Final Remedial Investigation/Feasibility Study

Taxiway F Site, Skagit Regional Airport
Skagit County, Washington
Ecology Agreed Order No. 6158

for

Washington State Department of Ecology on Behalf of Port of Skagit County

January 10, 2011

GeoEngineers
Earth Science + Technology

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1.0 INTRODUCTION

This document presents the Final Remedial Investigation/Feasibility Study (RI/FS) for the Taxiway F Site (the Site) located at the Skagit Regional Airport in Burlington, Washington (Figure 1). The Port of Skagit County (Port) is performing the RI/FS in accordance with Washington State Department of Ecology (Ecology) Agreed Order No. 6158 (the Agreed Order; Ecology, 2009), the Model Toxics Control Act (MTCA) and associated implementing regulations (i.e., Chapter 173-340 Washington Administrative Code [WAC]). The Site is formally referenced in the Ecology databases as the "Skagit County Port Site" (Ecology Facility/Site ID# 67457634).

This document presents the results of RI activities that were completed between September 2009 and September 2010 in general accordance with GeoEngineers, Inc. (GeoEngineers) "Final Work Plan, Remedial Investigation/Feasibility Study, Taxiway F Site, Skagit Regional Airport," dated July 31, 2009 (Work Plan; GeoEngineers, 2009). The results of previous investigations conducted prior to 2009 also are incorporated in this report. The "Draft Remedial Investigation/Feasibility Study, Taxiway F Site, Skagit Regional Airport," dated September 14, 2010, was submitted to Ecology for review in accordance with the requirements of the Agreed Order. Comments provided by Ecology have been incorporated into this Final RI/FS.

The Port has owned the Site property since approximately the mid-1960s and, from approximately 1978 to 2000, periodically leased parts of the property to various businesses performing aerial pesticide application (crop dusting). Environmental investigations conducted at the Site between 2001 and 2009 have detected pesticides and herbicides at concentrations exceeding regulatory screening criteria in soil, groundwater, and surface water (Environmental Associates, Inc. [EAI], 2000; GeoEngineers, 2001, 2004, and 2009; HartCrowser, 2006 and 2008b).

1.1 Statement of Objectives

The objectives of this document are to: (1) summarize the results of all investigations completed to date for the purpose of characterizing the nature and extent of contamination at the Site; and (2) evaluate cleanup action alternatives for addressing the identified Site contamination.

1.2 Report Organization

This report is organized as follows:

- Section 1.0 briefly describes the Site and presents the objectives and organization of the RI/FS report.
- Section 2.0 describes the Site history, previous investigations, and the environmental setting of the Site. In addition, this section summarizes current and future land use, exposure pathways and receptors for Site contamination, and the regulatory framework for Site investigation and cleanup.
- Section 3.0 describes the development of cleanup standards and the results of the RI.
- Section 4.0 presents the Site FS.
- Section 5.0 presents limitations for use of this report.

- Section 6.0 presents references used to prepare this report.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 Historical Operations and Site Uses

Taxiway F of the Skagit Regional Airport was constructed in 1933 as the original runway of a one-runway airfield for light airplanes. In 1943 the U.S. Navy constructed the airport's existing two-runway system as an alternate training field for the Whidbey Island Naval Air Station. After World War II, the federal government continued to operate the airport, primarily for the Civil Air Patrol, until transferring the facility to Skagit County in 1958. In 1965 the airport was conveyed to the joint ownership of Port of Anacortes and Port of Skagit County. The Port of Skagit County (Port) assumed full ownership and operation of the airport in 1975. Prior to 1978, the Site and the surrounding property were used for cattle grazing and farm equipment storage by Ray Jensen, John Petter, and Peth and Sons.

Between 1978 and 2000, the Port leased the portion of the Site immediately adjacent to the taxiway to a series of individuals and companies engaged in the business of crop dusting. In 1978, the Port leased the property to Swanland-Karr, Inc. for crop dusting operations. In 1982, Swanland-Karr, Inc. proposed to construct the hangar building that currently exists at the Site for aircraft parking and materials storage, including storage of chemicals used for crop dusting. William Swanland and Swanland-Belisle, Inc. leased the property in 1985; pesticide products used by the lessee were reported in 1988 to include Dinoseb, Parathion, Thiodon, Chemho-IPC, and Simazon. Environmental review of the leased property performed in 1988 by the Port identified staining in some of the work areas and an apparent oil release on the property. The Port provided the results of the environmental review and suggestions for addressing the identified issues to the lessee. In 1992, the lease was assigned to Belisle Bros. Crop-Dusting, Inc. for continued use for crop dusting activities. In 1993, the lease of the Site property was assigned to Curt Tronsdal and Tronsdal Air Service, Inc. In 1998, the lease of the Site property was assigned to Skagit Ag Services, Inc., which leased the property until the Port discontinued leasing the property in 2000.

Figure 2 shows the main Site features. Pesticides and herbicides reportedly were stored in the hangar building and loaded onto aircraft for use. After the fenced operations area was vacated by the crop dusting operation in 2000, the Port discovered discolored soil in the vicinity of the hangar building.

2.2 Previous Investigations

Several phases of environmental investigation were completed at the Site prior to the most current (2009-2010) RI activities. The previous investigations are summarized in the Ecology-Approved Work Plan (GeoEngineers, 2009) and are described in detail in the following reports:

- Soil Sampling and Testing Report (EAI, 2000)
- Supplemental Soil and Groundwater Sampling Report (GeoEngineers, 2001)
- Supplemental Surface Soil and Water Sampling and Testing Report (GeoEngineers, 2004)
- Terrestrial Ecological Evaluation and Status Report (Pentec, 2005)

- Focused RI/FS (HartCrowser, 2006)
- Critical Areas Report – Wetlands (HartCrowser, 2007)
- Wetland Restoration Plan (HartCrowser, 2008a)
- Focused RI/FS Addendum (HartCrowser, 2008b)
- Draft Cleanup Action Plan (HartCrowser, 2008c)
- Draft Engineering Design Report (HartCrowser, 2008d)

The extensive Site characterization data collected during previous investigations have been incorporated into this RI/FS. A sampling and analytical testing summary that lists samples collected during the previous and current (2009-2010) investigations is presented in Table 1. Tabulated analytical data from the previous investigations are provided in Appendices A through D. Appendix A includes analytical data (on CD-ROM) for the sampled media at the Site (soil, groundwater, and surface water); Appendices B, C, and D include analytical results for detected constituents only in soil, groundwater, and surface water. Appendix E contains historical (pre-2009) groundwater elevation data. Figures 3 and 4 depict previous investigation sampling locations.

2.3 Environmental Setting

2.3.1 Soil

Shallow soils at the Site typically consist of 1 to 3 feet of fine to coarse sand and gravel. Clay and silt deposits are present beneath the shallow sand and gravel horizon to depths of approximately 50 to 85 feet below ground surface (bgs). Fine to medium sand deposits with varying amounts of silt and gravel underlie the clay/silt unit to a depth of at least 115 feet bgs (the maximum depth explored at the Site). Published geologic maps for the Site vicinity suggest that much of the material underlying the Site consists of Vashon recessional outwash deposits (poorly sorted sands and gravel, with small amounts of silt and clay; Jones, 1999). Three soil/debris piles are located within, and just outside of, the eastern portion of the historical operations area (Figure 2). The soil/debris piles appear to consist of soil and plant/organic debris, possibly from past land clearing activities.

2.3.2 Groundwater

During wet weather conditions, shallow, unconfined, perched groundwater periodically develops near the interface between the shallow sand/gravel horizon and the underlying clay/silt at depths of 2 to 3 feet bgs. Deep, unconfined groundwater occurs at a depth of about 100 feet bgs in the fine to medium sand deposits below the clay/silt unit. A livestock supply well near the northeast corner of the historical operations area (Figure 2) obtains its water from this deep sandy aquifer. The approximate groundwater flow direction in the deep aquifer is toward the southwest, based on groundwater level measurements taken at the Site (wells MW-1, MW-2, and MW-3) in December 2009, March 2010, June 2010, and September 2010 (Figures 12 to 15). The perched groundwater in the shallow sand/gravel horizon is separated from the deep aquifer by the ~50- to 85-foot thick clay/silt unit. Section 3.3.2 discusses Site hydrogeology in further detail.

2.3.3 Surface Water

During wet weather conditions, rainwater runoff from the historical operations area is conveyed to adjacent pastureland and a forested wetland to the southeast of the operations area (see next section). Rainfall and runoff in these areas generally either immediately infiltrates shallow soils (dry season) or accumulates in multiple shallow pools (wet season) while it slowly infiltrates soils, is transported downgradient, and/or gradually evaporates. These surface water features (channelized and overland runoff, local ponding) are temporary or seasonal in nature, and are generally not present, or are only temporarily present, during the dry season. Although localized, short-term ponding and channelized flow of rainwater runoff can occur at the Site during the wet season, the Site does not contain a permanent surface water body. No permanent surface water bodies exist in the vicinity of the Site that are hydraulically connected by surface drainages to the Site's temporary surface water features. The closest surface water drainage features, No Name Creek and Indian Slough, are located approximately 1 mile west of the Site and 1.25 miles southeast of the Site, respectively (Figure 1).

2.3.4 Wetlands

A mixed deciduous-coniferous forested wetland makes up the southeastern two thirds of the Site area (Figure 2). During wet weather conditions, the wetland receives partial runoff from the historical operations area via a shallow, narrow drainage channel/swale that begins at the eastern boundary of the historical operations area and extends to the southeast.

2.4 Current and Likely Future Land Use

The Site is located on property classified by Skagit County as Aviation Related (AVR) zoning. The Port currently uses the hangar building for storage of maintenance equipment. The Port has no plans to rezone the property, and does not anticipate any future changes to the current land use (light industrial).

2.5 Exposure Pathways and Receptors of Potential Concern

Pesticides and herbicides released from historical crop dusting operations and materials storage have impacted shallow soil and perched groundwater at the Site. The soil was directly impacted by spills of pesticides and herbicides in and around the historical operations area. Rainwater runoff from the historical operations area facilitates transport of contaminated soil, which ultimately reaches the wetland area via the drainage channel. Deposition of the contaminated soil results in contamination of the drainage channel and wetland. Perched groundwater is impacted by the past releases of pesticides and herbicides to shallow saturated soil, through leaching of these substances from contaminated soil to groundwater during infiltration of precipitation and seasonal fluctuations of perched groundwater levels. Potential exposure pathways related to these media are discussed below.

2.5.1 Soil

The following potential exposure pathways and receptors exist for contaminants that may be present in Site soil:

- Direct contact (dermal, incidental ingestion, or dust inhalation) by Site visitors and workers (including construction workers);
- Direct contact (dermal, incidental ingestion, or dust inhalation) by domestic animals (livestock) and terrestrial wildlife; and
- Leaching to shallow groundwater.

2.5.2 Groundwater

The following potential exposure pathways and receptors exist for contaminants that may be present in Site groundwater:

- Direct contact (dermal or ingestion) with groundwater in the deep aquifer (via the spigot connected to the existing livestock well or via future domestic supply wells that may be installed in the vicinity) by Site visitors/workers, domestic animals (livestock), and terrestrial wildlife; and
- Direct contact (dermal or ingestion) with perched groundwater during wet weather conditions by Site visitors/workers (dermal contact only), domestic animals (livestock), and terrestrial wildlife (via daylighting of perched groundwater).

Ingestion of perched groundwater by humans is not considered a potential exposure pathway of concern because the perched groundwater is not currently being used as drinking water, and is limited to a thin, shallow (0 to 3 feet bgs) soil horizon that is not capable of yielding significant quantities of water for domestic use (based on observed recharge rates in shallow monitoring wells that were installed and sampled during the current [2009-2010] investigation; see Section 3.3.1). Although Site visitors and workers may occasionally have incidental dermal contact with perched groundwater during wet weather conditions, such contact would be expected to be very infrequent and of short duration.

2.6 Regulatory Framework

In August 2001, the Port notified Ecology of the contamination discovered at the Site. In March 2002, the Site was added to Ecology's Contaminated Sites List. The initial investigation results were summarized in several reports prepared between 2001 and 2004 (previous reports are listed in Section 2.2). In May 2004, the Port entered the Site in Ecology's Voluntary Cleanup Program (VCP).

From 2005 to 2008, under the VCP, the Port completed a "Focused RI/FS" and prepared a "Draft Cleanup Action Plan" (DCAP) and supporting documents (see Section 2.2 for a list of previous reports)[1] The Focused RI/FS (HartCrowser, 2006 and 2008b) documented the presence of

[1] Previous reports produced under the VCP were labeled with terms analogous to those used for deliverables in the MTCA formal process (i.e., "RI/FS," "Cleanup Action Plan"). However, the Port recognizes that the actual RI/FS and CAP are being produced pursuant to the Agreed Order and subsequent orders or consent decrees with Ecology. The previously produced VCP documents listed in Section 2.2 of this report are referred to by the labels originally given to them for ease of reference.

pesticides and herbicides in soil, shallow groundwater, and surface water at the Site with concentrations exceeding MTCA Method A and/or Method B cleanup levels. The DCAP prepared under the VCP was not finalized because the Site entered the formal MTCA cleanup process. At the Port's request, the Site was removed from the VCP on February 3, 2009. On April 10, 2009, the Port entered into an Agreed Order with Ecology to complete an RI/FS (Ecology, 2009).

3.0 REMEDIAL INVESTIGATION

3.1 Development of Cleanup Standards

Cleanup standards consist of: (1) cleanup levels that are protective of human health and the environment, (2) the point of compliance at which the cleanup levels must be met, and (3) additional regulatory requirements that apply to a cleanup action because of the type of action and/or the location of the site. The additional requirements are specified in applicable state and federal laws and are generally established in conjunction with the selection of a specific cleanup action. Typically, preliminary screening levels or cleanup standards are developed during the RI phase of a cleanup project, whereas proposed final cleanup standards are developed during the FS and are used in the development and evaluation of cleanup action alternatives. The actual final cleanup standards used to assess compliance of a cleanup project with MTCA are typically established by Ecology in the cleanup action plan (CAP).

For the Taxiway F Site cleanup project, a significant amount of data from previous investigations existed that required evaluation relative to potentially applicable regulatory criteria. Consequently, preliminary cleanup levels were developed for soil and groundwater in the RI/FS Work Plan (GeoEngineers, 2009). The Work Plan indicated that proposed cleanup standards for future cleanup actions would be developed in the FS. However, since this report presents the RI and FS methods and results in a single document, and the RI description of the nature and extent of contamination is most meaningful when discussed in the context of applicable regulatory cleanup criteria, proposed cleanup levels and points of compliance for the Site are developed in this RI section of the RI/FS report rather than in the FS section (Section 4.0). The technical and procedural requirements posed by additional applicable state and federal regulatory requirements will be identified in the CAP and considered in the evaluation of the proposed cleanup alternative.

3.1.1 Proposed Cleanup Levels

This section describes the proposed cleanup levels for soil and groundwater at the Site. The proposed cleanup levels are the same as the preliminary cleanup levels developed in the Work Plan (GeoEngineers, 2009). The Work Plan provides additional details describing cleanup level development. As described in the Work Plan, cleanup levels for surface water have not been developed for the Site because no permanent surface water features exist, and the Site is not hydraulically connected to other permanent surface water bodies in the area.

3.1.1.1 SOIL

MTCA Method B cleanup levels were selected as the proposed soil cleanup levels. Under MTCA Method B, soil cleanup levels must be as stringent as:

- Concentrations established under applicable state and federal laws;

- Concentrations protective of terrestrial ecological receptors;
- Concentrations protective of direct human contact with soil; and
- Concentrations protective of groundwater.

Preliminary soil cleanup levels for the Site were developed during preparation of the RI/FS Work Plan (GeoEngineers, 2009) from MTCA Method B standard formula values for unrestricted land use, MTCA Method B soil concentrations protective of groundwater (calculated using Ecology's fixed-parameter, three-phase partitioning model), and Site-specific terrestrial ecological evaluation (TEE) concentrations protective of wildlife (calculated using Ecology's wildlife exposure model). In addition to these criteria, natural background soil metals concentrations in Washington state (Ecology, 1994) were considered in accordance with Washington Administrative Code (WAC) 173-340-705(6) and WAC 173-340-709. The lowest applicable regulatory criteria, adjusted for natural background metals concentrations, were selected as the preliminary soil cleanup levels. Details regarding the sources/derivation of each of the regulatory criteria are provided in the RI/FS Work Plan. The preliminary soil cleanup levels developed during preparation of the Work Plan have been adopted in this RI/FS report as the proposed soil cleanup levels for the Site. The proposed soil cleanup levels are presented in Table 2.

3.1.1.2 GROUNDWATER

As discussed in Section 2.5.2, perched groundwater at the Site is not currently used for drinking water. The perched groundwater zone is not a reasonable future source of drinking water because it is very shallow (0 to 3 feet bgs) and appears to have very low transmissivity. However, as a conservative measure, the proposed cleanup levels for Site groundwater (including perched groundwater and groundwater in the deeper aquifer beneath the clay/silt unit) are based on protection of potential future groundwater use as drinking water. As described in the Work Plan, preliminary groundwater cleanup levels were developed from available State and Federal regulatory criteria in accordance with MTCA requirements (WAC 173-340-720). The preliminary cleanup levels were selected from the following criteria:

- MTCA Method B standard formula values (carcinogen and non-carcinogen) for potable groundwater; and
- Federal Maximum Contaminant Levels (MCLs), where deemed to be sufficiently protective (that is, where the risk associated with the MCL is less than 1 in 100,000), in accordance with WAC 173-340-720(4)(b).

In addition to the criteria listed above, analytical practical quantitation limits (PQLs) and natural background groundwater metals concentrations in Washington state (PTI, 1989) were considered in accordance with WAC 173-340-705(6), WAC 173-340-707 and WAC 173-340-709. The lowest applicable numeric regulatory criteria, adjusted for PQLs and natural background metals concentrations, were selected as the preliminary groundwater cleanup levels in the Work Plan. Details regarding the sources/derivation of the above regulatory criteria are provided in the RI/FS Work Plan. The preliminary groundwater cleanup levels developed during preparation of the Work Plan have been adopted in this RI/FS report as the proposed groundwater cleanup levels for the Site. The proposed groundwater cleanup levels are presented in Table 3.

3.1.2 Points of Compliance

Under MTCA, the point of compliance is the point or locations on a site where the cleanup levels must be attained. This section describes the proposed points of compliance for soil and groundwater.

3.1.2.1 SOIL

In accordance with WAC 173-340-740(6)(b), for soil cleanup levels that are based on protection of groundwater, the proposed point of compliance is in soil throughout the Site. In accordance with WAC 173-340-740(6)(e), WAC 173-340-7490(4)(b), and WAC 173-340-740(6)(d), for soil cleanup levels that are based on ecological considerations (e.g., protection of wildlife) or human exposure via direct contact, the proposed point of compliance is in soil throughout the Site from the ground surface to 15 feet bgs.

3.1.2.2 GROUNDWATER

In accordance with WAC 173-340-720(8)(b), the proposed point of compliance is throughout the Site from the uppermost level of the saturated zone extending vertically to the lowermost depth which could potentially be affected by the Site. The current network of five shallow and three deep groundwater monitoring wells is proposed to be used to assess compliance with the groundwater cleanup levels.

3.2 2009-2010 Soil Investigation and Results

The results of investigations completed prior to 2009 are summarized in the RI/FS Work Plan (GeoEngineers, 2009). This section presents a summary of the soil investigation activities conducted in 2009 and 2010. A comprehensive sampling and analytical testing summary that lists all samples collected during the previous and current (2009-2010) investigations is included as Table 1.

The 2009-2010 soil investigations were completed in general accordance with the Ecology-approved Work Plan and associated Quality Assurance Project Plan (QAPP; Appendix A of the Work Plan), as well as the Supplemental Soil Characterization Sampling and Analysis Plan (SAP; GeoEngineers, 2010b). Deviations from the Work Plan and Supplemental Soil Characterization SAP are described below, where appropriate.

3.2.1 Soil Investigation and Related Survey Activities

In 2009 and 2010, additional soil investigations were performed to complete the delineation of the vertical and lateral extent of constituents of concern (COCs) in soil. The investigation included surface and subsurface soil sampling to address the data gaps for soil identified in the Work Plan (GeoEngineers, 2009).

3.2.1.1 SEPTEMBER AND OCTOBER 2009 SOIL SAMPLING

Between September 10 and October 1, 2009, a total of 24 hand auger borings (GEI-1 through GEI-24) were completed to depths ranging from approximately 0.8 feet to 3 feet bgs. The sampling locations are shown in Figure 6. Boring logs are included as Appendix F. Photographs of the field work are included as Appendix H. The methods and procedures used for soil sampling are presented in the Work Plan and associated QAPP (GeoEngineers, 2009).

Field screening (sheen testing and headspace vapor screening using a photoionization detector [PID]) was conducted to evaluate the potential presence of petroleum-related constituents and volatile organic compounds (VOCs) in soil samples. For part of the field investigation, the PID was not used due to malfunction, or because previous screening with the PID indicated there were no detectable organic vapors present in Site soil. No elevated PID readings were obtained for any of the samples that were screened.

On September 10 and 11, 2009, 22 hand auger borings (GEI-1 through GEI-22) were completed. Four of the locations (covered by asphalt or concrete) were cored with a concrete corer beforehand (GEI-2, GEI-5, GEI-6, and GEI-7). Two soil samples were obtained from each of the hand auger locations. At each of the locations where surface soil samples were obtained from the 0 to 0.5-foot depth interval, a second (deeper) sample was obtained between 0.5 and 1 foot bgs. The second (deeper) sample obtained at each location was held at the laboratory for possible follow-up analysis based on the analytical results obtained for the shallower sample. The shallow sample from hand auger location GEI-2 was obtained from 0.5 to 0.6 feet bgs instead of the 0 to 0.5-foot interval due to the presence of concrete in the upper 0.5 feet.

Soil samples were submitted to Edge Analytical Laboratories, an Ecology-certified laboratory in Burlington, Washington, for analysis of selected COCs as shown in Table 1. In accordance with the Work Plan, all shallow soil samples were analyzed for total endosulfans (endosulfan I, endosulfan II, and endosulfan sulfate). Selected samples obtained near previous sampling locations where other COCs besides endosulfans exceeded preliminary cleanup levels (such as dieldrin, toxaphene, and dinoseb) also were analyzed for additional COCs as shown in Table 1.

GeoEngineers returned to the Site on October 1, 2009 to conduct follow-up sampling of soil based on preliminary cleanup level exceedances in several of the samples collected in September 2009. Hand augering was completed at previous hand auger locations GEI-9, GEI-13, and GEI-20. In addition, two new hand auger borings (GEI-23 and GE-24) were completed approximately 40 feet west of GEI-13 and GEI-14, respectively. Two soil samples were obtained at each location. At GE-9, GEI-13, and GEI-20, one sample was obtained from the depth interval of 1 to 2 feet bgs, and a deeper sample (to be held by the laboratory for possible follow-up analysis) was obtained from the depth interval of 2 to 3 feet bgs. At GEI-23 and GEI-24, a shallow sample was obtained from the depth interval of 0 to 0.5 feet bgs and a deeper sample was obtained from the 0.5 to 1-foot depth interval. These follow-up soil samples were submitted to Edge Analytical Laboratories for analysis of selected COCs as shown in Table 1.

3.2.1.2 FEBRUARY 2010 MATURE CONIFER TREE SURVEY

In February 2010, mature conifer trees in the vicinity of the area of known soil impacts in the wetland area were identified and marked with surveyor's flagging by Walter Michalec of Michalec and Associates. The purpose of the tree survey was to locate trees that are critical to the overall habitat function of the wetland area in the vicinity of the known contamination so that protection measures could be evaluated during the development of cleanup remedies.

As part of the survey, a number was assigned to each tree. The tree number, tree species, and the tree diameter at breast height were written on the flagging and recorded in a notebook. A total of 58 mature conifer trees were identified (cedar and Douglas fir). The locations of these trees were surveyed on February 23, 2010 by Leonard, Boudinot and Skodje (LBS) of Mount Vernon,

Washington. In addition to surveying the locations of mature conifer trees, LBS also prepared a map of the surface topography in the wetland area (0.5-foot elevation contours). The surface topography and the locations of the surveyed trees in the wetland area are shown in Figure 5.

3.2.1.3 JUNE 2010 SOIL SAMPLING

On June 17, 2010, GeoEngineers conducted supplemental soil sampling in the wetland area. A total of 26 hand auger locations (GEI-25 through GEI-50) were sampled to depths up to 1 foot bgs. The sampling locations are shown in Figure 6. Boring logs are included as Appendix F. Photographs of the field work are included as Appendix H. The scope of work is detailed in the Supplemental Soil Characterization SAP submitted to Ecology on May 21, 2010 (GeoEngineers, 2010b), which was approved by Ecology on May 27, 2010. The methods and procedures used for soil sampling are presented in the Work Plan and associated QAPP (GeoEngineers, 2009).

The purpose of the supplemental soil sampling was to: (a) better delineate the lateral extent of contamination (COC exceedances) in areas of the wetland where existing data were sparse; and (b) facilitate development of cleanup remedies that would minimize disturbance to mature conifer trees in the wetland area. Soil samples were collected at sixteen locations (GEI-25 to GEI-40) around the perimeter of previously delineated impacts. The perimeter samples were obtained from depth intervals of 0 to 0.5 feet bgs and 0.5 to 1 foot bgs. In addition, soil samples were collected at the root base of ten mature conifer trees (i.e., within the radius of the root mass; locations GEI-41 to GEI-50), from the 0 to 0.5-foot depth interval. Seven of these samples were collected at the root base of mature trees that are adjacent to previously identified contamination. The other three tree root-base samples were collected at step-out locations beyond the southern extent of the previously delineated area of impacts.

In accordance with the Ecology-approved Supplemental Soil Characterization SAP, the soil samples were submitted to OnSite Environmental, Inc., of Redmond, Washington, for analysis of endosulfans (Table 1). Some of the samples (i.e., those obtained from step-out locations and from the 0.5 to 1-foot depth interval) were held by the laboratory for possible follow-up analysis pending results for the initial set of samples analyzed. Several follow-up samples were analyzed, as discussed in Section 3.2.2.

3.2.2 Soil Investigation Results

The September/October 2009 soil investigation provided additional delineation of the lateral and vertical extent of COCs in soil. No sheen or PID readings above zero were observed during soil sampling. Chemical analytical results are presented in Table 4. Locations and depths where COCs exceed the proposed soil cleanup levels are shown in Figures 6 to 10. Appendix I includes laboratory analytical reports for the 2009-2010 soil samples, along with data quality assessment summaries. Soil boring logs are included in Appendix F.

Of the 24 hand auger locations sampled in September/October 2009, five (GEI-7, GEI-9, GEI-13, GEI-14, and GEI-20) had concentrations of either total endosulfans or dieldrin that exceeded the proposed soil cleanup levels:

- In the historical operations area, GEI-7 had an exceedance of total endosulfans at a depth of 0.2 to 0.3 feet bgs, and GEI-9 had exceedances of dieldrin at depths of 0.2 to 0.3 feet bgs and

0.8 to 1 foot bgs. The vertical extent of these exceedances is bounded by soil samples obtained from the next deeper interval at each location (i.e., 0.5 to 1 foot bgs and 1 to 2 feet bgs, respectively).

- In the wetland area, GEI-13, GEI-14, and GEI-20 had exceedances of total endosulfans. The exceedances at GEI-13 were at depths of 0.3 to 0.5 feet bgs and 0.8 to 1 foot bgs; the exceedance at GEI-14 was at a depth of 0.3 to 0.5 feet bgs; and the exceedance at GEI-20 was at a depth of 0.8 to 1 foot bgs. The vertical extent of these exceedances is bounded by soil samples obtained from the next deeper interval at each location (i.e., 1 to 2 feet bgs, 0.5 to 1 foot bgs, and 1 to 2 feet bgs, respectively).

The June 2010 supplemental soil sampling provided further delineation of the lateral and vertical extent of COCs in soil in the wetland area. No sheen or PID readings above zero were observed during soil sampling. Chemical analytical results are presented in Table 4; locations and depths of COC exceedances are shown in Figures 6 to 10. Appendix H includes laboratory analytical reports for the 2009-2010 soil samples, along with data quality assessment summaries. Soil boring logs are included in Appendix F. Findings from the supplemental soil sampling were as follows:

- **Wetland Area Perimeter Locations (Samples GEI-25 to GEI-40):** Of the seven borings where initial shallow (0 to 0.5-foot interval) samples were submitted for analysis (GEI-25 to GEI-31), only one boring had an exceedance of total endosulfans: GEI-26 (7.8 milligrams per kilogram [mg/kg] total endosulfans, compared to the proposed cleanup level of 2.4 mg/kg). Because of this exceedance, follow-up analyses for total endosulfans were performed on the deeper sample (0.5 to 1-foot interval) obtained from GEI-26 and the shallow (0 to 0.5-foot interval) sample from the associated step-out boring, GEI-33 (Table 4; Figure 6). Results showed that the deeper sample from GEI-26 did not exceed the cleanup level, but the total endosulfans concentration in the shallow sample from step-out boring GEI-33 (4.8 mg/kg) did exceed the cleanup level. The deeper sample (0.5 to 1-foot interval) from GEI-33 was then analyzed, and this sample did not exceed the cleanup level.
- **Tree Root-Base Locations (Samples GEI-41 to GEI-50):** All seven of the tree root-base samples submitted for analysis (GEI-41 to GEI-47) either did not have detections of total endosulfans or the concentrations of total endosulfans were below the cleanup level of 2.4 mg/kg. The maximum concentration of total endosulfans in the tree root-base samples was 1.8 mg/kg at location GEI-41.

3.3 2009-2010 Groundwater Investigation and Results

Previous groundwater investigations are summarized in the Work Plan (GeoEngineers, 2009). This section presents a summary of the recent (2009-2010) groundwater investigation activities conducted at the Site. Groundwater sampling was completed in general accordance with the Ecology-approved Work Plan and associated QAPP (GeoEngineers, 2009). Deviations from the Work Plan are described below, where appropriate.

3.3.1 Groundwater Investigation Activities

The 2009-2010 groundwater investigation consisted of installing, developing, and sampling five shallow monitoring wells (GEI-MW-4 through GEI-MW-8), sampling three existing deep monitoring wells (MW-1 to MW-3) and the (deep) livestock well, and measuring groundwater levels in the

monitoring wells. The methods and procedures used for well installation, sampling, development, surveying, and groundwater level measurement are presented in the Work Plan and associated QAPP (GeoEngineers, 2009).

The five shallow monitoring wells were sampled on a quarterly basis to address the data gaps for shallow (perched) groundwater identified in the Work Plan (GeoEngineers, 2009). The results of four rounds of quarterly sampling (December 2009, March 2010, June 2010, and September 2010) are presented in this report. In addition to quarterly sampling of the five shallow wells, the three existing deep monitoring wells (MW-1, MW-2, and MW-3) and the livestock well were sampled during the initial quarterly sampling round (December 2009), to obtain updated information on groundwater conditions in the deep aquifer.

On October 22, 2009, five 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) monitoring wells were installed to a depth of approximately 5 feet bgs in the perched groundwater zone by Boart Longyear, a Washington-licensed driller. Well locations are shown in Figure 2. Monitoring well logs are included as Appendix G.

Due to dry weather conditions, perched groundwater was scarce and recharge rates in the five new shallow monitoring wells were very low during the initial days and weeks following well installation. The shallow wells did not contain enough water for well development and sampling until mid to late November 2009. The new wells were developed by GeoEngineers on November 16 and 22, 2009. Well development consisted of surging the screened interval with a surge block and purging the wells. Water levels in the wells were slow to recover during well purging; consequently two trips to the Site were required to achieve the target minimum purge volume of five casing volumes.

Well casing elevations were surveyed by GeoEngineers on December 1, 2009, using a laser level. The casing elevations were referenced to a United States Geological Survey benchmark located on the west side of Taxiway F near the Site. The well casing elevations are listed in Table 5.

The initial groundwater sampling round was completed by GeoEngineers on December 1 and 2, 2009. The eight monitoring wells were sampled using low-flow techniques and either a peristaltic pump (shallow wells) or a submersible pump (deep wells). The livestock well was sampled at the associated spigot (located in the northeastern portion of the historical operations area) because the well discharge piping, electrical cable, and other equipment in the well and well vault prevented ready access to the water column in the well (see below).

Prior to sampling the wells, groundwater levels in the wells were measured, and the wells were purged until groundwater field parameters (pH, temperature, conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential) stabilized in accordance with the QAPP (Appendix A of the Work Plan; GeoEngineers, 2009). Considerable effort was required to measure the groundwater level in the livestock well. The top of the livestock well is inside a concrete vault, and consists of a bolted-down lid on the 6-inch well casing, with pipes and cables exiting the lid and angling towards the spigot in the historical operations area. The livestock well lid was unbolted and slid open just enough to allow the electronic water level indicator probe to be lowered down the well. In so doing, it was determined that a submersible sampling pump could not be lowered down the livestock well without removing the existing well pump and discharge hose/piping. This situation was communicated to Ecology, who approved sampling the livestock well at the spigot.

The livestock well was purged by opening the spigot and allowing the water to flow for at least five minutes prior to measuring field parameters.

After the monitoring wells were purged they were sampled. Both unfiltered and field-filtered groundwater samples were obtained from the five shallow wells. Only unfiltered groundwater samples were obtained from the deep wells. The groundwater samples were submitted to Edge Analytical Laboratories for analysis of endosulfans, chlordanes, aldrin, dieldrin, heptachlor, heptachlor epoxide, toxaphene, total DDT (4,4'-DDD, 4,4'-DDE and 4,4'-DDT), dinoseb, and MCPA, as summarized in Table 1.

After the initial (December 2009) groundwater sampling round, the five shallow monitoring wells were again sampled on March 11-12, June 10-11, and September 16-17, 2010, using low-flow techniques and a peristaltic pump. Prior to sampling the shallow monitoring wells, groundwater levels in the wells (and the deep monitoring wells) were measured, and the wells were purged until groundwater field parameters stabilized. Both unfiltered and field-filtered groundwater samples were obtained and analyzed for endosulfans, chlordanes, aldrin, dieldrin, heptachlor, heptachlor epoxide, toxaphene, total DDT (4,4'-DDD, 4,4'-DDE and 4,4'-DDT), dinoseb, and MCPA, as summarized in Table 1. The groundwater samples collected in March 2010 were submitted to Edge Analytical Laboratories for analysis. The groundwater samples collected in June and September 2010 were submitted to OnSite Environmental, Inc. for analysis.

3.3.2 Groundwater Investigation Results

Groundwater levels measured during each of the four groundwater sampling events are presented in Table 5. The groundwater levels ranged from approximately 2 to 8 feet below top of casing (btoc) in the shallow wells, and from approximately 100 to 103 feet btoc in the deep wells. The approximate groundwater flow direction in the deep aquifer based on December 1, 2009, March 11, 2010, June 10, 2010, and September 16, 2010 water level measurements is to the southwest (Figures 12 to 15), at an approximate horizontal gradient of 0.0015. The groundwater flow direction in the perched groundwater zone is unclear. A horizontal hydraulic gradient in the perched groundwater zone was not calculated because this groundwater zone does not appear to be laterally continuous. However, groundwater elevations in the shallow monitoring wells are posted on Figures 12 to 15 for informational purposes.

As summarized in Table 5, there is a large difference (~100 feet) in groundwater elevations between the perched groundwater zone and the deep aquifer. Therefore, a vertical hydraulic gradient was not calculated because the two zones do not appear to be hydraulically connected.

The December 2009, March 2010, June 2010, and September 2010 chemical analytical results are presented in Table 6. Table 6 shows analytes that were detected at least once in groundwater. Appendix I includes laboratory analytical reports for the 2009-2010 groundwater samples, along with data quality assessment summaries. COCs detected in groundwater at concentrations exceeding proposed groundwater cleanup levels are shown in Figure 11. Figure 11 includes exceedances detected in 2009-2010 as well as historical exceedances (historical exceedances are discussed in Section 3.5). The 2009-2010 groundwater analytical results can be summarized as follows:

- **PQLs:** With the exception of the herbicide MCPA in groundwater samples collected from two wells in June 2010 and three wells in September 2010, all project-required analytical PQLs specified in the QAPP were met for non-detect results – none exceeded the proposed groundwater cleanup levels.
- **Deep wells:** In December 2009, endosulfan sulfate was reported in the unfiltered sample from deep well MW-1, at a concentration (0.19 micrograms per liter [µg/L]) that is well below the cleanup level of 96 µg/L for total endosulfans (there is no proposed cleanup level for endosulfan sulfate). This detection in MW-1 is suspect (i.e., possible laboratory or field cross-contamination), as there were no other detections in the unfiltered samples obtained from the four deep wells (MW-1, MW-2, MW-3, and livestock well) in December 2009. Endosulfan detections were previously reported in wells MW-1, MW-2, and MW-3 in January 2004, at concentrations of the order of 0.01 to 0.1 µg/L (GeoEngineers, 2004). The detections in MW-2 were estimated values below the PQL of 0.015 ug/L. The low-level detections of endosulfans in January 2004 are suspected to be the result of cross-contamination of the samples in the field or laboratory, or both, due to their low levels near the PQL. Endosulfans and other pesticides/herbicides were not detected in any of the four subsequent quarterly groundwater samples collected from these wells in 2004-2005. The PQL for endosulfans in the 2004-2005 quarterly samples was 0.1 µg/L.
- **Shallow wells:** COCs positively or tentatively detected above cleanup levels in the five shallow monitoring wells include dinoseb, bentazon, 2,4-D, MCPA, aldrin, dieldrin, heptachlor, and heptachlor epoxide. Dinoseb and MCPA were detected above the respective cleanup levels in GEI-MW-4, GEI-MW-6, GEI-MW-7, and GEI-MW-8, with the highest concentrations reported in GEI-MW-8. Bentazon was detected above the cleanup level in GEI-MW-4 and GEI-MW-6, with the highest concentrations reported in GEI-MW-4. 2,4-D was detected above the cleanup level, and aldrin was tentatively detected above the cleanup level, in GEI-MW-8. Dieldrin was detected above the cleanup level in GEI-MW-4, and heptachlor was tentatively detected above the cleanup level in GEI-MW-7. Heptachlor epoxide was tentatively detected above the cleanup level in GEI-MW-4, and was positively detected above the cleanup level in GEI-MW-6, GEI-MW-7, and GEI-MW-8, with the highest concentrations reported in GEI-MW-8.
- **Unfiltered versus filtered samples:** A comparison of unfiltered (total) versus field-filtered (dissolved) sample results from the shallow monitoring wells indicates that in general, where both unfiltered (total) and filtered (dissolved) sample results were detections, the majority of the COC concentrations were higher in the unfiltered samples than in the filtered samples. However, the unfiltered and filtered results were not substantially different overall. The low turbidity of the perched groundwater samples (on the order of 8 to 15 nephelometric turbidity units based on field parameter measurements) may explain the similarity between unfiltered and filtered results.

Of the nine wells sampled in 2009 and 2010, four wells contained cleanup level exceedances: GEI-MW-4, GEI-MW-6, GEI-MW-7, and GEI-MW-8. The exceedances are summarized below by area:

- In the historical operations area, groundwater samples from GEI-MW-4, GEI-MW-6, and GEI-MW-7 had positive or tentative exceedances of dieldrin, dinoseb, MCPA, bentazon, heptachlor, and/or heptachlor epoxide.

- In the area of the drainage channel connecting the historical operations area to the wetland area, groundwater samples from GEI-MW-8 had positive or tentative exceedances of aldrin, dinoseb, MCPA, 2,4-D, and heptachlor epoxide.

3.4 Surface Water

Surface water is only a temporary and seasonal feature at the Site, and is generally a surface expression of perched groundwater that daylights during the wet season. It may also be present ephemerally following large rainfall events during the dry season, before it has had time to infiltrate surface soil. Surface water was not sampled during the 2009-2010 investigation.

COCs detected in surface water samples collected during previous (pre-2009) investigations include chlorinated pesticides (4,4'-DDT, total DDT, total chlordane, endosulfans, gamma chlordane, and lindane), chlorinated herbicides (dinoseb and silvex/2,4,5-TP), dissolved arsenic, and VOCs (1,2-dichlorobenzene, acetone, and toluene) (Appendix D). Analytical results for surface water samples obtained during previous studies are summarized in Appendix D.

Figure 16 depicts historical sampling results for total endosulfans in surface water. Endosulfans were detected in five unfiltered surface water grab samples (SW-1 through SW-5) obtained in 2001 and 2004 (GeoEngineers, 2001 and 2004). In addition, 1,2-dichlorobenzene, acetone, toluene, gamma chlordane, total chlordane, 4,4'-DDT, total DDT, dinoseb, silvex/2,4,5-TP, lindane, and dissolved arsenic were reported in one or more samples. The pesticide/herbicide detections may reflect the presence of suspended particulates in the samples because of the low solubility of these chemicals. VOCs are not considered COCs at the Site because of the limited number and low concentrations of the VOC detections reported in soil and groundwater.

On December 16, 2004, after a significant rainfall event, rainwater runoff samples were obtained at eight locations (HC-SW-1 through HC-SW-8) within the historical operations area and on adjacent Port-owned property to the east, to assess the potential for transport of contaminants away from the historical operations area. The surface water samples were analyzed for chlorinated pesticides and herbicides. Endosulfans and dinoseb were the only constituents detected in the samples. Concentrations of endosulfans and dinoseb were found to decrease with distance from the historical operations area as rainwater runoff flowed to the southeast.

In general, the COCs detected in surface water appear to reflect the presence of suspended particulates that likely originate from contaminated surface soil sources in the vicinity of the historical operations area.

3.5 Summary of Nature and Extent of Contamination

The results of the sampling and analyses completed to date at the Site are summarized as follows:

- Soil Conditions (see Figures 6 through 10)
  - The distribution of endosulfan and other COC exceedances in soil indicates that endosulfan can be used as an indicator hazardous substance (as defined in the MTCA Cleanup Regulation, WAC 173-340), since endosulfan exceedances in soil are generally collocated with exceedances of other COCs.

- In the historical operations area, the wetland area, and the drainage channel connecting the historical operations area to the wetland area, reported COC exceedances are limited to samples obtained from the upper 1 foot of soil, with the highest concentrations occurring in the upper 6 inches of soil. The sampling data indicate that COC exceedances may extend to a depth of up to 2 feet bgs in some areas.
- The highest endosulfan concentrations were generally detected just off the northern and eastern edge of the asphalt pavement within the historical operations area, and along the alignment of the drainage channel southeast of the historical operations area.
- Endosulfan concentrations in soil in the wetland area generally decrease with distance from the southern end of the drainage channel.
- Samples obtained from perpendicular transects along the drainage channel indicate that endosulfans are generally restricted to the channel, with concentrations rapidly decreasing outside the channel.
- Soil analytical results from the tree root-base sampling in the wetland area indicate that contamination does not extend to the root bases of the mature conifer trees, and is concentrated in the lower topographical areas. As a result of the sampling and analysis, the estimated extent of soil contamination exceeding cleanup levels in the wetland area no longer includes these mature trees (see Section 4.3.1 for further discussion and graphical depiction of the estimated extent of soil contamination in the wetland area).
- With the exception of one small area in the vicinity of sample location GEI-33, the soil sampling completed during the current and previous investigations has defined the lateral and vertical extent of soil contamination.

- Groundwater Conditions (see Figure 11)
  - Deep groundwater (~100 feet bgs) is isolated from the shallow (perched) groundwater zone by an approximately 50- to 80-foot thick clay/silt unit, and does not appear to contain Site-related COC exceedances. As discussed in the Work Plan (GeoEngineers, 2009), dissolved arsenic and low levels of endosulfans (several orders of magnitude below the cleanup level) were reported in groundwater samples obtained from deep monitoring wells MW-1, MW-2, and MW-3 in January 2004. However, the arsenic concentrations detected were consistent with regional background concentrations in Skagit County, and the endosulfan detections were close to the analytical PQLs. Endosulfans and other pesticides were not detected in the deep monitoring wells during subsequent quarterly monitoring events in 2004 and 2005. The low-level detections of endosulfans reported in the January 2004 samples likely were the result of cross-contamination in the field or laboratory (GeoEngineers, 2009).
  - The groundwater sampling completed in 2009-2010 indicates that shallow (perched) groundwater exceeds the proposed cleanup levels for dinoseb, MCPA, bentazon, 2,4-D, aldrin, dieldrin, heptachlor, and/or heptachlor epoxide in wells GEI-MW-4, GEI-MW-6, GEI-MW-7, and GEI-MW-8. The highest concentrations of dinoseb, MCPA, and heptachlor epoxide were detected in GEI-MW-8; the highest concentration of bentazon was detected in GEI-MW-4. As shown in Figure 11, bentazon exceedances appear to be concentrated in the northern portion of the historical operations area, whereas MCPA, dinoseb, and

heptachlor epoxide exceedances appear to be concentrated in the northern and eastern portions of the historical operations area and along the drainage channel between the historical operations area and the wetland area. Perched groundwater in the southwestern portion of the historical operations area (at well location GEI-MW-5) does not exceed cleanup levels.

- In addition to the cleanup level exceedances in shallow monitoring wells noted above, several herbicides, pesticides, and VOCs were detected at concentrations exceeding cleanup levels in shallow groundwater grab samples obtained in 2001 from direct-push borings B-2, B-5, and B-7 (GeoEngineers, 2001). As discussed in the Work Plan (GeoEngineers, 2009), the previous exceedances reported at direct-push locations B-2, B-5, and B-7 are not considered definitive data because these groundwater samples were not obtained from monitoring wells.

- Surface Water Conditions (see Figure 16)
  - Pesticides, herbicides, and arsenic have been detected in historical surface water (rainwater runoff) grab samples collected at the Site. Endosulfans (detected in 12 of 13 samples) were the most prevalent COC detected in the samples.
  - Surface water at the Site is not considered to be a separate environmental medium requiring further remedial action because: (1) it is a temporary surface manifestation of perched groundwater during the wet season, or is present only ephemerally during the dry season following large rainfall events; and (2) it is not hydraulically connected to any nearby permanent surface water bodies. Future cleanup actions to address contaminated soil and perched groundwater (discussed in Section 4.0 – Feasibility Study) are expected to reduce or eliminate COC concentrations in seasonal surface water/rainwater runoff at the Site.

4.0 FEASIBILITY STUDY

4.1 Conceptual Site Model

The Conceptual Site Model (CSM) is a model of the potential contaminant sources, release mechanisms, and transport mechanisms at the Site. The CSM also identifies potential receptors that could be affected by the contamination and the associated exposure pathways. The CSM does not quantify potential risks to human health or the environment posed by Site-related contamination. It is intended to focus remedial actions (site investigations, monitoring, cleanup actions, etc.) on those areas and operations of the Site that may warrant further consideration.

4.1.1 Contaminant Sources, Release Mechanisms, and Transport Mechanisms of Potential Concern

As discussed in Section 2.5, the Site was historically used for handling pesticides and herbicides as part of crop dusting operations. The apron area north of the hangar building was reportedly used for chemical handling and wash-down of airplanes and equipment. Historical sources of contamination are assumed to consist of pesticides and herbicides spilled during operations at the Site. Potential primary release mechanisms for contaminants include direct releases to the ground surface in the historical operations area from pesticide/herbicide material handling, leaks and spills, and wash-down of planes and equipment.

Since the time the contaminant releases occurred, potential transport mechanisms that may have acted, and may continue to act, to disperse contaminants at the Site include:

- Leaching from soil to perched groundwater during seasonal fluctuations of perched groundwater levels;
- Leaching from soil to perched groundwater during infiltration of rainfall/precipitation;
- Soil erosion caused by surface water (rainwater) runoff and subsequent deposition to soil in downgradient areas;
- Soil erosion caused by wind (dust) and subsequent deposition to soil; and
- Dispersion of dissolved- and sorbed-phase COCs in the wetland area by seasonal fluctuations/flow of perched groundwater and historical cattle grazing.

4.1.2 Potential Receptors and Exposure Pathways for Contaminants in Soil and Groundwater

Subsurface conditions are discussed below in the context of potential receptors and exposure pathways for the contaminants that have been identified in soil and groundwater.

4.1.2.1 SOIL

As discussed in Section 2.3.1, subsurface geology at the Site generally consists of 1 to 3 feet of fine to coarse sand and gravel underlain by clay and silt deposits to depths of approximately 50 to 85 feet bgs. Fine to medium sand deposits with varying amounts of silt and gravel underlie the clay/silt unit to a depth of at least 115 feet bgs (the maximum depth explored at the Site).

The majority of contamination detected in soil at the Site is limited to the upper 1 foot of the sand/gravel surface horizon, although the sampling data indicate that contamination may extend to a depth of up to 2 feet bgs in some areas. The thick clay and silt deposits underlying the surficial sand/gravel act as a low-permeability barrier to potential vertical migration of contaminants that may leach from soil to perched groundwater.

Based on the investigation findings and the current and anticipated future land use at the Site, the potential receptors and exposure pathways for identified soil contamination include:

- Direct contact (dermal, incidental ingestion, or dust inhalation) by Site visitors and workers (including construction workers);
- Direct contact (dermal, incidental ingestion, or dust inhalation) by domestic animals (livestock) and terrestrial wildlife; and
- Leaching to shallow groundwater.

4.1.2.2 GROUNDWATER

As discussed in Section 2.3.2, groundwater exists in two distinct water-bearing zones at the Site: a shallow, unconfined, perched groundwater zone, and a deeper aquifer beneath thick clay and silt deposits. Five monitoring wells are screened in the perched groundwater zone and three monitoring wells are screened in the deep aquifer. Groundwater levels in the perched zone vary seasonally between 0 and 3 feet bgs; groundwater in the deep aquifer occurs at a depth of approximately 100 feet bgs. The approximate groundwater flow direction in the deep aquifer is to

the southwest (Figures 12 to 15). Groundwater in the shallow perched zone does not appear to be laterally continuous; consequently, the groundwater flow direction in the perched zone is unclear.

Groundwater in the perched zone exceeds proposed groundwater cleanup levels for one or more COCs. Deep groundwater is isolated from perched groundwater by approximately 50 to 85 feet of clay and silt (see Section 4.1.2.1). The groundwater sampling conducted in 2009 confirmed that there are no COC exceedances in the deep aquifer.

As discussed in Section 3.1.1.2, as a conservative measure, the proposed groundwater cleanup levels for the Site (including perched groundwater and groundwater in the deeper aquifer beneath the clay/silt unit) are based on protection of potential future groundwater use as drinking water. However, human ingestion of contaminated shallow (perched) groundwater is not considered a potential exposure pathway because shallow groundwater at the Site is not a current or reasonable future source of drinking water. The shallow groundwater is limited to a thin (0 to 3 feet bgs) perched zone that is not capable of producing significant quantities of water for domestic or other use, based on the low recharge rates observed in shallow monitoring wells at the Site. In accordance with WAC 173-340-720(2)(b)(i), due to insufficient yield, shallow groundwater beneath the Site or potentially affected by the Site is not a current or reasonable future source of drinking water.

Sampling indicates that the deep aquifer has not been affected by the contamination identified in shallow soil and perched groundwater at the Site. Additionally, the deep aquifer is isolated from the perched groundwater zone by approximately 50 to 85 feet of low-permeability clay and silt. Therefore, ingestion of deep groundwater by humans, livestock, and terrestrial wildlife is not considered a potential exposure pathway.

Based on the investigation findings and the current and anticipated future land use at the Site, the potential receptors and exposure pathways for identified contamination in shallow (perched) groundwater at the Site include:

- Direct contact (dermal or ingestion) by Site visitors/workers (dermal contact only), domestic animals (livestock), and terrestrial wildlife via daylighting of perched groundwater during wet weather conditions.

4.1.3 Summary

Releases of pesticides and herbicides used during crop dusting operations at the Site have resulted in contamination of shallow soil and perched groundwater. Soil contamination is generally limited to the upper 1 foot of soil. Potential receptors of concern that may be exposed to the shallow soil contamination include Site visitors and workers (including construction workers), domestic animals (livestock), and terrestrial wildlife. Potential receptors of concern that may be exposed to the perched groundwater contamination include Site visitors/workers, domestic animals (livestock), and terrestrial wildlife via daylighting of perched groundwater during wet weather conditions.

Due to its seasonal nature and insufficient yield, shallow (perched) groundwater at the Site or potentially affected by the Site is not a current or reasonable future source of drinking water. Consequently, human ingestion of perched groundwater is not a potential exposure pathway. The

thick, low-permeability clay and silt deposits underlying the sand/gravel surface horizon act as a barrier to vertical migration of contaminants in the perched groundwater zone. Because of this, and because the deep aquifer has not been affected by the contamination identified in shallow soil and groundwater, ingestion of groundwater in the deep aquifer by humans, livestock, and terrestrial wildlife is not considered a potential exposure pathway.

4.2 Basis and Objectives for Cleanup Action

This section presents the basis and objectives for the cleanup action. There are two elements that form the basis for the cleanup action: (1) the site-specific cleanup standards, and (2) the locations and media requiring cleanup action evaluation.

4.2.1 Cleanup Standards

Cleanup standards consist of: (1) cleanup levels that are protective of human health and the environment, and (2) the point of compliance at which the cleanup levels must be met, and (3) additional regulatory requirements, specified in applicable state and federal laws, that apply to a cleanup action because of the type of action and/or the location of the site. Preliminary site-specific cleanup levels for soil and groundwater were developed in the RI/FS Work Plan (GeoEngineers, 2009). As discussed in Section 3.1, the preliminary cleanup levels developed in the Work Plan are adopted as the proposed cleanup levels in this FS, for the purpose of developing cleanup action objectives and alternatives for the Site. The proposed points of compliance are presented in Section 3.1. The additional regulatory requirements potentially applicable to the cleanup action will be presented and evaluated in the CAP. Cleanup action objectives are presented in Section 4.2.3.

4.2.2 Locations and Media Requiring Cleanup Action Evaluation

Based on the information presented in the RI (Section 3.0), shallow soil in the historical operations area, the wetland area, and the drainage channel requires evaluation of cleanup action alternatives based on the presence of some COCs at concentrations exceeding cleanup levels protective of human health and terrestrial wildlife.

