	4°C	14 days	
Diesel-range organics	NWTPH-Dx	500 milliliters	Amber Glass	2	HCL pH < 2	4°C	14 days	
ВТЕХ	USEPA 8021B/8260	40 milliliters	VOA	3	HCL pH < 2	4°C	14 days	
Nitrate	USEPA 353.2	500 milliliters	poly	1 unpreserved		4°C	14 days	
Manganese	USEPA 6020A	500 milliliters	poly	1	HNO3	4°C	14 days	
Ferrous Iron	USEPA ApplEnvMic7-87- 1536	500 milliliters	Amber Glass	1	HCL pH < 2	4°C	14 days	
Sulfate	ASTM D516-02	500 milliliters	poly	1	unpreserved	4°C	14 days	
Methane	RSK 175	40 milliliters	VOA	2	HCL pH < 2	4°C	14 days	

NOTES:

°C = degrees Celsius.

BTEX = benzene, toluene, ethylbenzene, xylenes.

HCL = hydrochloric acid.

HNO3 = nitric acid.

NWTPH = Northwest Total Petroleum Hydrocarbons.

USEPA = U.S. Environmental Protection Agency.

VOA = volatile organic analysis vial.

APPENDIX A BORING LOG FORM





Boring Log Form

	Boring/Well No.:
Site:	
Location:	
Project #:	

rill Rig			MFA Staff:					Total Depth:
rilling Co.:					Water Level:		WLE Note:	
art Date:		End Date	:		Water Level:		WLE Note:	
ompletion		Sample	1				Lithology	
	Тор:	Time:	Depth:	Soil Type:	F		Color:	
	Length:			Тор:	Fines:			Moisture:
	Type:	Sam	ple ID	Bottom:	Sand:			PID:
	% Recov:			Soil Class:	Gravel:			Line Type:
				Trace:			Impacts:	
				Notes:				
	Тор:	Time:	Depth:	Soil Type:			Color:	
	Length:			Top:	Fines:			Moisture:
	Type:	Sam	ple ID	Bottom:	Sand:			PID:
	% Recov:			Soil Class:	Gravel:			Line Type:
				Trace:			Impacts:	
				Notes:				
	Top: Time:		Depth:	Soil Type:			Color:	
	Length:			Тор:	Fines:			Moisture:
	Type:	Sam	ple ID	Bottom:	Sand:			PID:
-	% Recov:			Soil Class:	Gravel:			Line Type:
	1	•		Trace:	11.		Impacts:	
				Notes:			·	
	Тор:	Time:	Depth:	Soil Type:			Color:	
	Length:		'	Тор:	Fines:			Moisture:
	Туре:	Sample ID		Bottom:	Sand:			PID:
	% Recov:			Soil Class:	Gravel:			Line Type:
	1	•		Trace:	11.		Impacts:	, , ,
				Notes:			·	
	Тор:	Time:	Depth:	Soil Type:			Color:	
	Length:		,	Тор:	Fines:			Moisture:
	Туре:	Sam	ple ID	Bottom:	Sand:			PID:
	% Recov:	oampio ib		Soil Class:	Gravel:			Line Type:
		l .		Trace:			Impacts:	- /1
				Notes:				
	Тор:	Time:	Depth:	Soil Type:			Color:	
	Length:			Тор:	Fines:			Moisture:
	Туре:	Sam	ple ID	Bottom:	Sand:			PID:
	% Recov:	00	.0.0.12	Soil Class:	Gravel:			Line Type:
	, , , , , , , , , , , , , , , , , , , ,			Trace:			Impacts:	2
				Notes:				
	Тор:	Time:	Depth:	Soil Type:			Color:	
	Length:		Вории	Top:	Fines:		30.01.	Moisture:
	Type:	Sam	ple ID	Bottom:	Sand:			PID:
	% Recov:	3011	יטו טוקי	Soil Class:	Gravel:			Line Type:
	70 NOCOV.			Trace:	Oldvel.		Impacts:	LITIO TYPE.
				Notes:			ппраста.	
Darak - I -				140163.				
Borehole Notes:								

APPENDIX B FIELD SAMPLING DATA SHEET FORM



Maul Foster & Alongi, Inc.

7223 NE Hazel Dell Avenue, Suite B, Vancouver, WA 98665 (360) 694-2691 Fax. (360) 906-1958

Soil Field Sampling Data Sheet

Client Name			Sample Location									
Project Number			Sampler	Sampler								
Project Name			Sampling 1	Sampling Date								
Sampling Event			Sample Na	me								
Sub Area			Sample De	Sample Depth								
FSDS QA:			Easting	N	orthing	g TOC						
Sample Informatio	n											
Sampling Method	Sample Type	Sample Category	PID/FID	Sampling	g Time	Container Code	#					
(1) Backhoe	Liquid	Composite				2 oz. soil						
						4 oz. soil						
						8 oz. soil						
						Other						
						Total Containers	0					
Sample Description	n:											
General Sampling	Comments											
•												
Sampling Method Code:												

Signature

Maul Foster & Alongi, Inc.

7223 NE Hazel Dell Avenue, Suite B, Vancouver, WA 98665 (360) 694-2691 Fax. (360) 906-1958

Water Field Sampling Data Sheet

Client Nam	e				Sai	mple I 4	ocation	1				\neg		
Project #					Sample Location Sampler							=		
	Project Name Sampling Event													
							Sampling Date							
Sampling E							ame	<u> </u>						
Sub Area					Sa	mple D	epth							
FSDS QA:					Eas	ting		Northi	ng		TOC			
Hydrology/Level	Measure	ments												
			DE D				oduct Thicknes			ter Column)			ater Column)	
Date	Time	DT-Bottom	DT-Product	DT-	Wate	r l	DTP-DTW		DI	B-DTW	Po	re Vo	olume	
(0.75" = 0.023 gal/f	t) (1" = 0.041	gal/ft) (1.5" = 0.092	gal/ft) (2" = 0.163	Gal/ft)	(3" =) 367 gal/f	(4'' = 0.6)	53 gal/ft)	′6" =	1 469 gal/ft	(8" = 2.61	1 oal/	(ft)	
Water Quality D		gai/11) (1.5 = 0.072	gai/1t) (2 = 0.105	gui/it)	(5 –	0.507 gai/1	t) (+ = 0.0.	33 gui/1t)	.0 =	1.40) gai/10	.) (0 = 2.01	i gai	11)	
Purge Method	Time	Purge Vol (gal)	Flowrate l/min	pI	I	Temp (C) E Cond	l (uS/cm)	DO) (mg/L)	ЕН	Tu	rbidity	
Final Field Parameters														
Madada	1) C1:1-1-	Donner (2) Device leie D	(2) Disassalla I	2-:1(4)	V	D (5	Dediested	D-:1 (6) I		D (7) O	1(:6-)			
Vater Quality Obs		Pump (2) Peristaltic P	ump (3) Disposable i	Saller (4)	vacut	m Pump (5) Dedicated I	Baller (6) I	nertia	Pump (7) Ot	ner (specify)			
ater Quanty Obs	ci vations													
Sample Informati	on													
Sampling Method		Sample Type	e	Samplir	ng Tir	ne	Container	Code/Pro	eserva	itive	#	Filt	tered	
		Groundwater						OA-Glas						
								mber Glas White Poly						
								ellow Pol						
								Green Poly						
								d Total Po	-					
								Dissolved			0			
							10	tal Bottl	CS		J			
General Sampling	Comme	ents												
General Sampling	, comme													

Water