The primary medium of concern at the Site is shallow soil. The estimated total in situ volume of impacted soil requiring cleanup action (i.e., the volume exceeding cleanup levels) is approximately 2,654 cubic yards. The impacted soil is distributed approximately as follows:

- Historical operations area – 1,121 cubic yards
- Wetland area – 1,016 cubic yards
- Drainage channel – 517 cubic yards

Because of the significant differences in physical characteristics, natural resources, and accessibility between the sparsely vegetated historical operations area and the adjacent heavily vegetated drainage channel and wetland areas, as well as associated differences in contaminant release mechanisms (i.e., direct/primary chemical deposition in the historical operations source area versus suspended particulate transport and secondary deposition in the drainage channel and wetland areas), these areas of the Site warrant consideration of different approaches to

cleanup. The different cleanup approaches are discussed further in Section 4.3 – Identification and Description of Cleanup Action Alternatives.

The existing data indicate that the shallow contaminated soil at the Site is the source of the COCs detected in shallow groundwater and surface water/rainwater runoff. Concentrations of COCs in shallow groundwater and surface water are expected to decrease after the contaminated soil source is controlled. The cleanup action alternatives developed in the FS are expected to address shallow groundwater and surface water/rainwater runoff by controlling the source of contamination to these media. This will be confirmed with compliance monitoring.

4.2.3 Cleanup Action Objectives

Cleanup action objectives (CAOs) consist of chemical- and medium-specific goals for protecting human health and the environment. The CAOs specify the media and contaminants of concern, potential exposure routes and receptors, and proposed cleanup goals.

The objective of the proposed cleanup action is to eliminate, reduce, or otherwise control to the extent feasible and practicable, unacceptable risks to human health and the environment posed by hazardous substances in soil at the Site in accordance with the MTCA Cleanup Regulation (WAC 173-340) and other applicable regulatory requirements. Specifically, the objective of the cleanup action is to mitigate risks associated with the following potential receptors and exposure routes:

- Direct contact (dermal, incidental ingestion, or inhalation) with contaminated soil by Site visitors and workers (including construction workers);
- Direct contact (dermal, incidental ingestion, or inhalation) with contaminated soil by domestic animals (livestock) and terrestrial wildlife; and
- Direct contact (dermal or ingestion) with contaminated perched groundwater during wet weather conditions by Site visitors/workers (dermal contact only), domestic animals (livestock), and terrestrial wildlife (via daylighting of perched groundwater).

The cleanup goal is to mitigate these risks by meeting the proposed soil and groundwater cleanup standards identified in Section 3.1. The proposed cleanup standards, which were derived from regulatory criteria considered to be protective of human health and ecological receptors, are assumed to also be protective of domestic animals (livestock).

4.3 Identification and Description of Cleanup Action Alternatives

Table 7 presents the results of a screening evaluation of potentially applicable remediation technologies for the cleanup action. Based on the screening evaluation, selected technologies are carried forward for use in the development of cleanup action alternatives.

The general response actions considered in the screening evaluation include no action, institutional controls/access control, soil containment, soil removal and disposal, soil removal with ex situ soil treatment, and in situ soil treatment. The potential remediation technologies for soil were screened on the basis of effectiveness, implementability at the Site, and relative cost. A summary of the screening evaluation is presented in Table 7. The screening process determined the most appropriate technologies that warrant development into cleanup action alternatives for further evaluation. Remediation technologies were screened out from further consideration if they were unable to meet MTCA threshold requirements, if they had limited effectiveness or implementability, and/or if another technology was similarly effective and implementable but had a significantly lower cost.

Summary of Technology Screening (see Table 7)
Soil Remediation Technologies Retained for Further Evaluation: 1. Capping 2. Removal with Land Disposal

In this section, the remediation technologies and process options for Site cleanup that were retained through the screening evaluation summarized in Table 7 are used to develop four cleanup action alternatives for contaminated areas and media at the Site. This section also provides a comparative analysis of the cleanup action alternatives. Each alternative addresses contaminated media with one or a combination of technologies appropriate for Site conditions. The four alternatives represent a reasonable range of potentially applicable cleanup options to provide a basis for evaluation.

A "no action" alternative was not developed for this FS, because this alternative would not achieve CAOs for the Site or meet the minimum requirements of a cleanup action alternative under MTCA. Therefore, the no action alternative was screened out from further consideration during the remediation technology screening evaluation (Table 7).

The design parameters used to develop the cleanup action alternatives are based on engineering judgment and current knowledge of Site conditions. The final design for the selected alternative may require additional characterization and analysis to better define the scope and costs associated with the cleanup action.

The four cleanup action alternatives were developed to be generally consistent with the current and anticipated future land uses at the Site. Some of the alternatives are more compatible with preserving the existing use and wetland function of the Site than others. The components of the cleanup action alternatives are described below and are summarized in Table 8.

4.3.1 Alternative 1 – Excavate Historical Operations Area, Drainage Channel, and Wetland Area

Alternative 1 achieves complete removal of soil that exceeds cleanup levels in all three areas of the Site, including the historical operations area, drainage channel, and wetland area (Figure 17). Contaminated soil exceeding cleanup levels in these areas would be excavated to the extent practicable and disposed of at an off-site, permitted landfill. Of the four alternatives, Alternative 1 best preserves the existing and future uses and wetland functions of the Site. Because it achieves

complete removal, Alternative 1 also has minimal future monitoring/maintenance requirements and offers the greatest potential for long-term success of the Site remedy.

Alternative 1 includes the following components:

- Excavate to the extent practicable approximately 2,654 cubic yards of contaminated soil from the historical operations area, drainage channel, and wetland area using commonly available excavation techniques. A portion of the existing asphalt would need to be removed from the historical operations area to facilitate removal of the contaminated soil. In addition, it is assumed that some areas/portions of the hangar building (e.g., floor slabs and/or footings) would need to be protected and/or demolished during or prior to excavation in the historical operations area and restored following the cleanup action. Approximately 1 acre of wetlands would need to be cleared and grubbed prior to soil excavation in the drainage channel and wetland area.
- Transport excavated soil to an approved landfill facility. Excavated soil would be characterized for disposal as required by MTCA and Washington State Dangerous Waste regulations (WAC 173-303) and the selected disposal facility. The contaminated soil is expected to fall into two categories: non-dangerous waste suitable for disposal at a Subtitle D landfill, and dangerous waste requiring either disposal at a Subtitle C (hazardous/dangerous waste) facility or treatment prior to disposal at a Subtitle D facility. It is assumed that approximately 90 percent of the excavated soil would be disposed of as non-hazardous waste at an off-site Subtitle D facility, and 10 percent would be disposed of as hazardous waste at an off-site Subtitle C facility.
- Backfill excavated areas with clean imported fill and restore original Site topography, features, and surfaces. The drainage channel and wetland area excavations would be backfilled with topsoil, whereas the historical operations area would be backfilled with structural fill.
- Restore approximately 1 acre of wetland vegetation in the drainage channel and wetland area in accordance with applicable local, state and federal wetlands regulations.
- If necessary, develop institutional controls in the form of environmental covenants, signage, and other notification measures to address any remaining contaminated soil left in place in areas of the Site where excavation is found to be impracticable during construction.
- Conduct revegetation monitoring in the restored drainage channel and wetland area.
- The soil removal proposed in this alternative is expected to reduce risks associated with shallow groundwater through source removal, thereby obviating the need for active groundwater remediation. Groundwater monitoring would be performed following remedy construction to confirm that dissolved COC concentrations are decreasing. Because of the limited seasonal occurrence of groundwater, groundwater monitoring would be completed during wet conditions at an anticipated frequency of two events per year for a minimum duration of two years.

4.3.2 Alternative 2 – Cap Historical Operations Area; Excavate Drainage Channel and Wetland Area

Alternative 2 consists of capping soil that exceeds cleanup levels in the historical operations area, and removing soil that exceeds cleanup levels in the drainage channel and wetland area

(Figure 18). Contaminated soil exceeding cleanup levels in the historical operations area would be contained in place by constructing an engineered cap to prevent future erosion and direct contact with contamination. Contaminated soil exceeding cleanup levels in the drainage channel and wetland area would be excavated to the extent practicable. Alternative 2 is equally effective in preserving the existing and future uses and wetland functions of the Site as Alternative 1, although care would be required to maintain the integrity of the cap in the historical operations area.

Alternative 2 includes the following components:

- Excavate to the extent practicable approximately 1,533 cubic yards of soil from the drainage channel and wetland area using commonly available excavation techniques. Approximately 1 acre of wetlands would need to be cleared and grubbed prior to soil excavation.
- Transport excavated soil to an approved landfill facility. It is assumed that approximately 90 percent of the excavated soil would be disposed of as non-hazardous waste at an off-site Subtitle D facility, and 10 percent would be disposed of as hazardous waste at an off-site Subtitle C facility.
- Backfill excavated areas with clean imported topsoil and restore original Site topography, features, and surfaces.
- Restore approximately 1 acre of wetland vegetation in the drainage channel and wetland area in accordance with applicable local, state and federal wetlands regulations.
- Remove a portion of the existing asphalt pavement from the historical operations area to facilitate construction of the engineered cap.
- It is assumed that the existing floor slabs in the fully enclosed areas of the hangar building, and the building itself, would be left in place to serve as a cap. An engineered cap would be constructed in the open area under the awning on the building's south side. Some areas/portions of the hangar building may need to be protected and/or demolished prior to cap construction and restored following the cleanup action.
- Grade and cap contaminated soil in portions of the historical operations area outside of the hangar building with a multi-component cap consisting of an impermeable liner covered with clean, crushed rock base course and a top layer of asphalt pavement. The cap would create a physical barrier between the contaminated soil and potential receptors, and would prevent future erosion of capped soil. Institutional controls (such as environmental covenants and signage) would be required to ensure future activities/development at the Site properly address the contaminated soil left in place under the cap.
- If necessary, develop institutional controls in the form of environmental covenants, signage, and other notification measures to address any remaining contaminated soil left in place in areas of the Site where excavation or capping was found to be impracticable during construction.
- Conduct revegetation monitoring in the restored drainage channel and wetland area.
- The soil removal and capping proposed in this alternative is expected to reduce risks associated with shallow groundwater through source removal/containment and construction of a physical barrier between groundwater and potential receptors, thereby obviating the need for

active groundwater remediation. Groundwater monitoring would be performed following remedy construction to confirm that dissolved COC concentrations are decreasing. Because of the limited seasonal occurrence of groundwater, groundwater monitoring would be completed during wet conditions at an anticipated frequency of two events per year for a minimum duration of two years.

- The cap remedy would be subject to periodic review by Ecology to ensure long-term protectiveness.

4.3.3 Alternative 3 – Cap Historical Operations Area and Drainage Channel; Excavate Wetland Area

Alternative 3 consists of capping soil that exceeds cleanup levels in the historical operations area and drainage channel, and removing soil that exceeds cleanup levels in the wetland area (Figure 19). Contaminated soil exceeding cleanup levels in the historical operations area and drainage channel would be contained in place by constructing an engineered cap to prevent future erosion and direct contact with contamination. Contaminated soil exceeding cleanup levels in the wetland area would be excavated to the extent practicable. Alternative 3 is equally effective in preserving the existing and future uses of the Site as Alternatives 1 and 2, although care would be required to maintain the integrity of the cap in the historical operations area and drainage channel. Alternative 3 is less effective in preserving the natural drainage and wetland functions at the Site than both Alternatives 1 and 2, as there would be a net loss of wetlands and modification of natural drainage function at the Site under Alternative 3.

Alternative 3 includes the following components:

- Clear and grub approximately 1 acre of wetlands prior to soil excavation and capping in the drainage channel and wetland area.
- Excavate to the extent practicable approximately 1,016 cubic yards of soil from the wetland area using commonly available excavation techniques.
- Transport excavated soil to an appropriate disposal facility. It is assumed that approximately 90 percent of the excavated soil would be disposed of as non-hazardous waste at an off-site Subtitle D facility, and 10 percent would be disposed of as hazardous waste at an off-site Subtitle C facility.
- Backfill excavated areas with clean imported topsoil and restore original Site topography, features, and surfaces.
- Restore approximately 0.6 acres of wetland vegetation in the wetland area in accordance with applicable local, state and federal wetlands regulations.
- Remove a portion of the existing asphalt pavement from the historical operations area to facilitate construction of the engineered cap in this area.
- It is assumed that the existing floor slabs in the fully enclosed areas of the hangar building, and the building itself, would be left in place to serve as a cap. An engineered cap would be constructed in the open area under the awning on the building's south side. Some areas/portions of the hangar building may need to be protected and/or demolished prior to cap construction and restored following the cleanup action.

- Grade and cap contaminated soil in portions of the historical operations area outside of the hangar building with a multi-component cap consisting of an impermeable liner covered with clean, crushed rock base course and a top layer of asphalt pavement. The cap would create a physical barrier between the contaminated soil and potential receptors, and would prevent future erosion of capped soil. Institutional controls (such as environmental covenants and signage) would be required to ensure future activities/development at the Site properly address the contaminated soil left in place under the cap.
- Grade and cap contaminated soil in the drainage channel with a multi-component cap consisting of a permeable geotextile fabric and a 1-foot thick cover layer of topsoil. The cap would create a physical barrier between the contaminated soil and potential receptors, and would prevent future erosion of capped soil. Institutional controls would be required to ensure future activities/development at the Site properly address the contaminated soil left in place under the cap.
- Modify Site drainage to compensate for capping of the natural drainage channel.
- Hydroseed the drainage channel cap, and restore or create approximately 0.7 acres of wetlands within or along the margins of the existing forested wetland area to mitigate the loss of approximately 0.35 acres of wetlands in the former drainage channel (assume 2:1 wetland mitigation ratio).
- If necessary, develop institutional controls in the form of environmental covenants, signage, and other notification measures to address any remaining contaminated soil left in place in areas of the Site where excavation was found to be impracticable during construction.
- Conduct revegetation monitoring in the restored and/or created wetlands.
- The soil removal and capping proposed in this alternative is expected to reduce risks associated with shallow groundwater through source removal/containment and construction of a physical barrier between groundwater and potential receptors, thereby obviating the need for active groundwater remediation. Groundwater monitoring would be performed following remedy construction to confirm that dissolved COC concentrations are decreasing. Because of the limited seasonal occurrence of groundwater, groundwater monitoring would be completed during wet conditions at an anticipated frequency of two events per year for a minimum duration of two years.
- The cap remedy would be subject to periodic review by Ecology to ensure long-term protectiveness.

4.3.4 Alternative 4 – Cap Historical Operations Area, Drainage Channel, and Wetland Area

Alternative 4 consists of capping soil that exceeds cleanup levels in all three areas of the Site, including the historical operations area, drainage channel, and wetland area (Figure 20). Contaminated soil exceeding cleanup levels in these areas would be contained in place by constructing an engineered cap to prevent future erosion and direct contact with the soil. Alternative 4 is equally effective in preserving the existing and future use of the Site as Alternatives 1, 2, and 3, although care would be required to maintain the integrity of the caps. Alternative 4 would not be effective in preserving the natural drainage or wetland functions at the Site due to filling to construct the caps.

Alternative 4 includes the following components:

- Remove a portion of the existing asphalt pavement from the historical operations area to facilitate construction of the engineered cap in this area.
- It is assumed that the existing floor slabs in the fully enclosed areas of the hangar building, and the building itself, would be left in place to serve as a cap. An engineered cap would be constructed in the open area under the awning on the building's south side. Some areas/portions of the hangar building may need to be protected and/or demolished prior to cap construction and restored following the cleanup action.
- Grade and cap contaminated soil in portions of the historical operations area outside of the hangar building with a multi-component cap consisting of an impermeable liner covered with clean, crushed rock base course and a top layer of asphalt pavement. The cap would create a physical barrier between the contaminated soil and potential receptors, and would prevent future erosion of capped soil. Institutional controls (such as environmental covenants and signage) would be required to ensure future activities/development at the Site properly address the contaminated soil left in place under the cap.
- Grade and cap contaminated soil in the drainage channel and wetland area with a multi-component cap consisting of a permeable geotextile fabric and a 1-foot thick cover layer of topsoil. The cap would create a physical barrier between the contaminated soil and potential receptors, and would prevent future erosion of capped soil. Institutional controls would be required to ensure future activities/development at the Site properly address the contaminated soil left in place under the caps.
- Modify Site drainage to compensate for capping of the natural drainage channel.
- Hydroseed the drainage channel and wetland area caps, and restore or create approximately 2 acres of wetlands within or along the margins of the existing forested wetland area to mitigate the loss of 1 acre of wetlands in the former drainage channel and wetland area (assume 2:1 wetland mitigation ratio).
- Conduct revegetation monitoring in the restored and/or created wetlands.
- The soil capping proposed in this alternative is expected to reduce risks associated with shallow groundwater through source containment and construction of a physical barrier between groundwater and potential receptors, thereby obviating the need for active groundwater remediation. Groundwater monitoring would be performed following remedy construction to confirm that dissolved COC concentrations are decreasing. Because of the limited seasonal occurrence of groundwater, groundwater monitoring would be completed during wet conditions at an anticipated frequency of two events per year for a minimum duration of two years.
- The cap remedy would be subject to periodic review by Ecology to ensure long-term protectiveness.

4.4 MTCA Evaluation Criteria

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

4.4.1 Threshold Requirements

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

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

4.4.1.1 PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

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

4.4.1.2 COMPLIANCE WITH CLEANUP STANDARDS

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

4.4.1.3 COMPLIANCE WITH APPLICABLE STATE AND FEDERAL LAWS

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

4.4.1.4 PROVISION FOR COMPLIANCE MONITORING

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

4.4.2 Other Requirements

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

- **Use permanent solutions to the maximum extent practicable (WAC 173-340-360[2][b][i]).** The MTCA Cleanup Regulation requires that when selecting from cleanup action alternatives that fulfill the threshold requirements, the selected action shall use permanent solutions to the maximum extent practicable (WAC 173-340-360[2][b][i]). MTCA specifies that the permanence of these qualifying alternatives shall be evaluated by balancing the costs and benefits of each of the alternatives using a "disproportionate cost analysis" in accordance with WAC 173-340-360(3)(e). The criteria for conducting a disproportionate cost analysis are described in Section 4.4.3 below.
- **Provide a reasonable restoration time frame (WAC 173-340-360[2][b][ii])**. In accordance with WAC 173-340-360(2)(b)(ii), selected cleanup actions must provide for a reasonable restoration time frame. The MTCA Cleanup Regulation lists factors to be considered in evaluating whether a cleanup action provides for a reasonable restoration time frame (WAC 173-340-360[4][b]).
- **Consideration of Public Concerns (WAC 173-340-360[2][b][iii])**. Ecology will consider public comments submitted during the RI/FS process in making its preliminary selection of an appropriate cleanup action alternative. This preliminary selection is subject to further public review and comment when the proposed remedy is published in the Draft Cleanup Action Plan.

4.4.3 MTCA Disproportionate Cost Analysis

The MTCA disproportionate cost analysis (DCA) is used to evaluate which of the cleanup action alternatives that meet the threshold requirements are permanent to the maximum extent practicable. This analysis involves comparing the costs and benefits of the alternatives and selecting the alternative whose incremental costs are not disproportionate to the incremental benefits. The evaluation criteria for the DCA are specified in WAC 173-340-360(2) and (3), and include protectiveness, permanence, cost, long-term effectiveness, management of short-term risks, implementability, and consideration of public concerns.

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

The MTCA criteria used in the DCA are described below.

4.4.3.1 PROTECTIVENESS

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

4.4.3.2 PERMANENCE

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

4.4.3.3 COST

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

4.4.3.4 LONG-TERM EFFECTIVENESS

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

4.4.3.5 MANAGEMENT OF SHORT-TERM RISKS

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

4.4.3.6 IMPLEMENTABILITY

Implementability is an overall metric expressing the relative difficulty and uncertainty of implementing the cleanup action. Evaluation of implementability includes consideration of technical factors such as the availability of mature technologies and experienced contractors to

accomplish the cleanup work. It also includes administrative factors associated with permitting and completing the cleanup.

4.4.3.7 CONSIDERATION OF PUBLIC CONCERNS

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

4.5 Evaluation of Cleanup Action Alternatives

Detailed evaluations and environmental benefits ranking of Cleanup Action Alternatives 1 through 4 relative to the MTCA threshold criteria and DCA criteria were completed. The requirements and procedures for evaluating and selecting cleanup actions are described in WAC 173-340-360 and are summarized above in Section 4.4.

All four alternatives comply with the MTCA threshold criteria described in Section 4.4.1, and all four provide reasonable restoration time frames of approximately one year for design and construction. Because Alternative 1 achieves complete removal of contaminated soil exceeding cleanup levels, it is the most protective alternative and provides the greatest short-term reduction of residual risks associated with shallow (perched) groundwater. Alternatives 3 and 4 would result in a net loss of wetlands and modification of natural drainage function at the Site due to the filling/capping in the drainage channel and/or wetland area under these alternatives. As a result, wetland mitigation (i.e., wetland restoration or creation at a suitable location in the Site vicinity) would be required under Alternatives 3 and 4.

A MTCA DCA was completed to determine which cleanup action alternative that otherwise meets threshold requirements is permanent to the maximum extent practicable. The results of the detailed alternatives evaluation and DCA are presented in Tables 8 and 9.

4.6 MTCA Disproportionate Cost Analysis

The DCA compares cleanup costs and benefits and allows selection of a cleanup action alternative that provides the greatest benefits relative to cost. Cleanup Action Alternatives 1 through 4 were evaluated based on the MTCA DCA criteria described in Section 4.4.3. The alternatives were ranked on a scale of 1 (lowest) to 10 (highest) for each of the DCA criteria. Each of the DCA criteria was assigned a weighting factor that ranged between 10 percent and 30 percent (the sum of the weighting factors equaled 100 percent). The detailed scoring is shown in Table 8; the relative benefits ranking summary is presented in Table 9. A comparison of the cleanup cost and benefit ranking for each of the alternatives is summarized below and is shown in Figure 21. Conceptual-level cost estimates for the cleanup action alternatives are included in Appendix J.

- Alternative 1: 8.7 (out of 10) benefit ranking; estimated cleanup cost of $1,540,000.
- Alternative 2: 6.7 benefit ranking; estimated cleanup cost of $1,420,000.

- Alternative 3: 5.8 benefit ranking; estimated cleanup cost of $1,360,000.
- Alternative 4: 4.4 benefit ranking; estimated cleanup cost of $1,250,000.

4.7 Preferred Cleanup Action Alternative

Based on the comparative analysis summarized in Section 4.5 and Tables 8 and 9, the preferred cleanup action alternative for the Site is Alternative 1. This alternative will result in:

- Permanent removal of COCs from the Site;
- Elimination of human health risks to Site users and risks to domestic animals (livestock) and terrestrial wildlife; and
- Elimination of potential for future erosional migration of COCs from the historical operations area to the adjacent wetland area.

As summarized in Table 9 and shown in Figure 21, Alternative 1 ranks the highest of the four alternatives. The cost of Alternative 1 is not disproportionately higher than the other alternatives relative to the incremental benefits achieved. Consequently, Alternative 1 is preferred over the other alternatives.

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TABLES

GeoEngineers

TABLE 1

SAMPLING AND ANALYTICAL TESTING SUMMARY - PREVIOUS INVESTIGATIONS AND 2009-2010 INVESTIGATION

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Company/Agency Performing Field Work	Investigation	Year	Sample Type	Analytical Laboratory	Sample Location	Chlorinated herbicides (EPA 8151A)	Phenoxy herbicides (EPA 8151A)	Dinoseb (EPA 8151A)	MCPA (EPA 8151A)	Triazine herbicides (EPA 8081MOD)	Organophosphate pesticides (EPA 8141/8141A)	Chlorinated pesticides (EPA 8081/8081A)	Endosulfans ONLY (EPA 8081/8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Endosulfan (EPA 8270)	Pesticides (EPA 8270)	Dimethoate (EPA 8270)	Methomyl and benomyl (EPA 8321)	Volatile Organic Compounds (EPA 8260B)	Arsenic (EPA 200.8)	Arsenic (EPA 6020)	Arsenic (EPA 6010B)	Zinc
Environmental Associates	Soil Sampling & Testing	2000	Soil	OnSite Environmental, Sound Analytical	TP-1	x					x	x												
					TP-2	x					x	x												
					TP-3	x					x	x												
					TP-4	x					x	x												
					TP-5	x					x	x												
					TP-6	x					x	x												
					TP-7	x					x	x												
GeoEngineers	Supplemental Soil & Groundwater Sampling	2001	Soil	North Creek Analytical	SS-1	x					x	x								x				
					SS-2	x					x	x								x				
					SS-3	x					x	x								x				
					SS-4	x					x	x								x				
					SS-5	x					x	x								x				
					SS-6	x					x	x								x				
					SS-7	x					x	x								x				
					SS-8	x					x	x								x				
					SS-9	x					x	x								x				
					SS-10	x					x	x								x				
					SS-11	x					x	x								x				
					SS-12	x					x	x								x				
					SP-COMP	x					x	x								x				
					B-1	x					x	x								x				
					B-2	x					x	x								x				
					B-3	x					x	x								x				
					B-4	x					x	x								x				
					B-5	x					x	x								x				
					B-6	x					x	x								x				
					B-7	x					x	x								x				
					B-8	x					x	x								x				
			Surface Water		SW-1	x					x	x								x				
					SW-2	x					x	x								x				
					SW-3	x					x	x								x				
					SW-4	x					x	x								x				
			Shallow Groundwater		B-2	x					x	x								x				
					B-5	x					x	x								x				
					B-7	x														x				
GeoEngineers	Supplemental Surface Soil & Water Sampling	2004	Soil	North Creek Analytical, Anatek	SS-13											x		x	x			x		
					SS-14											x		x	x			x		
					SS-15											x		x	x			x		
					SS-16											x		x	x			x		
					SS-17											x		x	x			x		
					SS-18											x		x	x			x		
			Surface Water		SW-5	x					x	x						x	x	x		x		
			Deep Groundwater		MW-1	x					x	x							x	x		x		
					MW-2	x					x	x							x	x		x		
					MW-3	x					x	x							x	x		x		
Port of Skagit County	Supplemental Soil & Groundwater Sampling	2004-2005	Soil	Edge Analytical	N-1,2,3,5-COMPOSITE	x										x							x	
					N6-10	x										x							x	
					S1-5	x										x				x				
					S6-10	x										x				x				
					S-6			x												x				
					S-7			x												x				
					S-8			x												x				
					S-9			x												x				
					S-10			x												x				
			Surface Water	Edge Analytical	SW-1	x						x								x				
					SW-2	x						x								x				
					SW-3	x						x								x				
					SW-4	x						x								x				
					SW-5	x						x								x				
					SW-6	x						x								x				
					SW-7	x						x								x				
					SW-8	x						x								x				
					SW-9	x						x								x				
			Deep Groundwater	Edge Analytical	MW-1Q1											x				x				
					MW-2Q1											x				x				
					MW-3Q1											x				x				
					MW-1Q2											x				x				
					MW-2Q2											x				x				
					MW-3Q2											x				x				
					MW-1Q3											x				x				
					MW-2Q3											x				x				
					MW-3Q3											x				x				
					MW-1Q4											x				x				
					MW-2Q4											x				x				
					MW-3Q4											x				x				
Hart Crowser	Focused RI/FS	2005-2006	Soil	Edge Analytical	HC-01	x	x			x	x	x												
					HC-02	x	x			x	x	x												
					HC-03	x	x			x	x	x												
					HC-04	x	x			x	x	x												
					HC-05	x	x			x	x	x												
					HC-06	x	x			x	x	x												
					HC-07	x	x			x	x	x												
					HC-08	x	x			x	x	x												
					HC-09	x	x			x	x	x												
					HC-10	x	x			x	x	x												
					HC-11	x	x			x	x	x												
					HC-12	x	x			x	x	x												
					G-13-S	x	x			x	x	x												
					G-14-S	x	x			x	x	x												
					G-15-S	x	x			x	x	x												
					G-16-S	x	x			x	x	x												

Company/Agency Performing Field Work	Investigation	Year	Sample Type	Analytical Laboratory	Sample Location	Chlorinated herbicides (EPA 8151A)	Phenoxy herbicides (EPA 8151A)	Dinoseb (EPA 8151A)	MCPA (EPA 8151A)	Triazine herbicides (EPA 8081MOD)	Organophosphate pesticides (EPA 8141/8141A)	Chlorinated pesticides (EPA 8081/8081A)	Endosulfans ONLY (EPA 8081/8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Endosulfan (EPA 8270)	Pesticides (EPA 8270)	Dimethoate (EPA 8270)	Methomyl and benomyl (EPA 8321)	Volatile Organic Compounds (EPA 8260B)	Arsenic (EPA 200.8)	Arsenic (EPA 6020)	Arsenic (EPA 6010B)	Zinc
Hart Crowser (continued)	Focused RI/FS (continued)	2005-2006	Soil	Edge Analytical	G-17-S	x	x			x	x	x												
					G-18-A	x	x			x	x	x												
					G-18-B	x	x			x	x	x												
					G-18-C	x	x			x	x	x												
					G-19-S	x	x			x	x	x												
					G-20-S	x	x			x	x	x												
					G-21-S	x	x			x	x	x												
					G-22-S	x	x			x	x	x												
					G-23-S	x	x			x	x	x												
					G-24-S	x	x			x	x	x												
					G-24-X	x	x			x	x	x												
					HC-25A	x	x			x	x	x												
					HC-25B	x	x			x	x	x												
					HC-25C	x	x			x	x	x												
					G-26-S	x	x			x	x	x												
					G-27-S	x	x			x	x	x												
					G-28-S	x	x			x	x	x												
					G-29-S	x	x			x	x	x												
					G-30-A	x	x			x	x	x												
					G-30-B	x	x			x	x	x												
Hart Crowser	Focused RI/FS	2005-2006	Soil	Edge Analytical	G-30-C	x	x			x	x	x												
					G-31-S	x	x			x	x	x												
					G-32-S	x	x			x	x	x												
					G-33-S	x	x			x	x	x												
					G-34-S	x	x			x	x	x												
					G-35-S	x	x			x	x	x												
					G-36-S	x	x			x	x	x												
					G-37-S	x	x			x	x	x												
					G-38-S	x	x			x	x	x												
					G-39-S	x	x			x	x	x												
					G-40-S	x	x			x	x	x												
					G-41-S	x	x			x	x	x												
					G-42-S	x	x			x	x	x												
					G-43-S	x	x			x	x	x												
					G-44-S	x	x			x	x	x												
					G-45-S	x	x			x	x	x												
					G-46-S	x	x			x	x	x												
					G-47-S	x	x			x	x	x												
					G-48-A	x	x			x	x	x												
					G-101-A	x	x			x	x	x												
					G-48-B	x	x			x	x	x												
					G-48-C	x	x			x	x	x												
					G-49-S	x	x			x	x	x												
					G-50-S	x	x			x	x	x												
					G-51-S	x	x			x	x	x												
					G-52-S	x	x			x	x	x												
					G-53-S	x	x			x	x	x												
					G-54-SP	x	x			x	x	x												
					G-100-S	x	x			x	x	x												
					G-55-SP	x	x			x	x	x												
					G-56-SP	x	x			x	x	x												
					G-57-SP	x	x			x	x	x												
					G-60-SED	x	x			x	x	x												
					G-61-SED	x	x			x	x	x												
					G-62-S	x	x			x	x	x												
					NS-64						x	x												
					NS-65					x		x												
					NS-66							x												
			Deep Groundwater		Livestock Well	x	x			x	x	x												x
Hart Crowser	Focused RI/FS Addendum	2006-2008	Soil	Edge Analytical	G-67 Sed								x											
					G-68 Sed								x											
					G-69 Sed								x											
					G-70								x											
					G-71								x											
					G-72								x											
					G-73-SED								x											
					G-74-SED								x											
					G-75-SED								x											
					G-76-SED								x											
					G-77-SED								x											
					G-78-SED								x											
					G-79-SED								x											
					G-80-SED								x											
					G-81-SED								x											
					G-82-SED								x											
					G-83-SED								x											
					G-84-SED								x											
					G-85-SED								x											
					HC-86								x											
					HC-87								x											
					HC-88								x											
					HC-89								x											
					HC-90								x											
					HC-91								x											
					HC-92								x											
					HC-93								x											
					HC-100								x											
					HC-101								x											
					HC-102								x											
					HC-103								x											
					HC-104								x											
					HC-105								x											
					HC-106								x											
					HC-107								x											
					HC-108								x											
					HC-109								x											
					HC-110								x											
					HC-111								x											

Company/Agency Performing Field Work	Investigation	Year	Sample Type	Analytical Laboratory	Sample Location	Chlorinated herbicides (EPA 8151A)	Phenoxy herbicides (EPA 8151A)	Dinoseb (EPA 8151A)	MCPA (EPA 8151A)	Triazine herbicides (EPA 8081MOD)	Organophosphate pesticides (EPA 8141/8141A)	Chlorinated pesticides (EPA 8081/8081A)	Endosulfans ONLY (EPA 8081/8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Endosulfan (EPA 8270)	Pesticides (EPA 8270)	Dimethoate (EPA 8270)	Methomyl and benomyl (EPA 8321)	Volatile Organic Compounds (EPA 8260B)	Arsenic (EPA 200.8)	Arsenic (EPA 6020)	Arsenic (EPA 6010B)	Zinc
Hart Crowser (continued)	Focused RI/FS Addendum (continued)	2006-2008	Soil	Edge Analytical	HC-112								x											
					HC-113								x											
					HC-114								x											
					HC-115								x											
					HC-116								x											
					HC-117								x											
					HC-118								x											
					HC-119								x											
					HC-120								x											
					HC-121								x											
					HC-122								x											
					HC-123								x											
					HC-124								x											
					HC-125								x											
					HC-126								x											
					HC-127								x											
					HC-128								x											
					HC-129								x											
					HC-130								x											
					HC-131								x											
					HC-132								x											
Hart Crowser	Focused RI/FS Addendum	2006-2008	Soil	Edge Analytical	HC-133								x											
					HC-135								x											
					HC-136								x											
					HC-137								x											
					HC-139								x											
					HC-141								x											
					HC-143								x											
					HC-145								x											
					HC-147								x											
					HC-148								x											
					HC-149								x											
					HC-150								x											
					HC-151								x											
					HC-152								x											
					HC-153								x											
					HC-154								x											
					HC-155								x											
					HC-157								x											
					HC-158								x											
					HC-159								x											
					HC-160								x											
					HC-161								x											
					112-0-1	x	x			x	x	x												
					112-0-2	x	x			x	x	x												
					60-0-1	x	x			x	x	x												
					B12-0-1	x	x			x	x	x												
					B12-1-2	x	x			x	x	x												
					B20-0-1	x	x			x	x	x												
					B20-1-2	x	x			x	x	x												
					B24-0-1	x	x			x	x	x												
					B24-1-2	x	x			x	x	x												
					B30A-0-1	x	x			x	x	x												
					B30A-1-2	x	x			x	x	x												
			Deep Groundwater		Livestock Well	x	x			x	x	x												
GeoEngineers	RI	2009-2010	Soil	Edge Analytical/OnSite Environmental	GEI-1								x											
					GEI-2								x											
					GEI-3								x		x									
					GEI-4			x					x											
					GEI-5								x											
					GEI-6			x					x											
					GEI-7								x											
					GEI-8			x					x											
					GEI-9			x					x	x										
					GEI-10								x											
					GEI-11								x											
					GEI-12								x											
					GEI-13								x											
					GEI-14								x											
					GEI-15								x											
					GEI-16								x											
					GEI-17								x											
					GEI-18								x											
					GEI-19								x											
					GEI-20								x											
					GEI-21								x											
					GEI-22								x											
					GEI-23								x											
					GEI-24								x											
					GEI-25								x											
					GEI-26								x											
					GEI-27								x											
					GEI-28								x											
					GEI-29								x											
					GEI-30								x											
					GEI-31								x											
					GEI-33								x											
					GEI-41								x											
					GEI-42								x											
					GEI-43								x											
					GEI-44								x											
					GEI-45								x											
					GEI-46								x											
					GEI-47								x											

Company/Agency Performing Field Work	Investigation	Year	Sample Type	Analytical Laboratory	Sample Location	Chlorinated herbicides (EPA 8151A)	Phenoxy herbicides (EPA 8151A)	Dinoseb (EPA 8151A)	MCPA (EPA 8151A)	Triazine herbicides (EPA 8081MOD)	Organophosphate pesticides (EPA 8141/8141A)	Chlorinated pesticides (EPA 8081/8081A)	Endosulfans ONLY (EPA 8081/8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Endosulfan (EPA 8270)	Pesticides (EPA 8270)	Dimethoate (EPA 8270)	Methomyl and benomyl (EPA 8321)	Volatile Organic Compounds (EPA 8260B)	Arsenic (EPA 200.8)	Arsenic (EPA 6020)	Arsenic (EPA 6010B)	Zinc
GeoEngineers (continued)	RI	2009-2010	Groundwater	Edge Analytical/OnSite Environmental	MW-1			x	x			x												
					MW-2			x	x			x												
					MW-3			x	x			x												
					Livestock Well			x	x			x												
					GEI-MW-4			x	x			x												
					GEI-MW-5			x	x			x												
					GEI-MW-6			x	x			x												
					GEI-MW-7			x	x			x												
					GEI-MW-8			x	x			x												

TABLE 2

PROPOSED SOIL CLEANUP LEVELS

TAXIWAY F SITE
BURLINGTON, WASHINGTON

Analyte	CAS No.	Soil Criteria						Analytical Laboratory Criteria[3]		Proposed Soil Cleanup Level[6]
		Washington State Background[1]	Method B Standard Formula Value, Carcinogen, Direct Contact, Unrestricted Land Use[2]	Method B Standard Formula Value, Non-Carcinogen, Direct Contact, Unrestricted Land Use[2]	Protection of Groundwater (Calculated)	Site-Specific TEE[4]	Site-Specific Calculated TEE[5]	Practical Quantitation Limit	Analytical Method	
Chlorinated Pesticides										
aldrin	309-00-2	--	0.059	2.4	--	0.1	--	0.025	8081A-GC/ECD	0.059
alpha chlordane (cis-chlordane)	5103-71-9	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
gamma chlordane	5566-34-7	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
total chlordane	57-74-9	--	2.9	40	2.05	2.7	--	0.025	8081A-GC/ECD	2.05
4,4'-DDD	72-54-8	--	4.2	--	--	--	--	0.025	8081A-GC/ECD	4.2
4,4'-DDE	72-55-9	--	2.9	--	--	--	--	0.025	8081A-GC/ECD	2.9
4,4'-DDT	50-29-3	--	2.9	40	3.54	--	--	0.025	8081A-GC/ECD	2.9
total DDT (sum of 4,4' isomers)	EDF-229	--	--	--	--	0.75	--	0.025	8081A-GC/ECD	0.75
dieldrin	60-57-1	--	0.063	4	--	0.07	--	0.025	8081A-GC/ECD	0.063
endosulfan I	959-98-8	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
endosulfan II	33213-65-9	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
endosulfan sulfate	1031-07-8	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
total endosulfan	115-29-7	--	--	480	4.22	--	2.4	0.025	8081A-GC/ECD	2.4
endrin ketone	53494-70-5	--	--	--	--	--	--	0.025	8081A-GC/ECD	--
heptachlor	76-44-8	--	0.22	40	--	0.4	--	0.025	8081A-GC/ECD	0.22
heptachlor epoxide	1024-57-3	--	0.11	1	--	0.4	--	0.025	8081A-GC/ECD	0.11
lindane (gamma-BHC)	58-89-9	--	0.77	24	--	6	--	0.025	8081A-GC/ECD	0.77
methoxychlor	72-43-5	--	--	400	--	--	--	0.025	8081A-GC/ECD	400
toxaphene	8001-35-2	--	0.91	--	--	--	--	0.5	8081A-GC/ECD	0.91
Organophosphate Pesticides										
azinphos-methyl (guthion)	86-50-0	--	--	--	--	--	--	0.25	8141mod-GC/MS	--
chlorpyrifos (chlorpyriphos)	2921-88-2	--	--	240	--	--	--	0.05	8081mod-GC/MS	240
methyl parathion	298-00-0	--	--	20	--	--	--	0.25	8141mod-GC/MS	20
parathion (parathion ethyl)	56-38-2	--	--	480	--	--	--	0.05	8081mod-GC/MS	480
Herbicides										
3,5-dichlorobenzoic acid	51-36-5	--	--	--	--	--	--	0.1	8151A-ECD or GC/MS	-
4-nitrophenol	100-02-7	--	--	--	--	--	--	0.1	8151A-ECD or GC/MS	--
2,4,5-TP (silvex)	93-72-1	--	--	640	--	--	--	0.1	8151A-ECD or GC/MS	640
2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	93-76-5	--	--	800	--	--	--	0.1	8151A-ECD or GC/MS	800
2,4-DB	94-82-6	--	--	640	--	--	--	0.8	8151A-ECD or GC/MS	640
2,4-D (2,4-dichlorophenoxyacetic acid)	94-75-7	--	--	800	--	--	--	0.2	8151A-ECD or GC/MS	800
bentazon	25057-89-0	--	--	2,400	--	--	--	0.1	8151A-ECD or GC/MS	2,400
chloramben	133-90-4	--	--	1,200	--	--	--	0.1	8151A-ECD or GC/MS	1,200
USA DCPA (dacthal)(total DCPA diacid)(chlorthal)	1861-32-1	--	--	800	--	--	--	0.05	8081mod-GC/MS	800
dicamba	1918-00-9	--	--	2,400	2.20	--	--	0.1	8151A-ECD or GC/MS	2.2
dichlorprop	120-36-5	--	--	--	--	--	--	0.3	8151A-ECD or GC/MS	--
dinoseb	88-85-7	--	--	80	0.524	--	25.8	0.05	8081mod-GC/MS	0.524
MCPA (2-methyl-4-chlorophenoxy-acetic acid)	94-74-6	--	--	40	--	--	--	0.1	8151A-ECD or GC/MS	40
MCPP (2-(2-methyl-4-chlorophenoxy)propianic acid)	7085-19-0	--	--	--	--	--	--	0.1	8151A-ECD or GC/MS	--
pentachlorophenol	87-86-5	--	8.3	2,400	--	4.5	--	0.05	8081mod-GC/MS	4.5
triclopyr (trichlopyr)	55335-06-3	--	--	--	--	--	--	0.1	8151A-ECD or GC/MS	--
Miscellaneous Pesticides/Herbicides										
alachlor	15972-60-8	--	12	800	--	--	--	0.05	8081mod-GC/MS	12
atrazine	1912-24-9	--	4.5	2,800	--	--	--	0.05	8081mod-GC/MS	4.5
triadimefon/bayleton	43121-43-3	--	--	480	--	--	--	0.05	8081mod-GC/MS	480
chlorothalonil (daconil)	1897-45-6	--	91	1,200	--	--	--	0.05	8081mod-GC/MS	91
chlorpropham	101-21-3	--	--	16,000	--	--	--	0.05	8081mod-GC/MS	16,000
dicofol	115-32-2	--	--	--	--	--	--	0.5	8081mod-GC/MS	--

Analyte	CAS No.	Soil Criteria						Analytical Laboratory Criteria[3]		Proposed Soil Cleanup Level[6]
		Washington State Background[1]	Method B Standard Formula Value, Carcinogen, Direct Contact, Unrestricted Land Use[2]	Method B Standard Formula Value, Non-Carcinogen, Direct Contact, Unrestricted Land Use[2]	Protection of Groundwater (Calculated)	Site-Specific TEE[4]	Site-Specific Calculated TEE[5]	Practical Quantitation Limit	Analytical Method	
diphenamid	957-51-7	--	--	2,400	--	--	--	0.05	8081mod-GC/MS	2,400
EPTC (S-ethyl dipropylthiocarbamate) (eptam)	759-94-4	--	--	2,000	--	--	--	0.05	8081mod-GC/MS	2,000
metolachlor	51218-45-2	--	--	12,000	--	--	--	0.05	8081mod-GC/MS	12,000
metribuzin	21087-64-9	--	--	2,000	--	--	--	0.05	8081mod-GC/MS	2,000
napropamide	15299-99-7	--	--	8,000	--	--	--	0.05	8081mod-GC/MS	8,000
cis-permethrin	54774-45-7	--	--	--	--	--	--	0.05	8081mod-GC/MS	--
trans-permethrin	61949-77-7	--	--	--	--	--	--	0.05	8081mod-GC/MS	--
total permethrin	52645-53-1	--	--	4,000	--	--	--	0.05	8081mod-GC/MS	4,000
prometon (pramitol 5p)	1610-18-0	--	--	1,200	--	--	--	0.05	8081mod-GC/MS	1,200
propazine	139-40-2	--	--	1,600	--	--	--	0.05	8081mod-GC/MS	1,600
simazine	122-34-9	--	8.3	400	--	--	--	0.05	8081mod-GC/MS	8.3
terbacil	5902-51-2	--	--	1,000	--	--	--	0.05	8081mod-GC/MS	1,000
terbutryn (igran)	886-50-0	--	--	80	--	--	--	0.05	8081mod-GC/MS	80
trifluralin	1582-09-8	--	130	600	--	--	--	0.05	8081mod-GC/MS	130
vernolate/vernam	1929-77-7	--	--	10	--	--	--	0.05	8081mod-GC/MS	10
VOCs										
2-chlorotoluene (o-chlorotoluene)	95-49-8	--	--	1,600	2.06	--	--	0.1	8260B-GC/MS	2.06
benzene	71-43-2	--	18	320	0.0262	--	--	0.1	8260B-GC/MS	0.0262
acetone	67-64-1	--	--	8,000	--	--	--	0.5	8260B-GC/MS	8,000
1,2-dichlorobenzene	95-50-1	--	--	7,200	--	--	--	0.1	8260B-GC/MS	7,200
toluene	108-88-3	--	--	6,400	--	--	--	0.1	8260B-GC/MS	6,400
1,1,1-trichloroethane	71-55-6	--	--	72,000	1.36	--	--	0.1	8260B-GC/MS	1.36
1,2,4-trimethylbenzene	95-63-6	--	--	4,000	--	--	--	0.1	8260B-GC/MS	4,000
1,3,5-trimethylbenzene	108-67-8	--	--	4,000	--	--	--	0.1	8260B-GC/MS	4,000
o-xylene	95-47-6	--	--	160,000	88.0	--	--	0.1	8260B-GC/MS	88
Metals										
arsenic	7440-38-2	20	0.67	24	4.67	7/132*	--	1	6010B	20
zinc	7440-66-6	85	--	24,000	5,970	360	--	2	6010B	360

Notes:

Units in milligrams per kilogram (mg/kg)

[1] Zinc background value based on *Natural Background Soil Metals Concentrations in Washington State* (Ecology, October 1994). Arsenic background value based on MTCA Method A cleanup level (regulatory background value; WAC 173-340-900, Table 740-1).

[2] MTCA Method B standard formula values; direct contact (ingestion) (WAC 173-340-745[5][b][iii][B]).

[3] Values obtained from Edge Analytical, Inc.

[4] Site-specific terrestrial ecological evaluation (TEE) values from Table 749-3, MTCA 173-340-900. Wildlife values used.

[5] TEE values (soil concentrations protective of wildlife) for endosulfan and dinoseb were calculated by GeoEngineers - see Appendix D of Work Plan (GeoEngineers, 2009).

[6] Proposed soil cleanup level is the lowest soil criterion as indicated by shading; adjusted where appropriate based on Washington State natural background.

* Values for arsenic (III)/arsenic (V).

Green-highlighted analytes were detected at least once in soil.

Italic typeface = Constituent previously detected in soil at concentration exceeding proposed cleanup level.

Grey shading indicates value was selected as the proposed cleanup level.

-- = Not established/not calculated

TABLE 3

PROPOSED GROUNDWATER CLEANUP LEVELS

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Analyte	CAS No.	Groundwater Criteria				Analytical Laboratory Criteria[1]		Proposed Groundwater Cleanup Level[5]
		Washington State Background[2]	Method B Standard Formula Value, Carcinogen, Direct Contact, Drinking Water Use[3]	Method B Standard Formula Value, Non-Carcinogen, Direct Contact, Drinking Water Use[3]	MCL[4]	Practical Quantitation Limit	Analytical Method	
Chlorinated Pesticides								
aldrin	309-00-2	--	0.0026	0.24	--	0.05	8081A-GC/ECD	0.05
alpha chlordane (cis-chlordane)	5103-71-9	--	--	--	--	0.05	8081A-GC/ECD	--
gamma chlordane (trans-chlordane)	5566-34-7	--	--	--	--	0.05	8081A-GC/ECD	--
total chlordane	57-74-9	--	0.25	8	2	0.05	8081A-GC/ECD	2
4,4'-DDD	72-54-8	--	0.36	--	--	0.05	8081A-GC/ECD	0.36
4,4'-DDE	72-55-9	--	0.26	--	--	0.05	8081A-GC/ECD	0.26
4,4'-DDT	50-29-3	--	0.26	8	--	0.05	8081A-GC/ECD	0.26
total DDT (sum of 4,4' isomers)	EDF-229	--	--	--	--	0.05	8081A-GC/ECD	--
dieldrin	60-57-1	--	0.0055	0.8	--	0.05	8081A-GC/ECD	0.05
endosulfan I	959-98-8	--	--	--	--	0.05	8081A-GC/ECD	--
endosulfan II	33213-65-9	--	--	--	--	0.05	8081A-GC/ECD	--
endosulfan sulfate	1031-07-8	--	--	--	--	0.05	8081A-GC/ECD	--
total endosulfan	115-29-7	--	--	96	--	0.05	8081A-GC/ECD	96
endrin ketone	53494-70-5	--	--	--	--	0.05	8081A-GC/ECD	--
heptachlor	76-44-8	--	0.019	8	0.4	0.05	8081A-GC/ECD	0.05
heptachlor epoxide	1024-57-3	--	0.0048	0.1	0.2	0.05	8081A-GC/ECD	0.05
lindane (gamma-BHC)	58-89-9	--	0.067	4.8	0.2	0.05	8081A-GC/ECD	0.2
methoxychlor	72-43-5	--	--	80	40	0.05	8081A-GC/ECD	80
toxaphene	8001-35-2	--	0.08	--	3	1.00	8081A-GC/ECD	1.00
Organophosphate Pesticides								
azinphos-methyl (guthion)	86-50-0	--	--	--	--	0.5	8141mod-GC/MS	--
chlorpyrifos (chlorpyriphos)	2921-88-2	--	--	48	--	0.1	8081mod-GC/MS	48
methyl parathion	298-00-0	--	--	4	--	0.5	8141mod-GC/MS	4
parathion (parathion ethyl)	56-38-2	--	--	96	--	0.1	8081mod-GC/MS	96
Herbicides								
3,5 - dichlorobenzoic acid	51-36-5	--	--	--	--	0.20	8151A-ECD or GC/MS	--
4-nitrophenol	100-02-7	--	--	--	--	0.20	8151A-ECD or GC/MS	--
2,4,5-TP (silvex)	93-72-1	--	--	--	50	0.20	8151A-ECD or GC/MS	50
2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	93-76-5	--	--	--	--	0.20	8151A-ECD or GC/MS	--
2,4-DB	94-82-6	--	--	130	--	1.60	8151A-ECD or GC/MS	130
2,4-D (2,4-dichlorophenoxyacetic acid)	94-75-7	--	--	160	70	0.40	8151A-ECD or GC/MS	160
bentazon	25057-89-0	--	--	480	--	0.20	8151A-ECD or GC/MS	480
chloramben	133-90-4	--	--	--	--	0.2	8151A-ECD or GC/MS	--
USA DCPA (dacthal)(total DCPA diacid)(chlorthal)	1861-32-1	--	--	160	--	0.1	8081mod-GC/MS	160
dicamba	1918-00-9	--	--	480	--	0.20	8151A-ECD or GC/MS	480
dichlorprop	120-36-5	--	--	--	--	0.60	8151A-ECD or GC/MS	--
dinoseb	88-85-7	--	--	--	7	0.1	8081mod-GC/MS	7
MCPA (2-methyl-4-chlorophenoxy-acetic acid)	94-74-6	--	--	8	--	0.20	8151A-ECD or GC/MS	8
MCPP (2-(2-methyl-4-chlorophenoxy)propianic acid)	7085-19-0	--	--	--	--	0.20	8151A-ECD or GC/MS	--
pentachlorophenol	87-86-5	--	0.73	480	1	0.1	8081mod-GC/MS	1
triclopyr (trichlopyr)	55335-06-3	--	--	--	--	0.20	8151A-ECD or GC/MS	--

Analyte	CAS No.	Groundwater Criteria				Analytical Laboratory Criteria[1]		Proposed Groundwater Cleanup Level[5]
		Washington State Background[2]	Method B Standard Formula Value, Carcinogen, Direct Contact, Drinking Water Use[3]	Method B Standard Formula Value, Non-Carcinogen, Direct Contact, Drinking Water Use[3]	MCL[4]	Practical Quantitation Limit	Analytical Method	
Miscellaneous Pesticides/Herbicides								
alachlor	15972-60-8	--	1.1	160	2	0.1	8081mod-GC/MS	2
atrazine	1912-24-9	--	0.4	560	3	0.1	8081mod-GC/MS	3
triadimefon/bayleton	43121-43-3	--	--	480	--	0.1	8081mod-GC/MS	480
chlorothalonil (daconil)	1897-45-6	--	8	240	--	0.1	8081mod-GC/MS	8
chlorpropham	101-21-3	--	--	3,200	--	0.1	8081mod-GC/MS	3,200
dicofol	115-32-2	--	--	--	--	1	8081mod-GC/MS	--
diphenamid	957-51-7	--	--	480	--	0.1	8081mod-GC/MS	480
EPTC (S-ethyl dipropylthiocarbamate) (eptam)	759-94-4	--	--	200	--	0.1	8081mod-GC/MS	200
metolachlor	51218-45-2	--	--	2,400	--	0.1	8081mod-GC/MS	2,400
metribuzin	21087-64-9	--	--	400	--	0.1	8081mod-GC/MS	400
napropamide	15299-99-7	--	--	1,600	--	0.1	8081mod-GC/MS	1,600
cis-permethrin	54774-45-7	--	--	--	--	0.1	8081mod-GC/MS	--
trans-permethrin	61949-77-7	--	--	--	--	0.1	8081mod-GC/MS	--
total permethrin	52645-53-1	--	--	800	--	0.1	8081mod-GC/MS	800
prometon (pramitol 5p)	1610-18-0	--	--	240	--	0.1	8081mod-GC/MS	240
propazine	139-40-2	--	--	320	--	0.1	8081mod-GC/MS	320
simazine	122-34-9	--	0.73	80	4	0.1	8081mod-GC/MS	4
terbacil	5902-51-2	--	--	--	--	0.1	8081mod-GC/MS	--
terbutryn (igran)	886-50-0	--	--	16	--	0.1	8081mod-GC/MS	16
trifluralin	1582-09-8	--	11	120	--	0.1	8081mod-GC/MS	11
vernolate/vernam	1929-77-7	--	--	8	--	0.1	8081mod-GC/MS	8
Volatile Organic Compounds								
2-chlorotoluene (o-chlorotoluene)	95-49-8	--	--	160	--	0.4	8260B-GC/MS	160
benzene	71-43-2	--	0.8	32	5	0.4	8260B-GC/MS	5
acetone	67-64-1	--	--	800	--	2.0	8260B-GC/MS	800
1,2-dichlorobenzene	95-50-1	--	--	720	600	0.4	8260B-GC/MS	720
toluene	108-88-3	--	--	640	1,000	0.4	8260B-GC/MS	640
1,1,1-trichloroethane	71-55-6	--	--	7,200	200	0.4	8260B-GC/MS	200
1,2,4-trimethylbenzene	95-63-6	--	--	400	--	0.4	8260B-GC/MS	400
1,3,5-trimethylbenzene	108-67-8	--	--	400	--	0.4	8260B-GC/MS	400
o-xylene	95-47-6	--	--	16,000	--	0.4	8260B-GC/MS	16,000
Metals								
arsenic	7440-38-2	8.0	0.058	4.8	10	0.6	200.8 - ICP/MS	8.0
zinc	7440-66-6	160	--	4,800	--	20	200.7 - ICP	4,800

Notes:

Units in micrograms per liter (ug/l)

[1] Values obtained from Edge Analytical, Inc.

[2] Source: *Background Concentrations of Selected Chemicals in Water, Soil, Sediments, and Air of Washington State* (PTI, 1989) - 90th percentile values.

[3] MTCA Method B standard formula values; direct-contact (ingestion/inhalation) (WAC 173-340-720[4][b]).

[4] MCL = Federal Maximum Contaminant Level

[5] Proposed groundwater cleanup level is the lowest groundwater criterion as indicated by shading, adjusted where appropriate based on available state/federal ARARs that are adequately protective (HQ ≤ 1, carcinogenic risk ≤ 1E-05), Washington State natural background, and practical quantitation limits.

Green-highlighted analytes were detected at least once in groundwater.

Italic typeface = Constituent previously detected in groundwater at concentration exceeding proposed cleanup level.

Grey shading indicates value was selected as the proposed cleanup level.

-- = Not established

TABLE 4

SOIL ANALYTICAL RESULTS - 2009-2010 INVESTIGATION

TAXIWAY F SITE

BURLINGTON, WASHINGTON

		Sample ID:	GEI-1-0.3-0.5	GEI-2-0.5-0.6	GEI-3-0.4-0.5	GEI-4-0.3-0.5	GEI-5-0.3-0.5	GEI-6-0.4-0.5	GEI-7-0.2-0.3	GEI-7-0.8-1.0	GEI-8-0.3-0.5	GEI-9-0.3-0.5	GEI-9-0.8-1.0	GEI-9-1.7-2.0	GEI-10-0.3-0.5
		Location ID:	GEI-1	GEI-2	GEI-3	GEI-4	GEI-5	GEI-6	GEI-7	GEI-7	GEI-8	GEI-9	GEI-9	GEI-9	GEI-10
		Depth (in feet):	0.3- 0.5	0.5- 0.6	0.4- 0.5	0.3- 0.5	0.3- 0.5	0.4- 0.5	0.2- 0.3	0.8- 1.0	0.3- 0.5	0.3- 0.5	0.8- 1.0	1.7- 2.0	0.3- 0.5
		Date Sampled:	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	10/1/2009	9/10/2009
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**													
Dieldrin	ug/kg	63	–	–	–	–	–	–	–	–	–	**1,240**	**371**	30 U	–
Endosulfan I	ug/kg	--	30 U	30 U	25 U	30 U	**3 J**	**36**	**2,460**	**150**	30 U	**37**	–	–	**29 J**
Endosulfan II	ug/kg	--	**62**	**7 J**	25 U	30 U	**3 J**	**74**	**1,070**	**89**	30 U	**92**	–	–	**37**
Endosulfan Sulfate	ug/kg	--	**360**	**3 J**	25 U	30 U	30 U	**7 J**	100 U	30 U	**57**	**400**	–	–	**20 J**
Endosulfan (Total)	ug/kg	2,400	**437 T**	**25 JT**	25 UT	30 UT	**21 JT**	**117 JT**	**3,580 T**	**254 T**	**87 T**	**529 T**	–	–	**86 JT**
Toxaphene	ug/kg	910	–	–	250 U	–	–	–	–	–	–	–	–	–	–
Chlorinated Acid Herbicides by SW8151A															
Dinoseb	ug/kg	524	–	–	–	50 U	–	50 U	–	–	50 U	50 U	–	–	–

		Sample ID:	GEI-11-0.3-0.5	GEI-12-0.3-0.5	DUP-3	GEI-13-0.3-0.5	GEI-13-0.8-1.0	GEI-13-1.7-2.0	GEI-14-0.3-0.5	GEI-14-0.8-1.0	GEI-15-0.3-0.5	GEI-16-0.3-0.5	GEI-17-0.3-0.5	GEI-18-0.3-0.5	GEI-19-0.7-1.0
		Location ID:	GEI-11	GEI-12	GEI-12	GEI-13	GEI-13	GEI-13	GEI-14	GEI-14	GEI-15	GEI-16	GEI-17	GEI-18	GEI-19
		Depth (in feet):	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.8- 1.0	1.7- 2.0	0.3- 0.5	0.8- 1.0	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.7- 1.0
		Date Sampled:	9/10/2009	9/10/2009	9/10/2009	9/10/2009	9/10/2009	10/1/2009	9/11/2009	9/11/2009	9/11/2009	9/11/2009	9/11/2009	9/11/2009	9/10/2009
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**													
Dieldrin	ug/kg	63	–	–	–	–	–	–	–	–	–	–	–	–	–
Endosulfan I	ug/kg	--	25 U	30 U	30 U	**2,690 J**	**1,150**	**6 J**	**2,000**	**70**	40 U	30 U	**210**	30 U	**224**
Endosulfan II	ug/kg	--	25 U	**30 J**	**20 J**	**6,060 J**	**3,160 J**	**16 J**	**5,230**	**410**	40 U	30 U	**466 J**	**15 J**	**163**
Endosulfan Sulfate	ug/kg	--	25 U	**55**	**48**	**6,790**	**2,470**	**36**	**7,920**	**980**	**330**	30 U	**938**	**160**	**20 J**
Endosulfan (Total)	ug/kg	2,400	25 UT	**100 JT**	**83 JT**	**15,540 JT**	**6,780 JT**	**58 JT**	**15,150 T**	**1,460 T**	**370 T**	30 UT	**1,614 JT**	**190 JT**	**407 JT**
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorinated Acid Herbicides by SW8151A															
Dinoseb	ug/kg	524	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	DUP-2	GEI-20-0.8-1.0	GEI-20-1.7-2.0	GEI-21-0.8-1.0	GEI-22-0.8-1.0	GEI-23-0.2-0.5	DUP-5	GEI-24-0.3-0.5	GEI-25-0.3-0.5	GEI-26-0.3-0.5	GEI-26-0.8-1.0	DUP-4-0617-10	GEI-27-0.3-0.5
		Location ID:	GEI-19	GEI-20	GEI-20	GEI-21	GEI-22	GEI-23	GEI-23	GEI-24	GEI-25	GEI-26	GEI-26	GEI-26	GEI-27
		Depth (in feet):	0.7- 1.0.0	0.8- 1.0	1.7- 2.0	0.8- 1.0	0.8- 1.0	0.2- 0.5	0.2- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.8- 1.0	0.8- 1.0	0.3- 0.5
		Date Sampled:	9/10/2009	9/10/2009	10/1/2009	9/11/2009	9/11/2009	10/1/2009	10/1/2009	10/1/2009	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**													
Dieldrin	ug/kg	63	–	–	–	–	–	–	–	–	–	–	–	–	–
Endosulfan I	ug/kg	--	**202**	**4,150**	**29 J**	**120**	**90**	30 U	30 U	30 U	**670**	**2,500**	**470**	**320**	10 U
Endosulfan II	ug/kg	--	**137**	**3,210**	**20 J**	**592 J**	**960 J**	30 U	30 U	30 U	**360**	**3,200**	**380**	**350**	21 U
Endosulfan Sulfate	ug/kg	--	**10 J**	425 U	30 U	**1,150**	**1,290**	30 U	30 U	30 U	**55**	**2,100**	**250**	**250**	**110**
Endosulfan (Total)	ug/kg	2,400	**349 JT**	**7,573 T**	**64 JT**	**1,862 JT**	**2,340 JT**	30 UT	30 UT	30 UT	**1,085 T**	**7,800 T**	**1,100 T**	**920 T**	**126 T**
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorinated Acid Herbicides by SW8151A															
Dinoseb	ug/kg	524	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	GEI-28-0.3-0.5	GEI-29-0.3-0.5	GEI-30-0.3-0.5	GEI-31-0.3-0.5	GEI-33-0.3-0.5	GEI-33-0.8-1.0	GEI-41-0.3-0.5	GEI-42-0.3-0.5	GEI-43-0.3-0.5	GEI-44-0.3-0.5	GEI-45-0.3-0.5	GEI-46-0.3-0.5	GEI-47-0.3-0.5
		Location ID:	GEI-28	GEI-29	GEI-30	GEI-31	GEI-33	GEI-33	GEI-41	GEI-42	GEI-43	GEI-44	GEI-45	GEI-46	GEI-47
		Depth (in feet):	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.8- 1.0	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5	0.3- 0.5
		Date Sampled:	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010	6/17/2010
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**													
Dieldrin	ug/kg	63	–	–	–	–	–	–	–	–	–	–	–	–	–
Endosulfan I	ug/kg	--	**190**	10 U	**150**	12 U	**880**	**210 J**	**760**	**72**	**68**	**180**	**240**	6.2 U	7.4 U
Endosulfan II	ug/kg	--	**810**	21 U	18 U	24 U	**1,700**	**540 J**	**700**	**34**	**23**	**150**	**180**	12 U	15 U
Endosulfan Sulfate	ug/kg	--	**1,000**	21 U	18 U	24 U	**2,200**	**830 J**	**360**	**400**	**120**	**310**	**190**	**14**	15 U
Endosulfan (Total)	ug/kg	2,400	**2,000 T**	21 UT	**168 T**	24 UT	**4,780 T**	**1,580 JT**	**1,820 T**	**506 T**	**211 T**	**640 T**	**610 T**	**23 T**	15 UT
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorinated Acid Herbicides by SW8151A															
Dinoseb	ug/kg	524	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

-- = Not established.

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Estimated concentration.

UJ = Not detected above the associated value; the associated value is the estimated method reporting limit for the sample.

UT = Not detected above the associated value; the associated value is the total value calculated by GeoEngineers.

JT = Value calculated by GeoEngineers using one or more values that were independently qualified as estimated in the validation process.

R = Datum rejected based on quality control data review/validation.

T = Value calculated by GeoEngineers.

ug/kg = micrograms per kilogram.

bold = exceeds cleanup level

bold = detection

TABLE 5

GROUNDWATER ELEVATIONS - 2009-2010 INVESTIGATION

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Well ID	Installation Date	TOC Elevation (ft)*	Well Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer/Water-Bearing Zone	Depth to Water (ft btoc)						Groundwater Elevation (ft)					
						11/16/2009	11/22/2009	12/1/2009	3/11/2010	6/10/2010	9/16/2010	11/16/2009	11/22/2009	12/1/2009	3/11/2010	6/10/2010	9/16/2010
MW-1	1/7/2004	116.74	115	100 to 115	Deep	NM	NM	101.31	101.83	101.42	101.93	NM	NM	15.43	14.91	15.32	14.81
MW-2	1/8/2004	118.15	115	90 to 115	Deep	NM	NM	102.70	103.24	102.86	103.31	NM	NM	15.45	14.91	15.29	14.84
MW-3	1/9/2004	117.37	115	90 to 115	Deep	NM	NM	101.74	102.21	101.90	102.38	NM	NM	15.63	15.16	15.47	14.99
GEI-MW4	10/22/2009	122.06	5.4	2.3 to 5.3	Shallow (perched)	3.76	3.87	3.44	4.30	3.79	5.09	118.30	118.19	118.62	117.76	118.27	116.97
GEI-MW5	10/22/2009	119.93	5.1	2.1 to 5.1	Shallow (perched)	3.49	3.41	3.43	3.79	3.65	6.72	116.44	116.52	116.50	116.14	116.28	113.21
GEI-MW6	10/22/2009	120.75	5.2	2.2 to 5.2	Shallow (perched)	6.49	7.56	7.21	4.22	4.09	6.34	114.26	113.19	113.54	116.53	116.66	114.41
GEI-MW7	10/22/2009	120.26	5.1	2.1 to 5.1	Shallow (perched)	3.78	3.41	3.42	3.97	3.52	4.18	116.48	116.85	116.84	116.29	116.74	116.08
GEI-MW8	10/22/2009	117.60	5.0	2.0 to 5.0	Shallow (perched)	3.31	3.32	2.83	2.95	3.14	4.59	114.29	114.28	114.77	114.65	114.46	113.01
Livestock Well	unknown	112.23	>100	unknown	Deep	NM	NM	100.13	NM	NM	NM	NM	NM	12.10	NM	NM	NM

Notes:

TOC = top of casing

ft btoc = feet below top of casing

ft bgs = feet below ground surface

NM = not measured.

* TOC surveyed on 12-1-09 by GeoEngineers relative to USGS Benchmark on west side of Taxiway F; benchmark elevation = 118.92 feet (NGVD29 vertical datum).

TABLE 6

GROUNDWATER ANALYTICAL RESULTS
2009-2010 INVESTIGATION
TAXIWAY F SITE
BURLINGTON, WASHINGTON

		Sample ID:	MW-1_120209	MW-2_120209	MW-3_120209	LIVESTOCK WELL_120209	GEI-MW-4 (FILTERED)	GEI-MW-4 (UNFILTERED)	GEI-MW-4_100311F (FILTERED)	GEI-MW-4_100311 (UNFILTERED)	FD-100311 (UNFILTERED)	GEI-MW-4_100610F (FILTERED)	GEI-MW-4_100610 (UNFILTERED)	GEI-MW-4_100916 (FILTERED)	GEI-MW-4_100916 (UNFILTERED)	GEI-MW-5 (FILTERED)	GEI-MW-5 (UNFILTERED)	GEI-MW-5_100311F (FILTERED)	GEI-MW-5_100311 (UNFILTERED)
		Location ID:	MW-1	MW-2	MW-3	LIVESTOCK WELL	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW4	GEI-MW5	GEI-MW5	GEI-MW5	GEI-MW5
		Date/Time Sampled:	12/2/2009	12/2/2009	12/2/2009	12/2/2009	12/2/2009	12/2/2009	3/11/2010	3/11/2010	3/11/2010	6/10/2010	6/10/2010	9/16/2010	9/16/2010	12/2/2009	12/2/2009	3/11/2010	3/11/2010
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**																	
Aldrin	ug/l	0.05	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	0.0048 U	0.0048 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Alpha-BHC*	ug/l	--	--	--	--	--	--	--	--	--	--	0.048 U	0.048 U	0.0048 U	**0.082**	--	--	--	--
Beta-BHC*	ug/l	--	--	--	--	--	--	--	--	--	--	**0.095**	**0.24**	**0.037**	**0.11 NJ**	--	--	--	--
Lindane (Gamma-BHC)*	ug/l	0.20	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	--	--	--	0.048 U	0.048 U	0.0048 U	**0.025 NJ**	0.05 U	0.05 UJ	--	--
Delta-BHC*	ug/l	--	--	--	--	--	--	--	--	--	--	0.048 U	0.048 U	0.0048 U	0.0048 U	--	--	--	--
alpha-Chlordane (cis)	ug/l	--	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.24 J**	**1.9**	**0.024 NJ**	**0.051 J**	0.05 U	0.05 UJ	0.05 U	0.05 U
beta or gamma-Chlordane (trans)	ug/l	--	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.048 J**	**0.064 J**	**0.022 NJ**	**0.0093 NJ**	0.05 U	0.05 UJ	0.05 U	0.05 U
Chlordane (Total)	ug/l	2.0	0.05 UT	0.05 UT	0.05 UJT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	**0.26 JT**	**1.96 JT**	**0.046 NJT**	**0.060 NJT**	0.05 UT	0.05 UJT	0.05 UT	0.05 UT
4,4'-DDT	ug/l	0.26	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	0.0048 U	0.0048 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDE	ug/l	0.26	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	0.0048 U	0.0048 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDD	ug/l	0.36	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	**0.15 NJ**	0.0048 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Total DDT (4,4 isomers)	ug/l	--	0.05 UT	0.05 UT	0.05 UJT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.048 UT	0.048 UT	**0.15 NJT**	0.0048 UT	0.05 UT	0.05 UJT	0.05 UT	0.05 UT
Dieldrin	ug/l	0.05	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	**0.047 J**	**0.1**	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan I	ug/l	--	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	**2.25**	**2.1**	**1.0 J**	**4.6 J**	**0.75 NJ**	**4.4 NJ**	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan II	ug/l	--	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	**1.5**	0.05 U	**2.1**	**2.1**	**0.21**	**2.8**	**0.11**	**1.5**	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan Sulfate	ug/l	--	**0.19**	0.05 U	0.05 UJ	0.05 U	0.05 U	**1.3**	0.05 U	**2.4**	**2.3**	**0.28 J**	**7.9**	**3.3 NJ**	**8.6 NJ**	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan (Total)	ug/l	96	**0.24 T**	0.05 UT	0.05 UJT	0.05 UT	0.05 UT	**2.8 T**	0.05 UT	**6.8 T**	**6.5 T**	**1.5 JT**	**15 JT**	**4.2 NJT**	**15 NJT**	0.05 U	0.05 UJT	0.05 UT	0.05 UT
Endrin*	ug/l	--	--	--	--	--	--	--	--	--	--	0.048 U	0.048 U	**0.12 NJ**	0.0048 U	--	--	--	--
Endrin Aldehyde*	ug/l	--	--	--	--	--	--	--	--	--	--	0.048 U	0.048 U	0.0048 U	0.0048 U	--	--	--	--
Endrin Ketone*	ug/l	--	--	--	--	--	--	--	--	--	--	0.19 U	0.19 U	0.019 U	0.019 U	--	--	--	--
Heptachlor	ug/l	0.05	--	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	0.0048 U	0.0048 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Heptachlor Epoxide	ug/l	0.05	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.048 U	0.048 U	**0.13 NJ**	**0.11 NJ**	0.05 U	0.05 UJ	0.05 U	0.05 U
Methoxychlor*	ug/l	80	--	--	--	--	--	--	--	--	--	0.095 U	0.096 U	0.0097 U	0.0096 U	--	--	--	--
Toxaphene	ug/l	1	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	0.48 U	0.48 U	0.048 U	0.048 U	1 U	1 UJ	1 U	1 U
Herbicides by SW8151A																			
2,4,5-T*	ug/l	--	--	--	--	--	--	--	--	--	--	**0.28 J**	**0.13 J**	**0.058**	**0.13 NJ**	--	--	--	--
2,4-D*	ug/l	160	--	--	--	--	**1 J**	**2 J**	**2.4 J**	**0.8 J**	**0.8 J**	**0.98**	**0.57 J**	**0.41**	**0.25**	--	--	--	--
2,4-DB*	ug/l	130	--	--	--	--	--	--	--	--	--	**0.57 J**	**0.36 J**	**0.27 J**	**0.087 NJ**	--	--	--	--
Bentazon*	ug/l	480	--	--	--	--	**600 J**	**222 J**	**680 J**	**1450 J**	**1230 J**	--	--	--	--	**10 J**	**10 J**	**21 J**	**24 J**
Chloramben*	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorthal-dimethyl (DACTHAL)*	ug/l	160	--	--	--	--	--	--	**3.4 J**	**2.4 J**	**2.3 J**	--	--	--	--	--	--	--	--
Dalapon (DPA)*	ug/l	--	--	--	--	--	--	--	--	--	--	0.22 U	0.22 U	0.22 U	0.22 U	--	--	--	--
Dicamba*	ug/l	480	--	--	--	--	**3 J**	**4 J**	**3.1 J**	**1.5 J**	**1.3 J**	**0.87 J**	**1.9 J**	**0.57**	**0.83**	--	--	--	--
Dichlorprop*	ug/l	--	--	--	--	--	--	--	--	--	--	0.022 U	0.023 U	**0.16 NJ**	0.022 U	--	--	--	--
Dinoseb	ug/l	7	0.1 U	0.1 U	0.1 UJ	0.1 U	**15**	**21**	**32.1**	**14.6**	**13.7**	**8.6**	**18**	**9.2**	**14**	0.1 U	0.1 UJ	0.1 U	0.1 U
MCPA	ug/l	8	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	**70**	**54**	4.5 U	4.4 U	0.2 U	0.2 UJ	0.1 U	0.1 U
Mecoprop (MCPP)*	ug/l	--	--	--	--	--	--	--	--	--	--	**41**	4.5 U	**180 J**	**24**	--	--	--	--
Pentachlorophenol*	ug/l	1	--	--	--	--	--	--	--	--	--	**0.017**	**0.015**	0.0091 U	0.009 U	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)*	ug/l	50	--	--	--	--	**3 J**	**4 J**	**4.1 J**	**2.3 J**	**2.1 J**	**2.1**	**3**	**0.93**	**1.1**	--	--	--	--
Triclopyr (Garlon)*	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	GEI-MW-5_100610F (FILTERED)	GEI-MW-5_100610 (UNFILTERED)	GEI-MW-5_100916 (FILTERED)	GEI-MW-5_100916 (UNFILTERED)	GEI-MW-6 (FILTERED)	GEI-MW-6 (UNFILTERED)	GEI-MW-6_100311F (FILTERED)	GEI-MW-6_100311 (UNFILTERED)	GEI-MW-6_100610F (FILTERED)	GEI-MW-6_100610 (UNFILTERED)	GEI-MW-6_100916 (FILTERED)	GEI-MW-6_100916 (UNFILTERED)	GEI-MW-7 (FILTERED)	DUP-120209 (FILTERED)	GEI-MW-7 (UNFILTERED)	DUP-120209 (UNFLTERED)	GEI-MW-7_100311F (FILTERED)	GEI-MW-7_100311 (UNFILTERED)
		Location ID:	GEI-MW5	GEI-MW5	GEI-MW5	GEI-MW5	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW6	GEI-MW7	GEI-MW7	GEI-MW7	GEI-MW7	GEI-MW7	GEI-MW7
		Date/Time Sampled:	6/10/2010	6/10/2010	9/16/10	9/16/10	12/2/2009	12/2/2009	3/11/2010	3/11/2010	6/10/2010	6/10/2010	9/16/2010	9/16/2010	12/2/2009	12/2/2009	12/2/2009	12/2/2009	3/11/2010	3/11/2010
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**																		
Aldrin	ug/l	0.05	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	0.0047 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Alpha-BHC*	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	--	--	--	--	0.047 U	0.049 U	**0.0072 NJ**	0.0049 U	--	--	--	--	--	--
Beta-BHC*	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	--	--	--	--	**0.25**	**1.3 J**	**0.1 J**	**0.14 J**	--	--	--	--	--	--
Lindane (Gamma-BHC)*	ug/l	0.20	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	--	--	**0.11**	0.049 U	0.0047 U	**0.052 J**	0.05 U	0.05 U	0.05 U	0.05 UJ	--	--
Delta-BHC*	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	--	--	--	--	0.047 U	**0.19**	**0.062 NJ**	**0.057 J**	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/l	--	0.0047 U	**0.0083**	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	**0.04 J**	**0.54 J**	**0.60 J**	**0.037 NJ**	**0.055 J**	0.05 U	0.05 U	**0.09**	**0.08 J**	0.05 U	**0.09**
beta or gamma-Chlordane (trans)	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	**0.04 J**	**1.4 J**	**0.069 J**	**0.059 J**	**0.072 J**	0.05 U	0.05 U	0.05 U	**0.03 J**	0.05 U	**0.07**
Chlordane (Total)	ug/l	2.0	0.0047 UT	**0.032 T**	0.0052 UT	0.0051 UT	0.05 UT	0.05 UT	0.05 UT	**0.08 T**	**1.9 JT**	**0.70 JT**	**0.096 NJT**	**0.13 JT**	0.05 UT	0.05 UT	**0.12 T**	**0.11 JT**	0.05 UT	**0.16 T**
4,4'-DDT	ug/l	0.26	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	0.0047 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDE	ug/l	0.26	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	0.0047 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDD	ug/l	0.36	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	**0.01 NJ**	**0.012 NJ**	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Total DDT (4,4 isomers)	ug/l	--	0.0047 UT	0.0048 UT	0.0052 UT	0.0051 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.047 UT	0.049 UT	**0.015 NJT**	**0.017 NJT**	0.05 UT	0.05 UT	0.05 UT	0.05 UJT	0.05 UT	0.05 UT
Dieldrin	ug/l	0.05	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	0.0047 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan I	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	**0.78**	**1.2 J**	**0.72 J**	**0.11**	**0.15**	0.05 U	0.05 U	**0.22 J**	**0.35 J**	0.05 U	**0.66**
Endosulfan II	ug/l	--	0.0047 U	**0.0054**	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	**0.7**	0.047 U	**0.55**	**0.044**	**0.17**	0.05 U	0.05 U	**0.4**	**0.49 J**	0.05 U	**0.75**
Endosulfan Sulfate	ug/l	--	0.0047 U	**0.031 J**	0.0052 U	**0.015 J**	0.05 U	0.05 U	0.05 U	**0.52**	**1.1 J**	**1.4 J**	**0.17**	**0.18**	0.05 U	0.05 U	**0.25**	**0.2 J**	0.05 U	**0.37**
Endosulfan (Total)	ug/l	96	0.0047 UT	**0.039 JT**	0.0052 UT	**0.020 JT**	0.05 UT	0.05 UT	0.05 UT	**2 T**	**2.3 JT**	**2.7 JT**	**0.32 T**	**0.50 T**	0.05 UT	0.05 UT	**0.87 JT**	**1.0 JT**	0.05 UT	**1.8 T**
Endrin*	ug/l	--	0.0047 U	0.0048 U	0.0052 U	0.0051 U	--	--	--	--	0.047 U	0.049 U	0.0047 U	0.0049 U	--	--	--	--	--	--
Endrin Aldehyde*	ug/l	--	0.0047 U	**0.019**	0.0052 U	0.0051 U	--	--	--	--	0.047 U	0.049 U	**0.041 NJ**	**0.046 NJ**	--	--	--	--	--	--
Endrin Ketone*	ug/l	--	0.019 U	0.019 U	0.021 U	0.02 U	--	--	--	--	0.19 U	0.19 U	0.019 U	0.02 U	--	--	--	--	--	--
Heptachlor	ug/l	0.05	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	0.049 U	0.0047 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Heptachlor Epoxide	ug/l	0.05	0.0047 U	0.0048 U	0.0052 U	0.0051 U	0.05 U	0.05 U	0.05 U	0.05 U	0.047 U	**0.091 J**	**0.044 NJ**	**0.044 NJ**	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Methoxychlor*	ug/l	80	0.0094 U	0.0095 U	0.01 U	0.01 U	--	--	--	--	0.094 U	**0.12 J**	0.0095 U	0.0098 U	--	--	--	--	--	--
Toxaphene	ug/l	1	0.047 U	0.048 U	0.052 U	0.051 U	1 U	1 U	1 U	1 U	0.47 U	0.49 U	0.047 U	0.049 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Herbicides by SW8151A																				
2,4,5-T*	ug/l	--	0.023 U	**0.054 J**	0.022 U	0.024 U	--	--	--	--	**1.6 J**	**2.3 J**	0.023 U	0.023 U	--	--	--	--	--	--
2,4-D*	ug/l	160	0.029 U	0.072 U	0.022 U	0.023 U	--	--	--	--	**18 J**	**18 J**	**12**	**14**	--	--	--	--	--	--
2,4-DB*	ug/l	130	0.045 U	0.045 U	0.045 U	0.047 U	--	--	--	--	**5.7 J**	0.046 U	**56 NJ**	**1.8 NJ**	--	--	--	--	--	--
Bentazon*	ug/l	480	--	--	--	--	**141 J**	**160 J**	**640 J**	**520 J**	--	--	--	--	**2 J**	**2 J**	**2 J**	**2 J**	**5.3 J**	**5.4 J**
Chloramben*	ug/l	--	--	--	--	--	**1 J**	**1 J**	**1.2 J**	**1.3 J**	--	--	--	--	--	--	--	--	--	--
Chlorthal-dimethyl (DACTHAL)*	ug/l	160	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**18 J**	**18 J**
Dalapon (DPA)*	ug/l	--	0.22 U	0.22 U	0.22 U	0.23 U	--	--	--	--	0.22 U	0.22 U	0.22 U	0.23 U	--	--	--	--	--	--
Dicamba*	ug/l	480	0.022 UJ	0.023 UJ	0.022 U	0.023 U	**3 J**	**3 J**	**10.5 J**	**9.8 J**	**4.2 J**	**4.3 J**	**2.8**	**2.2**	**4 J**	**4 J**	**3 J**	**2 J**	**1.1 J**	**1.2 J**
Dichlorprop*	ug/l	--	0.022 U	0.023 U	0.022 U	0.024 U	--	--	--	--	**0.29**	**2.6 J**	0.022 U	0.023 U	--	--	--	--	--	--
Dinoseb	ug/l	7	0.022 U	0.023 U	**0.16 NJ**	0.024 U	**5**	**5**	**8.5**	**8.2**	**4.3**	**4.2 J**	**1.8**	**2.3 J**	**9**	**10.7**	**11.5**	**10.8 J**	**8.8**	**9.3**
MCPA	ug/l	8	4.4 U	4.5 U	4.4 U	4.7 U	0.2 U	**0.23**	**3**	**3.5**	**110 J**	**99 J**	**55**	**53**	0.2 U	0.2 U	0.2 U	0.2 UJ	0.1 U	0.1 U
Mecoprop (MCPP)*	ug/l	--	4.4 U	4.5 U	4.4 U	4.7 U	--	--	--	--	4.4 U	**120 J**	**650 J**	**410**	--	--	--	--	--	--
Pentachlorophenol*	ug/l	1	0.009 U	0.0091 U	0.009 U	0.0095 U	--	--	--	--	**0.21 J**	**0.17 J**	**0.28 NJ**	**0.29 NJ**	--	--	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)*	ug/l	50	0.023 U	0.023 U	0.022 U	**0.086**	--	--	--	--	**0.15**	**0.11 J**	**0.052**	**0.052**	**3 J**	**3 J**	**4 J**	**3 J**	**0.5 J**	**0.8 J**
Triclopyr (Garlon)*	ug/l	--	--	--	--	--	--	--	**3.7 J**	**3.7 J**	--	--	--	--	--	--	--	--	**1.3 J**	**1.4 J**

		Sample ID:	GEI-MW-7_100610F	GEI-MW-7_100610	GEI-MW-7_100916	GEI-MW-7_100916	GEI-MW-8	GEI-MW-8	GEI-MW-8_100311F	GEI-MW-8_100311	GEI-MW-8_100610F	GEI-MW-8_100610	FD-100610	GEI-MW-8_100916	GEI-MW-8_100916	FD-100916
		Location ID:	(FILTERED) GEI-MW7	(UNFILTERED) GEI-MW7	(FILTERED) GEI-MW7	(UNFILTERED) GEI-MW7	(FILTERED) GEI-MW8	(UNFILTERED) GEI-MW8	(FILTERED) GEI-MW8	(UNFILTERED) GEI-MW8	(FILTERED) GEI-MW8	(UNFILTERED) GEI-MW8	(UNFILTERED) GEI-MW8	(FILTERED) GEI-MW8	(UNFILTERED) GEI-MW8	(UNFILTERED) GEI-MW8
		Date/Time Sampled:	6/11/2010	6/11/2010	9/16/10	9/16/10	12/2/2009	12/2/2009	3/11/2010	3/11/2010	6/10/2010	6/10/2010	6/10/2010	9/16/10	9/16/10	9/16/10
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**														
Aldrin	ug/l	0.05	0.048 U	0.048 U	0.005 U	0.0049 U	**0.05 R**	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	**0.055 NJ**	**0.027 NJ**	**0.021 NJ**
Alpha-BHC*	ug/l	--	0.048 U	0.048 U	**0.072 J**	**0.04 J**	--	--	--	--	0.048 U	0.048 U	0.048 U	0.0049 U	**0.018 NJ**	**0.019 J**
Beta-BHC*	ug/l	--	**0.077**	**1.2 J**	**0.021 NJ**	**0.012 NJ**	--	--	--	--	**0.17**	**0.22 J**	**0.58 J**	**0.082 J**	**0.1 J**	**0.096 J**
Lindane (Gamma-BHC)*	ug/l	0.20	0.048 U	0.048 U	0.005 U	**0.076 NJ**	0.05 U	0.05 U	--	--	0.048 U	0.048 U	0.048 U	**0.069 NJ**	**0.026 J**	**0.038 J**
Delta-BHC*	ug/l	--	0.048 U	**0.24 J**	**0.078 J**	**0.081**	--	--	--	--	0.048 U	**0.79 J**	**1.5 J**	**0.022 NJ**	0.005 U	0.005 U
alpha-Chlordane (cis)	ug/l	--	0.048 U	**0.089**	**0.14 NJ**	0.0049 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	**0.59 J**	**0.15 J**	**0.39 J**	**0.062 NJ**	0.005 U	0.005 U
beta or gamma-Chlordane (trans)	ug/l	--	0.048 U	**0.05 J**	**0.0099 NJ**	**0.098 J**	0.05 UJ	0.05 U	0.05 U	0.05 UJ	**0.048**	0.048 U	0.048 U	**0.0099 NJ**	0.005 U	0.005 U
Chlordane (Total)	ug/l	2.0	0.048 UT	**0.14 JT**	**0.15 NJT**	**0.10 JT**	0.05 UJT	0.05 UT	0.05 UT	0.05 UJT	**0.61 JT**	**0.17 JT**	**0.41 JT**	**0.072 NJT**	0.005 UT	0.005 UT
4,4'-DDT	ug/l	0.26	0.048 U	0.048 U	**0.018 NJ**	**0.033 NJ**	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	0.0049 U	0.005 U	0.005 U
4,4'-DDE	ug/l	0.26	0.048 U	0.048 U	0.005 U	**0.023**	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	0.0049 U	0.005 U	0.005 U
4,4'-DDD	ug/l	0.36	0.048 U	0.048 U	0.005 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	**0.047 NJ**	0.005 UJ	**0.054 NJ**
Total DDT (4,4 isomers)	ug/l	--	0.048 UT	0.048 UT	**0.023 NJT**	**0.058 NJT**	0.05 UJT	0.05 UT	0.05 UT	0.05 UJT	0.048 UT	0.048 UT	0.048 UT	**0.052 NJT**	0.005 UJT	**0.059 NJT**
Dieldrin	ug/l	0.05	0.048 U	0.048 U	0.005 U	0.0049 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	**0.023**	**0.047**	**0.039**
Endosulfan I	ug/l	--	0.048 U	**1.1 J**	**0.041 NJ**	**0.14**	**0.49**	**1.9**	**0.42**	**1.7 J**	**0.28 J**	**0.85 J**	**1.7 J**	**0.16**	**0.13 J**	**1 J**
Endosulfan II	ug/l	--	0.048 U	**0.5 J**	**0.05**	**0.16**	**0.33**	**1**	**0.31 J**	**0.98 J**	**0.048 U**	**0.53 J**	**0.98 J**	**0.13**	**0.14**	**0.13**
Endosulfan Sulfate	ug/l	--	**0.065 J**	**1.3 J**	**0.048 NJ**	**0.17**	**0.12**	**0.4**	**0.19**	**0.38 J**	**0.2 J**	**0.19 J**	**0.39 J**	**0.094 J**	**0.16**	**0.17**
Endosulfan (Total)	ug/l	96	**0.11 JT**	**2.9 JT**	**0.14 NJT**	**0.47 T**	**0.94 T**	**3.3 T**	**0.92 JT**	**3.1 JT**	**0.50 JT**	**1.6 JT**	**3.1 JT**	**0.38 JT**	**0.43 T**	**1.3 T**
Endrin*	ug/l	--	0.048 U	0.048 U	**0.031 NJ**	**0.044 NJ**	--	--	--	--	0.048 U	0.048 U	0.048 U	0.0049 U	**0.02 NJ**	**0.023 NJ**
Endrin Aldehyde*	ug/l	--	**0.058**	**0.088**	**0.048**	**0.087**	--	--	--	--	**0.12**	0.048 UJ	**0.22 J**	0.0049 U	0.005 U	0.005 U
Endrin Ketone*	ug/l	--	0.19 U	0.19 U	0.02 U	0.02 U	--	--	--	--	0.19 U	0.19 U	0.19 U	0.019 U	0.02 U	0.02 U
Heptachlor	ug/l	0.05	0.048 U	0.048 U	**0.023**	**0.066 NJ**	0.05 U	0.05 U	0.05 U	0.05 UJ	0.048 U	0.048 U	0.048 U	**0.021**	0.005 UJ	**0.035 J**
Heptachlor Epoxide	ug/l	0.05	**0.4 J**	**0.53 J**	0.005 U	**0.05 J**	0.05 U	0.05 U	0.05 U	0.05 UJ	**0.22 J**	**1.4 J**	**0.31 J**	**0.095 J**	0.005 U	0.005 U
Methoxychlor*	ug/l	80	**0.2 J**	**0.39 J**	0.01 U	0.0099 U	--	--	--	--	**0.16 J**	0.095 UJ	**0.25 J**	0.0097 U	0.0099 U	0.01 U
Toxaphene	ug/l	1	0.48 U	0.48 U	0.05 U	0.049 U	1 U	1 U	1 U	1 UJ	0.48 U	0.48 U	0.48 U	0.049 U	0.05 U	0.05 U
Herbicides by SW8151A																
2,4,5-T*	ug/l	--	**0.65 J**	**3.1 J**	0.022 U	**2.1 NJ**	--	--	--	--	**0.37 J**	0.023 UJ	**0.66 J**	**1.5 NJ**	**0.26 J**	**0.16 J**
2,4-D*	ug/l	160	**18 J**	**3 J**	**46**	**29**	--	--	**2.2 J**	**3.6 J**	**340**	**110 J**	**440 J**	**50**	**69**	**83**
2,4-DB*	ug/l	130	**0.6 J**	**0.87 J**	**0.16 NJ**	0.045 U	--	--	--	--	**5.6 J**	**1.3 J**	**85 J**	0.047 U	**0.73 NJ**	0.048 UJ
Bentazon*	ug/l	480	--	--	--	--	**39 J**	**41 J**	**40 J**	**63 J**	--	--	--	--	--	--
Chloramben*	ug/l	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorthal-dimethyl (DACTHAL)*	ug/l	160	--	--	--	--	--	--	**2.8 J**	**3 J**	--	--	--	--	--	--
Dalapon (DPA)*	ug/l	--	0.22 U	0.22 U	0.22 U	0.22 U	--	--	--	--	0.22 U	**0.22 U**	0.22 U	0.23 U	0.23 U	0.23 U
Dicamba*	ug/l	480	**0.56 J**	**2 J**	**0.19**	**0.21**	**17 J**	**16 J**	**14 J**	**15 J**	**16 J**	**3.1 J**	**15 J**	**4.2**	**6.4**	**4.7**
Dichlorprop*	ug/l	--	**0.29 J**	0.023 U	0.022 U	0.023 U	--	--	--	--	**0.66 J**	**0.38 J**	**0.95 J**	0.024 U	**0.9 NJ**	0.024 UJ
Dinoseb	ug/l	7	**1.2**	**4.4**	**1.8**	**3.6**	**244**	**270**	**358**	**431**	**440**	**240 J**	**830 J**	**76**	**180**	**150**
MCPA	ug/l	8	**87 J**	4.5 U	4.4 U	4.5 U	**1**	0.2 U	**3.6**	**4.2**	**320**	**130 J**	**360 J**	**210**	**160**	**130**
Mecoprop (MCPP)*	ug/l	--	**350 J**	**390 J**	**2300 J**	**2900 J**	--	--	--	--	**1900 J**	**2000 J**	**8200 J**	4.7 U	**1200 J**	**45 J**
Pentachlorophenol*	ug/l	1	0.009 U	**0.073 J**	0.009 U	0.0091 U	--	--	**0.4 J**	**0.7 J**	**0.13 J**	**0.25**	**0.27 J**	**0.13 J**	**0.43 J**	**0.11 J**
Silvex (Fenoprop or 2,4,5-TP)*	ug/l	50	**2**	**0.2**	**1.8**	**1.1**	**13 J**	**9 J**	**13 J**	**14 J**	**33**	**7.8 J**	**34 J**	**3.2**	**4.2**	**3.3**
Triclopyr (Garlon)*	ug/l	--	--	--	--	--	--	--	**1.6 J**	**1.9 J**	--	--	--	--	--	--

Notes:

-- = Not established.

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Estimated concentration.

UJ = Not detected above the associated value; the associated value is the estimated method reporting limit for the sample.

UT = Not detected above the associated value; the associated value is the total value calculated by GeoEngineers.

JT = Value calculated by GeoEngineers using one or more values that were independently qualified as estimated in the validation process.

NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" from a qualitative standpoint.

NJT = The derived sum was calculated by GeoEngineers from compounds that were "tentatively identified" by the laboratory.

R = Datum rejected based on quality control data review/validation.

T = Value calculated by GeoEngineers.

* = Non-project specific analyte detected in sample.

ug/l = micrograms per liter

bold = exceeds cleanup level

bold = detection

TABLE 7

REMEDIATION TECHNOLOGY SCREENING

(SHADED TECHNOLOGIES ARE RETAINED FOR FURTHER EVALUATION)

TAXIWAY F SITE

BURLINGTON, WASHINGTON

General Response Action	Remediation Technology	Process Option	Description	Effectiveness	Implementability	Relative Cost	Summary of Screening
No Action	No Action	None	No institutional or engineering controls or treatment.	Not effective for protecting human health and environment.	Implementable but not acceptable to the general public or government agencies.	None.	Not retained.
Institutional Controls/ Access Control	Institutional/ Engineering Controls	Environmental Covenants and Fencing/ Warning Signage	Implement environmental covenants to inform future owners of the presence of potentially hazardous substances at the Site and/or restrict certain activities and uses of the Site. Construct or maintain existing Site fencing and signage to control access by the general public and livestock, thereby reducing potential exposure to contaminants.	Not effective for protecting terrestrial wildlife. Effectiveness for protection of human health would depend on enforcement of, and compliance with, environmental covenants. Preventing access by livestock would protect livestock and prevent further distribution of contaminants.	Not completely implementable. Specific legal requirements and authority would need to be met. Installed fencing could be limited to basic wire fence which would be easily installed. No controls for terrestrial wildlife at the Site are identified.	Low capital.	Not effective for protecting terrestrial wildlife. Not retained.
Soil Containment	Capping	Surface Cap	Installation of surface cap over contaminated soil areas to reduce contaminant migration and to prevent exposure. Caps may include asphalt or concrete paving, synthetic membranes, soil, and buildings or structures.	Effective for preventing direct-contact exposure. Hard surface cap materials limit infiltration and potential leachate formation, but capping is less effective than source removal options for protection of groundwater. Installation of cap in drainage channel and wetland area would adversely affect topography and surface water drainage, resulting in a net loss of wetlands and modification of natural drainage function at the Site that would need to be mitigated through wetland restoration or creation.	Technically implementable. The selected capping technology must be consistent with the proposed future land use.	Moderate capital. Low O&M.	Applicable technology where contaminants pose low threat to groundwater. Retained.
Soil Removal and Disposal	Removal with Land Disposal	Excavation and Landfill	Excavation of contaminated soil using common excavation methods. Excavated soil would be disposed of at an off-site, permitted facility.	Effective for the full range of contaminants at the Site.	Technically implementable using common excavation and transport methods. Excavation in the drainage channel and wetland area would require use of limited-access equipment and low-impact methods. Impacted soil must be profiled for disposal, and pre-treatment may be required for some soil prior to disposal.	Moderate to high capital. Negligible O&M.	Applicable in all areas of the Site. Retained.
Soil Removal with Ex Situ Soil Treatment	Physical/Chemical Treatment	Stabilization	Contaminants are physically bound or enclosed within a stabilized mass using Portland cement or another pozzolanic material. This technology has been reliably demonstrated for contaminants such as heavy metals.	Not commonly used for organic contaminants. Effectiveness for full suite of Site contaminants is unknown. Pilot testing would be necessary to evaluate effectiveness for treating the specific pesticide and herbicide contaminants at the Site.	Technically implementable. However, most processes result in a significant increase in the volume of treated material. Not expected to be cost-effective for the low-level pesticide and herbicide concentrations at the Site.	Moderate capital. Low O&M. Moderate cost relative to other ex situ options.	Effectiveness unknown for the contaminants at the Site. Not retained.
	Biological Treatment	Biopiles	Excavated soils are mixed with soil amendments and placed on a treatment area that includes leachate collection systems and a form of aeration.	Effectiveness for some contaminants has been demonstrated. Effectiveness for full suite of Site contaminants is unknown. Pilot testing would be necessary to evaluate effectiveness for treating the specific pesticide and herbicide contaminants at the Site.	Difficult to implement. Treatment area may require complete enclosure. Addition of amendments results in significant increase in treated material volume and disposal cost. Leachate and off-gas treatment may be required. Not expected to be cost-effective for the low-level pesticide and herbicide concentrations at the Site.	Moderate capital and O&M. Moderate cost relative to other ex situ options.	Effectiveness is not known for the Site conditions, and difficult to implement. Not retained.
In Situ Soil Treatment	Natural Attenuation	Natural Attenuation	Natural processes such as volatilization, biodegradation, adsorption, and chemical reactions with soil materials can reduce contaminant concentrations to acceptable levels over time.	Not effective for reducing Site-related risks within a short time frame, as natural degradation of pesticides and herbicides is typically a slow process. Restoration time frame is currently unknown.	Technically implementable. Monitoring is required to ensure attenuation is occurring at acceptable rates; restoration time frame is uncertain. Institutional controls would be required during treatment period.	Negligible capital. Low O&M. Low cost relative to other in situ options.	Slow-degrading contaminants at the Site would potentially require a long restoration time frame relative to other technologies. Not retained.
	Biological Treatment	Reductive Bioremediation	Innovative in situ bioremediation technologies have been developed for treatment of generally recalcitrant organics, including the pesticide/herbicide contaminants at the Site. In situ bioremediation of the contaminated surface soil at the Site would involve mixing a bioremediation product (solid or liquid) directly into the soil, generally by common tilling methods.	Effectiveness has been demonstrated at similar-type sites where surface soil is impacted with pesticides; however, applicability to Site is currently unknown. Effectiveness at treating the specific contaminants found at the Site would require pilot testing prior to full-scale application. Low ecological-risk based cleanup levels may not be achieveable through in situ methods.	Technically implementable. May be implemented with standard construction equipment, but would require clearing of small vegetation and ground covers.	Moderate capital. Low O&M.	Innovative technology with uncertain effectiveness for specific Site contaminants. Not retained.

TABLE 8

CLEANUP ACTION ALTERNATIVES SUMMARY

TAXIWAY F SITE

BURLINGTON, WASHINGTON

	Alternative 1 - Excavate Historical Operations Area, Drainage Channel, and Wetland Area	**Alternative 2 - Cap Historical Operations Area; Excavate Drainage Channel and Wetland Area**	**Alternative 3 - Cap Historical Operations Area and Drainage Channel; Excavate Wetland Area**	**Alternative 4 - Cap Historical Operations Area, Drainage Channel, and Wetland Area**
Alternative Description	Complete soil excavation/removal. Soil exceeding cleanup levels in all areas of the Site would be excavated and disposed of at an off-site, permitted landfill. Excavated areas would be backfilled and restored/revegetated.	Cap the historical operations area, excavate the drainage channel and wetland area. Soil exceeding cleanup levels in the historical operations area would be capped in place. Soil exceeding cleanup levels in the drainage channel and wetland area would be excavated and disposed of at an off-site, permitted landfill. Excavated areas would be backfilled and restored/revegetated.	Cap the historical operations area drainage channel, excavate the wetland area. Soil exceeding cleanup levels in the historical operations area and drainage channel would be capped in place. Soil exceeding cleanup levels in the wetland area would be excavated and disposed of at an off-site, permitted landfill. Excavated areas would be backfilled and restored/revegetated. Wetlands mitigation would be required to address net loss of wetlands in drainage channel.	Cap the historical operations area, drainage channel, and wetland area. Soil exceeding cleanup levels in all areas of the Site would be capped in place. Wetlands mitigation would be required to address net loss of wetlands in drainage channel and wetland area.
Area of Containment/Capping	0 sq. ft.	60,331 sq. ft.	71,970 sq. ft.	94,827 sq. ft.
Approximate In Situ Volume of Contaminated Soil Removed	2,654 cubic yards	1,533 cubic yards	1,016 cubic yards	0 cubic yards
Alternative Ranking Under MTCA				
1. Compliance with MTCA Threshold Criteria				
Protection of Human Health and the Environment	Yes - Alternative will protect human health and the environment. Residual contaminated soil left in place, if any, would be managed using institutional controls.	Yes - Alternative will protect human health and the environment. Contaminated soil left in place would be managed using a combination of isolation/containment and institutional controls.	Yes - Alternative will protect human health and the environment. Contaminated soil left in place would be managed using a combination of isolation/containment and institutional controls. Capping results in net loss of wetlands and modification of natural drainage function at the Site.	Yes - Alternative will protect human health and the environment. Contaminated soil left in place would be managed using a combination of isolation/containment and institutional controls. Capping results in net loss of wetlands and modification of natural drainage function at the Site.
Compliance with Cleanup Standards	Yes - Active remedial measure (removal) is used for soils not complying with cleanup standards.	Yes - Active remedial measures (removal and containment) are used for soils not complying with cleanup standards.	Yes - Active remedial measures (removal and containment) are used for soils not complying with cleanup standards.	Yes - Active remedial measure (containment) is used for soils not complying with cleanup standards.
Compliance with Applicable State and Federal Laws	Yes - Alternative complies with applicable state and federal laws.	Yes - Alternative complies with applicable state and federal laws.	Yes - Alternative complies with applicable state and federal laws.	Yes - Alternative complies with applicable state and federal laws.
Provision for Compliance Monitoring	Yes - Alternative includes provisions for compliance monitoring (i.e., verification sampling during remedial excavation, confirmational groundwater monitoring).	Yes - Alternative includes provisions for compliance monitoring (i.e., verification sampling during remedial excavation, confirmational groundwater monitoring).	Yes - Alternative includes provisions for compliance monitoring (i.e., verification sampling during remedial excavation, confirmational groundwater monitoring).	Yes - Alternative includes provisions for compliance monitoring (i.e., confirmational groundwater monitoring).
2. Restoration Time Frame				
	Restoration time frame is approximately 1 year for design and construction. Post-construction groundwater monitoring would likely be required for at least four quarters.	Restoration time frame is approximately 1 year for design and construction. Cap monitoring would likely be required, and groundwater monitoring would also likely be required for at least several years. The cap remedy would be subject to periodic review by Ecology to ensure protectiveness.	Restoration time frame is approximately 1 year for design and construction. Cap monitoring would likely be required, and groundwater monitoring would also likely be required for at least several years. The cap remedy would be subject to periodic review by Ecology to ensure protectiveness.	Restoration time frame is approximately 1 year for design and construction. Cap monitoring would likely be required, and groundwater monitoring would also likely be required for at least several years. The cap remedy would be subject to periodic review by Ecology to ensure protectiveness.
3. Disproportionate Cost Analysis - Relative Benefits Ranking (Scored from 1-lowest to 10-highest)				
Protectiveness (30% weighting factor)	**Score = 10.** Achieves high level of protectiveness. All soil at the Site that poses unacceptable risk to human health and the environment is removed. Thin zone of shallow groundwater is perched, with no nearby drinking water wells or receiving surface water bodies. Groundwater quality expected to improve over time as a result of source removal. Deep groundwater is isolated from shallow groundwater by a thick silt-clay confining layer.	**Score = 7.** Achieves medium-high level of protectiveness. Soil at the Site that poses unacceptable risk to human health and the environment is removed or contained beneath caps. The areas of contaminated soil that are most likely to pose exposure risks to ecological receptors such as small mammals and birds (the drainage channel and wetland area) will be excavated under this alternative. Low potential for direct contact with contaminated soil left in place. Thin zone of shallow groundwater is perched, with no nearby drinking water wells or receiving surface water bodies, but may continue to be impacted by capped contamination. Deep groundwater is isolated from capped soil and shallow groundwater by a thick silt-clay confining layer. Protectiveness depends on cap maintenance and environmental covenants to prevent erosion and contact with contaminated soil left in place.	**Score = 6.** Achieves medium level of protectiveness. Soil at the Site that poses unacceptable risk to human health and the environment is removed or contained beneath caps. Low potential for direct contact with contaminated soil left in place. Thin zone of shallow groundwater is perched, with no nearby drinking water wells or receiving surface water bodies, but may continue to be impacted by capped contamination. Deep groundwater is isolated from capped soil and shallow groundwater by a thick silt-clay confining layer. Installation of cap in drainage channel will impact/modify surface water flow and result in net loss of wetlands and modification of natural drainage function. Protectiveness depends on cap maintenance and environmental covenants to prevent erosion and contact with contaminated soil left in place.	**Score = 5.** Achieves medium level of protectiveness. Soil at the Site that poses unacceptable risk to human health and the environment is contained beneath caps. Low potential for direct contact with contaminated soil left in place. Thin zone of shallow groundwater is perched, with no nearby drinking water wells or receiving surface water bodies, but may continue to be impacted by capped contamination. Deep groundwater is isolated from capped soil and shallow groundwater by a thick silt-clay confining layer. Installation of cap in drainage channel and wetland area will impact/modify surface water flow and result in net loss of wetlands and modification of natural drainage function. Protectiveness depends on cap maintenance and environmental covenants to prevent erosion and contact with contaminated soil left in place.
Permanence (20% weighting factor)	**Score = 9.** Achieves permanent reduction in toxicity and volume of hazardous substances at the Site by removal and off-site treatment/disposal of all the contaminated soil. Contaminant mass is transferred to secure, permitted landfill rather than destroyed.	**Score = 6.** Achieves a significant level of permanent reduction in toxicity and volume of hazardous substances at the Site by removal and off-site treatment/disposal of about 60% of the contaminated soil. Remaining contaminated soil is isolated/contained within the historical operations area. Not as permanent as Alternative 1 due to cap.	**Score = 5.** Achieves permanent reduction in toxicity and volume of hazardous substances at the Site by removal and off-site treatment/disposal of about 50% of the contaminated soil. Remaining contaminated soil is isolated/contained. Scores lower than Alternative 2 due to larger soil volume left in place under cap.	**Score = 3.** Achieves no permanent reduction in volume of hazardous substances at the Site, but reduces the toxicity and mobility through containment of the contaminated soil under a cap. Not as permanent as the other alternatives.

	Alternative 1 - Excavate Historical Operations Area, Drainage Channel, and Wetland Area	Alternative 2 - Cap Historical Operations Area; Excavate Drainage Channel and Wetland Area	Alternative 3 - Cap Historical Operations Area and Drainage Channel; Excavate Wetland Area	Alternative 4 - Cap Historical Operations Area, Drainage Channel, and Wetland Area
Long-Term Effectiveness (20% weighting factor)	**Score = 9.** Relies on removal and off-site treatment/disposal of contaminated soil.	**Score = 7.** Relies on a combination of on-site containment and removal and off-site treatment/disposal of contaminated soil. Contaminated soil left in place is limited to the historical operations area, allowing easier monitoring and control of conditions that may affect cap performance. Environmental covenants would be implemented to minimize potential contact with contaminated soil left in place. Long-term effectiveness depends on adherance to the environmental covenants and on maintaining integrity of the cap and groundwater protectiveness.	**Score = 6.** Relies on a combination of on-site containment and removal and off-site treatment/disposal of contaminated soil. Environmental covenants would be implemented to minimize potential contact with contaminated soil left in place. Long-term effectiveness depends on adherance to the environmental covenants and on maintaining integrity of the cap and groundwater protectiveness.	**Score = 4.** Relies entirely on on-site containment. Environmental covenants would be implemented to minimize potential contact with contaminated soil left in place. Long-term effectiveness depends on adherance to the environmental covenants and on maintaining integrity of the cap and groundwater protectiveness.
Management of Short-Term Risks (10% weighting factor)	**Score = 5.** Greatest disturbance and off-site transport of contaminated soil relative to other alternatives. Excavation in the drainage channel and wetland area would result in significant vegetation removal, but removal of mature trees would not be required.	**Score = 6.** Relatively low short-term risks. Excavation in the drainage channel and wetland area would result in significant vegetation removal, but removal of mature trees would not be required.	**Score = 6.** Similar short-term risks to Alternative 2. Excavation of the drainage channel under Alternative 2 is replaced with capping, which would have marginally less impacts in the short term. Capping of the drainage channel and excavation in the wetland area would result in significant vegetation removal, but removal of mature trees would not be required. Capping of the drainage channel would require diversion of surface water and result in a net loss of wetlands.	**Score = 5.** Least disturbance of contaminated soil relative to other alternatives. Capping of the drainage channel and wetland area would result in significant vegetation removal, but removal of mature trees would not be required. The capping under this alternative would require greater diversion of surface water and result in a greater net loss of wetlands than Alternative 3.
Technical and Administrative Implementability (10% weighting factor)	**Score = 7.** Would require permitting. Moderately difficult to access contamination in drainage channel and wetland area.	**Score = 7.** Would require permitting and administration of environmental covenant. Moderately difficult to access contamination in drainage channel and wetland area.	**Score = 6.** Would require permitting and administration of environmental covenant. Moderately difficult to access contamination in wetland area. Capping of the drainage channel would require wetland mitigation.	**Score = 5.** Would require permitting and administration of environmental covenant. Capping of the drainage channel and wetland area would require wetland mitigation.
Consideration of Public Concerns (10% weighting factor)	**Score = 9.** Removes all Site soil exceeding cleanup levels. The contaminated soil is transported off Site and isolated in a secure landfill.	**Score = 7.** Removes or isolates contaminated soil most likely to impact public (i.e., soil in historical operations area), but about 40 % of the contaminated soil would remain capped on Site after cleanup. Cap monitoring, maintenance, and environmental covenants would be required to prevent contact with the remaining contaminated soil.	**Score = 6.** Removes or isolates contaminated soil most likely to impact public (i.e., soil in historical operations area), but about 50 % of the contaminated soil would remain capped on Site after cleanup. Cap monitoring, maintenance, and environmental covenants would be required to prevent contact with the remaining contaminated soil. In addition, capping of the drainage channel would result in a net loss of wetlands at the Site.	**Score = 5.** Isolates contaminated soil most likely to impact public (i.e., soil in historical operations area), but 100% of the contaminated soil would remain capped on Site after cleanup. Cap monitoring, maintenance, and environmental covenants would be required to prevent contact with the remaining contaminated soil. In addition, capping of the drainage channel and wetland area would result in a net loss of wetlands at the Site.

TABLE 9

SUMMARY OF MTCA EVALUATION OF CLEANUP ACTION ALTERNATIVES

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Alternative Number	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Alternative Ranking Under MTCA				
1. Compliance with MTCA Threshold Criteria[1]	Yes	Yes	Yes	Yes
2. Restoration Time Frame	~1 year	~1 year	~1 year	~1 year
3. DCA MTCA Relative Benefits Ranking				
Protectiveness (30% weighting)	3.0 (raw score = 10)	2.1 (raw score = 7)	1.8 (raw score = 6)	1.5 (raw score = 5)
Permanence (20% weighting)	1.8 (raw score = 9)	1.2 (raw score = 6)	1.0 (raw score = 5)	0.6 (raw score = 3)
Long-Term Effectiveness (20% weighting)	1.8 (raw score = 9)	1.4 (raw score = 7)	1.2 (raw score = 6)	0.8 (raw score = 4)
Management of Short-Term Risks (10% weighting)	0.5 (raw score = 5)	0.6 (raw score = 6)	0.6 (raw score = 6)	0.5 (raw score = 5)
Technical and Administrative Implementability (10% weighting)	0.7 (raw score = 7)	0.7 (raw score = 7)	0.6 (raw score = 6)	0.5 (raw score = 5)
Consideration of Public Concerns (10% weighting)	0.9 (raw score = 9)	0.7 (raw score = 7)	0.6 (raw score = 6)	0.5 (raw score = 5)
Total of Weighted Scores	**8.7**	**6.7**	**5.8**	**4.4**
4. Disproportionate Cost Analysis (DCA)				
Probable Remedy Cost (nearest thousand)[3]	$1,540,000	$1,420,000	$1,360,000	$1,250,000
Costs Disproportionate to Incremental Benefits	No	No	No	NA[2]
Practicability of Remedy	Practicable	Practicable	Practicable	Practicable
Remedy Permanent to Maximum Extent Practicable	Yes	No	No	No
Overall Alternative Ranking	**1st**	**2nd**	**3rd**	**4th**

Notes:

[1] Non-compliant alternatives were not considered in this evaluation.

[2] Not applicable since this is the lowest cost alternative.

[3] Itemized cost estimates for Alternatives 1 through 4 are provided in Appendix J.

MTCA = Model Toxics Control Act

DCA = Disproportionate Cost Analysis

FIGURES

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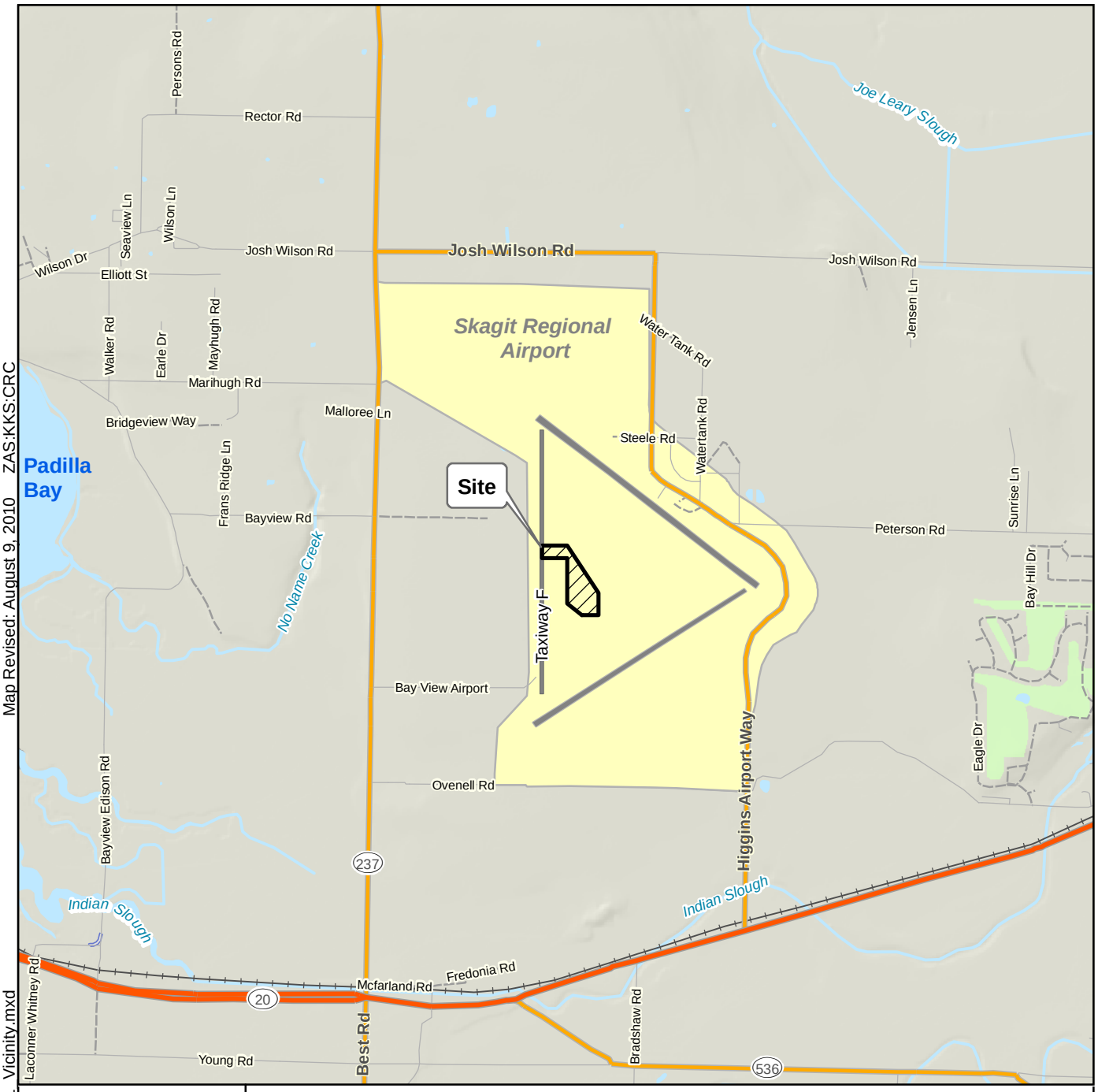

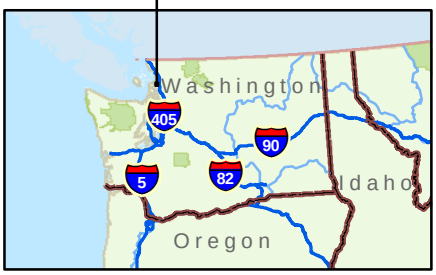

N
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3,000 0 3,000
Feet

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north

Vicinity Map

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 1

Office: SEA Path: P:\536401\GIS\536401302 FIG-1 Vicinity.mxd Map Revised: August 9, 2010 ZAS:KKS:CRC

Office: SEA Path: \\sea\projects\5\5364013\GIS\536401302_FIG-2.mxd Map Revised: August 11, 2010 TCK:KKS:CRC

Shallow Monitoring Well

Deep Monitoring Well

Water Supply Well

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

90 0 90
Feet

N W E S

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

Site Plan

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 2

Historical Sample Location

- Surface Water Sample
- Soil Sample
- Deep Well
- Shallow Groundwater Sample
- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N
W E
S

50 0 50
Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

Previous Sampling Locations - Historical Operations Area

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 3

Map Revised: August 9, 2010

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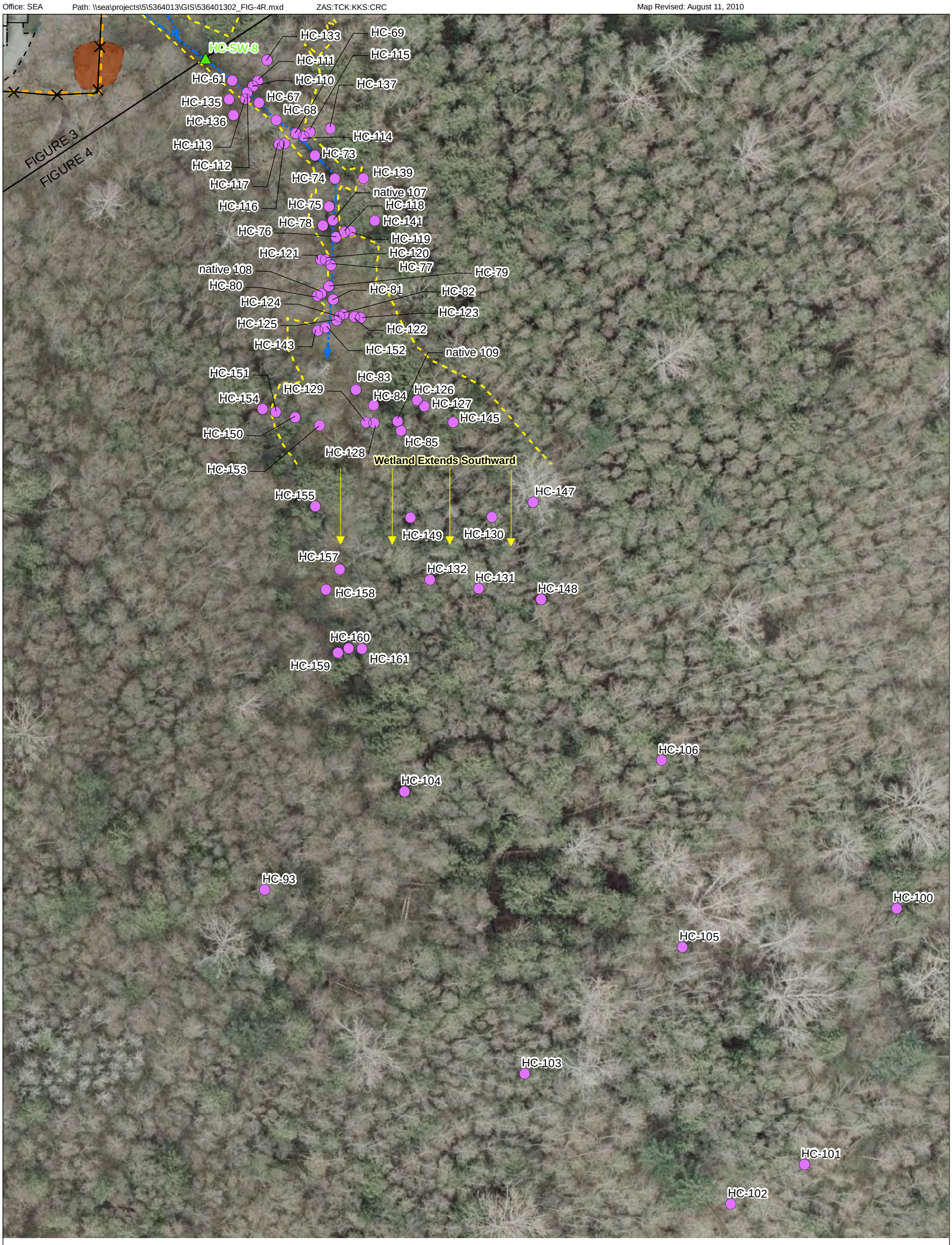
Office: SEA

Office: SEA Path: \\sea\projects\5\5364013\GIS\536401302_FIG-4R.mxd ZAS:TCK:KKS:CRC Map Revised: August 11, 2010



Historical Sample Location

Surface Water Sample

Soil Sample

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

80 0 80
Feet

N W E S

Previous Sampling Locations - Wetland Area

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 4

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

Office:SEA Path: \\sea\projects\5\5364013\GIS\536401302_FIG-5_SurveyedTree.mxd CRC Map Revised: August 10, 2010

Mature Cedar/Fir Tree

114.5 Topographic Contour (elevation in feet)

Debris Area

Historical Operations Area

Fence Line

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

50 0 50
Feet

N W E S

Wetland Area Topography and Surveyed Mature Conifer Trees

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 5

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water and debris area obtained from Hart Crowser (2008b).

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

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. COC = Constituent of concern.
2. Maximum concentrations for each sample location are shown.
3. Some non-detect wetland area sample locations to the south and east of the area depicted on the figure are not shown.
4. The locations of all features shown are approximate.
5. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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GEI-31
GEI-33
GEI-41
GEI-42
GEI-43
GEI-44
GEI-45
GEI-46
GEI-47

Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: August 12, 2010
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Office: SEA

Locations with no COC exceedances or endosulfan exceedances only - Historical Data
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown - Historical Data
- No Endosulfan Exceedance
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan =100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with no COC exceedances or endosulfan exceedances only - 2009 - 2010 Data (GEI)
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown - 2009 - 2010 Data (GEI)
- No Endosulfan Exceedance

(There were no 2009 - 2010 sampling locations that had exceedances of both endosulfan and other COCs.)

- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

50 0 50
Feet

Summary of Soil COC Concentrations - All Depths

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 6

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. COC = Constituent of concern.
2. Maximum concentrations for each sample location are shown.
3. Some non-detect wetland area sample locations to the south and east of the area depicted on the figure are not shown.
4. The locations of all features shown are approximate.
5. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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GEI-28
GEI-29
GEI-30
GEI-31
GEI-33
GEI-41
GEI-42
GEI-43
GEI-44
GEI-45
GEI-46
GEI-47

Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: August 13, 2010 RCL:ZAS:TCK:KKS:CRC

Path: \\sea\projects\515364013\GIS\536401302_FIG-7R.mxd

Office: SEA

Locations with no COC exceedances or endosulfan exceedances only (0 to 0.5 feet bgs) - Historical Data
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (0 to 0.5 feet bgs) - Historical Data
- No Endosulfan Exceedance
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan =100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with no COC exceedances or endosulfan exceedances only (0 to 0.5 feet bgs) - 2009 -2010 Data (GEI)
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (0 to 0.5 feet bgs) - 2009 - 2010 Data (GEI)
- No Endosulfan Exceedance

(There were no 2009 - 2010 sampling locations that had exceedances of both endosulfan and other COCs.)

- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

50 0 50
Feet

Summary of Soil COC Concentrations - 0 to 0.5 feet bgs

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 7

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. COC = Constituent of concern.
2. Maximum concentrations for each sample location are shown.
3. Some non-detect wetland area sample locations to the south and east of the area depicted on the figure are not shown.
4. The locations of all features shown are approximate.
5. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

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GEI-28
GEI-29
GEI-30
GEI-31
GEI-41
GEI-42
GEI-43
GEI-44
GEI-45
GEI-46
GEI-47

Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: August 13, 2010 RCL:ZAS:TCK:KKS:CRC

Path: \\sea\projects\515364013\GIS\515364013O2_FIG-8R.mxd

Office: SEA

Locations with no COC exceedances or endosulfan exceedances only (0.5 to 1 foot bgs) - Historical Data
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (0.5 to 1 foot bgs) - Historical Data
- No Endosulfan Exceedance
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan =100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with no COC exceedances or endosulfan exceedances only (0.5 to 1 foot bgs) - 2009 - 2010 Data (GEI)
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (0.5 to 1 foot bgs) - 2009 - 2010 Data (GEI)
- No Endosulfan Exceedance

(There were no 2009 -2010 sampling locations that had exceedances of both endosulfan and other COCs.)

- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

50 0 50
Feet

Summary of Soil COC Concentrations - 0.5 to 1 foot bgs

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 8

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. COC = Constituent of concern.
2. Maximum concentrations for each sample location are shown.
3. Some non-detect wetland area sample locations to the south and east of the area depicted on the figure are not shown.
4. The locations of all features shown are approximate.
5. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

GEI-1
GEI-2
GEI-3
GEI-4
GEI-5
GEI-6
GEI-7
GEI-8
GEI-9
GEI-10
GEI-11
GEI-12
GEI-13
GEI-14
GEI-15
GEI-16
GEI-17
GEI-18
GEI-19
GEI-20
GEI-21
GEI-22
GEI-23
GEI-24
GEI-25
GEI-26
GEI-27
GEI-28
GEI-29
GEI-30
GEI-31
GEI-33
GEI-41
GEI-42
GEI-43
GEI-44
GEI-45
GEI-46
GEI-47

Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: August 13, 2010
RCL:ZAS:TCK:KKS:CRC
Path: \\sea\projects\5\15364013\GIS\S36401302_FIG-9R.mxd
Office: SEA

Locations with no COC exceedances or endosulfan exceedances only (1 to 2 feet bgs) - Historical Data
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (1 to 2 feet bgs) - Historical Data
- No Endosulfan Exceedance
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan =100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with no COC exceedances or endosulfan exceedances only (1 to 2 feet bgs) - 2009 - 2010 Data (GEI)
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (1 to 2 feet bgs) - 2009 - 2010 Data (GEI)
- No Endosulfan Exceedance

(There were no 2009 -2010 sampling locations that had exceedances of both endosulfan and other COCs.)

- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

50 0 50
Feet

Summary of Soil COC Concentrations - 1 to 2 feet bgs

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 9

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. COC = Constituent of concern.
2. Maximum concentrations for each sample location are shown.
3. Some non-detect wetland area sample locations to the south and east of the area depicted on the figure are not shown.
4. The locations of all features shown are approximate.
5. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

GEI-1
GEI-2
GEI-3
GEI-4
GEI-5
GEI-6
GEI-7
GEI-8
GEI-9
GEI-10
GEI-11
GEI-12
GEI-13
GEI-14
GEI-15
GEI-16
GEI-17
GEI-18
GEI-19
GEI-20
GEI-21
GEI-22
GEI-23
GEI-24
GEI-25
GEI-26
GEI-27
GEI-28
GEI-29
GEI-30
GEI-31
GEI-33
GEI-41
GEI-42
GEI-43
GEI-44
GEI-45
GEI-46
GEI-47

Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: August 13, 2010 RCL:ZAS:TCK:KKS:CRC

Path: \\sea\projects\515364013\GIS\515364013021302_FIG-10R.mxd

Office: SEA

Locations with no COC exceedances or endosulfan exceedances only (>2 feet bgs) - Historical Data
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (>2 feet bgs) - Historical Data
- No Endosulfan Exceedance
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan =100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with no COC exceedances or endosulfan exceedances only (>2 feet bgs) - 2009 - 2010 Data (GEI)
- Sampling Location in a Different Depth Interval
- No COC Exceedances
- Endosulfan = >2.4 - 9.9 mg/kg
- Endosulfan = 10 - 99 mg/kg
- Endosulfan = 100 - 999 mg/kg
- Endosulfan = ≥1,000 mg/kg

Locations with other (non-endosulfan) COC exceedances, with endosulfan results shown (>2 feet bgs) - 2009 - 2010 Data (GEI)
- No Endosulfan Exceedance

(There were no 2009 - 2010 sampling locations that had exceedances of both endosulfan and other COCs.)

- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

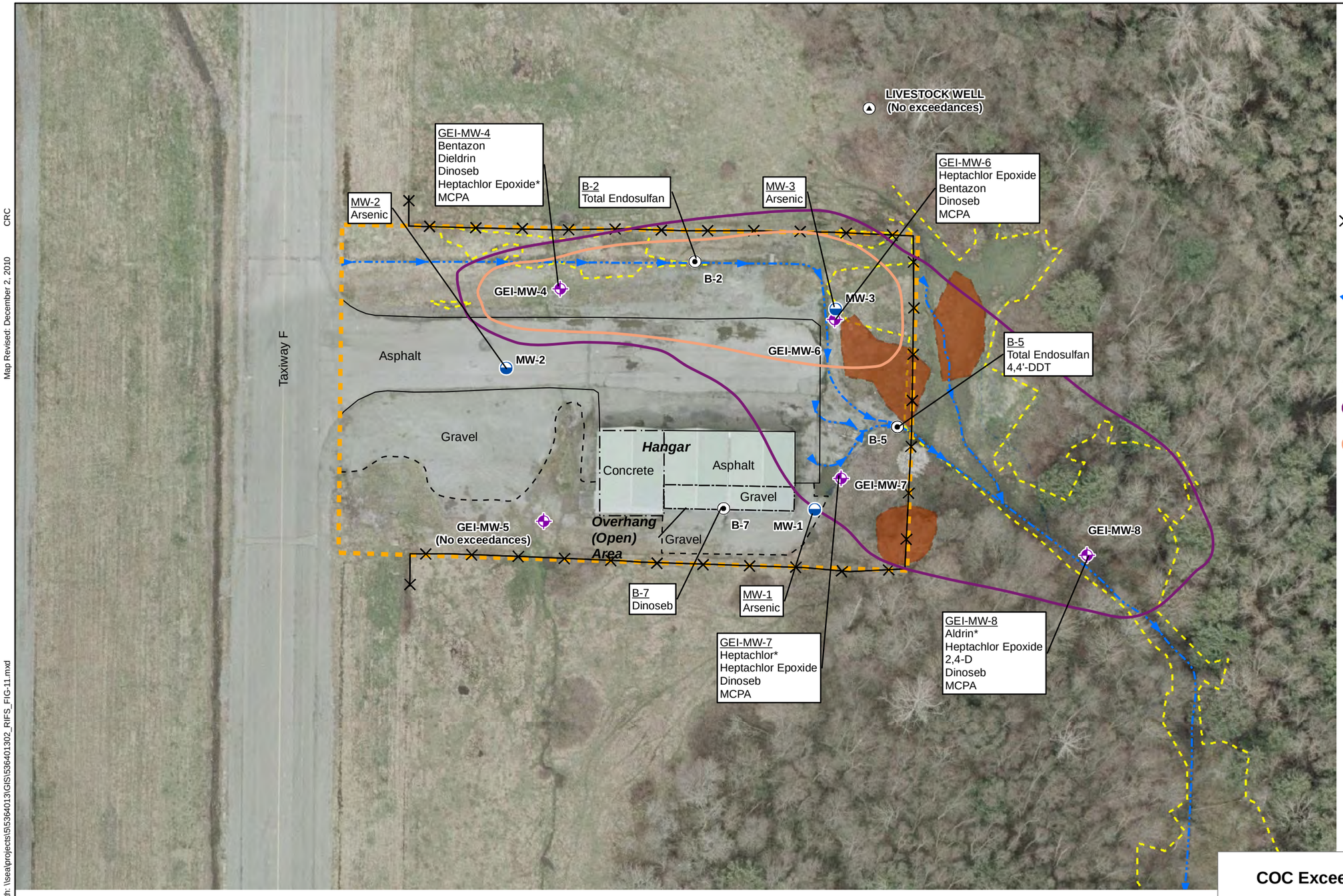
50 0 50
Feet

Summary of Soil COC Concentrations - >2 feet bgs

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 10



Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser, (2008b).

Notes:
1. COC = Constituent of concern.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
4. *Compound exceeded proposed cleanup level, but was only tentatively identified.

COC Exceedances in Groundwater

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 11

Map Revised: December 2, 2010 CRC

Path: \\sea\projects\5\5364013\GIS\536401302_RIFS_FIG-11.mxd

Office: SEA

Shallow Monitoring Well

Deep Monitoring Well

Water Supply Well

Groundwater Elevation Contours – Deep Aquifer (0.05 feet)

Approximate Groundwater Flow DIrection

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N

W E

S

70 0 70

Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. Deep aquifer wells used for contouring. Shallow wells not used for contouring due to perched nature of groundwater.
2. COC = Constituent of concern.
3. The locations of all features shown are approximate.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Groundwater Elevations
December 1, 2009

Taxiway F Site
Burlington, Washington

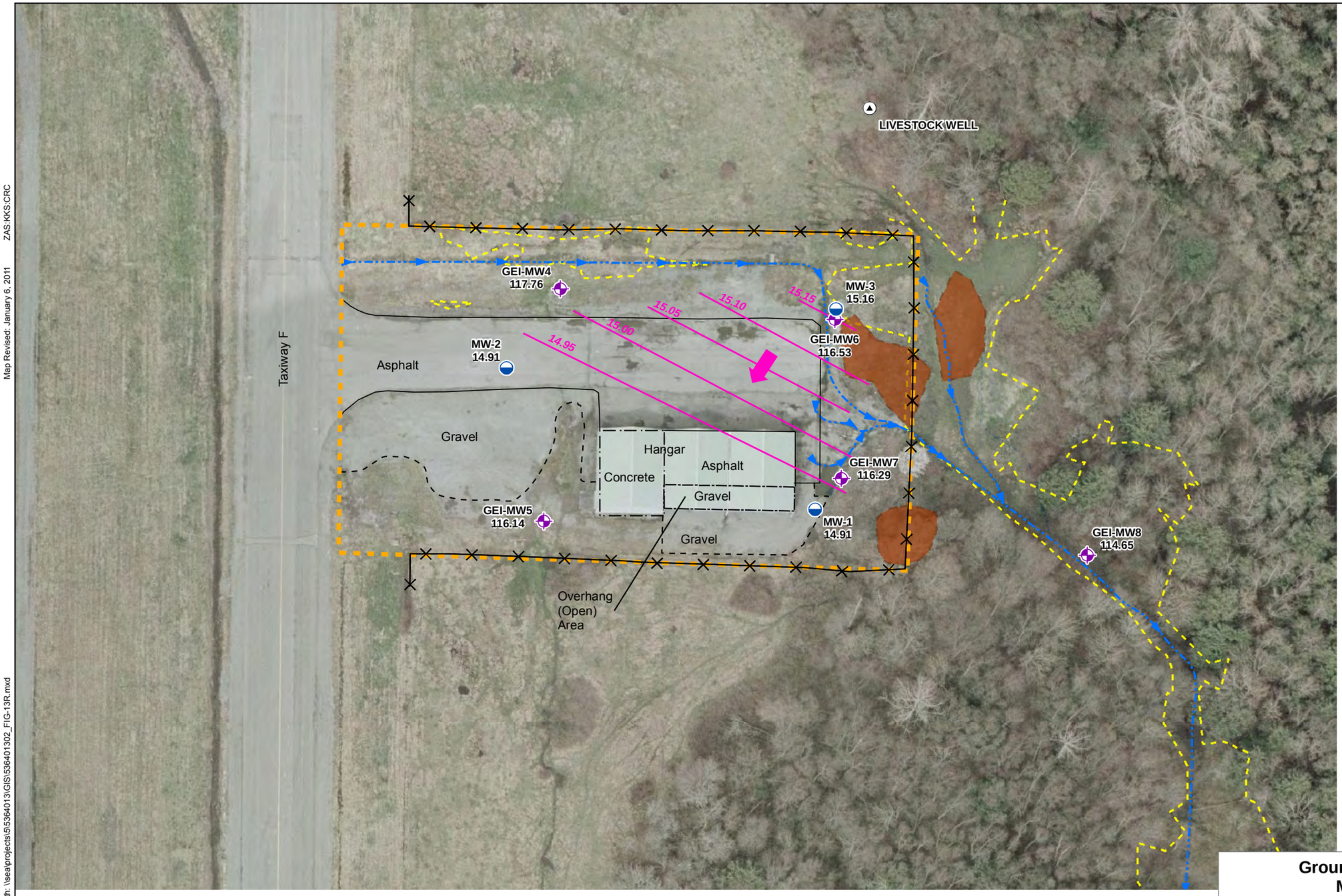
GeoEngineers

Figure 12

Map Revised: January 6, 2011 ZAS:TCK:KKS:CRC

Path: \\sea\projects\5\53640013\GIS\536401302_FIG-12R2.mxd

Office: SEA



Shallow Monitoring Well

Deep Monitoring Well

Water Supply Well

Groundwater Elevation Contours – Deep Aquifer (0.05 feet)

Approximate Groundwater Flow DIrection

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N
W E
S

70 0 70
Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. Deep aquifer wells used for contouring. Shallow wells not used for contouring due to perched nature of groundwater.
2. COC = Constituent of concern.
3. The locations of all features shown are approximate.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Groundwater Elevations
March 11, 2010

Taxiway F Site
Burlington, Washington

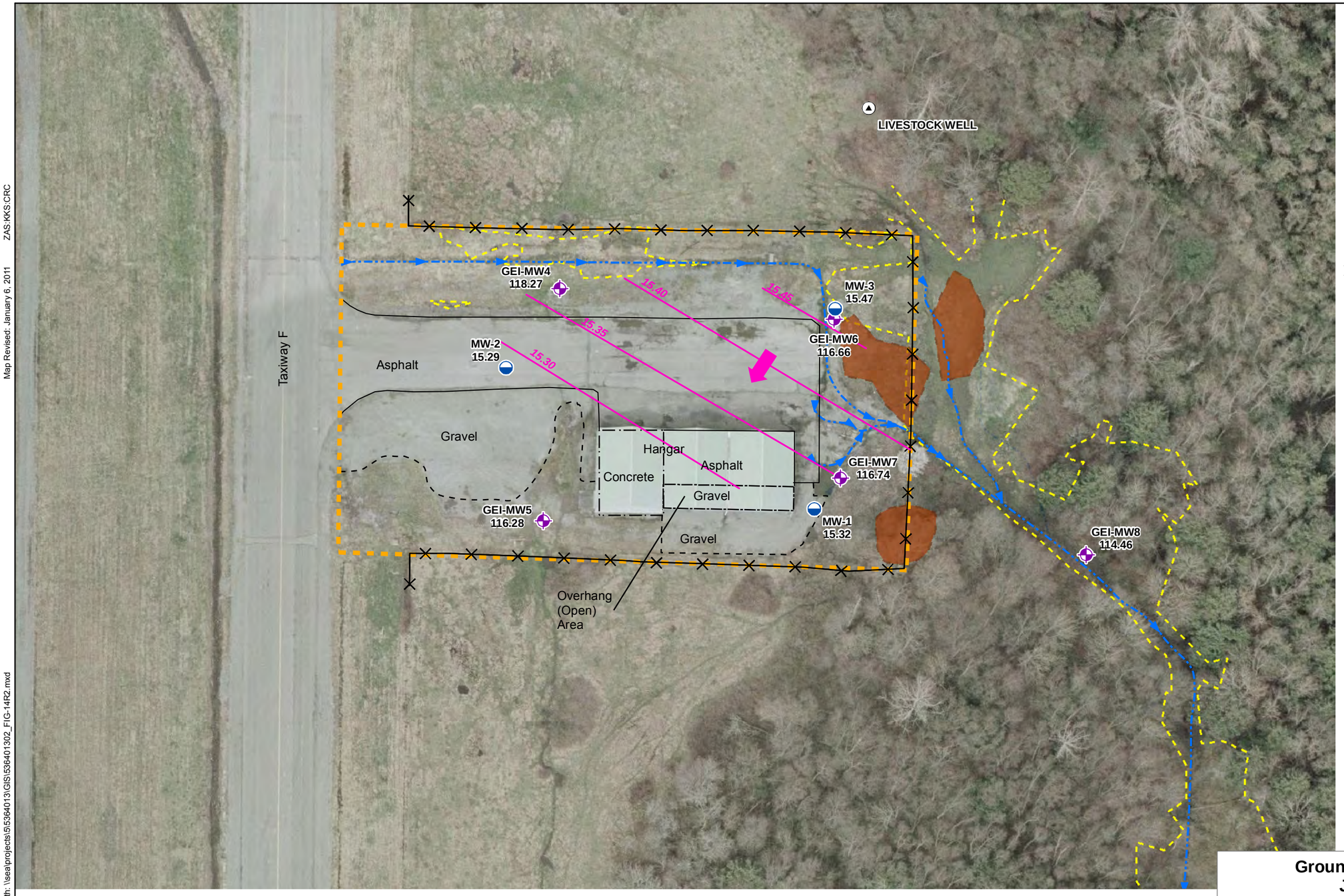
GeoEngineers

Figure 13

Map Revised: January 6, 2011 ZAS:KKS:CRC

Path: \\sea\projects\5\53640013\GIS\53640013_FIG-13R.mxd

Office: SEA



Shallow Monitoring Well

Deep Monitoring Well

Water Supply Well

Groundwater Elevation Contours – Deep Aquifer (0.05 feet)

Approximate Groundwater Flow DIrection

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N
W E
S

70 0 70
Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. Deep aquifer wells used for contouring. Shallow wells not used for contouring due to perched nature of groundwater.
2. COC = Constituent of concern.
3. The locations of all features shown are approximate.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Groundwater Elevations
June 10, 2010

Taxiway F Site
Burlington, Washington

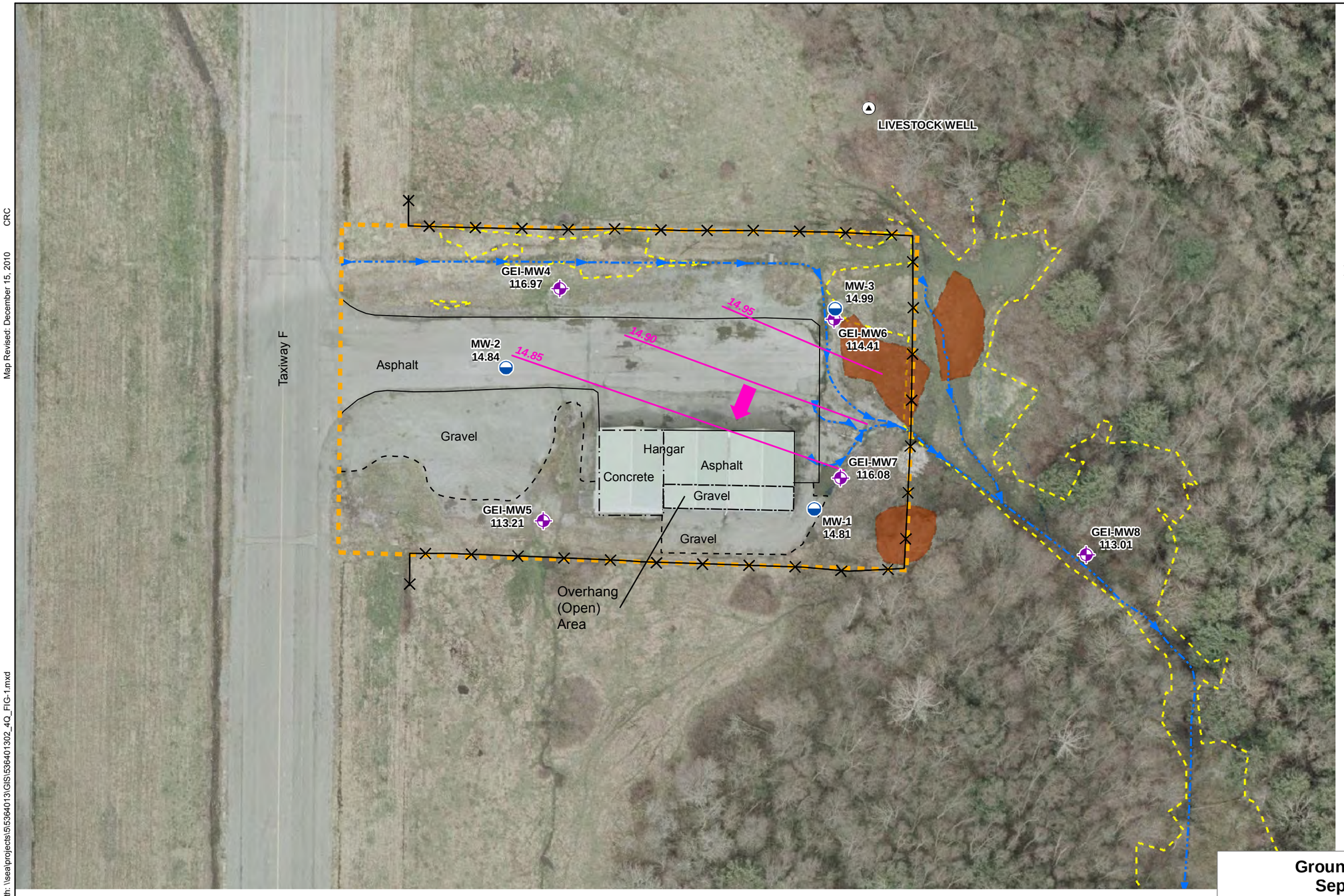
GeoEngineers

Figure 14

Map Revised: January 6, 2011 ZAS:KKS:CRC

Path: \\sea\projects\5\5364013\GIS\536401302_FIG-14R2.mxd

Office: SEA



Shallow Monitoring Well

Deep Monitoring Well

Water Supply Well

Groundwater Elevation Contours – Deep Aquifer (0.05 feet)

Approximate Groundwater Flow DIrection

Historical Operations Area

Fence Line

Debris Area

Approximate Rainwater Runoff Flow Direction

Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N
W E
S

70 0 70
Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

Notes:
1. Deep aquifer wells used for contouring. Shallow wells not used for contouring due to perched nature of groundwater.
2. COC = Constituent of concern.
3. The locations of all features shown are approximate.
4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Groundwater Elevations
September 16, 2010

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 15

Map Revised: December 15, 2010 CRC

Path: \\sea\projects\5\5364013\GIS\536401302_4Q_FIG-1.mxd

Office: SEA

Total Endosulfan Concentration in Rainwater Runoff Sample

- Not Detected
- ≤ 4.0 ug/L
- >4.0 ug/L
- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)

N W E S

70 0 70
Feet

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

Total Endosulfan Concentrations in Surface Water (Rainwater Runoff) Samples

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 16

Map Revised: December 2, 2010 :CRC
Path: \\sea\projects\5\5364013\GIS\536401302_RIFS_FIG-16.mxd
Office: SEA

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

GEI-MW4
GEI-MW5
GEI-MW6
GEI-MW7
GEI-MW8
Asphalt
Gravel
Hangar
Concrete
Asphalt
Gravel
Gravel
Overhang (Open) Area
Wetland Extends Southward

Map Revised: December 2, 2010 CRC

Path: \\sea\projects\5\5364013\GIS\5364013021302_RIFS_FIG-17.mxd

Office: SEA

Existing Data Summary

- No Soil Cleanup Level Exceedance (GEI 2009-2010)
- No Soil Cleanup Level Exceedance (Historical)
- Soil Cleanup Level Exceedance (GEI 2009-2010)
- Soil Cleanup Level Exceedance (Historical)
- Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- No Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- Approximate Area of Surface Soil Excavation
- Historical Operations Area
- Fence Line
- Debris Area
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Mature Cedar/Fir Tree
- 114.5 Topographic Contour (elevation in feet)

N W E S

50 0 50
Feet

Cleanup Action Alternative 1
(Excavate Historical Operations Area, Drainage Channel, and Wetland Area)

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 17

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

GEI-MW4
GEI-MW6
GEI-MW7
GEI-MW5
GEI-MW8
Asphalt
Gravel
Concrete
Asphalt
Gravel
Gravel
Hangar
Overhang (Open) Area
Wetland Extends Southward

Map Revised: December 2, 2010 CRC
Path: \\sea\projects\5\5364013\GIS\5364013021302_RIFS_FIG-18.mxd
Office: SEA

Existing Data Summary

- No Soil Cleanup Level Exceedance (GEI 2009-2010)
- No Soil Cleanup Level Exceedance (Historical)
- Soil Cleanup Level Exceedance (GEI 2009-2010)
- Soil Cleanup Level Exceedance (Historical)
- Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- No Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- Approximate Area of Surface Soil Excavation
- Approximate Area of Cap
- Historical Operations Area
- Fence Line
- Future Ditch Alignment (Proposed)
- Approximate Rainwater Runoff Flow Direction
- Debris Area
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Mature Cedar/Fir Tree
- 114.5 Topographic Contour (elevation in feet)

N W E S

50 0 50
Feet

Cleanup Action Alternative 2
(Cap Historical Operations Area, Excavate Drainage Channel and Wetland Area)

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 18

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

GEI-MW4
GEI-MW6
GEI-MW7
GEI-MW5
GEI-MW8
Asphalt
Gravel
Concrete
Hangar
Asphalt
Gravel
Overhang (Open) Area
Gravel
Wetland Extends Southward

Map Revised: December 2, 2010 CRC

Path: \\sea\projects\5\5364013\GIS\5364013021302_RIFS_FIG-19.mxd

Office: SEA

Existing Data Summary

- No Soil Cleanup Level Exceedance (GEI 2009-2010)
- No Soil Cleanup Level Exceedance (Historical)
- Soil Cleanup Level Exceedance (GEI 2009-2010)
- Soil Cleanup Level Exceedance (Historical)
- Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- No Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- Approximate Area of Surface Soil Excavation
- Approximate Area of Cap
- Historical Operations Area
- Fence Line
- Future Ditch Alignment (Proposed)
- Approximate Rainwater Runoff Flow Direction
- Debris Area
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Mature Cedar/Fir Tree
- 114.5 Topographic Contour (elevation in feet)

N W E S

50 0 50
Feet

Cleanup Action Alternative 3
(Cap Historical Operations Area and Drainage Channel, Excavate Wetland Area)

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 19

Reference: Aerial photo (dated 2004) from Skagit County. Historical Operations Area boundary, fence line, surface water, debris area and wetlands obtained from Hart Crowser (2008b).

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

GEI-MW4
GEI-MW6
GEI-MW7
GEI-MW5
GEI-MW8
Asphalt
Gravel
Concrete
Hangar
Asphalt
Gravel
Overhang (Open) Area
Gravel
Wetland Extends Southward

Map Revised: December 2, 2010 CRC

Path: \\sea\projects\5\536401\3\GIS\536401302_RIFS_FIG-20.mxd

Office: SEA

Existing Data Summary

- No Soil Cleanup Level Exceedance (GEI 2009-2010)
- No Soil Cleanup Level Exceedance (Historical)
- Soil Cleanup Level Exceedance (GEI 2009-2010)
- Soil Cleanup Level Exceedance (Historical)
- Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- No Groundwater Cleanup Level Exceedance in Shallow Groundwater (2009 - 2010 Data)
- Approximate Area of Cap
- Historical Operations Area
- Fence Line
- Debris Area
- Future Ditch Alignment (Proposed)
- Approximate Rainwater Runoff Flow Direction
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Mature Cedar/Fir Tree
- 114.5 Topographic Contour (elevation in feet)

N W E S

50 0 50
Feet

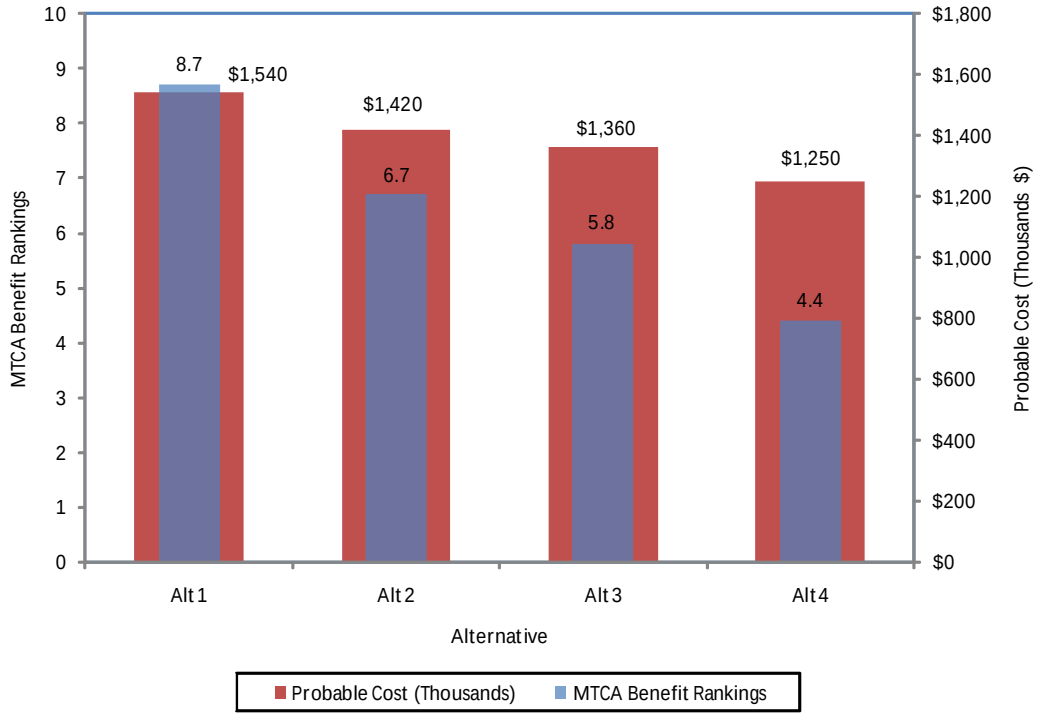
Cleanup Action Alternative 4 (Cap Historical Operations Area, Drainage Channel, and Wetland Area)

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 20

P:\5\536401\3\02\CAD\536401302 Fig 21.dwg\TAB:LANDSCAPE modified by tmichaud on Nov 30, 2010 - 17:18



Benefit Summary		Alt 1		Alt 2		Alt 3		Alt 4	
Factor	**Weighting**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**	**Rank**	**Value**
Protectiveness	0.3	10	3	7	2.1	6	1.8	5	1.5
Permanence	0.2	9	1.8	6	1.2	5	1	3	0.6
Long-Term Effectiveness	0.2	9	1.8	7	1.4	6	1.2	4	0.8
Short-Term Risk	0.1	5	0.5	6	0.6	6	0.6	5	0.5
Implementability	0.1	7	0.7	7	0.7	6	0.6	5	0.5
Public Concerns	0.1	9	0.9	7	0.7	6	0.6	5	0.5
Sum	1	8.7		6.7		5.8		4.4	

Disproportionate Cost Analysis Rankings

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 21

APPENDICES

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APPENDIX A

Previous Investigation (Pre-2009) Chemical Analytical Data (All Analytes and Media on CD-ROM)

TABLE A-1

PREVIOUS INVESTIGATION (PRE-2009) SOIL DATA

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Analyte	Units	Proposed CleanUp Level	Sample ID: 112-0-1 / Location ID: HC-112 1-1 / Date/Time Sampled: 3/13/08	112-0-2 / HC-112 2-2 / 3/13/08	60-0-1 / HC-60 1-1 / 3/13/08	B-1-1 / B-1 1-1 / 4/20/01	B12-0-1 / HC-12 1-1 / 3/13/08	B12-1-2 / HC-12 2-2 / 3/13/08	B20-0-1 / HC-20 1-1 / 3/13/08	B20-1-2 / HC-20 2-2 / 3/13/08	B-2-1 / B-2 1-1 / 4/20/01	B-2-3 / B-2 3-3 / 4/20/01	B24-0-1 / HC-24 1-1 / 3/13/08	B24-1-2 / HC-24 2-2 / 3/13/08	B30A-0-1 / HC-30 1-1 / 3/13/08	B30A-1-2 / HC-30 2-2 / 3/13/08	B-3-1 / B-3 1-1 / 4/20/01	B-4-1 / B-4 1-1 / 4/20/01	B-5-1 / B-5 1-1 / 4/20/01	B-5-4 / B-5 4-4 / 4/20/01	B-6-1 / B-6 1-1 / 4/20/01	B-7-1 / B-7 1-1 / 4/20/01	B-7-4 / B-7 4-4 / 4/20/01	B-8-1 / B-8 1-1 / 4/20/01
Chlorinated Pesticides by SW8081A																								
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	2,500 U	60 U	**120**	1 U	60 U	60 U	50 U	600 U	5 U	1 U	**1,930**	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
Alpha-BHC	ug/kg		2,500 U	60 U	75 U	0.5 U	60 U	60 U	50 U	60 U	2.5 U	0.5 U	50 U	60 U	50 U	50 U	0.5 U	0.5 U	5.5 U	0.5 U	0.5 U	25.5 U	2.5 U	0.5 U
Azinphos-methyl	ug/kg		13,000 U	320 U	380 U	40 U	320 U	320 U	280 U	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		2,500 U	60 U	75 U	0.9 U	60 U	60 U	50 U	60 U	4.5 U	0.9 U	50 U	60 U	50 U	50 U	0.9 U	0.9 U	9.9 U	0.9 U	0.9 U	45.9 U	4.5 U	0.9 U
Bolstar (Sulprofos)	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Chlorpyriphos	ug/kg	240,000	5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	**6,670**	40 U	40 U
Coumaphos	ug/kg		13,000 U	320 U	380 U	40 U	320 U	320 U	280 U	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Delta-BHC	ug/kg		2,500 U	60 U	75 U	0.6 U	60 U	60 U	50 U	60 U	3 U	0.6 U	50 U	60 U	50 U	50 U	0.6 U	0.6 U	6.6 U	0.6 U	0.6 U	30.6 U	3 U	0.6 U
Demeton	ug/kg		--	--	--	40 U	--	--	--	--	40 U	40 U	--	--	--	--	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Demeton-S	ug/kg		5,000 U	100 U	200 U	--	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--
Diazinon	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Dichlorvos (DDVP)	ug/kg		13000 U	320 U	380 U	40 U	320 U	320 U	280 U	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Dieldrin	ug/kg	63	2,500 U	60 U	**140**	2 U	60 U	60 U	50 U	60 U	10 U	2 U	**6,250**	60 U	50 U	50 U	2 U	2 U	22 U	2 U	2 U	102 U	10 U	2 U
Dimethoate	ug/kg		5,000 U	100 U	200 U	--	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--
Disulfoton (Di-Syston)	ug/kg		5,000 U	100 U	200 U	--	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--
Endrin	ug/kg		2,500 U	60 U	75 U	2 U	60 U	60 U	50 U	60 U	10 U	2 U	50 U	60 U	50 U	50 U	2 U	2 U	22 U	2 U	2 U	102 U	10 U	2 U
Endrin Aldehyde	ug/kg		2,500 U	60 U	75 U	2 U	60 U	60 U	50 U	60 U	10 U	2 U	50 U	60 U	50 U	50 U	2 U	2 U	22 U	2 U	2 U	102 U	10 U	2 U
Endrin Ketone	ug/kg		2,500 U	60 U	75 U	2 U	60 U	60 U	50 U	60 U	10 U	2 U	**190**	60 U	50 U	50 U	2 U	2 U	22 U	2 U	2 U	102 U	10 U	2 U
EPN	ug/kg		13,000 U	320 U	380 U	40 U	320 U	320 U	280 U	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Ethoprop	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Fensulfothion	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Fenthion	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Heptachlor	ug/kg	220	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
Heptachlor Epoxide	ug/kg	110	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
Lindane (Gamma-BHC)	ug/kg	770	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
Malathion	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Merphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	2,500 U	60 U	75 U	4 U	60 U	60 U	**83**	60 U	20 U	4 U	50 U	60 U	50 UJ	50 U	4 U	4 U	44 U	4 U	4 U	204 U	20 U	4 U
Methyl Parathion	ug/kg	20,000	5,000 U	100 U	200 U	40 U	100 U	100 U	**170**	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Mevinphos	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Monocrotophos	ug/kg		13,000 U	320 U	380 U	--	320 U	320 U	280 U	300 U	--	--	250 U	310 U	250 U	250 U	--	--	--	--	--	--	--	--
Naled	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	13,000 U	320 U	380 U	40 U	320 U	320 U	**50 J**	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Phorate	ug/kg		5000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Ronnel	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Sulfotepp	ug/kg		5,000 U	100 U	200 U	--	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Tetraethyl pyrophosphate (TEPP)	ug/kg		13,000 U	320 U	380 U	--	320 U	320 U	280 U	300 U	--	--	250 U	310 U	250 U	250 U	--	--	--	--	--	--	--	--
Tokuthion	ug/kg		5000 U	100 U	200 U	--	100 U	100 U	100 U	100 U	--	--	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--
Tokuthion (Prothiofos)	ug/kg		--	--	--	40 U	--	--	--	--	40 U	40 U	--	--	--	--	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
Toxaphene	ug/kg	910	--	--	--	50 U	--	--	--	--	250 U	50 U	--	--	--	--	50 U	50 U	550 U	50 U	50 U	2550 U	250 U	50 U
Trichloronate	ug/kg		5,000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U	40 U	40 U	40 U	40 U
alpha-Chlordane (cis)	ug/kg		**10,000**	60 U	**170**	1 U	**65**	60 U	50 U	60 U	4 U	1 U	50 U	60 U	**70**	50 U	0.8 U	0.8 U	8.8 U	**1**	0.8 U	40.8 U	4 U	0.8 U
gamma-Chlordane (relic CAS #)	ug/kg		**12,000**	60 U	**180**	0.706 U	**85**	60 U	50 U	60 U	**62.2**	0.7 U	50 U	60 U	**80**	50 U	0.7 U	0.7 U	**241**	0.7 U	0.7 U	35.7 U	3.5 U	0.7 U
Chlordane (Total)	ug/kg	2,050	**22,000 T**	60 UT	**350 T**	1 UT	**150 T**	60 UT	50 UT	60 UT	**64.2 T**	1 UT	50 UT	60 UT	**150 T**	50 UT	0.8 UT	0.8 UT	**245.4 T**	**1.298 T**	0.8 UT	40.8 UT	4 UT	0.8 UT
Chlordane, technical	ug/kg		--	--	--	1 U	--	--	--	--	5 U	1 U	--	--	--	--	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
4,4'-DDT	ug/kg	2,900	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 UJ	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
4,4'-DDE	ug/kg	2,900	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
4,4'-DDD	ug/kg	4,200	2,500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U	1 U	51 U	5 U	1 U
Total DDT (4,4 isomers)	ug/kg	750	2,500 UT	60 UT	75 UT	1 UT	60 UT	60 UT	50 UT	60 UT	5 UT	1 UT	50 UT	60 UT	50 UT	50 UT	1 UT	1 UT	11 UT	1 UT	1 UT	51 UT	5 UT	1 UT
Endosulfan I	ug/kg		**917,000**	**160**	**9,060 J**	1 U	**370**	60 U	**3,010**	60 U	**28,700**	**9.12**	**1,080**	60 U	**4,980**	50 U	1 U	1 U	**5,830**	**11.3**	1 U	**789**	**60.3**	1 U
Endosulfan II	ug/kg		**371,000**	60 U	**10,500 J**	2 U	**300**	60 U	**3,710**	60 U	**18,000**	**3.98**	**1,750**	60 U	**6,980 J**	50 U	2 U	2 U	**2,090**	**8.47**	2 U	**395**	**30.5**	**2.21**
Endosulfan Sulfate	ug/kg		2,500 U	60 U	**4,490**	1 U	60 U	60 U	**4,540**	60 U	**853**	1 U	**3,540**	60 U	**4,780**	50 U	1 U	1 U	**75.5**	1 U	1 U	51 U	5 U	**2.15**
Endosulfan (Total)	ug/kg	2,400	**1,289,250 T**	**220 T**	**24,050 JT**	2 UT	**700 T**	60 UT	**11,260 T**	60 UT	**47,553 T**	**13.6 T**	**6,370 T**	60 UT	**16,740 JT**	50 UT	2 UT	2 UT	**7,995.5 T**	**20.27 T**	2 UT	**1,209.5 T**	**93.3 T**	**4.86 T**

Analyte	Units	Proposed CleanUp Level	Sample ID: 112-0-1 HC-112 Location ID: 1-1 Date/Time Sampled: 3/13/08	112-0-2 HC-112 2-2 3/13/08	60-0-1 HC-60 1-1 3/13/08	B-1-1 B-1 1-1 4/20/01	B12-0-1 HC-12 1-1 3/13/08	B12-1-2 HC-12 2-2 3/13/08	B20-0-1 HC-20 1-1 3/13/08	B20-1-2 HC-20 2-2 3/13/08	B-2-1 B-2 1-1 4/20/01	B-2-3 B-2 3-3 4/20/01	B24-0-1 HC-24 1-1 3/13/08	B24-1-2 HC-24 2-2 3/13/08	B30A-0-1 HC-30 1-1 3/13/08	B30A-1-2 HC-30 2-2 3/13/08	B-3-1 B-3 1-1 4/20/01	B-4-1 B-4 1-1 4/20/01	B-5-1 B-5 1-1 4/20/01	B-5-4 B-5 4-4 4/20/01	B-6-1 B-6 1-1 4/20/01	B-7-1 B-7 1-1 4/20/01	B-7-4 B-7 4-4 4/20/01	B-8-1 B-8 1-1 4/20/01
Chlorinated Acid Herbicides by SW8151A																								
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		30 U	30 U	30 U	1,000 U	30 U	30 U	20 U	20 U	1,000 U	1,000 U	20 U	25 U	20 U	20 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
3,5-Dichlorobenzoic Acid	ug/kg		**20**	30 U	30 U	--	30 U	30 U	20 U	20 U	--	--	20 U	25 U	20 U	20 U	--	--	--	--	--	--	--	--
Ametryn	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Atraton	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	2,500 U	50 U	**50 J**	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	40 U	**35**	**8 J**	--	40 U	40 U	30 U	40 U	--	--	30 U	38 U	30 U	30 U	--	--	--	--	--	--	--	--
Bromacil	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Butachlor	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Butylate	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	30 U	**10 J**	30 U	--	30 U	30 U	20 U	20 U	--	--	20 U	25 U	20 U	20 U	--	--	--	--	--	--	--	--
Chlorobenzilate	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Chloroneb	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Chloropropylate	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	**234,000**	**120**	**80**	--	60 U	60 U	**260**	60 U	--	--	**820**	63 U	**6,700 J**	50 U	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	**6,000**	50 U	75 U	--	60 U	**1,500**	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
cis-Permethrin	ug/kg		**17,000**	50 U	**280**	--	60 U	60 U	**100**	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Cyanazine	ug/kg		2500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Dicofol	ug/kg		2500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	**2,000**	**500**	75 U	--	**90**	**3,150**	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	**17,000**	**420**	75 U	--	**70**	**850**	60 U	60 U	--	--	**100**	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Etridiazole	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Hexazinone	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	2,500 U	50 U	**40 J**	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	2,500 U	**70**	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
MGK264	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Molinate	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	**47,000**	**3,300**	**200**	--	**550**	**4,900**	60 U	60 U	--	--	50 U	63 U	**150**	50 U	--	--	--	--	--	--	--	--
Norflurazon	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Pebulate	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Picloram	ug/kg		30 UJ	30 UJ	30 UJ	--	30 UJ	30 UJ	20 UJ	20 UJ	--	--	20 UJ	25 UJ	20 UJ	20 UJ	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	2,500 U	50 U	75 U	--	**260**	**50 J**	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Prometryn	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Pronamide (Kerb)	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Propachlor (Ramrod)	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	**7,500**	**930**	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Simetryn	ug/kg		2,500 U	50 U	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	2,500 U	**90**	75 U	--	60 U	60 U	60 U	60 U	--	--	50 U	63 U	50 U	**100**	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	**77,000**	**1,400**	**1,000**	--	**640**	**740**	60 U	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		**180 J**	30 UJ	30 UJ	--	**23 J**	**7 J**	20 UJ	20 UJ	--	--	20 UJ	25 UJ	20 UJ	20 UJ	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		**14,000**	50 U	**80**	--	60 U	60 U	**70**	60 U	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	**4,000**	50 U	**200 J**	--	60 U	60 U	**150**	**170**	--	--	50 U	63 U	50 U	50 U	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		30 U	30 U	**10 J**	--	30 U	30 U	20 U	20 U	--	--	20 U	25 U	20 U	20 U	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	**135,000 J**	**100**	**560**	--	**12,500**	**30 J**	**490**	60 U	--	--	**200**	63 U	**5,100**	50 U	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	**150,000**	**580**	**100 J**	--	60 U	**200**	60 U	60 U	--	--	50 U	63 U	**160**	50 U	--	--	--	--	--	--	--	--
Dinoseb	ug/kg	524	250 UJ	40 U	**210 J**	**164**	**50 J**	40 U	**280 J**	**30 J**	10 U	10 U	30 U	38 U	**530**	30 U	**606**	10 U	**107**	10 U	10 U	**138**	**136**	10 U
MCPA	ug/kg	40,000	30 U	**2 J**	**3 J**	1,000 U	30 U	30 U	20 U	20 U	1,000 U	1,000 U	20 U	25 U	20 U	20 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
2,4-D	ug/kg	800,000	40 U	40 U	**8 J**	40 U	40 U	40 U	30 U	40 U	40 U	40 U	30 U	38 U	30 U	30 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
2,4-DB	ug/kg	640,000	130 U	130 U	150 U	**24.7**	130 U	130 U	110 U	120 U	20 U	**70.1**	100 U	125 U	100 U	100 U	**56.3**	**25.9**	20 U	**24.5**	**20.5**	20 U	20 U	20 U
2,4,5-T	ug/kg	800,000	30 U	30 U	30 U	50 U	30 U	30 U	20 U	20 U	50 U	50 U	20 U	25 U	20 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dalapon (DPA)	ug/kg		--	--	--	50 U	--	--	--	--	50 U	50 U	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Dicamba	ug/kg	2,200	**900**	**48**	**10 J**	20 U	**6 J**	**2 J**	**4 J**	**780**	20 U	20 U	20 U	25 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dichlorprop	ug/kg		60 U	60 U	75 U	**51.5**	60 U	60 U	60 U	60 U	10 U	**48.4**	50 U	63 U	50 U	50 U	10 U	**49**	10 U	**67**	**29.9**	**34.5**	**46.3**	**62.2**
Pentachlorophenol	ug/kg	4,500	**5,450**	30 U	**25**	40 U	**78**	30 U	**24**	20 U	40 U	40 U	20 U	25 U	**19**	20 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	**130**	**61**	30 U	50 U	30 U	30 U	20 U	20 U	50 U	50 U	20 U	25 U	20 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Metals by SW6010/6020																								
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																								
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,1,2-Trichloroethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,1-Dichloroethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,1-Dichloropropene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2,3-Trichlorobenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

Analyte	Units	Proposed CleanUp Level	Sample ID: 112-0-1 HC-112 Location ID: 1-1 Date/Time Sampled: 3/13/08	112-0-2 HC-112 2-2 3/13/08	60-0-1 HC-60 1-1 3/13/08	B-1-1 B-1 1-1 4/20/01	B12-0-1 HC-12 1-1 3/13/08	B12-1-2 HC-12 2-2 3/13/08	B20-0-1 HC-20 1-1 3/13/08	B20-1-2 HC-20 2-2 3/13/08	B-2-1 B-2 1-1 4/20/01	B-2-3 B-2 3-3 4/20/01	B24-0-1 HC-24 1-1 3/13/08	B24-1-2 HC-24 2-2 3/13/08	B30A-0-1 HC-30 1-1 3/13/08	B30A-1-2 HC-30 2-2 3/13/08	B-3-1 B-3 1-1 4/20/01	B-4-1 B-4 1-1 4/20/01	B-5-1 B-5 1-1 4/20/01	B-5-4 B-5 4-4 4/20/01	B-6-1 B-6 1-1 4/20/01	B-7-1 B-7 1-1 4/20/01	B-7-4 B-7 4-4 4/20/01	B-8-1 B-8 1-1 4/20/01
1,2,3-Trichloropropane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2,4-Trichlorobenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	500 U	--	--	--	--	500 U	500 U	--	--	--	--	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
1,2-dibromoethane (EDB)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2-Dichloropropane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,3-Dichloropropane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,2-Dichloropropane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Butanone (MEK)	ug/kg		--	--	--	1,000 U	--	--	--	--	1,000 U	1,000 U	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
2-Chlorotoluene	ug/kg	2,060	--	--	--	100 U	--	--	--	--	1,000 U	1,000 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Hexanone	ug/kg		--	--	--	1,000 U	--	--	--	--	1000 U	1000 U	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
4-Chlorotoluene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	1,000 U	--	--	--	--	1,000 U	1,000 U	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
Acetone	ug/kg	8,000,000	--	--	--	1,000 U	--	--	--	--	1,000 U	1,000 U	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
Benzene	ug/kg	26	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Bromobenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Bromochloromethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Bromoform (Tribromomethane)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Bromomethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Carbon Disulfide	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Carbon Tetrachloride	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorobenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chloroethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chloroform	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chloromethane	ug/kg		--	--	--	500 U	--	--	--	--	500 U	500 U	--	--	--	--	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Cis-1,2-Dichloroethene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Cis-1,3-Dichloropropene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dibromochloromethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dibromomethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dichlorobromomethane	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Ethylbenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Hexachlorobutadiene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Isopropylbenzene (Cumene)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Methylene Chloride	ug/kg		--	--	--	1,000 U	--	--	--	--	1,000 U	1,000 U	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
Naphthalene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
n-Butylbenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
n-Propylbenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
p-Isopropyltoluene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Sec-Butylbenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Styrene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Tert-Butylbenzene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Tetrachloroethene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Toluene	ug/kg	6,400,000	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Trans-1,2-Dichloroethene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Trans-1,3-Dichloropropene	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Trichloroethene (TCE)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Vinyl Chloride	ug/kg		--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Xylene, m-,p-	ug/kg		--	--	--	200 U	--	--	--	--	200 U	200 U	--	--	--	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Xylene, o-	ug/kg	88,000	--	--	--	100 U	--	--	--	--	100 U	100 U	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U

Analyte	Units	Proposed CleanUp Level	Sample ID: G-100-S Location ID: HC-54 Date/Time Sampled: .25- .25 12/05/05	G-101-A 48ABC .25- .25 12/05/05	G-13-S HC-13 .25- .25 11/28/05	G-14-S HC-14 .25- .25 11/28/05	G-15-S HC-15 .25- .25 11/28/05	G-16-S HC-16 .25- .25 11/28/05	G-17-S HC-17 .25- .25 11/28/05	G-18-A 18ABC .25- .25 11/28/05	G-18-B 18ABC .25- .25 11/28/05	G-18-C 18ABC .25- .25 11/28/05	G-19-S HC-19 .25- .25 11/28/05	G-20-S HC-20 .25- .25 11/28/05	G-21-S HC-21 .25- .25 11/28/05	G-22-S HC-22 .25- .25 11/28/05	G-23-S HC-23 .25- .25 11/28/05	G-24-S HC-24 .25- .25 11/28/05	G-24-X HC-24 .25- .25 11/28/05	G-26-S HC-26 .25- .25 11/28/05	G-27-S HC-27 .25- .25 11/28/05	G-28-S HC-28 .25- .25 11/28/05	G-29-S HC-29 .25- .25 12/05/05	G-30-A HC-30 .25- .25 12/05/05	G-30-B HC-30 1- 1 12/05/05	G-30-C HC-30 2- 2 12/05/05	G-31-S HC-31 .25- .25 12/05/05
Chlorinated Pesticides by SW8081A																											
4-Nitrophenol (p-Nitrophenol)	ug/kg		130 U	200 U	300 U	300 U	180 U	200 U	5000 U	100 U	100 U	100 U	250 U	100 U	100 U	**20 J**	100 U	**30 J**	**240**	100 U	100 U	300 U	1,000 U	**90**	100 U	130 U	140 U
Alachlor	ug/kg	12,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	2,000 U	100 U	50 U	100 U	70 U
Aldrin	ug/kg	59	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	**120**	**248,000**	**23,200**	50 U	100 U	70 U	**1,160**	**220**	25 U	30 U	70 U
Alpha-BHC	ug/kg		60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Azinphos-methyl	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Bolstar (Sulprofos)	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Chlorpyriphos	ug/kg	240,000	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	**150**	50 U	50 U	50 U	50 U	50 U	50 U	**1,080**	100 U	140 U	50 U	**90 J**	50 U	100 U	100 U
Coumaphos	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Delta-BHC	ug/kg		60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Diazinon	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Dichlorvos (DDVP)	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Dieldrin	ug/kg	63	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	**150**	50 U	25 U	25 U	**130**	**76,900**	**19,600**	50 U	100 U	70 U	**270 J**	**650**	25 U	30 U	70 U
Dimethoate	ug/kg		100 U	200 U	300 U	300 U	200 U	200 U	100 U	100 U	100 U	100 U	300 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	100 U	100 U	100 U
Disulfoton (Di-Syston)	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Endrin	ug/kg		60 U	100 UJ	63 U	63 U	40 U	100 UJ	50 UJ	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 UJ	50 UJ	50 UJ	100 UJ	70 U	50 U	30 U	25 U	30 U	70 U
Endrin Aldehyde	ug/kg		60 U	100 UJ	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Endrin Ketone	ug/kg		60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	50 U	25 UJ	25 UJ	25 UJ	**3,230 J**	**690 J**	50 UJ	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U
EPN	ug/kg		100 U	200 U	300 U	300 U	200 U	200 UJ	100 UJ	100 U	100 U	100 U	300 U	100 UJ	100 U	100 U	100 U	100 UJ	100 UJ	100 UJ	200 UJ	300 U	100 U	100 U	100 U	100 U	100 U
Ethoprop	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Fensulfothion	ug/kg		100 U	100 U	130 U	130 U	100 U	100 UJ	50 UJ	50 U	100 U	50 U	130 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ	50 UJ	100 UJ	140 U	50 U	100 U	50 U	100 U	100 U
Fenthion	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Heptachlor	ug/kg	220	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	50 U	25 UJ	25 UJ	25 UJ	50 UJ	50 UJ	120 J	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U
Heptachlor Epoxide	ug/kg	110	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Lindane (Gamma-BHC)	ug/kg	770	60 U	100 UJ	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Malathion	ug/kg		100 U	200 U	300 U	300 U	200 U	200 U	100 U	100 U	100 U	100 U	300 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	100 U	100 U	100 U
Merphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	60 UJ	**1,480**	25 UJ	25 UJ	25 UJ	50 UJ	50 UJ	50 UJ	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U
Methyl Parathion	ug/kg	20,000	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Mevinphos	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Monocrotophos	ug/kg		100 U	200 U	300 U	300 U	200 U	200 U	100 U	100 U	100 U	100 U	300 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	100 U	100 U	100 U
Naled	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	--
Parathion (ethyl)	ug/kg	480,000	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**720**	**470**	50 U	50 U	50 U	**280**	50 U	100 U	140 U	2000 U	100 U	50 U	100 U	**700**
Phorate	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Ronnel	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Sulfotepp	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Tetrachlorvinphos (Gardona)	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	10,000 U	50 U	50 U	50 U	1,000 U	1,000 U	2,000 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Tetraethyl pyrophosphate (TEPP)	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Tokuthion	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	**2,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U
alpha-Chlordane (cis)	ug/kg		**68**	**120**	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	1,000 U	25 U	25 U	25 U	50 U	50 U	**900**	**40 J**	70 U	50 U	**280**	25 U	30 U	**60**
gamma-Chlordane (relic CAS #)	ug/kg		**91**	**120**	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	**1,090**	**49**	70 U	50 U	**330**	25 U	30 U	**80**
Chlordane (Total)	ug/kg	2,050	**159 T**	**240 T**	63 UT	63 UT	40 UT	100 UT	50 UT	25 UT	25 UT	25 UT	63 UT	1,000 UT	25 UT	25 UT	25 UT	50 UT	50 UT	**1,990 T**	**89 JT**	70 UT	50 UT	**610 T**	25 UT	30 UT	**140 T**
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	**160**	25 UJ	25 UJ	25 UJ	50 UJ	50 UJ	50 UJ	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U
4,4'-DDE	ug/kg	2,900	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
4,4'-DDD	ug/kg	4,200	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U
Total DDT (4,4 isomers)	ug/kg	750	60 UT	100 UT	63 UT	63 UT	40 UT	100 UT	50 UT	25 UT	25 UT	25 UT	63 UT	**210 T**	25 UT	25 UT	25 UT	50 UT	50 UT	50 UT	100 UT	70 UT	50 UT	30 UT	25 UT	30 UT	70 UT
Endosulfan I	ug/kg		**66**	**4,490**	63 U	63 U	40 U	**76**	**60**	**45**	25 U	25 U	**340**	**613,000**	**850**	25 U	**250**	**3,080**	**2,500**	**11,300**	**30 J**	**30 J**	**30,800**	**268,000**	**880**	**580**	**450**
Endosulfan II	ug/kg		**290**	**5,160**	**70**	**40 J**	**30 J**	**200**	**170**	**310**	25 U	25 U	**1780**	**436,000**	**2,630**	**50**	**610**	4000 U	**4,070**	**10,600**	**350**	**130**	**12,300**	**396,000**	**1,080**	**600**	**950**
Endosulfan Sulfate	ug/kg		**810**	**2,500**	**220**	**40 J**	**30 J**	**75**	**50 J**	**150**	25 U	25 U	**2,710**	**5,840**	**2,010**	25 U	**190**	50 U	**1,990**	**480**	**620**	**310**	50 U	**2,020**	**61**	**30 J**	**1,000**
Endosulfan (Total)	ug/kg	2,400	**1,166 T**	**12,150 T**	**321.5 T**	**111.5 JT**	**80 JT**	**351 T**	**280 JT**	**505 T**	25 UT	25 UT	**4,830 T**	**1,054,840 T**	**5,490 T**	**75 T**	**1,050 T**	**5,105 T**	**8,560 T**	**22,380 T**	**1000 JT**	**470 JT**	**43,125 T**	**666,020 T**	**2,021 T**	**1,210 JT**	**2,400 T**

Analyte	Units	Proposed CleanUp Level	Sample ID: G-100-S HC-54 .25-.25 Location ID: 12/05/05 Date/Time Sampled:	G-101-A 48ABC .25-.25 12/05/05	G-13-S HC-13 .25-.25 11/28/05	G-14-S HC-14 .25-.25 11/28/05	G-15-S HC-15 .25-.25 11/28/05	G-16-S HC-16 .25-.25 11/28/05	G-17-S HC-17 .25-.25 11/28/05	G-18-A 18ABC .25-.25 11/28/05	G-18-B 18ABC .25-.25 11/28/05	G-18-C 18ABC .25-.25 11/28/05	G-19-S HC-19 .25-.25 11/28/05	G-20-S HC-20 .25-.25 11/28/05	G-21-S HC-21 .25-.25 11/28/05	G-22-S HC-22 .25-.25 11/28/05	G-23-S HC-23 .25-.25 11/28/05	G-24-S HC-24 .25-.25 11/28/05	G-24-X HC-24 .25-.25 11/28/05	G-26-S HC-26 .25-.25 11/28/05	G-27-S HC-27 .25-.25 11/28/05	G-28-S HC-28 .25-.25 11/28/05	G-29-S HC-29 .25-.25 12/05/05	G-30-A HC-30 .25-.25 12/05/05	G-30-B HC-30 1-1 12/05/05	G-30-C HC-30 2-2 12/05/05	G-31-S HC-31 .25-.25 12/05/05
Chlorinated Acid Herbicides by SW8151A																												
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
3,5-Dichlorobenzoic Acid	ug/kg		30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Ametryn	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Atraton	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Atrazine	ug/kg	4,500	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	**160**	50 U	50 U	100 U	140 U	500 U	**110**	50 U	100 U	70 U
Bentazon	ug/kg	2,400,000	40 U	**7 J**	80 U	80 U	50 U	60 U	1,500 U	30 U	40 U	30 U	75 U	30 U	30 U	30 U	**460**	30 U	30 U	30 U	30 U	80 U	300 U	40 U	30 U	40 U	40 U
Bromacil	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Butachlor	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Butylate	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Chloramben	ug/kg	1,200,000	30 U	40 U	--	--	--	--	1,000 U	--	--	--	50 U	--	--	--	--	20 U	20 U	20 U	--	--	200 U	30 U	20 U	30 U	30 U
Chlorobenzilate	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Chloroneb	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Chloropropylate	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Chlorothalonil (Daconil)	ug/kg	91,000	**50 J**	**250**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	**130**	**500**	**180**	50 U	**130**	**260**	**360**	**4,390**	**420**	**340**	**154,000**	**9,170**	**340**	100 U	**79**
Chlorpropham	ug/kg	16,000,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	**530**	**85**	50 U	100 U	140 U	**430**	**120**	50 U	100 U	70 U
cis-Permethrin	ug/kg		60 U	**130**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	**240**	**390**	100 U	140 U	**2,860**	**270**	50 U	100 U	70 U
Cyanazine	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Dicofol	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Diphenamid	ug/kg	2,400,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Eptam	ug/kg	2,000,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	**860**	100 U	50 U	100 U	70 U
Etridiazole	ug/kg		60 UJ	100 UJ	130 UJ	130 U	100 U	100 UJ	50 UJ	50 U	100 U	50 U	130 UJ	50 UJ	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	100 U	140 UJ	50 UJ	100 UJ	50 UJ	100 UJ	70 U
Hexazinone	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	10,000 U	100 U	50 U	100 U	70 U
Metolachlor	ug/kg	12,000,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	**230**	100 U	50 U	100 U	70 U
Metribuzin	ug/kg	2,000,000	60 U	100 U	130 U	130 U	100 U	100 UJ	50 UJ	50 U	100 U	50 U	130 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ	50 UJ	100 U	140 U	50 U	100 U	50 U	100 U	70 U
MGK264	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Molinate	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Napropamide	ug/kg	8,000,000	**200**	**220**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	**40 J**	50 U	50 U	**250**	50 U	**310**	**420**	140 U	**2,590**	**500**	50 U	100 U	70 U
Norflurazon	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Pebulate	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Picloram	ug/kg		30 U	40 U	50 U	50 U	40 U	40 U	1,000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Prometon (Pramitol 5p)	ug/kg	1,200,000	**78**	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Prometryn	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Pronamide (Kerb)	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Propachlor (Ramrod)	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Propazine	ug/kg	1,600,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Simazine	ug/kg	8,300	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	**110**	50 U	100 U	70 U
Simetryn	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Terbacil	ug/kg	1,000,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Terbutryn (Igran)	ug/kg	80,000	**72**	**760**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**250**	50 U	50 U	50 U	**430**	**74**	**1,540**	100 U	140 U	**2,030**	**930**	50 U	100 U	70 U
Total DCPA diacid (Chlorthal)	ug/kg		30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	**10 J**	20 U	**89**	20 U	50 U	200 U	**20 J**	20 U	30 U	30 U
trans-Permethrin	ug/kg		60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	50 U	**580**	**600**	100 U	140 U	**4,330**	**350**	50 U	100 U	70 U
Triadimefon	ug/kg	480,000	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**5,690**	50 U	50 U	50 U	50 U	50 U	50 U	100 U	140 U	**6,250**	**210**	50 U	100 U	70 U
Trichlopyr	ug/kg		30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Trifluralin	ug/kg	130,000	**1,480**	**180**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**2,400**	50 U	50 U	50 U	**130**	**280**	**8,100**	100 U	140 U	**17,600**	**12,500**	**520**	**920 J**	**86**
Vernolate	ug/kg	10,000	60 U	**140**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U	50 U	50 U	**240**	50 U	**110 J**	100 U	140 U	50 U	100 U	50 U	100 U	70 U
Dinoseb	ug/kg	524	**980**	60 U	80 U	80 U	50 U	60 U	**759,000**	**330**	**70**	**100**	**89**	**1,000**	**110**	**26**	30 U	**40**	**41**	**380**	**56**	80 U	**450 J**	**370**	**10 J**	**10 J**	**120**
MCPA	ug/kg	40,000	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
2,4-D	ug/kg	800,000	40 U	60 U	80 U	80 U	50 U	60 U	1500 U	30 U	40 U	30 U	75 U	**290**	30 U	30 U	**160**	**10 J**	30 U	30 U	30 U	80 U	300 U	40 U	30 U	40 U	40 U
2,4-DB	ug/kg	640,000	130 U	200 U	300 U	300 U	180 U	200 U	5000 U	100 U	70 U	100 U	250 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	300 U	1000 U	130 U	100 U	130 U	140 U
2,4,5-T	ug/kg	800,000	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	30 U	**10 J**	50 U	50 U	40 U	40 U	1000 U	20 U	**4 J**	20 U	50 U	**31**	20 U	20 U	20 U	**6 J**	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Dichlorprop	ug/kg		60 U	100 U	130 U	130 U	90 U	100 U	2500 U	50 U	100 U	50 U	125 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	140 U	500 U	60 U	50 U	60 U	70 U
Pentachlorophenol	ug/kg	4,500	**30**	40 U	50 U	50 U	40 U	40 U	1000 U	**250**	30 U	20 U	**30 J**	**55**	**34**	20 U	20 U	**7 J**	20 U	**71**	**40**	50 U	**960**	**310**	20 U	30 U	**210**
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U
Metals by SW6010/6020																												
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																												
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: G-100-S Location ID: HC-54 Date/Time Sampled: .25- .25 12/05/05	G-101-A 48ABC .25- .25 12/05/05	G-13-S HC-13 .25- .25 11/28/05	G-14-S HC-14 .25- .25 11/28/05	G-15-S HC-15 .25- .25 11/28/05	G-16-S HC-16 .25- .25 11/28/05	G-17-S HC-17 .25- .25 11/28/05	G-18-A 18ABC .25- .25 11/28/05	G-18-B 18ABC .25- .25 11/28/05	G-18-C 18ABC .25- .25 11/28/05	G-19-S HC-19 .25- .25 11/28/05	G-20-S HC-20 .25- .25 11/28/05	G-21-S HC-21 .25- .25 11/28/05	G-22-S HC-22 .25- .25 11/28/05	G-23-S HC-23 .25- .25 11/28/05	G-24-S HC-24 .25- .25 11/28/05	G-24-X HC-24 .25- .25 11/28/05	G-26-S HC-26 .25- .25 11/28/05	G-27-S HC-27 .25- .25 11/28/05	G-28-S HC-28 .25- .25 11/28/05	G-29-S HC-29 .25- .25 12/05/05	G-30-A HC-30 .25- .25 12/05/05	G-30-B HC-30 1- 1 12/05/05	G-30-C HC-30 2- 2 12/05/05	G-31-S HC-31 .25- .25 12/05/05
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: G-32-S Location ID: HC-32 Date/Time Sampled: .25- .25 12/05/05	G-33-S HC-33 .25- .25 12/05/05	G-34-S HC-34 .25- .25 12/05/05	G-35-S HC-35 .25- .25 12/05/05	G-36-S HC-36 .25- .25 12/05/05	G-37-S HC-37 .25- .25 12/05/05	G-38-S HC-38 .25- .25 12/05/05	G-39-S HC-39 .25- .25 12/05/05	G-40-S HC-40 .25- .25 12/05/05	G-41-S HC-41 .25- .25 12/05/05	G-42-S HC-42 .25- .25 12/05/05	G-43-S HC-43 .25- .25 12/05/05	G-44-S HC-44 .25- .25 12/05/05	G-45-S HC-45 .25- .25 12/05/05	G-46-S HC-46 .25- .25 12/05/05	G-47-S HC-47 .25- .25 12/05/05	G-48-A 48ABC .25- .25 12/05/05	G-48-B 48ABC 1- 1 12/05/05	G-48-C 48ABC 2- 2 12/05/05	G-49-S HC-49 .25- .25 12/05/05	G-50-S HC-50 .25- .25 12/05/05	G-51-S HC-51 1- 1 12/05/05	G-52-S HC-52 .25- .25 12/05/05	G-53-S HC-53 .25- .25 12/05/05	G-54-SP HC-54 .25- .25 12/05/05	G-55-SP HC-55 .25- .25 12/05/05
Chlorinated Pesticides by SW8081A																												
4-Nitrophenol (p-Nitrophenol)	ug/kg		**190**	100 U	**400**	**140**	**160**	140 U	350 U	160 U	100 U	**240**	140 U	200 U	290 U	100 U	140 U	180 U	190 U	130 U	140 U	170 U	170 U	160 U	180 U	150 U	**120**	100 U
Alachlor	ug/kg	12,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Aldrin	ug/kg	59	50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Alpha-BHC	ug/kg		50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Azinphos-methyl	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 UJ	70 U	30 U	100 U	150 U	50 UJ	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 UJ
Bolstar (Sulprofos)	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Chlorpyriphos	ug/kg	240,000	**400**	50 U	**230 J**	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Coumaphos	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Delta-BHC	ug/kg		50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Diazinon	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Dichlorvos (DDVP)	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Dieldrin	ug/kg	63	50 U	25 U	30 U	50 U	**92**	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	70 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Dimethoate	ug/kg		100 U	100 U	100 U	100 U	200 U	100 U	400 U	200 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	200 U	200 U	100 U	100 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U
Disulfoton (Di-Syston)	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Endrin	ug/kg		1000 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 UJ	70 U	30 U	100 U	150 U	50 UJ	30 U	40 U	100 UJ	50 UJ	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 UJ
Endrin Aldehyde	ug/kg		50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 UJ	50 UJ	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Endrin Ketone	ug/kg		50 UJ	25 UJ	30 U	50 UJ	38 UJ	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 U	40 U	40 UJ	40 UJ	40 UJ	25 UJ	25 UJ	50 UJ
EPN	ug/kg		100 U	100 U	100 U	100 U	200 U	100 U	400 U	200 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	200 U	200 U	100 U	100 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U
Ethoprop	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Fensulfothion	ug/kg		50 U	50 U	100 U	50 U	80 U	100 UJ	180 UJ	100 UJ	50 UJ	100 UJ	100 UJ	100 UJ	150 UJ	50 UJ	100 UJ	100 U	100 U	60 UJ	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 UJ
Fenthion	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Heptachlor	ug/kg	220	**610 J**	25 UJ	**360**	50 UJ	38 UJ	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ	40 UJ	25 UJ	25 UJ	50 UJ
Heptachlor Epoxide	ug/kg	110	50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	**30 J**	**45**
Lindane (Gamma-BHC)	ug/kg	770	**320**	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 UJ	70 U	30 U	100 U	150 U	50 UJ	30 U	40 U	100 UJ	50 UJ	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 UJ
Malathion	ug/kg		100 U	100 U	100 U	100 U	200 U	100 U	400 U	200 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	200 U	200 U	100 U	100 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U
Merphos	ug/kg		--	50 U	--	--	80 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	100 U	--	100 U	80 U	100 U	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	**1,040 J**	25 UJ	**130 J**	50 UJ	38 UJ	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ	40 UJ	25 UJ	25 UJ	50 UJ
Methyl Parathion	ug/kg	20,000	50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Mevinphos	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Monocrotophos	ug/kg		100 U	100 U	100 U	100 U	200 U	100 U	400 U	200 U	100 U	100 U	100 U	200 U	300 U	100 U	100 U	200 U	200 U	100 U	100 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U
Naled	ug/kg		--	50 U	--	--	80 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	100 U	--	100 U	80 U	100 U	--
Parathion (ethyl)	ug/kg	480,000	**710 J**	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Phorate	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Ronnel	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Sulfotepp	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Tetrachlorvinphos (Gardona)	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Tetraethyl pyrophosphate (TEPP)	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Tokuthion	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		50 U	50 U	100 U	50 U	80 U	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U	100 U	80 U	100 U	50 U
alpha-Chlordane (cis)	ug/kg		**6,100**	25 U	**5,470**	**880**	**210**	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	**680**	**20 J**	40 U	**70 J**	50 U	30 U	**30 J**	40 U	40 U	40 U	25 U	**75**	50 U
gamma-Chlordane (relic CAS #)	ug/kg		**8,610**	25 U	**6,700**	**1,020**	**180**	**20 J**	88 U	40 U	50 U	70 U	30 U	100 U	150 U	**860**	**20 J**	40 U	**90 J**	50 U	30 U	**30 J**	40 U	40 U	40 U	25 U	**94**	**63**
Chlordane (Total)	ug/kg	2,050	**14,710 T**	25 UT	**12,170 T**	**1,900 T**	**390 T**	**35 JT**	88 UT	40 UT	50 UT	70 UT	30 UT	100 UT	150 UT	**1540 T**	**40 JT**	40 UT	**160 JT**	50 UT	30 UT	**60 JT**	40 UT	40 UT	40 UT	25 UT	**169 T**	**88 T**
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	50 UJ	50 UJ	**120 J**	50 UJ	38 UJ	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ	40 UJ	25 UJ	25 UJ	50 UJ
4,4'-DDE	ug/kg	2,900	50 U	25 U	30 U	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
4,4'-DDD	ug/kg	4,200	**160**	25 U	**140**	50 U	38 U	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U	40 U	25 U	25 U	50 U
Total DDT (4,4 isomers)	ug/kg	750	**210 JT**	50 UT	**275 JT**	50 UT	38 UT	30 UT	88 UT	40 UT	50 UT	70 UT	30 UT	100 UT	150 UT	50 UT	30 UT	40 UT	100 UT	50 UT	30 UT	40 UT	40 UT	40 UT	40 UT	25 UT	25 UT	50 UT
Endosulfan I	ug/kg		**156,000**	**210**	**347,000**	**2,350**	**67**	**130 J**	88 U	**150**	50 U	70 U	30 U	100 U	**230**	**23,600**	30 U	**390**	**2,710**	**190**	**160**	**120**	**380**	40 U	40 U	**30**	**77**	50 U
Endosulfan II	ug/kg		**85,700**	**360**	**245,000**	**4,650**	**370**	**260**	88 U	**110**	50 U	70 U	30 U	100 U	**270**	**17,400**	30 U	**530**	**3,870**	**210**	**150**	**260**	**420**	**110**	**44**	**77**	**210**	50 U
Endosulfan Sulfate	ug/kg		**1,200**	**160**	**840**	**940**	**730**	**1050**	**350**	**48**	50 U	70 U	**65**	100 U	**1,000**	**2,420**	**200**	**260**	**3,240**	**79**	**88**	**1,690**	**610**	**540**	**180**	**440**	**700**	**170**
Endosulfan (Total)	ug/kg	2,400	**242,900 T**	**730 T**	**592,840 T**	**7,940 T**	**1,167 T**	**1,440 JT**	**438 T**	**308 T**	50 UT	70 UT	**95 T**	100 UT	**1,500 T**	**43,420 T**	**230 T**	**1,180 T**	**9,820 T**	**479 T**	**398 T**	**2,070 T**	**1,410 T**	**670 T**	**244 T**	**547 T**	**987 T**	**220 T**

Analyte	Units	Proposed CleanUp Level	Sample ID: G-32-S Location ID: HC-32 Date/Time Sampled: .25-.25 12/05/05	G-33-S HC-33 .25-.25 12/05/05	G-34-S HC-34 .25-.25 12/05/05	G-35-S HC-35 .25-.25 12/05/05	G-36-S HC-36 .25-.25 12/05/05	G-37-S HC-37 .25-.25 12/05/05	G-38-S HC-38 .25-.25 12/05/05	G-39-S HC-39 .25-.25 12/05/05	G-40-S HC-40 .25-.25 12/05/05	G-41-S HC-41 .25-.25 12/05/05	G-42-S HC-42 .25-.25 12/05/05	G-43-S HC-43 .25-.25 12/05/05	G-44-S HC-44 .25-.25 12/05/05	G-45-S HC-45 .25-.25 12/05/05	G-46-S HC-46 .25-.25 12/05/05	G-47-S HC-47 .25-.25 12/05/05	G-48-A 48ABC .25-.25 12/05/05	G-48-B 48ABC 1-1 12/05/05	G-48-C 48ABC 2-2 12/05/05	G-49-S HC-49 .25-.25 12/05/05	G-50-S HC-50 .25-.25 12/05/05	G-51-S HC-51 1-1 12/05/05	G-52-S HC-52 .25-.25 12/05/05	G-53-S HC-53 .25-.25 12/05/05	G-54-SP HC-54 .25-.25 12/05/05	G-55-SP HC-55 .25-.25 12/05/05
Chlorinated Acid Herbicides by SW8151A																														
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
3,5-Dichlorobenzoic Acid	ug/kg		**30**	20 U	**35**	**6 J**	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Ametryn	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Atraton	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 UJ	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 UJ
Atrazine	ug/kg	4,500	**1,150**	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Bentazon	ug/kg	2,400,000	30 U	30 U	40 U	30 U	45 U	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	30 U	40 U	50 U	**6 J**	**10 J**	**10 J**	50 U	50 U	50 U	50 U	45 U	40 U	30 U
Bromacil	ug/kg		50 U	50 U	100 U	50 U	80 U	70 UJ	50 UJ	50 U	50 U	70 U	70 UJ	50 UJ	150 UJ	50 U	70 UJ	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Butachlor	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Butylate	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Chloramben	ug/kg	1,200,000	20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Chlorobenzilate	ug/kg		50 U	50 U	1,000 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	300 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Chloroneb	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Chloropropylate	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Chlorothalonil (Daconil)	ug/kg	91,000	**11,100**	**40 J**	**32,200**	**1,340**	**700**	70 U	50 UJ	50 UJ	50 U	70 U	70 UJ	50 U	150 U	**92 J**	70 UJ	100 U	**60 J**	50 U	70 U	100 U	100 U	80 U	100 U	80 U	**60 J**	50 U
Chlorpropham	ug/kg	16,000,000	**800**	50 U	**340**	**150**	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**350**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
cis-Permethrin	ug/kg		**1,000**	50 U	**100**	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**500**	70 U	100 U	**50 J**	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Cyanazine	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 UJ	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Dicofol	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Diphenamid	ug/kg	2,400,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Eptam	ug/kg	2,000,000	**440 J**	50 U	100 U	**100**	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Etridiazole	ug/kg		50 UJ	50 UJ	100 UJ	50 UJ	80 UJ	70 UJ	50 UJ	50 UJ	50 U	70 UJ	70 UJ	50 UJ	150 UJ	50 U	70 UJ	100 UJ	100 UJ	50 UJ	70 UJ	100 UJ	100 UJ	80 UJ	100 UJ	80 UJ	50 UJ	50 UJ
Hexazinone	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 UJ	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 UJ	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 UJ
Metolachlor	ug/kg	12,000,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 U	**50 J**	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Metribuzin	ug/kg	2,000,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
MGK264	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Molinate	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Napropamide	ug/kg	8,000,000	**2,320**	50 U	**2,650**	**690**	**640**	**60 J**	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**750**	70 U	100 U	**160**	50 U	70 U	**180**	100 U	80 U	100 U	80 U	**190**	**79**
Norflurazon	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 UJ	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 UJ
Pebulate	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Picloram	ug/kg		20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Prometon (Pramitol 5p)	ug/kg	1,200,000	50 U	50 U	100 U	50 U	**200**	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Prometryn	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Pronamide (Kerb)	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Propachlor (Ramrod)	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 UJ	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Propazine	ug/kg	1,600,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Simazine	ug/kg	8,300	**360**	**130**	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Simetryn	ug/kg		50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 UJ	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 UJ
Terbacil	ug/kg	1,000,000	50 U	50 U	100 U	50 U	80 U	70 U	50 U	50 UJ	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Terbutryn (Igran)	ug/kg	80,000	**202,000**	**170**	**18,500**	**1,270**	80 U	**76**	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**4,400**	70 U	100 U	**650**	**180**	**110**	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Total DCPA diacid (Chlorthal)	ug/kg		**1,740**	20 U	**310**	**7 J**	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**10 J**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
trans-Permethrin	ug/kg		**1,670**	50 U	**140**	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**550**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Triadimefon	ug/kg	480,000	**2,280**	50 U	100 U	50 U	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**450**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Trichlopyr	ug/kg		20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Trifluralin	ug/kg	130,000	**209,000**	**150 J**	**52,700**	**4,420**	**730 J**	**110**	50 U	50 U	50 U	70 U	70 U	50 U	**230**	**17,900**	70 U	100 U	**170**	**480**	**150**	100 U	**280 J**	**120**	100 U	80 U	**1,800**	**130**
Vernolate	ug/kg	10,000	**500 J**	50 U	100 U	**200**	80 U	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**1,560**	70 U	100 U	**50 J**	50 U	**63**	100 U	100 U	80 U	100 U	80 U	50 U	50 U
Dinoseb	ug/kg	524	**3,640**	30 U	**780**	**43**	100 U	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	**220**	40 U	50 U	60 U	**10 J**	40 U	50 U	50 U	50 U	50 U	45 U	**610**	**8 J**
MCPA	ug/kg	40,000	20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
2,4-D	ug/kg	800,000	**70 J**	30 U	**32**	**10 J**	45 U	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	30 U	40 U	50 U	60 U	40 U	40 U	50 U	50 U	50 U	50 U	45 U	40 U	30 U
2,4-DB	ug/kg	640,000	100 U	100 U	130 U	**10 J**	150 U	**20 J**	350 U	160 U	100 U	140 U	140 U	200 U	290 U	100 U	140 U	180 U	190 U	**20 J**	140 U	170 U	170 U	160 U	180 U	150 U	140 U	100 U
2,4,5-T	ug/kg	800,000	20 U	20 U	30 U	20 U	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	**81**	20 U	**20 J**	**7 J**	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**20 J**	30 U	40 U	40 U	**37**	**38**	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Dichlorprop	ug/kg		50 U	50 U	60 U	50 U	75 U	70 U	175 U	80 U	50 U	70 U	70 U	100 U	145 U	50 U	70 U	90 U	90 U	60 U	70 U	90 U	90 U	80 U	90 U	75 U	70 U	50 U
Pentachlorophenol	ug/kg	4,500	**460**	20 U	**480**	**15 J**	**73**	30 U	70 U	30 U	**20 J**	**30**	30 U	**40**	60 U	**69**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	**59**	**20 J**
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	**670**	20 U	**51**	**7 J**	30 U	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**10 J**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U	40 U	30 U	30 U	20 U
Metals by SW6010/6020																												
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																												
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: G-32-S Location ID: HC-32 Date/Time Sampled: .25- .25 12/05/05	G-33-S HC-33 .25- .25 12/05/05	G-34-S HC-34 .25- .25 12/05/05	G-35-S HC-35 .25- .25 12/05/05	G-36-S HC-36 .25- .25 12/05/05	G-37-S HC-37 .25- .25 12/05/05	G-38-S HC-38 .25- .25 12/05/05	G-39-S HC-39 .25- .25 12/05/05	G-40-S HC-40 .25- .25 12/05/05	G-41-S HC-41 .25- .25 12/05/05	G-42-S HC-42 .25- .25 12/05/05	G-43-S HC-43 .25- .25 12/05/05	G-44-S HC-44 .25- .25 12/05/05	G-45-S HC-45 .25- .25 12/05/05	G-46-S HC-46 .25- .25 12/05/05	G-47-S HC-47 .25- .25 12/05/05	G-48-A 48ABC .25- .25 12/05/05	G-48-B 48ABC 1- 1 12/05/05	G-48-C 48ABC 2- 2 12/05/05	G-49-S HC-49 .25- .25 12/05/05	G-50-S HC-50 .25- .25 12/05/05	G-51-S HC-51 1- 1 12/05/05	G-52-S HC-52 .25- .25 12/05/05	G-53-S HC-53 .25- .25 12/05/05	G-54-SP HC-54 .25- .25 12/05/05	G-55-SP HC-55 .25- .25 12/05/05
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: G-56-SP HC-56 .25- .25 Location ID: Date/Time Sampled: 12/05/05	G-57-SP HC-57 .25- .25 12/05/05	G-60-SED HC-60 .25- .25 12/05/05	G-61-SED HC-61 .25- .25 12/05/05	G-62-S HC-62 .25- .25 12/05/05	G-67-SED HC-67 .25- .25 7/13/06	G-68-SED HC-68 .25- .25 7/13/06	G-69-SED HC-69 .25- .25 7/13/06	G-70 HC-70 .25- .25 8/02/06	G-71 HC-71 .25- .25 8/02/06	G-72 HC-72 .25- .25 8/02/06	G-73-SED HC-73 .25- .25 8/02/06	G-74-SED HC-74 .25- .25 8/02/06	G-75-SED HC-75 .25- .25 8/02/06	G-76-SED HC-76 .25- .25 8/02/06	G-77-SED HC-77 .25- .25 8/02/06	G-78-SED HC-78 .25- .25 8/02/06	G-79-SED HC-79 .25- .25 8/02/06	G-80-SED HC-80 .25- .25 8/02/06	G-81-SED HC-81 .25- .25 8/02/06	G-82-SED HC-82 .25- .25 8/02/06	G-83-SED HC-83 .25- .25 8/02/06	G-84-SED HC-84 .25- .25 8/02/06	G-85-SED HC-85 .25- .25 8/02/06	HC-01 HC-01 .25- .25 11/16/05	HC-02 HC-02 .25- .25 11/16/05
Chlorinated Pesticides by SW8081A																													
4-Nitrophenol (p-Nitrophenol)	ug/kg		100 U	130 U	500 U	130 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	**50 J**
Alachlor	ug/kg	12,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Aldrin	ug/kg	59	25 U	30 U	**510**	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Alpha-BHC	ug/kg		25 U	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Azinphos-methyl	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		25 U	30 U	125 U	70 UJ	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Bolstar (Sulprofos)	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Chlorpyriphos	ug/kg	240,000	50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Coumaphos	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Delta-BHC	ug/kg		25 U	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Diazinon	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Dichlorvos (DDVP)	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Dieldrin	ug/kg	63	25 U	30 U	**670**	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Dimethoate	ug/kg		100 U	100 U	500 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U
Disulfoton (Di-Syston)	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Endrin	ug/kg		25 U	30 U	125 U	70 UJ	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Endrin Aldehyde	ug/kg		25 U	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Endrin Ketone	ug/kg		25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
EPN	ug/kg		100 U	100 U	500 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U
Ethoprop	ug/kg		50 U	100 U	250 U	1,000 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Fensulfothion	ug/kg		50 U	100 U	250 U	100 UJ	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Fenthion	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Heptachlor	ug/kg	220	25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Heptachlor Epoxide	ug/kg	110	**8 J**	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Lindane (Gamma-BHC)	ug/kg	770	25 U	30 U	125 U	70 UJ	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Malathion	ug/kg		100 U	100 U	500 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U
Merphos	ug/kg		50 U	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	25 U	30 UJ	125 UJ	70 UJ	25 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Methyl Parathion	ug/kg	20,000	50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Mevinphos	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Monocrotophos	ug/kg		100 U	100 U	500 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U
Naled	ug/kg		50 U	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 UJ	50 UJ
Parathion (ethyl)	ug/kg	480,000	50 U	**270 J**	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Phorate	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Ronnel	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Sulfotepp	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Tetrachlorvinphos (Gardona)	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200 U	200 U
Tetraethyl pyrophosphate (TEPP)	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Tokuthion	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		50 U	100 U	250 U	100 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
alpha-Chlordane (cis)	ug/kg		**30 J**	**140**	**540**	**170**	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40 J**	**30 J**
gamma-Chlordane (relic CAS #)	ug/kg		**48**	**160**	**560**	**240**	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**61**	**47**
Chlordane (Total)	ug/kg	2,050	**78 JT**	**300 T**	**1,100 T**	**410 T**	25 UT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**101 JT**	**77 JT**
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
4,4'-DDE	ug/kg	2,900	25 U	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
4,4'-DDD	ug/kg	4,200	25 U	30 U	125 U	70 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U
Total DDT (4,4 isomers)	ug/kg	750	25 UT	30 UT	125 UT	70 UT	25 UT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 UT	25 UT
Endosulfan I	ug/kg		**33**	**33**	**10,700**	**26,900**	**45**	**91,500**	**89,600**	**6,700**	**1,300**	100 U	**3,100**	**91,000**	**61,000**	**13,100**	**38,600**	**24,600**	**61,200**	**36,700**	**66,400**	**27,700**	**300**	**92,200**	**10,900**	**1,300**	**2,600**	**3,080**
Endosulfan II	ug/kg		**140**	**190**	**14,900**	**16,100**	**54**	**58,800**	**56,700**	**11,000**	**770**	100 U	**1,700**	**59,000**	**45,000**	**9,100**	**24,800**	**45,500**	**44,200**	**26,900**	**49,800**	**30,300**	**1,780**	**92,500**	**35,100**	**4,020**	**9,890**	**4,390**
Endosulfan Sulfate	ug/kg		**440**	**410**	**9,500**	**3,090**	**20 J**	**7,700**	**6,600**	**9,700**	**100**	100 U	100 U	**9,900**	**8,600**	**1,200**	**1,480**	**37,500**	**15,900**	**3,200**	**3,090**	**9,820**	**3,940**	**18,500**	**41,600**	**5,660**	**1,950**	**1,910**
Endosulfan (Total)	ug/kg	2,400	**613 T**	**633 T**	**35,100 T**	**46,090 T**	**119 JT**	**158,000 T**	**152,900 T**	**27,400 T**	**2,170 T**	100 UT	**4,850 T**	**159,900 T**	**114,600 T**	**23,400 T**	**64,880 T**	**107,600 T**	**121,300 T**	**66,800 T**	**119,290 T**	**67,820 T**	**6,020 T**	**203,200 T**	**87,600 T**	**10,980 T**	**14,440 T**	**9,380 T**

Analyte	Units	Proposed CleanUp Level	Sample ID: G-56-SP HC-56 .25- .25 Location ID: Date/Time Sampled: 12/05/05	G-57-SP HC-57 .25- .25 12/05/05	G-60-SED HC-60 .25- .25 12/05/05	G-61-SED HC-61 .25- .25 12/05/05	G-62-S HC-62 .25- .25 12/05/05	G-67-SED HC-67 .25- .25 7/13/06	G-68-SED HC-68 .25- .25 7/13/06	G-69-SED HC-69 .25- .25 7/13/06	G-70 HC-70 .25- .25 8/02/06	G-71 HC-71 .25- .25 8/02/06	G-72 HC-72 .25- .25 8/02/06	G-73-SED HC-73 .25- .25 8/02/06	G-74-SED HC-74 .25- .25 8/02/06	G-75-SED HC-75 .25- .25 8/02/06	G-76-SED HC-76 .25- .25 8/02/06	G-77-SED HC-77 .25- .25 8/02/06	G-78-SED HC-78 .25- .25 8/02/06	G-79-SED HC-79 .25- .25 8/02/06	G-80-SED HC-80 .25- .25 8/02/06	G-81-SED HC-81 .25- .25 8/02/06	G-82-SED HC-82 .25- .25 8/02/06	G-83-SED HC-83 .25- .25 8/02/06	G-84-SED HC-84 .25- .25 8/02/06	G-85-SED HC-85 .25- .25 8/02/06	HC-01 HC-01 .25- .25 11/16/05	HC-02 HC-02 .25- .25 11/16/05
Chlorinated Acid Herbicides by SW8151A																													
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
3,5-Dichlorobenzoic Acid	ug/kg		20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Ametryn	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Atraton	ug/kg		50 U	100 U	250 U	60 UJ	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Atrazine	ug/kg	4,500	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Bentazon	ug/kg	2,400,000	30 U	40 U	150 U	40 U	30 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U
Bromacil	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Butachlor	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Butylate	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Chloramben	ug/kg	1,200,000	20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzilate	ug/kg		50 U	100 U	250 U	300 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	50 U
Chloroneb	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Chloropropylate	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Chlorothalonil (Daconil)	ug/kg	91,000	**320**	100 U	**320**	**3,860**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**290**	**60**
Chlorpropham	ug/kg	16,000,000	50 U	100 U	250 U	**110**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
cis-Permethrin	ug/kg		50 U	100 U	250 U	**760**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Cyanazine	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Dicofol	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Diphenamid	ug/kg	2,400,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Eptam	ug/kg	2,000,000	50 U	100 U	250 U	190	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Etridiazole	ug/kg		50 UJ	100 UJ	250 UJ	60 UJ	50 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Hexazinone	ug/kg		50 U	100 U	250 U	60 UJ	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Metolachlor	ug/kg	12,000,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Metribuzin	ug/kg	2,000,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
MGK264	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Molinate	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Napropamide	ug/kg	8,000,000	**170**	**270**	**320**	**380**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Norflurazon	ug/kg		50 U	100 U	250 U	60 UJ	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	50 U
Pebulate	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Picloram	ug/kg		20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Prometon (Pramitol 5p)	ug/kg	1,200,000	**40 J**	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Prometryn	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Pronamide (Kerb)	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Propachlor (Ramrod)	ug/kg		50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Propazine	ug/kg	1,600,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Simazine	ug/kg	8,300	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Simetryn	ug/kg		50 U	100 U	250 U	60 UJ	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Terbacil	ug/kg	1,000,000	50 U	100 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Terbutryn (Igran)	ug/kg	80,000	50 U	100 U	**3,210**	**2,910**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Total DCPA diacid (Chlorthal)	ug/kg		20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
trans-Permethrin	ug/kg		50 U	100 U	250 U	**930**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Triadimefon	ug/kg	480,000	50 U	100 U	250 U	**110 J**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Trichlopyr	ug/kg		20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Trifluralin	ug/kg	130,000	**430 J**	**640**	**2,530**	**4,810**	**540 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**780**	50 U
Vernolate	ug/kg	10,000	50 U	100 U	250 U	**750**	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Dinoseb	ug/kg	524	**300**	**750**	**40 J**	**20 J**	**8 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U
MCPA	ug/kg	40,000	20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
2,4-D	ug/kg	800,000	30 U	40 U	150 U	40 U	30 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U
2,4-DB	ug/kg	640,000	100 U	130 U	500 U	130 U	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U
2,4,5-T	ug/kg	800,000	20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	20 U	30 U	100 U	**20 J**	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Dichlorprop	ug/kg		50 U	60 U	250 U	60 U	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U
Pentachlorophenol	ug/kg	4,500	**26**	**44**	100 U	**170**	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**10 J**	20 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	20 U	30 U	100 U	30 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U
Metals by SW6010/6020																													
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																													
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: G-56-SP HC-56 .25- .25 Location ID: Date/Time Sampled: 12/05/05	G-57-SP HC-57 .25- .25 12/05/05	G-60-SED HC-60 .25- .25 12/05/05	G-61-SED HC-61 .25- .25 12/05/05	G-62-S HC-62 .25- .25 12/05/05	G-67-SED HC-67 .25- .25 7/13/06	G-68-SED HC-68 .25- .25 7/13/06	G-69-SED HC-69 .25- .25 7/13/06	G-70 HC-70 .25- .25 8/02/06	G-71 HC-71 .25- .25 8/02/06	G-72 HC-72 .25- .25 8/02/06	G-73-SED HC-73 .25- .25 8/02/06	G-74-SED HC-74 .25- .25 8/02/06	G-75-SED HC-75 .25- .25 8/02/06	G-76-SED HC-76 .25- .25 8/02/06	G-77-SED HC-77 .25- .25 8/02/06	G-78-SED HC-78 .25- .25 8/02/06	G-79-SED HC-79 .25- .25 8/02/06	G-80-SED HC-80 .25- .25 8/02/06	G-81-SED HC-81 .25- .25 8/02/06	G-82-SED HC-82 .25- .25 8/02/06	G-83-SED HC-83 .25- .25 8/02/06	G-84-SED HC-84 .25- .25 8/02/06	G-85-SED HC-85 .25- .25 8/02/06	HC-01 HC-01 .25- .25 11/16/05	HC-02 HC-02 .25- .25 11/16/05
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-03 Location ID: HC-03 .25- .25 Date/Time Sampled: 11/16/05	HC-04 HC-04 .25- .25 11/16/05	HC-05 HC-05 .25- .25 11/16/05	HC-06 HC-06 .25- .25 11/16/05	HC-07 HC-07 .25- .25 11/16/05	HC-08 HC-08 .25- .25 11/16/05	HC-09 HC-09 .25- .25 11/16/05	HC-10 HC-10 .25- .25 11/16/05	HC-100 HC-100 .25- .25 9/25/06	HC-101 HC-101 .25- .25 9/25/06	HC-102 HC-102 .25- .25 9/25/06	HC-103 HC-103 .25- .25 9/25/06	HC-104 HC-104 .25- .25 9/25/06	HC-105 HC-105 .25- .25 9/25/06	HC-106 HC-106 .25- .25 9/25/06	HC-107 native 107 .25- .25 9/25/06	HC-108 native 108 .25- .25 9/25/06	HC-109 native 109 .25- .25 9/25/06	HC-11 HC-11 .25- .25 11/16/05	HC-110 HC-110 .25- .25 12/07/06	HC-111 HC-111 .25- .25 12/07/06	HC-112 HC-112 .25- .25 12/07/06	HC-113 HC-113 .25- .25 12/07/06	HC-114 HC-114 .25- .25 12/07/06	HC-115 HC-115 .25- .25 12/07/06	HC-116 HC-116 .25- .25 12/07/06
Chlorinated Pesticides by SW8081A																												
4-Nitrophenol (p-Nitrophenol)	ug/kg		100 U	**30 J**	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	1,000 U	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	50 U	50 U	50 U	50 U	50 U	50 U	**50**	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Aldrin	ug/kg	59	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Alpha-BHC	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Azinphos-methyl	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Bolstar (Sulprofos)	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Chlorpyriphos	ug/kg	240,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	**350**	--	--	--	--	--	--	--
Coumaphos	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Delta-BHC	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Diazinon	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Dichlorvos (DDVP)	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Dieldrin	ug/kg	63	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Dimethoate	ug/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	--	--	--
Disulfoton (Di-Syston)	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Endrin	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Endrin Aldehyde	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Endrin Ketone	ug/kg		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
EPN	ug/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	--	--	--
Ethoprop	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Fensulfothion	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Fenthion	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Heptachlor	ug/kg	220	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**43**	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/kg	110	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**81**	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Malathion	ug/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	--	--	--
Merphos	ug/kg		50 U	50 U	50 UJ	50 UJ	50 U	50 U	50 U	50 UJ	--	--	--	--	--	--	--	--	--	--	50 UJ	--	--	--	--	--	--	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Methyl Parathion	ug/kg	20,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Mevinphos	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Monocrotophos	ug/kg		100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--	100 U	--	--	--	--	--	--	--
Naled	ug/kg		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	--	--	--	--	--	--	--	--	--	--	50 UJ	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Phorate	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Ronnel	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Sulfotepp	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Tetraethyl pyrophosphate (TEPP)	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Tokuthion	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	5,000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/kg		**10 J**	**130**	**31**	25 U	25 U	25 U	25 U	**2,490**	--	--	--	--	--	--	--	--	--	--	**30 J**	--	--	--	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		**10 J**	**130**	**31**	**--**	25 U	25 U	25 U	**2,530**	--	--	--	--	--	--	--	--	--	--	**30 J**	--	--	--	--	--	--	--
Chlordane (Total)	ug/kg	2,050	**20 JT**	**260 T**	**62 T**	**--**	25 UT	25 UT	25 UT	**5,020 T**	--	--	--	--	--	--	--	--	--	--	**60 JT**	--	--	--	--	--	--	--
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
4,4'-DDE	ug/kg	2,900	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
4,4'-DDD	ug/kg	4,200	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	25 UT	25 UT	25 UT	25 UT	25 UT	25 UT	25 UT	25 UT	--	--	--	--	--	--	--	--	--	--	25 UT	--	--	--	--	--	--	--
Endosulfan I	ug/kg		**10 J**	**35**	**27**	25 U	25 U	**19 J**	25 U	25 U	200 U	200 U	100 U	100 U	200 U	100 U	100 U	**1,050**	**260**	**250**	**250**	**17,000**	**1,600**	**7,750,000**	**101,000**	**1,600**	**720**	**350**
Endosulfan II	ug/kg		**66**	**140**	**150**	**10 J**	25 U	**140**	**60**	**260**	200 U	200 U	100 U	100 U	200 U	100 U	100 U	**1,200**	**200**	**1,000**	**290**	**22,600**	**4,940**	**3,380,000**	**72,400**	**6,110**	**500 J**	**2,280**
Endosulfan Sulfate	ug/kg		**35**	**73**	**38**	**32 J**	25 U	**190**	**70**	**380**	500 U	200 U	100 U	100 U	500 U	**150**	100 U	**540**	100 U	**1,400**	**76**	**16,500**	**17,500**	**30,000**	**12000**	**8,230**	**3,020**	**13,500**
Endosulfan (Total)	ug/kg	2,400	**111 JT**	**248 T**	**215 T**	**54.5 JT**	25 UT	**349 JT**	**142.5 T**	**652.5 T**	500 UT	200 UT	100 UT	100 UT	500 UT	**250 T**	100 UT	**2,790 T**	**510 T**	**2,650 T**	**616 T**	**56,100 T**	**24,040 T**	**11,160,000 T**	**185,400 T**	**15,940 T**	**4,240 JT**	**16,130 T**

| Analyte | Units | Proposed CleanUp Level | Sample ID: HC-03 .25- .25 | Location ID: HC-03 .25- .25 | Date/Time Sampled: 11/16/05 | HC-04 .25- .25 | HC-04 .25- .25 | 11/16/05 | HC-05 .25- .25 | HC-05 .25- .25 | 11/16/05 | HC-06 .25- .25 | HC-06 .25- .25 | 11/16/05 | HC-07 .25- .25 | HC-07 .25- .25 | 11/16/05 | HC-08 .25- .25 | HC-08 .25- .25 | 11/16/05 | HC-09 .25- .25 | HC-09 .25- .25 | 11/16/05 | HC-10 .25- .25 | HC-10 .25- .25 | 11/16/05 | HC-100 .25- .25 | HC-100 .25- .25 | 9/25/06 | HC-101 .25- .25 | HC-101 .25- .25 | 9/25/06 | HC-102 .25- .25 | HC-102 .25- .25 | 9/25/06 | HC-103 .25- .25 | HC-103 .25- .25 | 9/25/06 | HC-104 .25- .25 | HC-104 .25- .25 | 9/25/06 | HC-105 .25- .25 | HC-105 .25- .25 | 9/25/06 | HC-106 .25- .25 | HC-106 .25- .25 | 9/25/06 | HC-107 native 107 .25- .25 | HC-107 native 107 .25- .25 | 9/25/06 | HC-108 native 108 .25- .25 | HC-108 native 108 .25- .25 | 9/25/06 | HC-109 native 109 .25- .25 | HC-109 native 109 .25- .25 | 9/25/06 | HC-11 .25- .25 | HC-11 .25- .25 | 11/16/05 | HC-110 .25- .25 | HC-110 .25- .25 | 12/07/06 | HC-111 .25- .25 | HC-111 .25- .25 | 12/07/06 | HC-112 .25- .25 | HC-112 .25- .25 | 12/07/06 | HC-113 .25- .25 | HC-113 .25- .25 | 12/07/06 | HC-114 .25- .25 | HC-114 .25- .25 | 12/07/06 | HC-115 .25- .25 | HC-115 .25- .25 | 12/07/06 | HC-116 .25- .25 | HC-116 .25- .25 | 12/07/06 |
|---|---|---

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-03 Location ID: HC-03 Date/Time Sampled: .25- .25 11/16/05	HC-04 HC-04 .25- .25 11/16/05	HC-05 HC-05 .25- .25 11/16/05	HC-06 HC-06 .25- .25 11/16/05	HC-07 HC-07 .25- .25 11/16/05	HC-08 HC-08 .25- .25 11/16/05	HC-09 HC-09 .25- .25 11/16/05	HC-10 HC-10 .25- .25 11/16/05	HC-100 HC-100 .25- .25 9/25/06	HC-101 HC-101 .25- .25 9/25/06	HC-102 HC-102 .25- .25 9/25/06	HC-103 HC-103 .25- .25 9/25/06	HC-104 HC-104 .25- .25 9/25/06	HC-105 HC-105 .25- .25 9/25/06	HC-106 HC-106 .25- .25 9/25/06	HC-107 native 107 .25- .25 9/25/06	HC-108 native 108 .25- .25 9/25/06	HC-109 native 109 .25- .25 9/25/06	HC-11 HC-11 .25- .25 11/16/05	HC-110 HC-110 .25- .25 12/07/06	HC-111 HC-111 .25- .25 12/07/06	HC-112 HC-112 .25- .25 12/07/06	HC-113 HC-113 .25- .25 12/07/06	HC-114 HC-114 .25- .25 12/07/06	HC-115 HC-115 .25- .25 12/07/06	HC-116 HC-116 .25- .25 12/07/06
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-117 Location ID: HC-117 Date/Time Sampled: .25- .25 12/07/06	HC-118 HC-118 .25- .25 12/07/06	HC-119 HC-119 .25- .25 12/07/06	HC-12 HC-12 .25- .25 11/16/05	HC-120 HC-120 .25- .25 12/07/06	HC-121 HC-121 .25- .25 12/07/06	HC-122 HC-122 .25- .25 12/07/06	HC-123 HC-123 .25- .25 12/07/06	HC-124 HC-124 .25- .25 12/07/06	HC-125 HC-125 .25- .25 12/07/06	HC-126 HC-126 .25- .25 12/07/06	HC-127 HC-127 .25- .25 12/07/06	HC-128 HC-128 .25- .25 12/07/06	HC-129 HC-129 .25- .25 12/07/06	HC-130 HC-130 .25- .25 12/07/06	HC-131 HC-131 .25- .25 12/07/06	HC-132 HC-132 .25- .25 12/07/06	HC-133 HC-133 .25- .25 2/16/07	HC-135 HC-135 .25- .25 2/16/07	HC-136 HC-136 .25- .25 2/16/07	HC-137 HC-137 .25- .25 2/16/07	HC-139 HC-139 .25- .25 2/16/07	HC-141 HC-141 .25- .25 2/16/07	HC-143 HC-143 .25- .25 2/16/07	HC-145 HC-145 .25- .25 2/16/07	HC-147 HC-147 .25- .25 2/16/07
Chlorinated Pesticides by SW8081A																													
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	1,000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	**4,450**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alpha-BHC	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Azinphos-methyl	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bolstar (Sulprofos)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpyriphos	ug/kg	240,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Coumaphos	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diazinon	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorvos (DDVP)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/kg	63	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethoate	ug/kg		--	--	--	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Disulfoton (Di-Syston)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Ketone	ug/kg		--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EPN	ug/kg		--	--	--	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethoprop	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fensulfothion	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fenthion	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/kg	220	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Malathion	ug/kg		--	--	--	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Merphos	ug/kg		--	--	--	50 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mevinphos	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monocrotophos	ug/kg		--	--	--	100 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naled	ug/kg		--	--	--	50 UJ	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phorate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ronnel	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfotepp	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetraethyl pyrophosphate (TEPP)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tokuthion	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/kg		--	--	--	**230**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	**210**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	--	**440 T**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	--	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	25 UT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/kg		400 U	**9,700**	**36,900**	**1,290**	400 U	300 U	300 U	900 U	400 U	400 U	600 U	800 U	500 U	500 U	500 U	700 U	1,000 U	400 U	300 U	400 U	500 U	500 U	400 U	500 U	600 U	500 U
Endosulfan II	ug/kg		400 U	**16,800**	**47,900**	**1,960**	400 U	300 U	300 U	900 U	**570**	400 U	600 U	800 U	500 U	500 U	500 U	700 U	1,000 U	400 U	300 U	400 U	500 U	500 U	400 U	500 U	600 U	500 U
Endosulfan Sulfate	ug/kg		400 U	**50,700**	**81,200**	**71**	**1,500**	**450**	**100 J**	900 U	**4,380**	**2,600**	**2,300**	**4,100**	**970**	500 U	**1,600**	**1,700**	1,000 U	400 U	300 U	400 U	**300**	500 U	400 U	**1,400**	600 U	500 U
Endosulfan (Total)	ug/kg	2,400	400 UT	**77,200 T**	**166,000 T**	**3,321 T**	**1,900 T**	**750 T**	**400 JT**	900 UT	**5,150 T**	**3,000 T**	**2,900 T**	**4,900 T**	**1,470 T**	500 UT	**2,100 T**	**2,400 T**	1,000 UT	400 UT	300 UT	400 UT	**800 T**	500 UT	400 UT	**1,900 T**	600 UT	500 UT

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-117 Location ID: HC-117 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-118 Location ID: HC-118 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-119 Location ID: HC-119 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-12 Location ID: HC-12 .25- .25 Date/Time Sampled: 11/16/05	Sample ID: HC-120 Location ID: HC-120 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-121 Location ID: HC-121 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-122 Location ID: HC-122 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-123 Location ID: HC-123 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-124 Location ID: HC-124 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-125 Location ID: HC-125 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-126 Location ID: HC-126 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-127 Location ID: HC-127 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-128 Location ID: HC-128 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-129 Location ID: HC-129 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-130 Location ID: HC-130 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-131 Location ID: HC-131 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-132 Location ID: HC-132 .25- .25 Date/Time Sampled: 12/07/06	Sample ID: HC-133 Location ID: HC-133 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-135 Location ID: HC-135 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-136 Location ID: HC-136 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-137 Location ID: HC-137 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-139 Location ID: HC-139 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-141 Location ID: HC-141 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-143 Location ID: HC-143 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-145 Location ID: HC-145 .25- .25 Date/Time Sampled: 2/16/07	Sample ID: HC-147 Location ID: HC-147 .25- .25 Date/Time Sampled: 2/16/07
Chlorinated Acid Herbicides by SW8151A																																		
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ametryn	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atraton	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	**11,500**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	300 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromacil	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butachlor	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzilate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroneb	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloropropylate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	**82**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	**110**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Permethrin	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanazine	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicofol	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Etridiazole	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexazinone	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	**4,140**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MGK264	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molinate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	**2,010**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norflurazon	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pebulate	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Picloram	ug/kg		--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	**710**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometryn	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pronamide (Kerb)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propachlor (Ramrod)	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	**440**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	**6,030**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simetryn	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	**7,770**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	**7,250**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	**26,700**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	50 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	**126,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPA	ug/kg	40,000	--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-D	ug/kg	800,000	--	--	--	300 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-DB	ug/kg	640,000	--	--	--	1,000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-T	ug/kg	800,000	--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorprop	ug/kg		--	--	--	500 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	4,500	--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals by SW6010/6020																																		
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																																		
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-117 Location ID: HC-117 Date/Time Sampled: .25- .25 12/07/06	HC-118 HC-118 .25- .25 12/07/06	HC-119 HC-119 .25- .25 12/07/06	HC-12 HC-12 .25- .25 11/16/05	HC-120 HC-120 .25- .25 12/07/06	HC-121 HC-121 .25- .25 12/07/06	HC-122 HC-122 .25- .25 12/07/06	HC-123 HC-123 .25- .25 12/07/06	HC-124 HC-124 .25- .25 12/07/06	HC-125 HC-125 .25- .25 12/07/06	HC-126 HC-126 .25- .25 12/07/06	HC-127 HC-127 .25- .25 12/07/06	HC-128 HC-128 .25- .25 12/07/06	HC-129 HC-129 .25- .25 12/07/06	HC-130 HC-130 .25- .25 12/07/06	HC-131 HC-131 .25- .25 12/07/06	HC-132 HC-132 .25- .25 12/07/06	HC-133 HC-133 .25- .25 2/16/07	HC-135 HC-135 .25- .25 2/16/07	HC-136 HC-136 .25- .25 2/16/07	HC-137 HC-137 .25- .25 2/16/07	HC-139 HC-139 .25- .25 2/16/07	HC-141 HC-141 .25- .25 2/16/07	HC-143 HC-143 .25- .25 2/16/07	HC-145 HC-145 .25- .25 2/16/07	HC-147 HC-147 .25- .25 2/16/07
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-148 Location ID: HC-148 Date/Time Sampled: .25-.25 2/16/07	HC-149 HC-149 .25-.25 2/16/07	HC-150 HC-150 .25-.25 2/16/07	HC-151 HC-151 .25-.25 2/16/07	HC-152 HC-152 .25-.25 3/23/07	HC-153 HC-153 .25-.25 3/23/07	HC-154 HC-154 .25-.25 3/23/07	HC-155 HC-155 .25-.25 3/23/07	HC-157 HC-157 .25-.25 3/23/07	HC-158 HC-158 .25-.25 3/23/07	HC-159 HC-159 .25-.25 3/23/07	HC-160 HC-160 .25-.25 3/23/07	HC-161 HC-161 .25-.25 3/23/07	HC-25A HC-25ABC .25-.25 11/16/05	HC-25B HC-25ABC 1-1 11/16/05	HC-25C HC-25ABC 2-2 11/16/05	HC-86 HC-86 .25-.25 9/07/06	HC-87 HC-87 .25-.25 9/07/06	HC-88 HC-88 .25-.25 9/07/06	HC-89 HC-89 .25-.25 9/07/06
Chlorinated Pesticides by SW8081A																						
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Aldrin	ug/kg	59	--	--	--	--	--	--	--	--	--	--	--	--	--	**120**	25 U	25 U	--	--	--	--
Alpha-BHC	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Azinphos-methyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Bolstar (Sulprofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Chlorpyriphos	ug/kg	240,000	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Coumaphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Delta-BHC	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Diazinon	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Dichlorvos (DDVP)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Dieldrin	ug/kg	63	--	--	--	--	--	--	--	--	--	--	--	--	--	**100 J**	25 U	25 U	--	--	--	--
Dimethoate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Disulfoton (Di-Syston)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Endrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Endrin Aldehyde	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Endrin Ketone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
EPN	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Ethoprop	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Fensulfothion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Fenthion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Heptachlor	ug/kg	220	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Malathion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Merphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	50 UJ	50 UJ	--	--	--	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Mevinphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Monocrotophos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Naled	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 UJ	50 UJ	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**310 J**	50 U	50 U	--	--	--	--
Phorate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Ronnel	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Sulfotepp	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	50 U	50 U	--	--	--	--
Tetraethyl pyrophosphate (TEPP)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Tokuthion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
alpha-Chlordane (cis)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	--	--	--	--	--	--	--	--	--	--	--	25 UT	25 UT	25 UT	--	--	--	--
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	--	--	--	**100**	25 U	25 U	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	--	--	--	--	--	--	--	--	--	--	**125 T**	25 UT	25 UT	--	--	--	--
Endosulfan I	ug/kg		400 U	600 U	**27,100**	**3,700**	**325,000**	**22,000**	100 U	**1,600**	300 U	**1,400**	**3,140**	**12,600**	700 U	**8,200**	**10 J**	**140**	**3,200**	250 U	250 U	**300**
Endosulfan II	ug/kg		400 U	600 U	**21,000**	**4,400**	**230,000**	**37,000**	100 U	**1,800**	300 U	**3,710**	**6,210**	**13,400**	**1,300**	**9,750**	**10 J**	**170**	**3,400**	250 U	250 U	**200 J**
Endosulfan Sulfate	ug/kg		400 U	600 U	**4,300**	**8,730**	**25,000**	**34,000**	**300**	**2,150**	**200**	**6,050**	**11,500**	**10,300**	**4,800**	**2,560**	25 U	**25 J**	**200 J**	250 U	250 U	300 U
Endosulfan (Total)	ug/kg	2,400	400 UT	600 UT	**52,400 T**	**16,830 T**	**580,000 T**	**93,000 T**	**400 T**	**5,550 T**	**500 T**	**11,160 T**	**20,850 T**	**36,300 T**	**6,450 T**	**20,510 T**	**32.5 JT**	**335 JT**	**6,800 JT**	250 UT	250 UT	**650 JT**

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-148 Location ID: HC-148 Date/Time Sampled: .25-.25 2/16/07	HC-149 HC-149 .25-.25 2/16/07	HC-150 HC-150 .25-.25 2/16/07	HC-151 HC-151 .25-.25 2/16/07	HC-152 HC-152 .25-.25 3/23/07	HC-153 HC-153 .25-.25 3/23/07	HC-154 HC-154 .25-.25 3/23/07	HC-155 HC-155 .25-.25 3/23/07	HC-157 HC-157 .25-.25 3/23/07	HC-158 HC-158 .25-.25 3/23/07	HC-159 HC-159 .25-.25 3/23/07	HC-160 HC-160 .25-.25 3/23/07	HC-161 HC-161 .25-.25 3/23/07	HC-25A HC-25ABC .25-.25 11/16/05	HC-25B HC-25ABC 1-1 11/16/05	HC-25C HC-25ABC 2-2 11/16/05	HC-86 HC-86 .25-.25 9/07/06	HC-87 HC-87 .25-.25 9/07/06	HC-88 HC-88 .25-.25 9/07/06	HC-89 HC-89 .25-.25 9/07/06
Chlorinated Acid Herbicides by SW8151A																						
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Ametryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Atraton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
Bromacil	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	2,500 U	60 U	--	--	--	--
Butachlor	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Butylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	--	--	--	--
Chlorobenzilate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	100 U	60 U	--	--	--	--
Chloroneb	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Chloropropylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**19,500**	100 U	**140**	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**73**	100 U	60 U	--	--	--	--
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Cyanazine	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	**1,520**	100 U	60 U	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Etridiazole	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Hexazinone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
MGK264	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Molinate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**98**	100 U	60 U	--	--	--	--
Norflurazon	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	5,000 U	100 U	60 U	--	--	--	--
Pebulate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Picloram	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Prometryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Pronamide (Kerb)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Propachlor (Ramrod)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Simetryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,600**	100 U	60 U	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,210**	100 U	60 U	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	--	--	--	--	--	**76**	100 U	60 U	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
MCPA	ug/kg	40,000	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
2,4-D	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
2,4-DB	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Dichlorprop	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Pentachlorophenol	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	**140**	20 U	20 U	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Metals by SW6010/6020																						
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																						
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Sample ID: Location ID: Date/Time Sampled: Proposed CleanUp Level	HC-148 HC-148 .25- .25 2/16/07	HC-149 HC-149 .25- .25 2/16/07	HC-150 HC-150 .25- .25 2/16/07	HC-151 HC-151 .25- .25 2/16/07	HC-152 HC-152 .25- .25 3/23/07	HC-153 HC-153 .25- .25 3/23/07	HC-154 HC-154 .25- .25 3/23/07	HC-155 HC-155 .25- .25 3/23/07	HC-157 HC-157 .25- .25 3/23/07	HC-158 HC-158 .25- .25 3/23/07	HC-159 HC-159 .25- .25 3/23/07	HC-160 HC-160 .25- .25 3/23/07	HC-161 HC-161 .25- .25 3/23/07	HC-25A HC-25ABC .25- .25 11/16/05	HC-25B HC-25ABC 1- 1 11/16/05	HC-25C HC-25ABC 2- 2 11/16/05	HC-86 HC-86 .25- .25 9/07/06	HC-87 HC-87 .25- .25 9/07/06	HC-88 HC-88 .25- .25 9/07/06	HC-89 HC-89 .25- .25 9/07/06
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-90 Location ID: HC-90 Date/Time Sampled: .25- .25 9/07/06	HC-91 HC-91 .25- .25 9/25/06	HC-92 HC-92 .25- .25 9/25/06	HC-93 HC-93 .25- .25 9/25/06	N-1,2,3,5-COMPOSITE N3&N8 1- 1 2/23/05	N6-10 N3&N8 2- 2 2/23/05	NS-64 HC-64 .25- .25 2/23/06	NS-65 HC-65 .25- .25 2/23/06	NS-66 HC-66 .25- .25 2/23/06	S-10 S5&S10 2- 2 5/23/05	S1-5 S3&S8 1- 1 5/23/05	S-6 S1&S6 2- 2 5/23/05	S6-10 S3&S8 2- 2 5/23/05	S-7 S2&S7 2- 2 5/23/05	S-8 S3&S8 2- 2 5/23/05	S-9 S4&S9 2- 2 5/23/05	SP-COMP SPCOMP 4/20/01	SS-10-6" SS-10 .5- .5 4/20/01	SS-11-6" SS-11 .5- .5 4/20/01	SS-12-6" SS-12 .5- .5 4/20/01	SS-13 SS-13 .5- .5 1/07/04	SS-14 SS-14 .5- .5 1/08/04	SS-15 SS-15 .5- .5 1/08/04	SS-1-6" SS-1 .5- .5 4/20/01	SS-16 SS-16 .5- .5 1/08/04
Chlorinated Pesticides by SW8081A																											
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	--	--	--	--	100 U	100 U	70 U	90 U	50 U	--	100 U	--	100 U	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
Alpha-BHC	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	5.5 U	5.5 U	0.5 U	5.5 U	--	--	--	0.5 U	--
Azinphos-methyl	ug/kg		--	--	--	--	100 U	100 U	--	--	--	--	100 U	--	100 U	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Benomyl (Benlate)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,000 U	5,000 U	5,000 U	--	5,000 U
Beta-BHC	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	9.9 U	9.9 U	0.9 U	9.9 U	--	--	--	0.9 U	--
Bolstar (Sulprofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Chlorpyriphos	ug/kg	240,000	--	--	--	--	100 U	100 U	--	--	--	--	100 U	--	100 U	--	--	--	100 U	400 U	100 U	200 U	--	--	--	40 U	--
Coumaphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Delta-BHC	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	6.6 U	6.6 U	0.6 U	6.6 U	--	--	--	0.6 U	--
Demeton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Demeton-S	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diazinon	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Dichlorvos (DDVP)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Dieldrin	ug/kg	63	--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	22 U	22 U	**2**	22 U	--	--	--	2 U	--
Dimethoate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	500 U	500 U	--	500 U
Disulfoton (Di-Syston)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	22 U	22 U	2 U	22 U	--	--	--	2 U	--
Endrin Aldehyde	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	22 U	22 U	2 U	22 U	--	--	--	2 U	--
Endrin Ketone	ug/kg		--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	22 U	22 U	2 U	22 U	--	--	--	2 U	--
EPN	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Ethoprop	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Fensulfothion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Fenthion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Heptachlor	ug/kg	220	--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
Heptachlor Epoxide	ug/kg	110	--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
Malathion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Merphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methomyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,000 U	5,000 U	5,000 U	--	5,000 U
Methoxychlor	ug/kg	400,000	--	--	--	--	--	--	**210**	90 UJ	50 U	--	--	--	--	--	--	--	44 U	44 U	4 U	44 U	--	--	--	4 U	--
Methyl Parathion	ug/kg	20,000	--	--	--	--	20 U	20 U	--	--	--	--	20 U	--	20 U	--	--	--	100 U	**118**	100 U	200 U	--	--	--	40 U	--
Mevinphos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Monocrotophos	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naled	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**125**	**71.8**	100 U	200 U	--	--	--	40 U	--
Phorate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Ronnel	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Sulfotepp	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Tetraethyl pyrophosphate (TEPP)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tokuthion	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tokuthion (Prothiofos)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	550 U	550 U	50 U	550 U	--	--	--	50 U	--
Trichloronate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	40 U	100 U	200 U	--	--	--	40 U	--
alpha-Chlordane (cis)	ug/kg		--	--	--	--	100 U	100 U	**94**	**70 J**	50 U	--	100 U	--	100 U	--	--	--	8.8 U	8.8 U	**15.3**	8.8 U	--	--	--	**1.59**	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	--	100 U	100 U	**110**	**70 J**	50 U	--	100 U	--	100 U	--	--	--	**13.3**	**55.2**	**6.49**	**484**	--	--	--	**1.19**	--
Chlordane (Total)	ug/kg	2,050	--	--	--	--	100 UT	100 UT	**204 T**	**140 JT**	50 UT	--	100 UT	--	100 UT	--	--	--	**17.7 T**	**59.6 T**	**21.79 T**	**488.4 T**	--	--	--	**2.78 T**	--
Chlordane, technical	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
4,4'-DDT	ug/kg	2,900	--	--	--	--	100 U	100 U	**60 J**	90 UJ	50 U	--	100 U	--	100 U	--	--	--	**31.5**	**18.5**	**4.83**	11 U	--	--	--	**3.91**	--
4,4'-DDE	ug/kg	2,900	--	--	--	--	100 U	100 U	70 U	90 U	50 U	--	100 U	--	100 U	--	--	--	11 U	11 U	**3.5**	**138**	--	--	--	**4.34**	--
4,4'-DDD	ug/kg	4,200	--	--	--	--	--	--	70 U	90 U	50 U	--	--	--	--	--	--	--	11 U	11 U	1 U	11 U	--	--	--	1 U	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	--	100 UT	100 UT	**130 JT**	90 UT	50 UT	--	100 UT	--	100 UT	--	--	--	**42.5 T**	**29.5 T**	**8.83 T**	**149 T**	--	--	--	**8.75 T**	--
Endosulfan I	ug/kg		**100 J**	100 U	600 U	200 U	20 U	20 U	**1,830**	**300**	50 U	--	20 U	--	20 U	--	--	--	**1,310**	**752**	**35.2**	**249,000**	--	--	--	**6.59**	--
Endosulfan II	ug/kg		**60 J**	100 U	100 U	200 U	20 U	20 U	**6,800**	**1,620**	**88**	--	20 U	--	20 U	--	--	--	**2,920**	**673**	**10.5**	**89,700**	--	--	--	**29.6**	--
Endosulfan Sulfate	ug/kg		300 U	100 U	100 U	**710**	20 U	20 U	**6,210**	**1,310**	**65**	--	20 U	--	20 U	--	--	--	**2,040**	**112**	**79.8**	**386**	--	--	--	**161**	--
Endosulfan (Total)	ug/kg	2,400	**310 JT**	100 UT	600 UT	**910 T**	20 UT	20 UT	**14,840 T**	**3,230 T**	**178 T**	--	20 UT	--	20 UT	--	--	--	**6,270 T**	**1,537 T**	**125.5 T**	**339,086 T**	--	--	--	**197.2 T**	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-90 Location ID: HC-90 Date/Time Sampled: 9/07/06 .25-.25	HC-91 HC-91 9/25/06 .25-.25	HC-92 HC-92 9/25/06 .25-.25	HC-93 HC-93 9/25/06 .25-.25	N-1,2,3,5-COMPOSITE N3&N8 1-1 2/23/05	N6-10 N3&N8 2-2 2/23/05	NS-64 HC-64 2/23/06 .25-.25	NS-65 HC-65 2/23/06 .25-.25	NS-66 HC-66 2/23/06 .25-.25	S-10 S5&S10 2-2 5/23/05	S1-5 S3&S8 1-1 5/23/05	S-6 S1&S6 2-2 5/23/05	S6-10 S3&S8 2-2 5/23/05	S-7 S2&S7 2-2 5/23/05	S-8 S3&S8 2-2 5/23/05	S-9 S4&S9 2-2 5/23/05	SP-COMP SPCOMP 4/20/01	SS-10-6" SS-10 .5-.5 4/20/01	SS-11-6" SS-11 .5-.5 4/20/01	SS-12-6" SS-12 .5-.5 4/20/01	SS-13 SS-13 .5-.5 1/07/04	SS-14 SS-14 .5-.5 1/08/04	SS-15 SS-15 .5-.5 1/08/04	SS-1-6" SS-1 .5-.5 4/20/01	SS-16 SS-16 .5-.5 1/08/04
Chlorinated Acid Herbicides by SW8151A																											
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	--	20 U	10,000 U	--	--	--	--	30 U	--	30 U	--	--	--	5,000 U	21,000 U	1,000 U	5,000 U	--	--	--	1,000 U	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ametryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atraton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromacil	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butachlor	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzilate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroneb	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloropropylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	**72,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanazine	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Etridiazole	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexazinone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MGK264	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molinate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norflurazon	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pebulate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Picloram	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pronamide (Kerb)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propachlor (Ramrod)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simetryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	**180**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	--	20 U	10 U	--	--	--	**150**	60 U	30 U	60 U	30 U	30 U	30 U	**98.1**	**2,150**	10 U	**377**	--	--	--	10 U	--
MCPA	ug/kg	40,000	--	--	--	--	20 U	10,000 U	--	--	--	--	30 U	--	30 U	--	--	--	5,000 U	21,000 U	1,000 U	5,000 U	--	--	--	1,000 U	--
2,4-D	ug/kg	800,000	--	--	--	--	20 U	100 U	--	--	--	--	60 U	--	60 U	--	--	--	200 U	840 U	40 U	200 U	--	--	--	40 U	--
2,4-DB	ug/kg	640,000	--	--	--	--	50 U	10 U	--	--	--	--	200 U	--	200 U	--	--	--	100 U	420 U	20 U	100 U	--	--	--	20 U	--
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250 U	1050 U	50 U	250 U	--	--	--	50 U	--
Dalapon (DPA)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250 U	1,050 U	50 U	250 U	--	--	--	50 U	--
Dicamba	ug/kg	2,200	--	--	--	--	20 U	100 U	--	--	--	--	30 U	--	30 U	--	--	--	100 U	420 U	20 U	100 U	--	--	--	20 U	--
Dichlorprop	ug/kg		--	--	--	--	20 U	10 U	--	--	--	--	90 U	--	90 U	--	--	--	50 U	210 U	10 U	50 U	--	--	--	10 U	--
Pentachlorophenol	ug/kg	4,500	--	--	--	--	20 U	100 U	--	--	--	--	30 U	--	30 U	--	--	--	200 U	840 U	40 U	200 U	--	--	--	**111**	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250 U	1,050 U	50 U	250 U	--	--	--	50 U	--
Metals by SW6010/6020																											
Arsenic	mg/kg	20	--	--	--	--	**1.31**	**6.1**	--	--	--	**3**	1.2 U	**6.1**	**1.4**	**4.5**	**5.1**	**7.2**	--	--	--	--	**3.44**	**3.6**	**1.79**	--	**5.24**
Volatile Organic Compounds by SW8260																											
1,1,1,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,1,2-Trichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,1-Dichloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,1-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2,3-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--

Analyte	Units	Proposed CleanUp Level	Sample ID: HC-90 Location ID: .25-.25 Date/Time Sampled: 9/07/06	HC-91 .25-.25 9/25/06	HC-92 .25-.25 9/25/06	HC-93 .25-.25 9/25/06	N-1,2,3,5-COMPOSITE N3&N8 1-1 2/23/05	N6-10 N3&N8 2-2 2/23/05	NS-64 HC-64 .25-.25 2/23/06	NS-65 HC-65 .25-.25 2/23/06	NS-66 HC-66 .25-.25 2/23/06	S-10 S5&S10 2-2 5/23/05	S1-5 S3&S8 1-1 5/23/05	S-6 S1&S6 2-2 5/23/05	S6-10 S3&S8 2-2 5/23/05	S-7 S2&S7 2-2 5/23/05	S-8 S3&S8 2-2 5/23/05	S-9 S4&S9 2-2 5/23/05	SP-COMP SPCOMP 4/20/01	SS-10-6" SS-10 .5-.5 4/20/01	SS-11-6" SS-11 .5-.5 4/20/01	SS-12-6" SS-12 .5-.5 4/20/01	SS-13 SS-13 .5-.5 1/07/04	SS-14 SS-14 .5-.5 1/08/04	SS-15 SS-15 .5-.5 1/08/04	SS-1-6" SS-1 .5-.5 4/20/01	SS-16 SS-16 .5-.5 1/08/04
1,2,3-Trichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2,4-Trichlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	500 U	500 U	500 U	--	--	--	500 U	--
1,2-dibromoethane (EDB)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,3-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
2,2-Dichloropropane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
2-Butanone (MEK)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	1,000 U	--
2-Chlorotoluene	ug/kg	2,060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
2-Hexanone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	1,000 U	--
4-Chlorotoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	1,000 U	--
Acetone	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	1,000 U	--
Benzene	ug/kg	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Bromobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Bromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Bromoform (Tribromomethane)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Bromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Carbon Disulfide	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Carbon Tetrachloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Chlorobenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Chloroethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Chloroform	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Chloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	500 U	500 U	500 U	500 U	--	--	--	500 U	--
Cis-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Cis-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Dibromochloromethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Dibromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Dichlorobromomethane	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Ethylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Isopropylbenzene (Cumene)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Methylene Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	1,000 U	--
Naphthalene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
n-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
n-Propylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
p-Isopropyltoluene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Sec-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Styrene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Tert-Butylbenzene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Tetrachloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Toluene	ug/kg	6,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Trans-1,2-Dichloroethene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Trans-1,3-Dichloropropene	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Trichloroethene (TCE)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Vinyl Chloride	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--
Xylene, m-,p-	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200 U	200 U	200 U	200 U	--	--	--	200 U	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	--	--	--	100 U	--

Analyte	Units	Proposed CleanUp Level	Sample ID: SS-17 Location ID: SS-17 Date/Time Sampled: .5- .5 1/08/04	SS-18 SS-18 .5- .5 1/08/04	SS-2-6" SS-2 .5- .5 4/20/01	SS-3-6" SS-3 .5- .5 4/20/01	SS-4-6" SS-4 .5- .5 4/20/01	SS-5-6" SS-5 .5- .5 4/20/01	SS-6-6" SS-6 .5- .5 4/20/01	SS-7-6" SS-7 .5- .5 4/20/01	SS-8-6" SS-8 .5- .5 4/20/01	SS-9-6" SS-9 .5- .5 4/20/01	TP1-1.5 TP1 1.5- 1.5 8/07/00	TP2-1.5 TP2 1.5- 1.5 8/07/00	TP3-1.5 TP3 1.5- 1.5 8/07/00	TP4-1.5 TP4 1.5- 1.5 8/07/00	TP5-1.5 TP5 1.5- 1.5 8/07/00	TP6-1.5 TP6 1.5- 1.5 8/07/00	TP7-1.5 TP7 1.5- 1.5 8/07/00
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	--	--	22.9 U	11 U	11 U	**136**	5 U	**307**	**1.63**	1 U	--	--	--	--	--	--	--
Alpha-BHC	ug/kg		--	--	11.4 U	5.5 U	5.5 U	5.5 U	2.5 U	10.5 U	0.5 U	0.5 U	--	--	--	--	--	--	--
Azinphos-methyl	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	**340,000**	61 U	61 U	61 U	61 U	61 U
Benomyl (Benlate)	ug/kg		5,000 U	5,000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beta-BHC	ug/kg		--	--	20.6 U	9.9 U	9.9 U	9.9 U	4.5 U	18.9 U	0.9 U	0.9 U	--	--	--	--	--	--	--
Bolstar (Sulprofos)	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Chlorpyriphos	ug/kg	240,000	--	--	200 U	40 U	40 U	**3,830**	200 U	100 U	100 U	40 U	61 U	**430**	61 U	61 U	61 U	61 U	**13,000**
Coumaphos	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Delta-BHC	ug/kg		--	--	13.7 U	6.6 U	6.6 U	6.6 U	3 U	12.6 U	0.6 U	0.6 U	--	--	--	--	--	--	--
Demeton	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	--	--	--	--	--	--	--
Demeton-S	ug/kg		--	--	--	--	--	--	--	--	--	--	120 U	100 U	110 U	120 U	130 U	120 U	130 U
Diazinon	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
Dichlorvos (DDVP)	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Dieldrin	ug/kg	63	--	--	45.7 U	22 U	22 U	22 U	10 U	42 U	2 U	2 U	--	--	--	--	--	--	--
Dimethoate	ug/kg		500 U	500 U	--	--	--	--	--	--	--	--	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Disulfoton (Di-Syston)	ug/kg		--	--	--	--	--	--	--	--	--	--	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Endrin	ug/kg		--	--	45.7 U	22 U	22 U	22 U	10 U	42 U	2 U	2 U	--	--	--	--	--	--	--
Endrin Aldehyde	ug/kg		--	--	45.7 U	22 U	22 U	22 U	10 U	42 U	2 U	2 U	--	--	--	--	--	--	--
Endrin Ketone	ug/kg		--	--	45.7 U	22 U	22 U	22 U	10 U	42 U	2 U	2 U	--	--	--	--	--	--	--
EPN	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Ethoprop	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Fensulfothion	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Fenthion	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Heptachlor	ug/kg	220	--	--	22.9 U	11 U	11 U	11 U	5 U	21 U	1 U	1 U	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	22.9 U	11 U	11 U	11 U	5 U	21 U	1 U	1 U	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	22.9 U	11 U	11 U	11 U	5 U	21 U	1 U	1 U	--	--	--	--	--	--	--
Malathion	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Merphos	ug/kg		--	--	--	--	--	--	--	--	--	--	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Methomyl	ug/kg		5,000 U	5,000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	91.4 U	44 U	44 U	44 U	20 U	84 U	4 U	4 U	--	--	--	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	61 U	61 U	61 U	61 U	61 U	61 U
Mevinphos	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	36 U	36 U	36 U	36 U	36 U	36 U
Monocrotophos	ug/kg		--	--	--	--	--	--	--	--	--	--	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Naled	ug/kg		--	--	--	--	--	--	--	--	--	--	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Parathion (ethyl)	ug/kg	480,000	--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	61 U	61 U	61 U	61 U	61 U	61 U
Phorate	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Ronnel	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	61 U	52 U	57 U	60 U	64 U	61 U	64 U
Sulfotepp	ug/kg		--	--	--	--	--	--	--	--	--	--	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Tetrachlorvinphos (Gardona)	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Tetraethyl pyrophosphate (TEPP)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tokuthion	ug/kg		--	--	--	--	--	--	--	--	--	--	36 U	31 U	34 U	36 U	38 U	36 U	39 U
Tokuthion (Prothiofos)	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	1,140 U	550 U	550 U	550 U	250 U	1,050 U	50 U	50 U	--	--	--	--	--	--	--
Trichloronate	ug/kg		--	--	200 U	40 U	40 U	200 U	200 U	100 U	100 U	40 U	36 U	31 U	34 U	36 U	38 U	36 U	39 U
alpha-Chlordane (cis)	ug/kg		--	--	18.3 U	8.8 U	8.8 U	8.8 U	4 U	16.8 U	**3.56**	0.8 U	--	--	--	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	**33.6**	7.7 U	**21.8**	**140**	**220**	**223**	**14.2**	**16**	--	--	--	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	**42.75 T**	8.8 UT	**26.2 T**	**144.4 T**	**222 T**	**231.4 T**	**17.76 T**	**16.4 T**	--	--	--	--	--	--	--
Chlordane, technical	ug/kg		--	--	22.9 U	11 U	11 U	11 U	5 U	21 U	1 U	1 U	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	22.9 U	11 U	11 U	**1,600**	**14.8**	**659**	1 U	1 U	--	--	--	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	22.9 U	11 U	11 U	11 U	**14.9**	21 U	1 U	1 U	--	--	--	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	22.9 U	11 U	11 U	11 U	5 U	21 U	1 U	1 U	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	22.9 UT	11 UT	11 UT	**1,611 T**	**32.2 T**	**680 T**	1 UT	1 UT	--	--	--	--	--	--	--
Endosulfan I	ug/kg		--	--	**3,270**	**329**	**307**	**56,700**	**3,470**	**7,740**	**4.3**	**1,090**	--	--	--	--	--	--	--
Endosulfan II	ug/kg		--	--	**7,120**	**305**	**372**	**24,700**	**4,590**	**5,930**	**61.9**	**837**	--	--	--	--	--	--	--
Endosulfan Sulfate	ug/kg		--	--	**5,440**	**168**	**72.1**	**137**	**1650**	**363**	**62.6**	**320**	--	--	--	--	--	--	--
Endosulfan (Total)	ug/kg	2,400	--	--	**15,830 T**	**802 T**	**751.1 T**	**81,537 T**	**9,710 T**	**14,033 T**	**128.8 T**	**2,247 T**	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	SS-17 SS-17 .5- .5 1/08/04	SS-18 SS-18 .5- .5 1/08/04	SS-2-6" SS-2 .5- .5 4/20/01	SS-3-6" SS-3 .5- .5 4/20/01	SS-4-6" SS-4 .5- .5 4/20/01	SS-5-6" SS-5 .5- .5 4/20/01	SS-6-6" SS-6 .5- .5 4/20/01	SS-7-6" SS-7 .5- .5 4/20/01	SS-8-6" SS-8 .5- .5 4/20/01	SS-9-6" SS-9 .5- .5 4/20/01	TP1-1.5 TP1 1.5- 1.5 8/07/00	TP2-1.5 TP2 1.5- 1.5 8/07/00	TP3-1.5 TP3 1.5- 1.5 8/07/00	TP4-1.5 TP4 1.5- 1.5 8/07/00	TP5-1.5 TP5 1.5- 1.5 8/07/00	TP6-1.5 TP6 1.5- 1.5 8/07/00	TP7-1.5 TP7 1.5- 1.5 8/07/00
Chlorinated Acid Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	10,400 U	51,000 U	21,000 U	51,000 U	5,000 U	1,000 U	1,000 U	1,000 U	5,700 U	**27,000**	5,700 U	5,700 U	**15,000**	**130,000**	5,700 U
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ametryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atraton	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromacil	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butachlor	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzilate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroneb	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloropropylate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanazine	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Etridiazole	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexazinone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MGK264	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molinate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norflurazon	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pebulate	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Picloram	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pronamide (Kerb)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propachlor (Ramrod)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simetryn	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	**--**	**--**	**--**	--	--	--	--	--
Dinoseb	ug/kg	524	--	--	**656**	**675,000**	**2,720**	**4,320**	**105**	10 U	10 U	**42.5**	**82**	**1900**	28 U	28 U	28 U	**67**	**80**
MCPA	ug/kg	40,000	--	--	10,400 U	51,000 U	21,000 U	51,000 U	5,000 U	1,000 U	1,000 U	1,000 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U	5,600 U
2,4-D	ug/kg	800,000	--	--	416 U	2,040 U	840 U	2,040 U	200 U	40 U	40 U	40 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
2,4-DB	ug/kg	640,000	--	--	208 U	1,020 U	420 U	1,020 U	100 U	20 U	20 U	20 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2,4,5-T	ug/kg	800,000	--	--	519 U	2,550 U	1,050 U	2,550 U	250 U	50 U	50 U	50 U	29 U	29 U	29 U	29 U	29 U	**130**	29 U
Dalapon (DPA)	ug/kg		--	--	519 U	2,550 U	1,050 U	2,550 U	250 U	50 U	50 U	50 U	280 U	280 U	280 U	280 U	280 U	280 U	280 U
Dicamba	ug/kg	2,200	--	--	208 U	1,020 U	420 U	1,020 U	100 U	20 U	20 U	20 U	28 U	**42**	**68**	28 U	**120**	**1,400**	28 U
Dichlorprop	ug/kg		--	--	104 U	510 U	210 U	510 U	50 U	**41.3**	**30.4**	**42**	28 U	28 U	28 U	28 U	28 U	28 U	28 U
Pentachlorophenol	ug/kg	4,500	--	--	416 U	2,040 U	840 U	2,040 U	200 U	40 U	40 U	40 U	--	--	--	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	519 U	2,550 U	1,050 U	2,550 U	250 U	50 U	50 U	50 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U
Metals by SW6010/6020																			
Arsenic	mg/kg	20	**4.57**	**1.52**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds by SW8260																			
1,1,1,2-Tetrachloroethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/kg	1,360	--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: SS-17 Location ID: SS-17 Date/Time Sampled: .5- .5 1/08/04	SS-18 SS-18 .5- .5 1/08/04	SS-2-6" SS-2 .5- .5 4/20/01	SS-3-6" SS-3 .5- .5 4/20/01	SS-4-6" SS-4 .5- .5 4/20/01	SS-5-6" SS-5 .5- .5 4/20/01	SS-6-6" SS-6 .5- .5 4/20/01	SS-7-6" SS-7 .5- .5 4/20/01	SS-8-6" SS-8 .5- .5 4/20/01	SS-9-6" SS-9 .5- .5 4/20/01	TP1-1.5 TP1 1.5- 1.5 8/07/00	TP2-1.5 TP2 1.5- 1.5 8/07/00	TP3-1.5 TP3 1.5- 1.5 8/07/00	TP4-1.5 TP4 1.5- 1.5 8/07/00	TP5-1.5 TP5 1.5- 1.5 8/07/00	TP6-1.5 TP6 1.5- 1.5 8/07/00	TP7-1.5 TP7 1.5- 1.5 8/07/00
1,2,3-Trichloropropane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	208 U	100 U	100 U	**114**	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/kg		--	--	1,040 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/kg	7,200,000	--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	208 U	100 U	100 U	**319**	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg		--	--	2,080 U	1,000 U	1,000 U	1,000 U	1000 U	1000 U	1000 U	1000 U	--	--	--	--	--	--	1,000 U
2-Chlorotoluene	ug/kg	2,060	--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
2-Hexanone	ug/kg		--	--	2080 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/kg		--	--	2080 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	--	--	--	--
Acetone	ug/kg	8,000,000	--	--	2080 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	--	--	--	--
Benzene	ug/kg	26	--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Bromobenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Bromochloromethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Bromomethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Carbon Disulfide	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Chlorobenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Chloroethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Chloroform	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Chloromethane	ug/kg		--	--	1040 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Dibromochloromethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Dibromomethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Dichlorobromomethane	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Ethylbenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Methylene Chloride	ug/kg		--	--	2,080 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	--	--	--	--	--	--	1,000 U
Naphthalene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Styrene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Tetrachloroethene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Toluene	ug/kg	6,400,000	--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Vinyl Chloride	ug/kg		--	--	208 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--
Xylene, m-,p-	ug/kg		--	--	416 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	208 U	100 U	100 U	**151**	100 U	100 U	100 U	100 U	--	--	--	--	--	--	--

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Approximate concentration

UJ = Not detected; the value is an approximate reporting limit.

R = Rejected; this value should not be used for any purpose.

T = Value calculated by GeoEngineers

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

bold = exceeds cleanup level

bold = detection

-- = Not analyzed.

TABLE A-2

PREVIOUS INVESTIGATION (PRE-2009) GROUNDWATER DATA

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Analyte	Units	Proposed CleanUp Level	Sample ID: B-2 Location ID: B-2 Date/Time Sampled: 4/20/01	B-5 B-5 4/20/01	B-7 B-7 4/20/01	MW-1 MW-1 1/09/04	MW-1Q4 MW-1 11/17/04	MW-1Q1 MW-1 2/07/05	MW-1Q2 MW-1 4/18/05	MW-1Q3 MW-1 6/20/05	MW-2 MW-2 1/09/04	MW-2Q1 MW-2 2/07/05	MW-2Q2 MW-2 4/18/05	MW-2Q3 MW-2 6/20/05	MW-2Q4 MW-2 11/15/04	MW-3 MW-3 1/09/04	MW-3Q4 MW-3 11/15/04	MW-3Q1 MW-3 2/07/05	MW-3Q2 MW-3 4/18/05	MW-3Q3 MW-3 6/20/05	HC-12-15-2005 LIVESTOCK WELL .25- .25 12/15/05	LIVESTOCK WELL LIVESTOCK WELL 3/13/08
Chlorinated Pesticides by SW8081A																						
Alachlor	ug/l	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Aldrin	ug/l	0.05	0.611 U	0.4 U	--	0.002 U	--	--	--	--	0.002 U	--	--	--	--	0.002 U	--	--	--	--	0.05 U	0.1 U
Alpha-BHC	ug/l		0.5 U	0.5 U	5.5 U	0.5 U	--	--	--	--	2.5 U	--	--	--	--	0.5 U	--	--	--	--	0.05 U	0.1 U
Azinphos-methyl	ug/l		1 U	2 U	--	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.05 U	0.5 U
Benomyl (Benlate)	ug/l		--	--	--	10 U	--	--	--	--	10 U	--	--	--	--	10 U	--	--	--	--	--	--
Beta-BHC	ug/l		0.305 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Bolstar (Sulprofos)	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Chlordane, technical	ug/l		3.82 U	2.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpyriphos	ug/l	48	1 U	2 U	--	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.05 U	0.2 U
Coumaphos	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.5 U
Delta-BHC	ug/l		0.763 U	0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Demeton	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Demeton-S	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Diazinon	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Dichlorvos (DDVP)	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.5 U
Dieldrin	ug/l	0.05	0.611 U	0.4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dimethoate	ug/l		--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.1 U	0.2 U
Disulfoton (Di-Syston)	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Endrin	ug/l		0.611 U	0.4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Endrin Aldehyde	ug/l		1.22 U	0.8 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Endrin Ketone	ug/l		0.611 U	0.4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
EPN	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.5 U
Ethoprop	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Fensulfothion	ug/l		2 U	4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Fenthion	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Heptachlor	ug/l	0.05	0.611 U	0.4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Heptachlor Epoxide	ug/l	0.05	0.305 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Lindane (Gamma-BHC)	ug/l	0.20	0.305 U	0.2 U	--	0.005 U	--	--	--	--	0.005 U	--	--	--	--	0.005 U	--	--	--	--	0.05 U	0.1 U
Malathion	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.2 U
Methomyl	ug/l		--	--	--	10 U	--	--	--	--	10 U	--	--	--	--	10 U	--	--	--	--	--	--
Methoxychlor	ug/l	80	3.82 U	2.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Methyl Parathion	ug/l	4.0	1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Mevinphos	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Monocrotophos	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.5 U
Naled	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Parathion (ethyl)	ug/l	96	1 U	2 U	--	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.05 U	0.5 U
Phorate	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Ronnel	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Sulfotepp	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Tetrachlorvinphos (Gardona)	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Tetraethyl pyrophosphate (TEPP)	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.5 U
Tokuthion	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
Tokuthion (Prothiofos)	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/l	1.0	15.3 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--
Trichloronate	ug/l		1 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.2 U
alpha-Chlordane (cis)	ug/l		0.305 U	0.2 U	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.05 U	0.1 U
gamma-Chlordane (relic CAS #)	ug/l		0.305 U	**1.9**	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.05 U	0.1 U
Chlordane (Total)	ug/l	2.0	0.305 UT	2 T	--	0.02 UT	--	--	--	--	0.02 UT	--	--	--	--	0.02 UT	--	--	--	--	0.05 UT	0.1 UT
4,4'-DDT	ug/l	0.26	0.611 U	**1.49**	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.1 U	0.1 U
4,4'-DDE	ug/l	0.26	0.611 U	0.4 U	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.1 U	0.1 U
4,4'-DDD	ug/l	0.36	0.611 U	4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Total DDT (4,4 isomers)	ug/l		0.611 UT	**1.49 T**	--	0.015 UT	--	--	--	--	0.015 UT	--	--	--	--	0.015 UT	--	--	--	--	0.1 UT	0.1 UT
Endosulfan I	ug/l		**114**	**45.2**	--	**0.026**	0.1 U	0.1 U	0.1 U	0.1 U	**0.006 J**	0.1 U	0.1 U	0.1 U	0.1 U	**0.024**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	ug/l		**40.2**	**32.9**	--	**0.033**	0.1 U	0.1 U	0.1 U	0.1 U	**0.003 J**	0.1 U	0.1 U	0.1 U	0.1 U	**0.043**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	ug/l		**3.77**	**1.21**	--	**0.015**	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.022**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan (Total)	ug/l	96	**158 T**	**79.3 T**	--	**0.074 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	**0.0115 JT**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	**0.089 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT

Analyte	Units	Proposed CleanUp Level	Sample ID: B-2 Location ID: B-2 Date/Time Sampled: 4/20/01	B-5 B-5 4/20/01	B-7 B-7 4/20/01	MW-1 MW-1 1/09/04	MW-1Q4 MW-1 11/17/04	MW-1Q1 MW-1 2/07/05	MW-1Q2 MW-1 4/18/05	MW-1Q3 MW-1 6/20/05	MW-2 MW-2 1/09/04	MW-2Q1 MW-2 2/07/05	MW-2Q2 MW-2 4/18/05	MW-2Q3 MW-2 6/20/05	MW-2Q4 MW-2 11/15/04	MW-3 MW-3 1/09/04	MW-3Q4 MW-3 11/15/04	MW-3Q1 MW-3 2/07/05	MW-3Q2 MW-3 4/18/05	MW-3Q3 MW-3 6/20/05	HC-12-15-2005 LIVESTOCK WELL .25- .25 12/15/05	LIVESTOCK WELL LIVESTOCK WELL 3/13/08
Chlorinated Acid Herbicides by SW8151A																						
2-(2-Methyl-4-chlorophenoxy)propian	ug/l		50 U	1100 U	2550 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
3,5-Dichlorobenzoic Acid	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5 U	0.5 U
Acifluorfen	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U
Ametryn	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Atraton	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Atrazine	ug/l	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Bentazon	ug/l	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5 U	0.5 U
Bromacil	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Butachlor	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Butylate	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Chloramben	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U
Chlorobenzilate	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Chloroneb	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Chloropropylate	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Chlorothalonil (Daconil)	ug/l	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Chlorpropham	ug/l	3200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
cis-Permethrin	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Cyanazine	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dicofol	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Diphenamid	ug/l	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Eptam	ug/l	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Etridiazole	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Hexazinone	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Metolachlor	ug/l	2400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Metribuzin	ug/l	400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
MGK264	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Molinate	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Napropamide	ug/l	1600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Norflurazon	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Pebulate	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Picloram	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U
Prometon (Pramitol 5p)	ug/l	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Prometryn	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Pronamide (Kerb)	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Propachlor (Ramrod)	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Propazine	ug/l	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Simazine	ug/l	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Simetryn	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Terbacil	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Terbutryn (Igran)	ug/l	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Total DCPA diacid (Chlorthal)	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
trans-Permethrin	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Triadimefon	ug/l	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Trichlopyr	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Trifluralin	ug/l	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Vernolate	ug/l	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dinoseb	ug/l	7.0	2 U	**49.3**	**447**	2 U	--	--	--	--	2 U	--	--	--	--	2 U	--	--	--	--	0.2 U	0.2 U
MCPA	ug/l	8.0	60 U	1320 U	3060 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
2,4-D	ug/l	160	1 U	22 U	51 U	4 U	--	--	--	--	4 U	--	--	--	--	4 U	--	--	--	--	0.1 U	0.1 U
2,4-DB	ug/l	130	4 U	88.2 U	204 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8 U	0.8 U
2,4,5-T	ug/l		1 U	22 U	51 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dalapon (DPA)	ug/l		10 U	220 U	510 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.3 U
Dicamba	ug/l	480	1 U	**147**	**57.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dichlorprop	ug/l		1 U	22 U	51 U	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.1 U	0.1 U
Pentachlorophenol	ug/l	1.0	1 U	22 U	51 U	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.1 U	0.1 U
Silvex (Fenoprop or 2,4,5-TP)	ug/l	50	1 U	1 U	51 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Metals by EPA200.7/200.8			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	mg/L	0.008	--	--	--	**0.0023**	**0.009**	**0.0087**	**0.006**	**0.008**	**0.0119**	**0.0099**	**0.009**	**0.0104**	**0.0093**	**0.003**	**0.0069**	**0.0094**	**0.008**	**0.008**	--	--
Zinc	mg/L	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.011**	--

Analyte	Units	Proposed CleanUp Level	Sample ID: B-2 Location ID: B-2 Date/Time Sampled: 4/20/01	B-5 B-5 4/20/01	B-7 B-7 4/20/01	MW-1 MW-1 1/09/04	MW-1Q4 MW-1 11/17/04	MW-1Q1 MW-1 2/07/05	MW-1Q2 MW-1 4/18/05	MW-1Q3 MW-1 6/20/05	MW-2 MW-2 1/09/04	MW-2Q1 MW-2 2/07/05	MW-2Q2 MW-2 4/18/05	MW-2Q3 MW-2 6/20/05	MW-2Q4 MW-2 11/15/04	MW-3 MW-3 1/09/04	MW-3Q4 MW-3 11/15/04	MW-3Q1 MW-3 2/07/05	MW-3Q2 MW-3 4/18/05	MW-3Q3 MW-3 6/20/05	HC-12-15-2005 LIVESTOCK WELL .25- .25 12/15/05	LIVESTOCK WELL LIVESTOCK WELL 3/13/08
Volatile Organic Compounds by SW8260																						
1,1,1,2-Tetrachloroethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/l	200	1 U	1 U	**4.14**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/l	400	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/l		5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	720	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/l	400	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/l		10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/l	160	1 U	**19.4**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/l		10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/l		10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/l	800	10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/l	5	1 U	**1.05**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/l		2 U	2 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/l		5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/l		5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed CleanUp Level	Sample ID: B-2 Location ID: B-2 Date/Time Sampled: 4/20/01	B-5 B-5 4/20/01	B-7 B-7 4/20/01	MW-1 MW-1 1/09/04	MW-1Q4 MW-1 11/17/04	MW-1Q1 MW-1 2/07/05	MW-1Q2 MW-1 4/18/05	MW-1Q3 MW-1 6/20/05	MW-2 MW-2 1/09/04	MW-2Q1 MW-2 2/07/05	MW-2Q2 MW-2 4/18/05	MW-2Q3 MW-2 6/20/05	MW-2Q4 MW-2 11/15/04	MW-3 MW-3 1/09/04	MW-3Q4 MW-3 11/15/04	MW-3Q1 MW-3 2/07/05	MW-3Q2 MW-3 4/18/05	MW-3Q3 MW-3 6/20/05	HC-12-15-2005 LIVESTOCK WELL .25- .25 12/15/05	LIVESTOCK WELL LIVESTOCK WELL 3/13/08
Tert-Butylbenzene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	640	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/l		1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/l		2 U	2 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/l	16000	1 U	**3.25**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Approximate concentration

UJ = Not detected; the value is an approximate reporting limit.

R = Rejected; this value should not be used for any purpose.

T = Value calculated by GeoEngineers

ug/L = micrograms per liter

mg/L = milligrams per liter

bold = exceeds cleanup level

bold = detection

-- = Not analyzed.

TABLE A-3

PREVIOUS INVESTIGATION (PRE-2009) SURFACE WATER DATA

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Analyte	Units	Proposed Clean-Up Level	Sample ID: SW-1GE0 Location ID: SW-1 Date/Time Sampled: 4/20/01	SW-2GE0 SW-2 4/20/01	SW-3GE0 SW-3 4/20/01	SW-4GE0 SW-4 4/20/01	SW-1 HC-SW-1 12/16/04	SW-2 HC-SW-2 12/16/04	SW-3 HC-SW-3 12/16/04	SW-4 HC-SW-4 12/16/04	SW-5 HC-SW-5 12/16/04	SW-5A SW-5 1/07/04	SW-6 HC-SW-6 12/16/04	SW-7 HC-SW-7 12/16/04	SW-8 HC-SW-8 12/16/04	SW-9 HC-SW-5 12/16/04
Chlorinated Pesticides by SW8081A																
Aldrin	ug/l	0.05	0.08 U	0.08 U	0.08 U	0.88 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.002 U	0.05 U	0.05 U	0.05 U	0.05 U
Alpha-BHC	ug/l		0.5 U	0.04 U	0.04 U	0.44 U	--	--	--	--	--	--	--	--	--	--
Azinphos-methyl	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	1 U	--	--	--	--
Benomyl (Benlate)	ug/l		--	--	--	--	--	--	--	--	--	10 U	--	--	--	--
Beta-BHC	ug/l		0.04 U	0.04 U	0.04 U	0.44 U	--	--	--	--	--	--	--	--	--	--
Bolstar (Sulprofos)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Chlordane, technical	ug/l		0.5 U	0.5 U	0.5 U	5.5 U	--	--	--	--	--	--	--	--	--	--
Chlorpyriphos	ug/l	48	1 U	1 U	1 U	1 U	--	--	--	--	--	1 U	--	--	--	--
Coumaphos	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Delta-BHC	ug/l		0.1 U	0.1 U	0.1 U	1.1 U	--	--	--	--	--	--	--	--	--	--
Demeton	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Diazinon	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dichlorvos (DDVP)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/l	0.05	0.08 U	0.08 U	0.08 U	0.88 U	--	--	--	--	--	--	--	--	--	--
Dimethoate	ug/l		--	--	--	--	--	--	--	--	--	1 U	--	--	--	--
Endrin	ug/l		0.08 U	0.08 U	0.08 U	0.88 U	--	--	--	--	--	--	--	--	--	--
Endrin Aldehyde	ug/l		0.08 U	0.16 U	0.16 U	1.1 U	--	--	--	--	--	--	--	--	--	--
Endrin Ketone	ug/l		0.08 U	0.08 U	0.08 U	0.88 U	--	--	--	--	--	--	--	--	--	--
EPN	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Ethoprop	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Fensulfothion	ug/l		2 U	2 U	2 U	2 U	--	--	--	--	--	--	--	--	--	--
Fenthion	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/l	0.05	0.04 U	0.08 U	0.08 U	0.88 U	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/l	0.05	0.04 U	0.04 U	0.04 U	0.44 U	--	--	--	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/l	0.20	**0.32**	0.04 U	0.04 U	0.44 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.05 U	0.05 U
Malathion	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Methomyl	ug/l		--	--	--	--	--	--	--	--	--	10 U	--	--	--	--
Methoxychlor	ug/l	80	0.5 U	0.5 U	0.5 U	5.5 U	--	--	--	--	--	--	--	--	--	--
Methyl Parathion	ug/l	4.0	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Mevinphos	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/l	96	1 U	1 U	1 U	1 U	--	--	--	--	--	1 U	--	--	--	--
Phorate	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Ronnel	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Tetrachlorvinphos (Gardona)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Tokuthion (Prothiofos)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/l	1.0	2 U	2 U	2 U	22 U	--	--	--	--	--	--	--	--	--	--
Trichloronate	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/l		0.04 U	0.04 U	0.04 U	0.44 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane (relic CAS #)	ug/l		0.04 U	0.04 U	**0.882**	0.44 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U
Chlordane (Total)	ug/l	2.0	0.04 UT	0.04 UT	**0.882 T**	0.044 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.02 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT
4,4'-DDT	ug/l	0.26	0.08 U	**0.995**	**1.07**	**1.81**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.015 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	ug/l	0.26	0.08 U	0.08 U	0.08 U	0.88 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.015 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	ug/l	0.36	0.08 U	0.08 U	0.08 U	0.88 U	--	--	--	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/l		0.08 UT	**0.995 T**	**1.07 T**	**1.81 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.15 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT
Endosulfan I	ug/l		**1.49**	**0.0932**	**1.88**	**6.55**	0.1 U	0.1 U	**2.37**	**1.2**	**4.09**	**0.255**	**2.01**	0.1 U	**1.25**	**3.92**

Analyte	Units	Proposed Clean-Up Level	Sample ID: SW-1GEO Location ID: SW-1 Date/Time Sampled: 4/20/01	SW-2GEO SW-2 4/20/01	SW-3GEO SW-3 4/20/01	SW-4GEO SW-4 4/20/01	SW-1 HC-SW-1 12/16/04	SW-2 HC-SW-2 12/16/04	SW-3 HC-SW-3 12/16/04	SW-4 HC-SW-4 12/16/04	SW-5 HC-SW-5 12/16/04	SW-5A SW-5 1/07/04	SW-6 HC-SW-6 12/16/04	SW-7 HC-SW-7 12/16/04	SW-8 HC-SW-8 12/16/04	SW-9 HC-SW-5 12/16/04
Endosulfan II	ug/l		**2.21**	**0.542**	**3.8**	**5.25**	**0.14**	**0.11**	**1.47**	**1.33**	**2.67**	**0.291**	**1.29**	0.1 U	**0.97**	**2.63**
Endosulfan Sulfate	ug/l		**1.12**	**1.45**	**6.07**	**2.71**	**0.1**	**0.55**	**1.11**	**1.3**	**1.66**	**0.699**	**0.85**	0.1 U	**1.01**	**1.59**
Endosulfan (Total)	ug/l	96	**4.82 T**	**2.085 T**	**12 T**	**14.5 T**	**0.3 T**	**0.71 T**	**4.95 T**	**3.8 T**	**8.42 T**	**1.25 T**	**4.2 T**	0.1 UT	**3.2 T**	**8.14 T**
Chlorinated Acid Herbicides by SW8151A																
2-(2-Methyl-4-chlorophenoxy)propian	ug/l		50 U	50 U	50 U	250 U	--	--	--	--	--	--	--	--	--	--
Dinoseb	ug/l	7.0	2 U	2 U	**34.5**	**15.6**	**11.1**	**15.3**	**21.7**	**84 E**	**27.8**	**35.8**	**11.9**	**1.2**	**10.4**	**27.6**
MCPA	ug/l	8.0	60 U	60 U	60 U	300 U	--	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	160	1 U	1 U	1 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	4 U	0.1 U	0.1 U	0.1 U	0.1 U
2,4-DB	ug/l	130	4 U	4 U	4 U	20 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	--	0.8 U	0.8 U	0.8 U	0.8 U
2,4,5-T	ug/l		1 U	1 U	1 U	5 U	--	--	--	--	--	--	--	--	--	--
Dalapon (DPA)	ug/l		10 U	10 U	10 U	50 U	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/l	480	1 U	1 U	1 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	0.1 U	0.1 U	0.1 U	0.1 U
Dichlorprop	ug/l		1 U	1 U	1 U	5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
Pentachlorophenol	ug/l	1.0	1 U	1 U	1 U	5 U	--	--	--	--	--	1 U	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/l	50	1 U	1 U	**3.82**	5 U	--	--	--	--	--	--	--	--	--	--
Metals by EPA200.7/200.8																
Arsenic	mg/L	0.008	--	--	--	--	**0.002**	**0.001**	**0.001**	0.001 U	**0.0009 J**	**0.00057**	**0.001**	**0.0008 J**	**0.001**	**0.00092 J**
Volatile Organic Compounds by SW8260																
1,1,1,2-Tetrachloroethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	ug/l	200	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	ug/l	400	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	ug/l		5 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--
1,2-dibromoethane (EDB)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	720	1 U	1 U	**1.16**	1 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/l	400	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene (m-Dichlorobenzene)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene (p-Dichlorobenzene)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/l		10 U	10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/l	160	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
2-Hexanone	ug/l		10 U	10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl isobutyl ketone)	ug/l		10 U	10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--
Acetone	ug/l	800	10 U	10 U	**10.3**	10 U	--	--	--	--	--	--	--	--	--	--
Benzene	ug/l	5.0	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Bromobenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Bromoform (Tribromomethane)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Bromomethane	ug/l		2 U	2 U	2 U	2 U	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--

Analyte	Units	Proposed Clean-Up Level	Sample ID: SW-1GEO Location ID: SW-1 Date/Time Sampled: 4/20/01	SW-2GEO SW-2 4/20/01	SW-3GEO SW-3 4/20/01	SW-4GEO SW-4 4/20/01	SW-1 HC-SW-1 12/16/04	SW-2 HC-SW-2 12/16/04	SW-3 HC-SW-3 12/16/04	SW-4 HC-SW-4 12/16/04	SW-5 HC-SW-5 12/16/04	SW-5A SW-5 1/07/04	SW-6 HC-SW-6 12/16/04	SW-7 HC-SW-7 12/16/04	SW-8 HC-SW-8 12/16/04	SW-9 HC-SW-5 12/16/04
Chloroethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Chloromethane	ug/l		5 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--
Cis-1,2-Dichloroethene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Cis-1,3-Dichloropropene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dibromomethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dichlorobromomethane	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/l		5 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--	--	--
Naphthalene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Styrene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Tert-Butylbenzene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	640	**3.45**	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Trans-1,2-Dichloroethene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/l		1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--
Xylene, m-,p-	ug/l		2 U	2 U	2 U	2 U	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/l	16000	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Approximate concentration

UJ = Not detected; the value is an approximate reporting limit.

R = Rejected; this value should not be used for any purpose.

T = Value calculated by GeoEngineers

E = XXXX

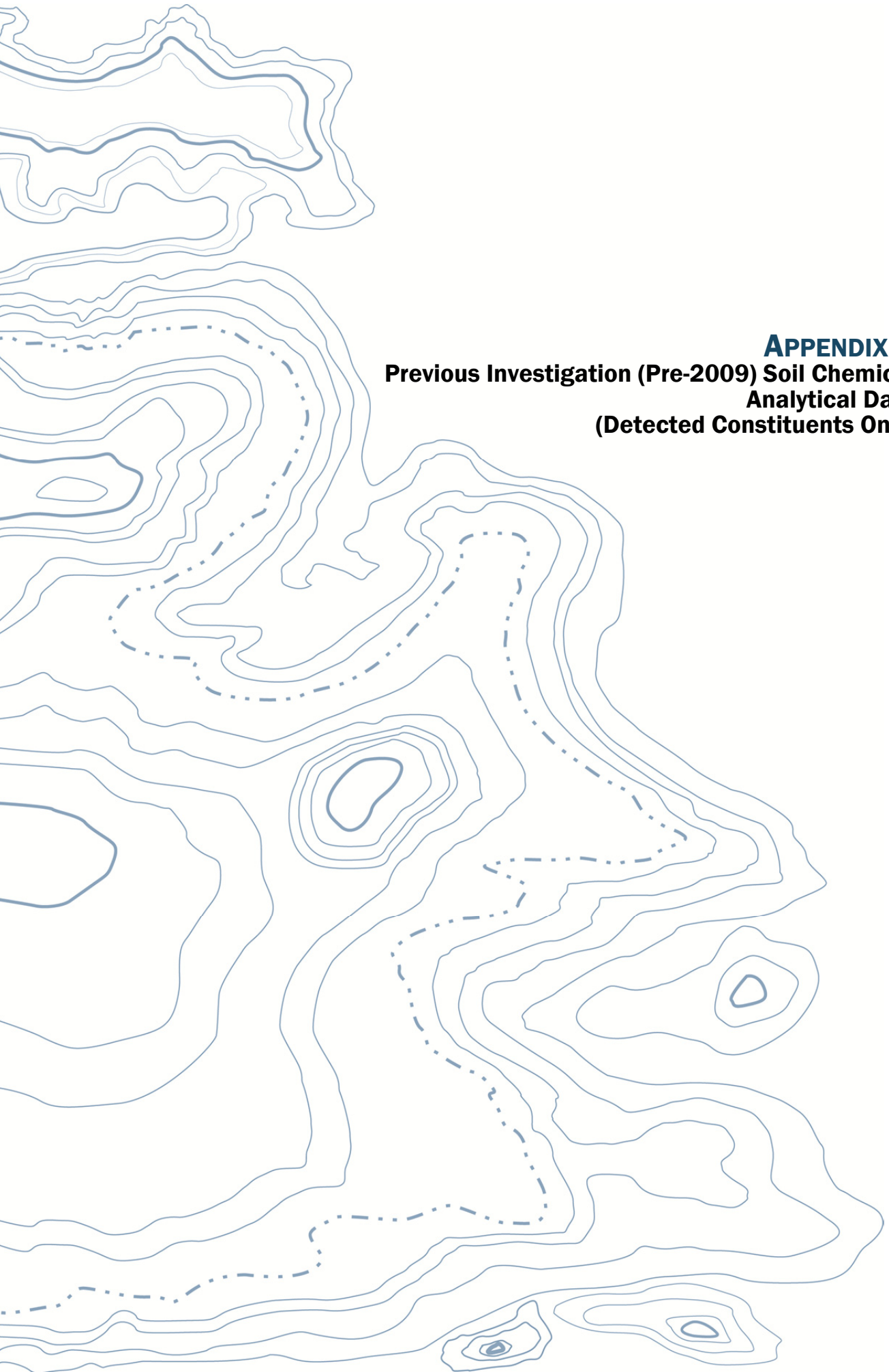
ug/L = micrograms per liter

mg/L = milligrams per liter

bold = exceeds cleanup level

bold = detection

-- = Not analyzed.



APPENDIX B

Previous Investigation (Pre-2009) Soil Chemical Analytical Data (Detected Constituents Only)

TABLE B-1

PREVIOUS INVESTIGATION (PRE-2009) SOIL CHEMICAL ANALYTICAL DATA

(DETECTED CONSTITUENTS ONLY)

TAXIWAY F SITE

BURLINGTON, WASHINGTON

		Sample ID:	112-0-1 HC-112	112-0-2 HC-112	60-0-1 HC-60	B-1-1 B-1	B12-0-1 HC-12	B12-1-2 HC-12	B20-0-1 HC-20	B20-1-2 HC-20	B-2-1 B-2	B-2-3 B-2	B24-0-1 HC-24	B24-1-2 HC-24	B30A-0-1 HC-30	B30A-1-2 HC-30	B-3-1 B-3	B-4-1 B-4	B-5-1 B-5	B-5-4 B-5
		Location ID:	1-1	2-2	1-1	1-1	1-1	2-2	1-1	2-2	1-1	3-3	1-1	2-2	1-1	2-2	1-1	1-1	1-1	4-4
		Date/Time Sampled:	3/13/2008	3/13/2008	3/13/2008	4/20/2001	3/13/2008	3/13/2008	3/13/2008	3/13/2008	4/20/2001	4/20/2001	3/13/2008	3/13/2008	3/13/2008	3/13/2008	4/20/2001	4/20/2001	4/20/2001	4/20/2001
	Units	Proposed Cleanup Level																		
Chlorinated Pesticides by SW8081A																				
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Alachlor	ug/kg	12,000	2500 U	50 U	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Azinphos-methyl	ug/kg		13000 U	320 U	380 U	40 U	320 U	320 U	280 U	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U
Chlorpyriphos	ug/kg	240,000	5000 U	100 U	200 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U
Methyl Parathion	ug/kg	20,000	5000 U	100 U	200 U	40 U	100 U	100 U	**170**	100 U	40 U	40 U	100 U	100 U	100 U	100 U	40 U	40 U	100 U	40 U
Parathion (ethyl)	ug/kg	480,000	13000 U	320 U	380 U	40 U	320 U	320 U	**50 J**	300 U	40 U	40 U	250 U	310 U	250 U	250 U	40 U	40 U	100 U	40 U
Aldrin	ug/kg	59	2500 U	60 U	**120**	1 U	60 U	60 U	50 U	600 U	5 U	1 U	**1930**	60 U	50 U	50 U	1 U	1 U	11 U	1 U
Lindane (Gamma-BHC)	ug/kg	770	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U
alpha-Chlordane (cis)	ug/kg		**10000**	60 U	**170**	1 U	**65**	60 U	50 U	60 U	4 U	1 U	50 U	60 U	**70**	50 U	0.8 U	0.8 U	8.8 U	**0.948**
gamma-Chlordane (relic CAS #)	ug/kg		**12000**	60 U	**180**	0.706 U	**85**	60 U	50 U	60 U	**62.2**	0.7 U	50 U	60 U	**80**	50 U	0.7 U	0.7 U	**241**	0.7 U
Chlordane (Total)	ug/kg	2,050	**22000 T**	60 UT	**350 T**	1 UT	**150 T**	60 UT	50 UT	60 UT	**64.2 T**	1 UT	50 UT	60 UT	**150 T**	50 UT	0.8 UT	0.8 UT	**245.4 T**	**1.298 T**
4,4'-DDT	ug/kg	2,900	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 UJ	50 U	1 U	1 U	11 U	1 U
4,4'-DDE	ug/kg	2,900	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U
4,4'-DDD	ug/kg	4,200	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U
Total DDT (4,4 isomers)	ug/kg	750	2500 UT	60 UT	75 UT	1 UT	60 UT	60 UT	50 UT	60 UT	5 UT	1 UT	50 UT	60 UT	50 UT	50 UT	1 UT	1 UT	11 UT	1 UT
Dieldrin	ug/kg	63	2500 U	60 U	**140**	2 U	60 U	60 U	50 U	60 U	10 U	2 U	**6250**	60 U	50 U	50 U	2 U	2 U	22 U	2 U
Endosulfan I	ug/kg		**917000**	**160**	**9060 J**	1 U	**370**	60 U	**3010**	60 U	**28700**	**9.12**	**1080**	60 U	**4980**	50 U	1 U	1 U	**5830**	**11.3**
Endosulfan II	ug/kg		**371000**	60 U	**10500 J**	2 U	**300**	60 U	**3710**	60 U	**18000**	**3.98**	**1750**	60 U	**6980 J**	50 U	2 U	2 U	**2090**	**8.47**
Endosulfan Sulfate	ug/kg		2500 U	60 U	**4490**	1 U	60 U	60 U	**4540**	60 U	**853**	1 U	**3540**	60 U	**4780**	50 U	1 U	1 U	**75.5**	1 U
Endosulfan (Total)	ug/kg	2,400	**1289250 T**	**220 T**	**24050 JT**	2 UT	**700 T**	60 UT	**11260 T**	60 UT	**47553 T**	**13.6 T**	**6370 T**	60 UT	**16740 JT**	50 UT	2 UT	2 UT	**7995.5 T**	**20.27 T**
Endrin Ketone	ug/kg		2500 U	60 U	75 U	2 U	60 U	60 U	50 U	60 U	10 U	2 U	**190**	60 U	50 U	50 U	2 U	2 U	22 U	2 U
Heptachlor	ug/kg	220	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U
Heptachlor Epoxide	ug/kg	110	2500 U	60 U	75 U	1 U	60 U	60 U	50 U	60 U	5 U	1 U	50 U	60 U	50 U	50 U	1 U	1 U	11 U	1 U
Methoxychlor	ug/kg	400,000	2500 U	60 U	75 U	4 U	60 U	60 U	**83**	60 U	20 U	4 U	50 U	60 U	50 UJ	50 U	4 U	4 U	44 U	4 U
Toxaphene	ug/kg	910	–	–	–	50 U	–	–	–	–	250 U	50 U	–	–	–	–	50 U	50 U	550 U	50 U
Herbicides by SW8151A																				
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		30 U	30 U	30 U	1000 U	30 U	30 U	20 U	20 U	1000 U	1000 U	20 U	25 U	20 U	20 U	1000 U	1000 U	1000 U	1000 U
3,5-Dichlorobenzoic Acid	ug/kg		**20**	30 U	30 U	–	30 U	30 U	20 U	20 U	–	–	20 U	25 U	20 U	20 U	–	–	–	–
Atrazine	ug/kg	4,500	2500 U	50 U	**50 J**	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Bentazon	ug/kg	2,400,000	40 U	**35**	**8 J**	–	40 U	40 U	30 U	40 U	–	–	30 U	38 U	30 U	30 U	–	–	–	–
Chloramben	ug/kg	1,200,000	30 U	**10 J**	30 U	–	30 U	30 U	20 U	20 U	–	–	20 U	25 U	20 U	20 U	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	**234000**	**120**	**80**	–	60 U	60 U	**260**	60 U	–	–	**820**	63 U	**6700 J**	50 U	–	–	–	–
Chlorpropham	ug/kg	16,000,000	**6000**	50 U	75 U	–	60 U	**1500**	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–

			112-0-1	112-0-2	60-0-1	B-1-1	B12-0-1	B12-1-2	B20-0-1	B20-1-2	B-2-1	B-2-3	B24-0-1	B24-1-2	B30A-0-1	B30A-1-2	B-3-1	B-4-1	B-5-1	B-5-4
		Sample ID:	HC-112	HC-112	HC-60	B-1	HC-12	HC-12	HC-20	HC-20	B-2	B-2	HC-24	HC-24	HC-30	HC-30	B-3	B-4	B-5	B-5
		Location ID:	1- 1	2- 2	1- 1	1- 1	1- 1	2- 2	1- 1	2- 2	1- 1	3- 3	1- 1	2- 2	1- 1	2- 2	1- 1	1- 1	1- 1	4- 4
		Date/Time Sampled:	3/13/2008	3/13/2008	3/13/2008	4/20/2001	3/13/2008	3/13/2008	3/13/2008	3/13/2008	4/20/2001	4/20/2001	3/13/2008	3/13/2008	3/13/2008	3/13/2008	4/20/2001	4/20/2001	4/20/2001	4/20/2001
	Units	Proposed Cleanup Level																		
cis-Permethrin	ug/kg		**17000**	50 U	**280**	–	60 U	60 U	**100**	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Dicofol	ug/kg		2500 U	50 U	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Diphenamid	ug/kg	2,400,000	**2000**	**500**	75 U	–	**90**	**3150**	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Eptam	ug/kg	2,000,000	**17000**	**420**	75 U	–	**70**	**850**	60 U	60 U	–	–	**100**	63 U	50 U	50 U	–	–	–	–
Metolachlor	ug/kg	12,000,000	2500 U	50 U	**40 J**	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Metribuzin	ug/kg	2,000,000	2500 U	**70**	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Napropamide	ug/kg	8,000,000	**47000**	**3300**	**200**	–	**550**	**4900**	60 U	60 U	–	–	50 U	63 U	**150**	50 U	–	–	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	2500 U	50 U	75 U	–	**260**	**50 J**	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Propazine	ug/kg	1,600,000	2500 U	50 U	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Simazine	ug/kg	8,300	**7500**	**930**	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Terbacil	ug/kg	1,000,000	2500 U	**90**	75 U	–	60 U	60 U	60 U	60 U	–	–	50 U	63 U	50 U	**100**	–	–	–	–
Terbutryn (Igran)	ug/kg	80,000	**77000**	**1400**	**1000**	–	**640**	**740**	60 U	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Total DCPA diacid (Chlorthal)	ug/kg		**180 J**	30 UJ	30 UJ	–	**23 J**	**7 J**	20 UJ	20 UJ	–	–	20 UJ	25 UJ	20 UJ	20 UJ	–	–	–	–
trans-Permethrin	ug/kg		**14000**	50 U	**80**	–	60 U	60 U	**70**	60 U	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Triadimefon	ug/kg	480,000	**4000**	50 U	**200 J**	–	60 U	60 U	**150**	**170**	–	–	50 U	63 U	50 U	50 U	–	–	–	–
Trichlopyr	ug/kg		30 U	30 U	**10 J**	–	30 U	30 U	20 U	20 U	–	–	20 U	25 U	20 U	20 U	–	–	–	–
Trifluralin	ug/kg	130,000	**135000 J**	**100**	**560**	–	**12500**	**30 J**	**490**	60 U	–	–	**200**	63 U	**5100**	50 U	–	–	–	–
Vernolate	ug/kg	10,000	**150000**	**580**	**100 J**	–	60 U	**200**	60 U	60 U	–	–	50 U	63 U	**160**	50 U	–	–	–	–
Dinoseb	ug/kg	524	250 UJ	40 U	**210 J**	**164**	**50 J**	40 U	**280 J**	**30 J**	10 U	10 U	30 U	38 U	**530**	30 U	**606**	10 U	**107**	10 U
MCPA	ug/kg	40,000	30 U	**2 J**	**3 J**	1000 U	30 U	30 U	20 U	20 U	1000 U	1000 U	20 U	25 U	20 U	20 U	1000 U	1000 U	1000 U	1000 U
2,4-D	ug/kg	800,000	40 U	40 U	**8 J**	40 U	40 U	40 U	30 U	40 U	40 U	40 U	30 U	38 U	30 U	30 U	40 U	40 U	40 U	40 U
2,4-DB	ug/kg	640,000	130 U	130 U	150 U	**24.7**	130 U	130 U	110 U	120 U	20 U	**70.1**	100 U	125 U	100 U	100 U	**56.3**	**25.9**	20 U	**24.5**
2,4,5-T	ug/kg	800,000	30 U	30 U	30 U	50 U	30 U	30 U	20 U	20 U	50 U	50 U	20 U	25 U	20 U	20 U	50 U	50 U	50 U	50 U
Dicamba	ug/kg	2,200	**900**	**48**	**10 J**	20 U	**6 J**	**2 J**	**4 J**	**780**	20 U	20 U	20 U	25 U	20 U	20 U	20 U	20 U	20 U	20 U
Dichlorprop	ug/kg		60 U	60 U	75 U	**51.5**	60 U	60 U	60 U	60 U	10 U	**48.4**	50 U	63 U	50 U	50 U	10 U	**49**	10 U	**67**
Pentachlorophenol	ug/kg	4,500	**5450**	30 U	**25**	40 U	**78**	30 U	**24**	20 U	40 U	40 U	20 U	25 U	**19**	20 U	40 U	40 U	40 U	40 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	**130**	**61**	30 U	50 U	30 U	30 U	20 U	20 U	50 U	50 U	20 U	25 U	20 U	20 U	50 U	50 U	50 U	50 U
Metals by SW6010/6020																				
Arsenic	mg/kg	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Volatiles by SW8260																				
1,2,4-Trimethylbenzene	ug/kg	4,000,000	–	–	–	100 U	–	–	–	–	100 U	100 U	–	–	–	–	100 U	100 U	100 U	100 U
1,3,5-Trimethylbenzene	ug/kg	4,000,000	–	–	–	100 U	–	–	–	–	100 U	100 U	–	–	–	–	100 U	100 U	100 U	100 U
Xylene, o-	ug/kg	88,000	–	–	–	100 U	–	–	–	–	100 U	100 U	–	–	–	–	100 U	100 U	100 U	100 U

		Sample ID:	B-6-1 B-6	B-7-1 B-7	B-7-4 B-7	B-8-1 B-8	G-100-S HC-54	G-101-A 48ABC	G-13-S HC-13	G-14-S HC-14	G-15-S HC-15	G-16-S HC-16	G-17-S HC-17	G-18-A 18ABC	G-18-B 18ABC	G-18-C 18ABC	G-19-S HC-19	G-20-S HC-20	G-21-S HC-21
		Location ID:	1-1	1-1	4-4	1-1	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5	.2-5
		Date/Time Sampled:	4/20/2001	4/20/2001	4/20/2001	4/20/2001	12/5/2005	12/5/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	130 U	200 U	300 U	300 U	180 U	200 U	5000 U	100 U	100 U	100 U	250 U	100 U	100 U
Alachlor	ug/kg	12,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Azinphos-methyl	ug/kg		40 U	40 U	40 U	40 U	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Chlorpyriphos	ug/kg	240,000	40 U	**6670**	40 U	40 U	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	**150**	50 U	50 U
Methyl Parathion	ug/kg	20,000	40 U	40 U	40 U	40 U	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Parathion (ethyl)	ug/kg	480,000	40 U	40 U	40 U	40 U	100 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**720**	**470**
Aldrin	ug/kg	59	1 U	51 U	5 U	1 U	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
Lindane (Gamma-BHC)	ug/kg	770	1 U	51 U	5 U	1 U	60 U	100 UJ	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
alpha-Chlordane (cis)	ug/kg		0.8 U	40.8 U	4 U	0.8 U	**68**	**120**	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	1000 U	25 U
gamma-Chlordane (relic CAS #)	ug/kg		0.7 U	35.7 U	3.5 U	0.7 U	**91**	**120**	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
Chlordane (Total)	ug/kg	2,050	0.8 UT	40.8 UT	4 UT	0.8 UT	**159 T**	**240 T**	63 UT	63 UT	40 UT	100 UT	50 UT	25 UT	25 UT	25 UT	63 UT	1000 UT	25 UT
4,4'-DDT	ug/kg	2,900	1 U	51 U	5 U	1 U	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	**160**	25 UJ
4,4'-DDE	ug/kg	2,900	1 U	51 U	5 U	1 U	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
4,4'-DDD	ug/kg	4,200	1 U	51 U	5 U	1 U	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
Total DDT (4,4 isomers)	ug/kg	750	1 UT	51 UT	5 UT	1 UT	60 UT	100 UT	63 UT	63 UT	40 UT	100 UT	50 UT	25 UT	25 UT	25 UT	63 UT	**210 T**	25 UT
Dieldrin	ug/kg	63	2 U	102 U	10 U	2 U	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	**150**	50 U	25 U
Endosulfan I	ug/kg		1 U	**789**	**60.3**	1 U	**66**	**4490**	63 U	63 U	40 U	**76**	**60**	**45**	25 U	25 U	**340**	**613000**	**850**
Endosulfan II	ug/kg		2 U	**395**	**30.5**	**2.21**	**290**	**5160**	**70**	**40 J**	**30 J**	**200**	**170**	**310**	25 U	25 U	**1780**	**436000**	**2630**
Endosulfan Sulfate	ug/kg		1 U	51 U	5 U	**2.15**	**810**	**2500**	**220**	**40 J**	**30 J**	**75**	**50 J**	**150**	25 U	25 U	**2710**	**5840**	**2010**
Endosulfan (Total)	ug/kg	2,400	2 UT	**1209.5 T**	**93.3 T**	**4.86 T**	**1166 T**	**12150 T**	**321.5 T**	**111.5 JT**	**80 JT**	**351 T**	**280 JT**	**505 T**	25 UT	25 UT	**4830 T**	**1054840 T**	**5490 T**
Endrin Ketone	ug/kg		2 U	102 U	10 U	2 U	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	50 U	25 UJ
Heptachlor	ug/kg	220	1 U	51 U	5 U	1 U	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	63 UJ	50 U	25 UJ
Heptachlor Epoxide	ug/kg	110	1 U	51 U	5 U	1 U	60 U	100 U	63 U	63 U	40 U	100 U	50 U	25 U	25 U	25 U	63 U	50 U	25 U
Methoxychlor	ug/kg	400,000	4 U	204 U	20 U	4 U	60 UJ	100 UJ	63 UJ	63 UJ	40 UJ	100 UJ	50 UJ	25 UJ	25 UJ	25 UJ	60 UJ	**1480**	25 UJ
Toxaphene	ug/kg	910	50 U	2550 U	250 U	50 U	–	–	–	–	–	–	**2700**	–	–	–	–	–	–
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		1000 U	1000 U	1000 U	1000 U	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
3,5-Dichlorobenzoic Acid	ug/kg		–	–	–	–	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
Atrazine	ug/kg	4,500	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Bentazon	ug/kg	2,400,000	–	–	–	–	40 U	**7 J**	80 U	80 U	50 U	60 U	1500 U	30 U	40 U	30 U	75 U	30 U	30 U
Chloramben	ug/kg	1,200,000	–	–	–	–	30 U	40 U	–	–	–	–	1000 U	–	–	–	50 U	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	–	–	–	–	**50 J**	**250**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	**130**	**500**	**180**
Chlorpropham	ug/kg	16,000,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U

			B-6-1	B-7-1	B-7-4	B-8-1	G-100-S	G-101-A	G-13-S	G-14-S	G-15-S	G-16-S	G-17-S	G-18-A	G-18-B	G-18-C	G-19-S	G-20-S	G-21-S
		Sample ID:	B-6	B-7	B-7	B-8	HC-54	48ABC	HC-13	HC-14	HC-15	HC-16	HC-17	18ABC	18ABC	18ABC	HC-19	HC-20	HC-21
		Location ID:	1- 1	1- 1	4- 4	1- 1	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	4/20/2001	4/20/2001	4/20/2001	4/20/2001	12/5/2005	12/5/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		–	–	–	–	60 U	**130**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Dicofol	ug/kg		–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Diphenamid	ug/kg	2,400,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Eptam	ug/kg	2,000,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Metolachlor	ug/kg	12,000,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Metribuzin	ug/kg	2,000,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 UJ	50 UJ	50 U	100 U	50 U	130 U	50 UJ	50 U
Napropamide	ug/kg	8,000,000	–	–	–	–	**200**	**220**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	**40 J**
Prometon (Pramitol 5p)	ug/kg	1,200,000	–	–	–	–	**78**	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Propazine	ug/kg	1,600,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Simazine	ug/kg	8,300	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Terbacil	ug/kg	1,000,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Terbutryn (Igran)	ug/kg	80,000	–	–	–	–	**72**	**760**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**250**	50 U
Total DCPA diacid (Chlorthal)	ug/kg		–	–	–	–	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
trans-Permethrin	ug/kg		–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Triadimefon	ug/kg	480,000	–	–	–	–	60 U	100 U	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**5690**	50 U
Trichlopyr	ug/kg		–	–	–	–	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
Trifluralin	ug/kg	130,000	–	–	–	–	**1480**	**180**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	**2400**	50 U
Vernolate	ug/kg	10,000	–	–	–	–	60 U	**140**	130 U	130 U	100 U	100 U	50 U	50 U	100 U	50 U	130 U	50 U	50 U
Dinoseb	ug/kg	524	10 U	**138**	**136**	10 U	**980**	60 U	80 U	80 U	50 U	60 U	**759000**	**330**	**70**	**100**	**89**	**1000**	**110**
MCPA	ug/kg	40,000	1000 U	1000 U	1000 U	1000 U	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
2,4-D	ug/kg	800,000	40 U	40 U	40 U	40 U	40 U	60 U	80 U	80 U	50 U	60 U	1500 U	30 U	40 U	30 U	75 U	**290**	30 U
2,4-DB	ug/kg	640,000	**20.5**	20 U	20 U	20 U	130 U	200 U	300 U	300 U	180 U	200 U	5000 U	100 U	70 U	100 U	250 U	100 U	100 U
2,4,5-T	ug/kg	800,000	50 U	50 U	50 U	50 U	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
Dicamba	ug/kg	2,200	20 U	20 U	20 U	20 U	30 U	**10 J**	50 U	50 U	40 U	40 U	1000 U	20 U	**4 J**	20 U	50 U	**31**	20 U
Dichlorprop	ug/kg		**29.9**	**34.5**	**46.3**	**62.2**	60 U	100 U	130 U	130 U	90 U	100 U	2500 U	50 U	100 U	50 U	125 U	50 U	50 U
Pentachlorophenol	ug/kg	4,500	40 U	40 U	40 U	40 U	**30**	40 U	50 U	50 U	40 U	40 U	1000 U	**250**	30 U	20 U	**30 J**	**55**	**34**
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	50 U	50 U	50 U	50 U	30 U	40 U	50 U	50 U	40 U	40 U	1000 U	20 U	30 U	20 U	50 U	20 U	20 U
Metals by SW6010/6020																			
Arsenic	mg/kg	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	ug/kg	4,000,000	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–	–	–	–	–	–	–
Xylene, o-	ug/kg	88,000	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	G-22-S HC-22	G-23-S HC-23	G-24-S HC-24	G-24-X HC-24	G-26-S HC-26	G-27-S HC-27	G-28-S HC-28	G-29-S HC-29	G-30-A HC-30	G-30-B HC-30	G-30-C HC-30	G-31-S HC-31	G-32-S HC-32	G-33-S HC-33	G-34-S HC-34	G-35-S HC-35	G-36-S HC-36
		Location ID:	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	1- 1	2- 2	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		**20 J**	100 U	**30 J**	**240**	100 U	100 U	300 U	1000 U	**90**	100 U	130 U	140 U	**190**	100 U	400	**140**	**160**
Alachlor	ug/kg	12,000	50 U	50 U	50 U	50 U	50 U	100 U	140 U	2000 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Azinphos-methyl	ug/kg		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U	50 U	50 U	100 U	50 U	80 U
Chlorpyriphos	ug/kg	240,000	50 U	50 U	50 U	50 U	**1080**	100 U	140 U	50 U	**90 J**	50 U	100 U	100 U	**400**	50 U	**230 J**	50 U	80 U
Methyl Parathion	ug/kg	20,000	50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	100 U	50 U	50 U	100 U	50 U	80 U
Parathion (ethyl)	ug/kg	480,000	50 U	50 U	50 U	**280**	50 U	100 U	140 U	2000 U	100 U	50 U	100 U	**700**	**710 J**	50 U	100 U	50 U	80 U
Aldrin	ug/kg	59	25 U	**120**	**248000**	**23200**	50 U	100 U	70 U	**1160**	**220**	25 U	30 U	70 U	50 U	25 U	30 U	50 U	38 U
Lindane (Gamma-BHC)	ug/kg	770	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U	**320**	25 U	30 U	50 U	38 U
alpha-Chlordane (cis)	ug/kg		25 U	25 U	50 U	50 U	**900**	**40 J**	70 U	50 U	**280**	25 U	30 U	**60**	**6100**	25 U	**5470**	**880**	**210**
gamma-Chlordane (relic CAS #)	ug/kg		25 U	25 U	50 U	50 U	**1090**	**49**	70 U	50 U	**330**	25 U	30 U	**80**	**8610**	25 U	**6700**	**1020**	**180**
Chlordane (Total)	ug/kg	2,050	25 UT	25 UT	50 UT	50 UT	**1990 T**	**89 JT**	70 UT	50 UT	**610 T**	25 UT	30 UT	**140 T**	**14710 T**	25 UT	**12170 T**	**1900 T**	**390 T**
4,4'-DDT	ug/kg	2,900	25 UJ	25 UJ	50 UJ	50 UJ	50 UJ	100 UJ	70 UJ	50 UJ	**30 UJ**	25 UJ	30 UJ	70 U	50 UJ	50 UJ	**120 J**	50 UJ	38 UJ
4,4'-DDE	ug/kg	2,900	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U	50 U	25 U	30 U	50 U	38 U
4,4'-DDD	ug/kg	4,200	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U	**160**	25 U	**140**	50 U	38 U
Total DDT (4,4 isomers)	ug/kg	750	25 UT	25 UT	50 UT	50 UT	50 UT	100 UT	70 UT	50 UT	30 UT	25 UT	30 UT	70 UT	**210 JT**	50 UT	**275 JT**	50 UT	38 UT
Dieldrin	ug/kg	63	25 U	**130**	**76900**	**19600**	50 U	100 U	70 U	**270 J**	**650**	25 U	30 U	70 U	50 U	25 U	30 U	50 U	**92**
Endosulfan I	ug/kg		25 U	**250**	**3080**	**2500**	**11300**	**30 J**	**30 J**	**30800**	**268000**	**880**	**580**	**450**	**156000**	**210**	**347000**	**2350**	**67**
Endosulfan II	ug/kg		**50**	**610**	4000 U	**4070**	**10600**	**350**	**130**	**12300**	**396000**	**1080**	**600**	**950**	**85700**	**360**	**245000**	**4650**	**370**
Endosulfan Sulfate	ug/kg		25 U	**190**	50 U	**1990**	**480**	**620**	**310**	50 U	**2020**	**61**	**30 J**	**1000**	**1200**	**160**	**840**	**940**	**730**
Endosulfan (Total)	ug/kg	2,400	**75 T**	**1050 T**	**5105 T**	**8560 T**	**22380 T**	**1000 JT**	**470 JT**	**43125 T**	**666020 T**	**2021 T**	**1210 JT**	**2400 T**	**242900 T**	**730 T**	**592840 T**	**7940 T**	**1167 T**
Endrin Ketone	ug/kg		25 UJ	25 UJ	**3230 J**	**690 J**	50 UJ	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U	50 UJ	25 UJ	30 U	50 UJ	38 UJ
Heptachlor	ug/kg	220	25 UJ	25 UJ	50 UJ	50 UJ	**120 J**	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U	**610 J**	25 UJ	**360**	50 UJ	38 UJ
Heptachlor Epoxide	ug/kg	110	25 U	25 U	50 U	50 U	50 U	100 U	70 U	50 U	30 U	25 U	30 U	70 U	50 U	25 U	30 U	50 U	38 U
Methoxychlor	ug/kg	400,000	25 UJ	25 UJ	50 UJ	50 UJ	50 UJ	100 UJ	70 UJ	50 UJ	30 UJ	25 UJ	30 UJ	70 U	**1040 J**	25 UJ	**130 J**	50 UJ	38 UJ
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	20 U	20 U	30 U	20 U	30 U
3,5-Dichlorobenzoic Acid	ug/kg		20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	**30**	20 U	**35**	**6 J**	30 U
Atrazine	ug/kg	4,500	50 U	50 U	**160**	50 U	50 U	100 U	140 U	500 U	**110**	50 U	100 U	70 U	**1150**	50 U	100 U	50 U	80 U
Bentazon	ug/kg	2,400,000	30 U	**460**	30 U	30 U	30 U	30 U	80 U	300 U	40 U	30 U	40 U	40 U	30 U	30 U	40 U	30 U	45 U
Chloramben	ug/kg	1,200,000	--	--	20 U	20 U	20 U	--	--	200 U	30 U	20 U	30 U	30 U	20 U	20 U	30 U	20 U	30 U
Chlorothalonil (Daconil)	ug/kg	91,000	50 U	**130**	**260**	**360**	**4390**	**420**	**340**	**154000**	**9170**	**340**	100 U	**79**	**11100**	**40 J**	**32200**	**1340**	**700**
Chlorpropham	ug/kg	16,000,000	50 U	50 U	**530**	**85**	50 U	100 U	140 U	**430**	**120**	50 U	100 U	70 U	**800**	50 U	**340**	**150**	80 U

			Sample ID:	G-22-S HC-22 .2- 5	G-23-S HC-23 .2- 5	G-24-S HC-24 .2- 5	G-24-X HC-24 .2- 5	G-26-S HC-26 .2- 5	G-27-S HC-27 .2- 5	G-28-S HC-28 .2- 5	G-29-S HC-29 .2- 5	G-30-A HC-30 .2- 5	G-30-B HC-30 1- 1	G-30-C HC-30 2- 2	G-31-S HC-31 .2- 5	G-32-S HC-32 .2- 5	G-33-S HC-33 .2- 5	G-34-S HC-34 .2- 5	G-35-S HC-35 .2- 5	G-36-S HC-36 .2- 5
			Location ID:																	
			Date/Time Sampled:	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	11/28/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005
	Units	Proposed Cleanup Level																		
cis-Permethrin	ug/kg			50 U	50 U	50 U	**240**	**390**	100 U	140 U	**2860**	**270**	50 U	100 U	70 U	**1000**	50 U	**100**	50 U	80 U
Dicofol	ug/kg			50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Diphenamid	ug/kg	2,400,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Eptam	ug/kg	2,000,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	**860**	100 U	50 U	100 U	70 U	**440 J**	50 U	100 U	**100**	80 U
Metolachlor	ug/kg	12,000,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	**230**	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Metribuzin	ug/kg	2,000,000		50 U	50 U	50 UJ	50 UJ	50 UJ	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Napropamide	ug/kg	8,000,000		50 U	50 U	**250**	50 U	**310**	**420**	140 U	**2590**	**500**	50 U	100 U	70 U	**2320**	50 U	**2650**	**690**	**640**
Prometon (Pramitol 5p)	ug/kg	1,200,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	**200**
Propazine	ug/kg	1,600,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Simazine	ug/kg	8,300		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	**110**	50 U	100 U	70 U	**360**	**130**	100 U	50 U	80 U
Terbacil	ug/kg	1,000,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	50 U	100 U	50 U	100 U	70 U	50 U	50 U	100 U	50 U	80 U
Terbutryn (Igran)	ug/kg	80,000		50 U	50 U	**430**	**74**	**1540**	100 U	140 U	**2030**	**930**	50 U	100 U	70 U	**202000**	**170**	**18500**	**1270**	80 U
Total DCPA diacid (Chlorthal)	ug/kg			20 U	20 U	**10 J**	20 U	**89**	20 U	50 U	200 U	**20 J**	20 U	30 U	30 U	**1740**	20 U	**310**	**7 J**	30 U
trans-Permethrin	ug/kg			50 U	50 U	50 U	**580**	**600**	100 U	140 U	**4330**	**350**	50 U	100 U	70 U	**1670**	50 U	**140**	50 U	80 U
Triadimefon	ug/kg	480,000		50 U	50 U	50 U	50 U	50 U	100 U	140 U	**6250**	**210**	50 U	100 U	70 U	**2280**	50 U	100 U	50 U	80 U
Trichlopyr	ug/kg			20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	20 U	20 U	30 U	20 U	30 U
Trifluralin	ug/kg	130,000		50 U	50 U	**130**	**280**	**8100**	100 U	140 U	**17600**	**12500**	**520**	**920 J**	**86**	**209000**	**150 J**	**52700**	**4420**	**730 J**
Vernolate	ug/kg	10,000		50 U	50 U	**240**	50 U	**110 J**	100 U	140 U	50 U	100 U	50 U	100 U	70 U	**500 J**	50 U	100 U	**200**	80 U
Dinoseb	ug/kg	524		**26**	30 U	**40**	**41**	**380**	**56**	80 U	**450 J**	**370**	**10 J**	**10 J**	**120**	**3640**	30 U	**780**	**43**	100 U
MCPA	ug/kg	40,000		20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	20 U	20 U	30 U	20 U	30 U
2,4-D	ug/kg	800,000		30 U	**160**	**10 J**	30 U	30 U	30 U	80 U	300 U	40 U	30 U	40 U	40 U	**70 J**	30 U	**32**	**10 J**	45 U
2,4-DB	ug/kg	640,000		100 U	100 U	100 U	100 U	100 U	100 U	300 U	1000 U	130 U	100 U	130 U	140 U	100 U	100 U	130 U	**10 J**	150 U
2,4,5-T	ug/kg	800,000		20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	20 U	20 U	30 U	20 U	30 U
Dicamba	ug/kg	2,200		20 U	20 U	**6 J**	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	**81**	20 U	**20 J**	**7 J**	30 U
Dichlorprop	ug/kg			50 U	50 U	50 U	50 U	50 U	50 U	140 U	500 U	60 U	50 U	60 U	70 U	50 U	50 U	60 U	50 U	75 U
Pentachlorophenol	ug/kg	4,500		20 U	20 U	**7 J**	20 U	**71**	**40**	50 U	**960**	**310**	20 U	30 U	**210**	**460**	20 U	**480**	**15 J**	**73**
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000		20 U	20 U	20 U	20 U	20 U	20 U	50 U	200 U	30 U	20 U	30 U	30 U	**670**	20 U	**51**	**7 J**	30 U
Metals by SW6010/6020																				
Arsenic	mg/kg	20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																				
1,2,4-Trimethylbenzene	ug/kg	4,000,000		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	G-37-S HC-37 .2- 5	G-38-S HC-38 .2- 5	G-39-S HC-39 .2- 5	G-40-S HC-40 .2- 5	G-41-S HC-41 .2- 5	G-42-S HC-42 .2- 5	G-43-S HC-43 .2- 5	G-44-S HC-44 .2- 5	G-45-S HC-45 .2- 5	G-46-S HC-46 .2- 5	G-47-S HC-47 .2- 5	G-48-A 48ABC .2- 5	G-48-B 48ABC 1- 1	G-48-C 48ABC 2- 2	G-49-S HC-49 .2- 5	G-50-S HC-50 .2- 5	G-51-S HC-51 1- 1
		Location ID:																	
		Date/Time Sampled:	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		140 U	350 U	160 U	100 U	**240**	140 U	200 U	290 U	100 U	140 U	180 U	190 U	130 U	140 U	170 U	170 U	160 U
Alachlor	ug/kg	12,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Azinphos-methyl	ug/kg		100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U
Chlorpyriphos	ug/kg	240,000	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U
Methyl Parathion	ug/kg	20,000	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U
Parathion (ethyl)	ug/kg	480,000	100 U	180 U	100 U	50 U	100 U	100 U	100 U	150 U	50 U	100 U	100 U	100 U	60 U	100 U	100 U	100 U	100 U
Aldrin	ug/kg	59	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U
Lindane (Gamma-BHC)	ug/kg	770	30 U	88 U	40 U	50 UJ	70 U	30 U	100 U	150 U	50 UJ	30 U	40 U	100 UJ	50 UJ	30 U	40 U	40 U	40 U
alpha-Chlordane (cis)	ug/kg		30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	**680**	**20 J**	40 U	**70 J**	50 U	30 U	**30 J**	40 U	40 U
gamma-Chlordane (relic CAS #)	ug/kg		**20 J**	88 U	40 U	50 U	70 U	30 U	100 U	150 U	**860**	**20 J**	40 U	**90 J**	50 U	30 U	**30 J**	40 U	40 U
Chlordane (Total)	ug/kg	2,050	**35 JT**	88 UT	40 UT	50 UT	70 UT	30 UT	100 UT	150 UT	**1540 T**	**40 JT**	40 UT	**160 JT**	50 UT	30 UT	**60 JT**	40 UT	40 UT
4,4'-DDT	ug/kg	2,900	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ
4,4'-DDE	ug/kg	2,900	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U
4,4'-DDD	ug/kg	4,200	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U
Total DDT (4,4 isomers)	ug/kg	750	30 UT	88 UT	40 UT	50 UT	70 UT	30 UT	100 UT	150 UT	50 UT	30 UT	40 UT	100 UT	50 UT	30 UT	40 UT	40 UT	40 UT
Dieldrin	ug/kg	63	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	70 U	40 U	40 U	40 U
Endosulfan I	ug/kg		**130 J**	88 U	**150**	50 U	70 U	30 U	100 U	**230**	**23600**	30 U	**390**	**2710**	**190**	**160**	**120**	**380**	40 U
Endosulfan II	ug/kg		**260**	88 U	**110**	50 U	70 U	30 U	100 U	**270**	**17400**	30 U	**530**	**3870**	**210**	**150**	**260**	**420**	**110**
Endosulfan Sulfate	ug/kg		**1050**	**350**	**48**	50 U	70 U	**65**	100 U	**1000**	**2420**	**200**	**260**	**3240**	**79**	**88**	**1690**	**610**	**540**
Endosulfan (Total)	ug/kg	2,400	**1440 JT**	**438 T**	**308 T**	50 UT	70 UT	**95 T**	100 UT	**1500 T**	**43420 T**	**230 T**	**1180 T**	**9820 T**	**479 T**	**398 T**	**2070 T**	**1410 T**	**670 T**
Endrin Ketone	ug/kg		30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 U	40 U	40 UJ	40 UJ
Heptachlor	ug/kg	220	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ
Heptachlor Epoxide	ug/kg	110	30 U	88 U	40 U	50 U	70 U	30 U	100 U	150 U	50 U	30 U	40 U	100 U	50 U	30 U	40 U	40 U	40 U
Methoxychlor	ug/kg	400,000	30 UJ	88 UJ	40 UJ	50 UJ	70 U	30 UJ	100 U	150 U	50 UJ	30 UJ	40 UJ	100 UJ	50 UJ	30 UJ	40 U	40 UJ	40 UJ
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
3,5-Dichlorobenzoic Acid	ug/kg		30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Atrazine	ug/kg	4,500	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Bentazon	ug/kg	2,400,000	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	30 U	40 U	50 U	**6 J**	**10 J**	**10 J**	50 U	50 U	50 U
Chloramben	ug/kg	1,200,000	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Chlorothalonil (Daconil)	ug/kg	91,000	70 U	50 UJ	50 UJ	50 U	70 U	70 UJ	50 U	150 U	**92 J**	70 UJ	100 U	**60 J**	50 U	70 U	100 U	100 U	80 U
Chlorpropham	ug/kg	16,000,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**350**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U

		Sample ID:	G-37-S HC-37 .2- 5	G-38-S HC-38 .2- 5	G-39-S HC-39 .2- 5	G-40-S HC-40 .2- 5	G-41-S HC-41 .2- 5	G-42-S HC-42 .2- 5	G-43-S HC-43 .2- 5	G-44-S HC-44 .2- 5	G-45-S HC-45 .2- 5	G-46-S HC-46 .2- 5	G-47-S HC-47 .2- 5	G-48-A 48ABC .2- 5	G-48-B 48ABC 1- 1	G-48-C 48ABC 2- 2	G-49-S HC-49 .2- 5	G-50-S HC-50 .2- 5	G-51-S HC-51 1- 1
		Location ID:																	
		Date/Time Sampled:	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**500**	70 U	100 U	**50 J**	50 U	70 U	100 U	100 U	80 U
Dicofol	ug/kg		70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Diphenamid	ug/kg	2,400,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Eptam	ug/kg	2,000,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Metolachlor	ug/kg	12,000,000	70 U	50 U	50 U	50 U	70 U	70 U	50 UJ	150 U	50 U	70 U	100 U	100 U	50 U	**50 J**	100 U	100 U	80 U
Metribuzin	ug/kg	2,000,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Napropamide	ug/kg	8,000,000	**60 J**	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**750**	70 U	100 U	**160**	50 U	70 U	**180**	100 U	80 U
Prometon (Pramitol 5p)	ug/kg	1,200,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Propazine	ug/kg	1,600,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Simazine	ug/kg	8,300	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Terbacil	ug/kg	1,000,000	70 U	50 U	50 UJ	50 U	70 U	70 U	50 U	150 U	50 U	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Terbutryn (Igran)	ug/kg	80,000	**76**	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**4400**	70 U	100 U	**650**	**180**	**110**	100 U	100 U	80 U
Total DCPA diacid (Chlorthal)	ug/kg		30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**10 J**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
trans-Permethrin	ug/kg		70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**550**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Triadimefon	ug/kg	480,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**450**	70 U	100 U	100 U	50 U	70 U	100 U	100 U	80 U
Trichlopyr	ug/kg		30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Trifluralin	ug/kg	130,000	**110**	50 U	50 U	50 U	70 U	70 U	50 U	**230**	**17900**	70 U	100 U	**170**	**480**	**150**	100 U	**280 J**	**120**
Vernolate	ug/kg	10,000	70 U	50 U	50 U	50 U	70 U	70 U	50 U	150 U	**1560**	70 U	100 U	**50 J**	50 U	**63**	100 U	100 U	80 U
Dinoseb	ug/kg	524	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	**220**	40 U	50 U	60 U	**10 J**	40 U	50 U	50 U	50 U
MCPA	ug/kg	40,000	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
2,4-D	ug/kg	800,000	40 U	105 U	50 U	30 U	40 U	40 U	60 U	90 U	30 U	40 U	50 U	60 U	40 U	40 U	50 U	50 U	50 U
2,4-DB	ug/kg	640,000	**20 J**	350 U	160 U	100 U	140 U	140 U	200 U	290 U	100 U	140 U	180 U	190 U	**20 J**	140 U	170 U	170 U	160 U
2,4,5-T	ug/kg	800,000	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	20 U	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Dicamba	ug/kg	2,200	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**20 J**	30 U	40 U	40 U	**37**	**38**	30 U	30 U	30 U
Dichlorprop	ug/kg		70 U	175 U	80 U	50 U	70 U	70 U	100 U	145 U	50 U	70 U	90 U	90 U	60 U	70 U	90 U	90 U	80 U
Pentachlorophenol	ug/kg	4,500	30 U	70 U	30 U	**20 J**	**30**	30 U	**40**	60 U	**69**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	30 U	70 U	30 U	20 U	30 U	30 U	40 U	60 U	**10 J**	30 U	40 U	40 U	30 U	30 U	30 U	30 U	30 U
Metals by SW6010/6020																			
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	G-52-S HC-52 .2- 5	G-53-S HC-53 .2- 5	G-54-SP HC-54 .2- 5	G-55-SP HC-55 .2- 5	G-56-SP HC-56 .2- 5	G-57-SP HC-57 .2- 5	G-60-SED HC-60 .2- 5	G-61-SED HC-61 .2- 5	G-62-S HC-62 .2- 5	G-67-SED HC-67 .2- 5	G-68-SED HC-68 .2- 5	G-69-SED HC-69 .2- 5	G-70 HC-70 .2- 5	G-71 HC-71 .2- 5	G-72 HC-72 .2- 5	G-73-SED HC-73 .2- 5	G-74-SED HC-74 .2- 5
		Location ID:																	
		Date/Time Sampled:	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	7/13/2006	7/13/2006	7/13/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		180 U	150 U	**120**	100 U	100 U	130 U	500 U	130 U	100 U	–	–	–	–	–	–	–	–
Alachlor	ug/kg	12,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Azinphos-methyl	ug/kg		100 U	80 U	100 U	50 U	50 U	100 U	250 U	100 U	50 U	–	–	–	–	–	–	–	–
Chlorpyriphos	ug/kg	240,000	100 U	80 U	100 U	50 U	50 U	100 U	250 U	100 U	50 U	–	–	–	–	–	–	–	–
Methyl Parathion	ug/kg	20,000	100 U	80 U	100 U	50 U	50 U	100 U	250 U	100 U	50 U	–	–	–	–	–	–	–	–
Parathion (ethyl)	ug/kg	480,000	100 U	80 U	100 U	50 U	50 U	**270 J**	250 U	100 U	50 U	–	–	–	–	–	–	–	–
Aldrin	ug/kg	59	40 U	25 U	25 U	50 U	25 U	30 U	**510**	70 U	25 U	–	–	–	–	–	–	–	–
Lindane (Gamma-BHC)	ug/kg	770	40 U	25 U	25 U	50 UJ	25 U	30 U	125 U	70 UJ	25 U	–	–	–	–	–	–	–	–
alpha-Chlordane (cis)	ug/kg		40 U	25 U	**75**	50 U	**30 J**	**140**	**540**	**170**	25 U	–	–	–	–	–	–	–	–
gamma-Chlordane (relic CAS #)	ug/kg		40 U	25 U	**94**	**63**	**48**	**160**	**560**	**240**	25 U	–	–	–	–	–	–	–	–
Chlordane (Total)	ug/kg	2,050	40 UT	25 UT	**169 T**	**88 T**	**78 JT**	**300 T**	**1100 T**	**410 T**	25 UT	–	–	–	–	–	–	–	–
4,4'-DDT	ug/kg	2,900	40 UJ	25 UJ	25 UJ	50 UJ	25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	–	–	–	–	–	–	–	–
4,4'-DDE	ug/kg	2,900	40 U	25 U	25 U	50 U	25 U	30 U	125 U	70 U	25 U	–	–	–	–	–	–	–	–
4,4'-DDD	ug/kg	4,200	40 U	25 U	25 U	50 U	25 U	30 U	125 U	70 U	25 U	–	–	–	–	–	–	–	–
Total DDT (4,4 isomers)	ug/kg	750	40 UT	25 UT	25 UT	50 UT	25 UT	30 UT	125 UT	70 UT	25 UT	–	–	–	–	–	–	–	–
Dieldrin	ug/kg	63	40 U	25 U	25 U	50 U	25 U	30 U	**670**	70 U	25 U	–	–	–	–	–	–	–	–
Endosulfan I	ug/kg		40 U	**30**	**77**	50 U	**33**	**33**	**10700**	**26900**	**45**	**91500**	**89600**	**6700**	**1300**	100 U	**3100**	**91000**	**61000**
Endosulfan II	ug/kg		**44**	**77**	**210**	50 U	**140**	**190**	**14900**	**16100**	**54**	**58800**	**56700**	**11000**	**770**	100 U	**1700**	**59000**	**45000**
Endosulfan Sulfate	ug/kg		**180**	**440**	**700**	**170**	**440**	**410**	**9500**	**3090**	**20 J**	**7700**	**6600**	**9700**	**100**	100 U	100 U	**9900**	**8600**
Endosulfan (Total)	ug/kg	2,400	**244 T**	**547 T**	**987 T**	**220 T**	**613 T**	**633 T**	**35100 T**	**46090 T**	**119 JT**	**158000 T**	**152900 T**	**27400 T**	**2170 T**	100 UT	**4850 T**	**159900 T**	**114600 T**
Endrin Ketone	ug/kg		40 UJ	25 UJ	25 UJ	50 UJ	25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	–	–	–	–	–	–	–	–
Heptachlor	ug/kg	220	40 UJ	25 UJ	25 UJ	50 UJ	25 UJ	30 UJ	125 UJ	70 UJ	25 UJ	–	–	–	–	–	–	–	–
Heptachlor Epoxide	ug/kg	110	40 U	25 U	**30 J**	**45**	**8 J**	30 U	125 U	70 U	25 U	–	–	–	–	–	–	–	–
Methoxychlor	ug/kg	400,000	40 UJ	25 UJ	25 UJ	50 UJ	25 U	30 UJ	125 UJ	70 UJ	25 UJ	–	–	–	–	–	–	–	–
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
3,5-Dichlorobenzoic Acid	ug/kg		40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
Atrazine	ug/kg	4,500	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Bentazon	ug/kg	2,400,000	50 U	45 U	40 U	30 U	30 U	40 U	150 U	40 U	30 U	–	–	–	–	–	–	–	–
Chloramben	ug/kg	1,200,000	40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	100 U	80 U	**60 J**	50 U	**320**	100 U	**320**	**3860**	50 U	–	–	–	–	–	–	–	–
Chlorpropham	ug/kg	16,000,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	**110**	50 U	–	–	–	–	–	–	–	–

		Sample ID:	G-52-S	G-53-S	G-54-SP	G-55-SP	G-56-SP	G-57-SP	G-60-SED	G-61-SED	G-62-S	G-67-SED	G-68-SED	G-69-SED	G-70	G-71	G-72	G-73-SED	G-74-SED
		Location ID:	HC-52	HC-53	HC-54	HC-55	HC-56	HC-57	HC-60	HC-61	HC-62	HC-67	HC-68	HC-69	HC-70	HC-71	HC-72	HC-73	HC-74
			.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	12/5/2005	7/13/2006	7/13/2006	7/13/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		100 U	80 U	50 U	50 U	50 U	100 U	250 U	**760**	50 U	–	–	–	–	–	–	–	–
Dicofol	ug/kg		100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Diphenamid	ug/kg	2,400,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Eptam	ug/kg	2,000,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	**190**	50 U	–	–	–	–	–	–	–	–
Metolachlor	ug/kg	12,000,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Metribuzin	ug/kg	2,000,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Napropamide	ug/kg	8,000,000	100 U	80 U	**190**	**79**	**170**	**270**	**320**	**380**	50 U	–	–	–	–	–	–	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	100 U	80 U	50 U	50 U	**40 J**	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Propazine	ug/kg	1,600,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Simazine	ug/kg	8,300	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Terbacil	ug/kg	1,000,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Terbutryn (Igran)	ug/kg	80,000	100 U	80 U	50 U	50 U	50 U	100 U	**3210**	**2910**	50 U	–	–	–	–	–	–	–	–
Total DCPA diacid (Chlorthal)	ug/kg		40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
trans-Permethrin	ug/kg		100 U	80 U	50 U	50 U	50 U	100 U	250 U	**930**	50 U	–	–	–	–	–	–	–	–
Triadimefon	ug/kg	480,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	**110 J**	50 U	–	–	–	–	–	–	–	–
Trichlopyr	ug/kg		40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
Trifluralin	ug/kg	130,000	100 U	80 U	**1800**	**130**	**430 J**	**640**	**2530**	**4810**	**540 J**	–	–	–	–	–	–	–	–
Vernolate	ug/kg	10,000	100 U	80 U	50 U	50 U	50 U	100 U	250 U	**750**	50 U	–	–	–	–	–	–	–	–
Dinoseb	ug/kg	524	50 U	45 U	**610**	**8 J**	**300**	**750**	**40 J**	**20 J**	**8 J**	–	–	–	–	–	–	–	–
MCPA	ug/kg	40,000	40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
2,4-D	ug/kg	800,000	50 U	45 U	40 U	30 U	30 U	40 U	150 U	40 U	30 U	–	–	–	–	–	–	–	–
2,4-DB	ug/kg	640,000	180 U	150 U	140 U	100 U	100 U	130 U	500 U	130 U	100 U	–	–	–	–	–	–	–	–
2,4,5-T	ug/kg	800,000	40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
Dicamba	ug/kg	2,200	40 U	30 U	30 U	20 U	20 U	30 U	100 U	**20 J**	20 U	–	–	–	–	–	–	–	–
Dichlorprop	ug/kg		90 U	75 U	70 U	50 U	50 U	60 U	250 U	60 U	50 U	–	–	–	–	–	–	–	–
Pentachlorophenol	ug/kg	4,500	40 U	30 U	**59**	**20 J**	**26**	**44**	100 U	**170**	20 U	–	–	–	–	–	–	–	–
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	40 U	30 U	30 U	20 U	20 U	30 U	100 U	30 U	20 U	–	–	–	–	–	–	–	–
Metals by SW6010/6020																			
Arsenic	mg/kg	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Xylene, o-	ug/kg	88,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	G-75-SED HC-75 .2- 5	G-76-SED HC-76 .2- 5	G-77-SED HC-77 .2- 5	G-78-SED HC-78 .2- 5	G-79-SED HC-79 .2- 5	G-80-SED HC-80 .2- 5	G-81-SED HC-81 .2- 5	G-82-SED HC-82 .2- 5	G-83-SED HC-83 .2- 5	G-84-SED HC-84 .2- 5	G-85-SED HC-85 .2- 5	HC-01 HC-01 .2- 5	HC-02 HC-02 .2- 5	HC-03 HC-03 .2- 5	HC-04 HC-04 .2- 5	HC-05 HC-05 .2- 5	HC-06 HC-06 .2- 5
		Location ID:																		
		Date/Time Sampled:	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	100 U	**50 J**	100 U	**30 J**	100 U	100 U
Alachlor	ug/kg	12,000	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Azinphos-methyl	ug/kg		–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Chlorpyriphos	ug/kg	240,000	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Methyl Parathion	ug/kg	20,000	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Parathion (ethyl)	ug/kg	480,000	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Aldrin	ug/kg	59	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Lindane (Gamma-BHC)	ug/kg	770	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
alpha-Chlordane (cis)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	**40 J**	**30 J**	**10 J**	**130**	**31**	25 U
gamma-Chlordane (relic CAS #)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	**61**	**47**	**10 J**	**130**	**31**	**10 J**
Chlordane (Total)	ug/kg	2,050	–	–	–	–	–	–	–	–	–	–	–	**101 JT**	**77 JT**	**20 JT**	**260 T**	**62 T**	**22.5 JT**
4,4'-DDT	ug/kg	2,900	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
4,4'-DDE	ug/kg	2,900	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
4,4'-DDD	ug/kg	4,200	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Total DDT (4,4 isomers)	ug/kg	750	–	–	–	–	–	–	–	–	–	–	–	25 UT	25 UT	25 UT	25 UT	25 UT	25 UT
Dieldrin	ug/kg	63	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Endosulfan I	ug/kg		**13100**	**38600**	**24600**	**61200**	**36700**	**66400**	**27700**	**300**	**92200**	**10,900**	**1,300**	**2,600**	**3,080**	**10 J**	**35**	**27**	25 U
Endosulfan II	ug/kg		**9100**	**24800**	**45500**	**44200**	**26900**	**49800**	**30300**	**1780**	**92500**	**35,100**	**4,020**	**9890**	**4,390**	**66**	**140**	**150**	**10 J**
Endosulfan Sulfate	ug/kg		**1200**	**1480**	**37500**	**15900**	**3200**	**3090**	**9820**	**3940**	**18500**	**41,600**	**5,660**	**1950**	**1,910**	**35**	**73**	**38**	**32 J**
Endosulfan (Total)	ug/kg	2,400	**23400 T**	**64880 T**	**107600 T**	**121300 T**	**66800 T**	**119290 T**	**67820 T**	**6020 T**	**203200 T**	**87,600 T**	**10,980 T**	**14,440 T**	**9,380 T**	**111 JT**	**248 T**	**215 T**	**54.5 JT**
Endrin Ketone	ug/kg		–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Heptachlor	ug/kg	220	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Heptachlor Epoxide	ug/kg	110	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Methoxychlor	ug/kg	400,000	–	–	–	–	–	–	–	–	–	–	–	25 U	25 U	25 U	25 U	25 U	25 U
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5000 U
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		–	–	–	–	–	–	–	–	–	–	–	20 U	20 U	20 U	20 U	20 U	20 U
3,5-Dichlorobenzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–	–	20 U	20 U	20 U	20 U	20 U	20 U
Atrazine	ug/kg	4,500	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U
Bentazon	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	30 U	30 U	30 U	30 U	30 U	30 U
Chloramben	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	–	–	–	–	–	–	–	–	–	–	–	**290**	**60**	50 U	50 U	50 U	50 U
Chlorpropham	ug/kg	16,000,000	–	–	–	–	–	–	–	–	–	–	–	50 U	50 U	50 U	50 U	50 U	50 U

		Sample ID:	G-75-SED HC-75	G-76-SED HC-76	G-77-SED HC-77	G-78-SED HC-78	G-79-SED HC-79	G-80-SED HC-80	G-81-SED HC-81	G-82-SED HC-82	G-83-SED HC-83	G-84-SED HC-84	G-85-SED HC-85	HC-01 HC-01	HC-02 HC-02	HC-03 HC-03	HC-04 HC-04	HC-05 HC-05	HC-06 HC-06
		Location ID:	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	8/2/2006	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005	11/16/2005
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	**150**	50 U	**40 J**
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	**56**
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	--	--	--	**780**	50 U	50 U	**1,310**	**5,950**	50 U
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Dinoseb	ug/kg	524	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	**44**	30 U	30 U
MCPA	ug/kg	40,000	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
2,4-D	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	30 U	30 U	30 U
2,4-DB	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	100 U	100 U	100 U
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
Dicamba	ug/kg	2,200	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
Dichlorprop	ug/kg		--	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	50 U
Pentachlorophenol	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	**10 J**	20 U	20 U	20 U	20 U	20 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	20 U	20 U	20 U
Metals by SW6010/6020																			
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	HC-07	HC-08	HC-09	HC-10	HC-100	HC-101	HC-102	HC-103	HC-104	HC-105	HC-106	HC-107	HC-108	HC-109	HC-11	HC-110	HC-111
		Location ID:	HC-07 .2- 5	HC-08 .2- 5	HC-09 .2- 5	HC-10 .2- 5	HC-100 .2- 5	HC-101 .2- 5	HC-102 .2- 5	HC-103 .2- 5	HC-104 .2- 5	HC-105 .2- 5	HC-106 .2- 5	native 107 .2- 5	native 108 .2- 5	native 109 .2- 5	HC-11 .2- 5	HC-110 .2- 5	HC-111 .2- 5
		Date/Time Sampled:	11/16/2005	11/16/2005	11/16/2005	11/16/2005	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	11/16/2005	12/7/2006	12/7/2006
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		100 U	100 U	100 U	100 U	–	–	–	–	–	–	–	–	–	–	1000 U	–	–
Alachlor	ug/kg	12,000	50 U	50 U	**50**	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Azinphos-methyl	ug/kg		50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Chlorpyriphos	ug/kg	240,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**350**	–	–
Methyl Parathion	ug/kg	20,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Parathion (ethyl)	ug/kg	480,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Aldrin	ug/kg	59	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Lindane (Gamma-BHC)	ug/kg	770	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
alpha-Chlordane (cis)	ug/kg		25 U	25 U	25 U	**2490**	–	–	–	–	–	–	–	–	–	–	**30 J**	–	–
gamma-Chlordane (relic CAS #)	ug/kg		25 U	25 U	25 U	**2530**	–	–	–	–	–	–	–	–	–	–	**30 J**	–	–
Chlordane (Total)	ug/kg	2,050	25 UT	25 UT	25 UT	**5020 T**	–	–	–	–	–	–	–	–	–	–	**60 JT**	–	–
4,4'-DDT	ug/kg	2,900	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
4,4'-DDE	ug/kg	2,900	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
4,4'-DDD	ug/kg	4,200	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Total DDT (4,4 isomers)	ug/kg	750	25 UT	25 UT	25 UT	25 UT	–	–	–	–	–	–	–	–	–	–	25 UT	–	–
Dieldrin	ug/kg	63	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Endosulfan I	ug/kg		25 U	**19 J**	25 U	25 U	200 U	200 U	100 U	100 U	200 U	100 U	100 U	**1050**	**260**	**250**	**250**	**17000**	**1600**
Endosulfan II	ug/kg		25 U	**140**	**60**	**260**	200 U	200 U	100 U	100 U	200 U	100 U	100 U	**1200**	**200**	**1000**	**290**	**22600**	**4940**
Endosulfan Sulfate	ug/kg		25 U	**190**	**70**	**380**	500 U	200 U	100 U	100 U	500 U	**150**	100 U	**540**	100 U	**1400**	**76**	**16500**	**17500**
Endosulfan (Total)	ug/kg	2,400	25 UT	**349 JT**	**142.5 T**	**652.5 T**	500 UT	200 UT	100 UT	100 UT	500 UT	**250 T**	100 UT	**2790 T**	**510 T**	**2650 T**	**616 T**	**56100 T**	**24040 T**
Endrin Ketone	ug/kg		25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Heptachlor	ug/kg	220	25 U	25 U	25 U	**43**	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Heptachlor Epoxide	ug/kg	110	25 U	25 U	25 U	**81**	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Methoxychlor	ug/kg	400,000	25 U	25 U	25 U	25 U	–	–	–	–	–	–	–	–	–	–	25 U	–	–
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	200 U	–	–
3,5-Dichlorobenzoic Acid	ug/kg		20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	200 U	–	–
Atrazine	ug/kg	4,500	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**2120**	–	–
Bentazon	ug/kg	2,400,000	30 U	30 U	30 U	30 U	–	–	–	–	–	–	–	–	–	–	**230**	–	–
Chloramben	ug/kg	1,200,000	20 U	–	–	20 U	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**770**	–	–
Chlorpropham	ug/kg	16,000,000	50 U	50 U	50 U	**75**	–	–	–	–	–	–	–	–	–	–	**85**	–	–

		Sample ID:	HC-07	HC-08	HC-09	HC-10	HC-100	HC-101	HC-102	HC-103	HC-104	HC-105	HC-106	HC-107	HC-108	HC-109	HC-11	HC-110	HC-111
		Location ID:	HC-07	HC-08	HC-09	HC-10	HC-100	HC-101	HC-102	HC-103	HC-104	HC-105	HC-106	native 107	native 108	native 109	HC-11	HC-110	HC-111
			.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	11/16/2005	11/16/2005	11/16/2005	11/16/2005	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	9/25/2006	11/16/2005	12/7/2006	12/7/2006
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Dicofol	ug/kg		50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Diphenamid	ug/kg	2,400,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Eptam	ug/kg	2,000,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Metolachlor	ug/kg	12,000,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**110**	–	–
Metribuzin	ug/kg	2,000,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Napropamide	ug/kg	8,000,000	50 U	**190**	**70 J**	50 U	–	–	–	–	–	–	–	–	–	–	**1760**	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**150**	–	–
Propazine	ug/kg	1,600,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Simazine	ug/kg	8,300	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**2360**	–	–
Terbacil	ug/kg	1,000,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	5000 U	–	–
Terbutryn (Igran)	ug/kg	80,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**2350**	–	–
Total DCPA diacid (Chlorthal)	ug/kg		20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	**170 J**	–	–
trans-Permethrin	ug/kg		50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Triadimefon	ug/kg	480,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Trichlopyr	ug/kg		20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	200 U	–	–
Trifluralin	ug/kg	130,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	**7370**	–	–
Vernolate	ug/kg	10,000	50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	50 U	–	–
Dinoseb	ug/kg	524	30 U	**45**	**130**	**110**	–	–	–	–	–	–	–	–	–	–	**70200**	–	–
MCPA	ug/kg	40,000	20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	**310**	–	–
2,4-D	ug/kg	800,000	30 U	30 U	30 U	30 U	–	–	–	–	–	–	–	–	–	–	**870**	–	–
2,4-DB	ug/kg	640,000	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–	–	–	–	1000 U	–	–
2,4,5-T	ug/kg	800,000	20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	200 U	–	–
Dicamba	ug/kg	2,200	20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	**540**	–	–
Dichlorprop	ug/kg		50 U	50 U	50 U	50 U	–	–	–	–	–	–	–	–	–	–	500 U	–	–
Pentachlorophenol	ug/kg	4,500	20 U	20 U	20 U	**10 J**	–	–	–	–	–	–	–	–	–	–	**70 J**	–	–
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	20 U	20 U	20 U	20 U	–	–	–	–	–	–	–	–	–	–	200 U	–	–
Metals by SW6010/6020																			
Arsenic	mg/kg	20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Xylene, o-	ug/kg	88,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	HC-112 HC-112 .2- 5	HC-113 HC-113 .2- 5	HC-114 HC-114 .2- 5	HC-115 HC-115 .2- 5	HC-116 HC-116 .2- 5	HC-117 HC-117 .2- 5	HC-118 HC-118 .2- 5	HC-119 HC-119 .2- 5	HC-12 HC-12 .2- 5	HC-120 HC-120 .2- 5	HC-121 HC-121 .2- 5	HC-122 HC-122 .2- 5	HC-123 HC-123 .2- 5	HC-124 HC-124 .2- 5	HC-125 HC-125 .2- 5	HC-126 HC-126 .2- 5	HC-127 HC-127 .2- 5
		Location ID:																	
		Date/Time Sampled:	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	11/16/2005	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	1000 U	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	**4450**	--	--	--	--	--	--	--	--
Azinphos-methyl	ug/kg		--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Chlorpyriphos	ug/kg	240,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/kg		--	--	--	--	--	--	--	--	**230**	--	--	--	--	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	--	--	--	--	--	**210**	--	--	--	--	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	--	--	--	--	--	--	**440 T**	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	--	--	--	--	--	25 UT	--	--	--	--	--	--	--	--
Dieldrin	ug/kg	63	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Endosulfan I	ug/kg		**7750000**	**101000**	**1600**	**720**	**350**	400 U	**9700**	**36900**	**1290**	400 U	300 U	300 U	900 U	400 U	400 U	600 U	800 U
Endosulfan II	ug/kg		**3380000**	**72400**	**6110**	**500 J**	**2280**	400 U	**16800**	**47900**	**1960**	400 U	300 U	300 U	900 U	**570**	400 U	600 U	800 U
Endosulfan Sulfate	ug/kg		**30000**	**12000**	**8230**	**3020**	**13500**	400 U	**50700**	**81200**	**71**	**1500**	**450**	**100 J**	900 U	**4380**	**2600**	**2300**	**4100**
Endosulfan (Total)	ug/kg	2,400	**11160000 T**	**185400 T**	**15940 T**	**4240 JT**	**16130 T**	400 UT	**77200 T**	**166000 T**	**3321 T**	**1900 T**	**750 T**	**400 JT**	900 UT	**5150 T**	**3000 T**	**2900 T**	**4900 T**
Endrin Ketone	ug/kg		--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Heptachlor	ug/kg	220	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	**11500**	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	300 U	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	--	**82**	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	**110**	--	--	--	--	--	--	--	--

		Sample ID:	HC-112	HC-113	HC-114	HC-115	HC-116	HC-117	HC-118	HC-119	HC-12	HC-120	HC-121	HC-122	HC-123	HC-124	HC-125	HC-126	HC-127
		Location ID:	HC-112	HC-113	HC-114	HC-115	HC-116	HC-117	HC-118	HC-119	HC-12	HC-120	HC-121	HC-122	HC-123	HC-124	HC-125	HC-126	HC-127
			.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	11/16/2005	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	**4140**	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	**2010**	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	**710**	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	**440**	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	**6030**	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	**7770**	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	**7250**	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	**26700**	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	50 U	--	--	--	--	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	--	--	--	--	--	**126000**	--	--	--	--	--	--	--	--
MCPA	ug/kg	40,000	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
2,4-D	ug/kg	800,000	--	--	--	--	--	--	--	--	300 U	--	--	--	--	--	--	--	--
2,4-DB	ug/kg	640,000	--	--	--	--	--	--	--	--	1000 U	--	--	--	--	--	--	--	--
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Dichlorprop	ug/kg		--	--	--	--	--	--	--	--	500 U	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	4,500	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--	--	--	--
Metals by SW6010/6020																			
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	HC-128 HC-128 .2- 5	HC-129 HC-129 .2- 5	HC-130 HC-130 .2- 5	HC-131 HC-131 .2- 5	HC-132 HC-132 .2- 5	HC-133 HC-133 .2- 5	HC-135 HC-135 .2- 5	HC-136 HC-136 .2- 5	HC-137 HC-137 .2- 5	HC-139 HC-139 .2- 5	HC-141 HC-141 .2- 5	HC-143 HC-143 .2- 5	HC-145 HC-145 .2- 5	HC-147 HC-147 .2- 5	HC-148 HC-148 .2- 5	HC-149 HC-149 .2- 5	HC-150 HC-150 .2- 5
		Location ID:																	
		Date/Time Sampled:	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Azinphos-methyl	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpyriphos	ug/kg	240,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aldrin	ug/kg	59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane (cis)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	ug/kg	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	ug/kg		500 U	500 U	500 U	700 U	1000 U	400 U	300 U	400 U	500 U	500 U	400 U	500 U	600 U	500 U	400 U	600 U	**27100**
Endosulfan II	ug/kg		500 U	500 U	500 U	700 U	1000 U	400 U	300 U	400 U	500 U	500 U	400 U	500 U	600 U	500 U	400 U	600 U	**21000**
Endosulfan Sulfate	ug/kg		**970**	500 U	**1600**	**1700**	1000 U	400 U	300 U	400 U	**300**	500 U	400 U	**1400**	600 U	500 U	400 U	600 U	**4300**
Endosulfan (Total)	ug/kg	2,400	**1470 T**	500 UT	**2100 T**	**2400 T**	1000 UT	400 UT	300 UT	400 UT	**800 T**	500 UT	400 UT	**1900 T**	600 UT	500 UT	400 UT	600 UT	**52400 T**
Endrin Ketone	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	ug/kg	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	HC-128 HC-128	HC-129 HC-129	HC-130 HC-130	HC-131 HC-131	HC-132 HC-132	HC-133 HC-133	HC-135 HC-135	HC-136 HC-136	HC-137 HC-137	HC-139 HC-139	HC-141 HC-141	HC-143 HC-143	HC-145 HC-145	HC-147 HC-147	HC-148 HC-148	HC-149 HC-149	HC-150 HC-150
		Location ID:	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	12/7/2006	12/7/2006	12/7/2006	12/7/2006	12/7/2006	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007	2/16/2007
	Units	**Proposed Cleanup Level**																	
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MCPA	ug/kg	40,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-D	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-DB	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dicamba	ug/kg	2,200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorprop	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals by SW6010/6020																			
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	HC-151 HC-151 .2- 5	HC-152 HC-152 .2- 5	HC-153 HC-153 .2- 5	HC-154 HC-154 .2- 5	HC-155 HC-155 .2- 5	HC-157 HC-157 .2- 5	HC-158 HC-158 .2- 5	HC-159 HC-159 .2- 5	HC-160 HC-160 .2- 5	HC-161 HC-161 .2- 5	HC-25A HC-25ABC .2- 5	HC-25B HC-25ABC 1- 1	HC-25C HC-25ABC 2- 2	HC-86 HC-86 .2- 5	HC-87 HC-87 .2- 5	HC-88 HC-88 .2- 5	HC-89 HC-89 .2- 5
		Location ID:																	
		Date/Time Sampled:	2/16/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	11/16/2005	11/16/2005	11/16/2005	9/7/2006	9/7/2006	9/7/2006	9/7/2006
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
Alachlor	ug/kg	12,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Azinphos-methyl	ug/kg		--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Chlorpyriphos	ug/kg	240,000	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Methyl Parathion	ug/kg	20,000	--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Parathion (ethyl)	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	**310 J**	50 U	50 U	--	--	--	--
Aldrin	ug/kg	59	--	--	--	--	--	--	--	--	--	--	**120**	25 U	25 U	--	--	--	--
Lindane (Gamma-BHC)	ug/kg	770	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
alpha-Chlordane (cis)	ug/kg		--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
gamma-Chlordane (relic CAS #)	ug/kg		--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Chlordane (Total)	ug/kg	2,050	--	--	--	--	--	--	--	--	--	--	25 UT	25 UT	25 UT	--	--	--	--
4,4'-DDT	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
4,4'-DDE	ug/kg	2,900	--	--	--	--	--	--	--	--	--	--	**100**	25 U	25 U	--	--	--	--
4,4'-DDD	ug/kg	4,200	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Total DDT (4,4 isomers)	ug/kg	750	--	--	--	--	--	--	--	--	--	--	**125 T**	25 UT	25 UT	--	--	--	--
Dieldrin	ug/kg	63	--	--	--	--	--	--	--	--	--	--	**100 J**	25 U	25 U	--	--	--	--
Endosulfan I	ug/kg		**3700**	**325000**	**22000**	100 U	**1600**	300 U	**1400**	**3140**	**12600**	700 U	**8200**	**10 J**	**140**	**3200**	250 U	250 U	**300**
Endosulfan II	ug/kg		**4400**	**230000**	**37000**	100 U	**1800**	300 U	**3710**	**6210**	**13400**	**1300**	**9750**	**10 J**	**170**	**3400**	250 U	250 U	**200 J**
Endosulfan Sulfate	ug/kg		**8730**	**25000**	**34000**	**300**	**2150**	**200**	**6050**	**11500**	**10300**	**4800**	**2560**	25 U	**25 J**	**200 J**	250 U	250 U	300 U
Endosulfan (Total)	ug/kg	2,400	**16830 T**	**580000 T**	**93000 T**	**400 T**	**5550 T**	**500 T**	**11160 T**	**20850 T**	**36300 T**	**6450 T**	**20510 T**	**32.5 JT**	**335 JT**	**6800 JT**	250 UT	250 UT	**650 JT**
Endrin Ketone	ug/kg		--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Heptachlor	ug/kg	220	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Heptachlor Epoxide	ug/kg	110	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Methoxychlor	ug/kg	400,000	--	--	--	--	--	--	--	--	--	--	25 U	25 U	25 U	--	--	--	--
Toxaphene	ug/kg	910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
3,5-Dichlorobenzoic Acid	ug/kg		--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Atrazine	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Bentazon	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
Chloramben	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	--	20 U	20 U	--	--	--	--
Chlorothalonil (Daconil)	ug/kg	91,000	--	--	--	--	--	--	--	--	--	--	**19500**	100 U	**140**	--	--	--	--
Chlorpropham	ug/kg	16,000,000	--	--	--	--	--	--	--	--	--	--	**73**	100 U	60 U	--	--	--	--

		Sample ID:	HC-151 HC-151	HC-152 HC-152	HC-153 HC-153	HC-154 HC-154	HC-155 HC-155	HC-157 HC-157	HC-158 HC-158	HC-159 HC-159	HC-160 HC-160	HC-161 HC-161	HC-25A HC-25ABC	HC-25B HC-25ABC	HC-25C HC-25ABC	HC-86 HC-86	HC-87 HC-87	HC-88 HC-88	HC-89 HC-89
		Location ID:	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	.2- 5	1- 1	2- 2	.2- 5	.2- 5	.2- 5	.2- 5
		Date/Time Sampled:	2/16/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	3/23/2007	11/16/2005	11/16/2005	11/16/2005	9/7/2006	9/7/2006	9/7/2006	9/7/2006
	Units	Proposed Cleanup Level																	
cis-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Dicofol	ug/kg		--	--	--	--	--	--	--	--	--	--	**1520**	100 U	60 U	--	--	--	--
Diphenamid	ug/kg	2,400,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Eptam	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Metolachlor	ug/kg	12,000,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Metribuzin	ug/kg	2,000,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Napropamide	ug/kg	8,000,000	--	--	--	--	--	--	--	--	--	--	**98**	100 U	60 U	--	--	--	--
Prometon (Pramitol 5p)	ug/kg	1,200,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Propazine	ug/kg	1,600,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Simazine	ug/kg	8,300	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Terbacil	ug/kg	1,000,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Terbutryn (Igran)	ug/kg	80,000	--	--	--	--	--	--	--	--	--	--	**1600**	100 U	60 U	--	--	--	--
Total DCPA diacid (Chlorthal)	ug/kg		--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
trans-Permethrin	ug/kg		--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Triadimefon	ug/kg	480,000	--	--	--	--	--	--	--	--	--	--	**1210**	100 U	60 U	--	--	--	--
Trichlopyr	ug/kg		--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Trifluralin	ug/kg	130,000	--	--	--	--	--	--	--	--	--	--	**76**	100 U	60 U	--	--	--	--
Vernolate	ug/kg	10,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	60 U	--	--	--	--
Dinoseb	ug/kg	524	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
MCPA	ug/kg	40,000	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
2,4-D	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	30 U	30 U	30 U	--	--	--	--
2,4-DB	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	100 U	100 U	100 U	--	--	--	--
2,4,5-T	ug/kg	800,000	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Dicamba	ug/kg	2,200	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Dichlorprop	ug/kg		--	--	--	--	--	--	--	--	--	--	50 U	50 U	50 U	--	--	--	--
Pentachlorophenol	ug/kg	4,500	--	--	--	--	--	--	--	--	--	--	**140**	20 U	20 U	--	--	--	--
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	--	--	--	--	--	--	--	--	--	--	20 U	20 U	20 U	--	--	--	--
Metals by SW6010/6020																			
Arsenic	mg/kg	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	4,000,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/kg	88,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

		Sample ID:	HC-90	HC-91	HC-92	HC-93	N-1,2,3,5-COMPOSITE	N6-10	NS-64	NS-65	NS-66	S-10	S1-5	S-6	S6-10	S-7	S-8	S-9	SP-COMP
		Location ID:	HC-90	HC-91	HC-92	HC-93	N3&N8	N3&N8	HC-64	HC-65	HC-66	S5&S10	S3&S8	S1&S6	S3&S8	S2&S7	S3&S8	S4&S9	SPCOMP
		Date/Time Sampled:	.2- 5	.2- 5	.2- 5	.2- 5	1- 1	2- 2	.2- 5	.2- 5	.2- 5	2- 2	1- 1	2- 2	2- 2	2- 2	2- 2	2- 2	
			9/7/2006	9/25/2006	9/25/2006	9/25/2006	2/23/2005	2/23/2005	2/23/2006	2/23/2006	2/23/2006	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	4/20/2001
	Units	Proposed Cleanup Level																	
Chlorinated Pesticides by SW8081A																			
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Alachlor	ug/kg	12,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Azinphos-methyl	ug/kg		–	–	–	–	100 U	100 U	–	–	–	–	100 U	–	100 U	–	–	–	100 U
Chlorpyriphos	ug/kg	240,000	–	–	–	–	100 U	100 U	–	–	–	–	100 U	–	100 U	–	–	–	100 U
Methyl Parathion	ug/kg	20,000	–	–	–	–	20 U	20 U	–	–	–	–	20 U	–	20 U	–	–	–	100 U
Parathion (ethyl)	ug/kg	480,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	**125**
Aldrin	ug/kg	59	–	–	–	–	100 U	100 U	70 U	90 U	50 U	–	100 U	–	100 U	–	–	–	11 U
Lindane (Gamma-BHC)	ug/kg	770	–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	11 U
alpha-Chlordane (cis)	ug/kg		–	–	–	–	100 U	100 U	**94**	**70 J**	50 U	–	100 U	–	100 U	–	–	–	8.8 U
gamma-Chlordane (relic CAS #)	ug/kg		–	–	–	–	100 U	100 U	**110**	**70 J**	50 U	–	100 U	–	100 U	–	–	–	**13.3**
Chlordane (Total)	ug/kg	2,050	–	–	–	–	100 UT	100 UT	**204 T**	**140 JT**	50 UT	–	100 UT	–	100 UT	–	–	–	**17.7 T**
4,4'-DDT	ug/kg	2,900	–	–	–	–	100 U	100 U	**60 J**	90 UJ	50 U	–	100 U	–	100 U	–	–	–	**31.5**
4,4'-DDE	ug/kg	2,900	–	–	–	–	100 U	100 U	70 U	90 U	50 U	–	100 U	–	100 U	–	–	–	11 U
4,4'-DDD	ug/kg	4,200	–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	11 U
Total DDT (4,4 isomers)	ug/kg	750	–	–	–	–	100 UT	100 UT	**130 JT**	90 UT	50 UT	–	100 UT	–	100 UT	–	–	–	**42.5 T**
Dieldrin	ug/kg	63	–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	22 U
Endosulfan I	ug/kg		**100 J**	100 U	600 U	200 U	20 U	20 U	**1830**	**300**	50 U	–	20 U	–	20 U	–	–	–	**1310**
Endosulfan II	ug/kg		**60 J**	100 U	100 U	200 U	20 U	20 U	**6800**	**1620**	**88**	–	20 U	–	20 U	–	–	–	**2920**
Endosulfan Sulfate	ug/kg		300 U	100 U	100 U	**710**	20 U	20 U	**6210**	**1310**	**65**	–	20 U	–	20 U	–	–	–	**2040**
Endosulfan (Total)	ug/kg	2,400	**310 JT**	100 UT	600 UT	**910 T**	20 UT	20 UT	**14840 T**	**3230 T**	**178 T**	–	20 UT	–	20 UT	–	–	–	**6270 T**
Endrin Ketone	ug/kg		–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	22 U
Heptachlor	ug/kg	220	–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	11 U
Heptachlor Epoxide	ug/kg	110	–	–	–	–	–	–	70 U	90 U	50 U	–	–	–	–	–	–	–	11 U
Methoxychlor	ug/kg	400,000	–	–	–	–	–	–	**210**	90 UJ	50 U	–	–	–	–	–	–	–	44 U
Toxaphene	ug/kg	910	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	550 U
Herbicides by SW8151A																			
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		–	–	–	–	20 U	10000 U	–	–	–	–	30 U	–	30 U	–	–	–	5000 U
3,5-Dichlorobenzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Atrazine	ug/kg	4,500	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Bentazon	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Chloramben	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	–	–	–	–	–	–	–	**72000**	–	–	–	–	–	–	–	–	–
Chlorpropham	ug/kg	16,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	HC-90 HC-90	HC-91 HC-91	HC-92 HC-92	HC-93 HC-93	N-1,2,3,5-COMPOSITE N3&N8	N6-10 N3&N8	NS-64 HC-64	NS-65 HC-65	NS-66 HC-66	S-10 S5&S10	S1-5 S3&S8	S-6 S1&S6	S6-10 S3&S8	S-7 S2&S7	S-8 S3&S8	S-9 S4&S9	SP-COMP SPCOMP
		Location ID:	.2- 5	.2- 5	.2- 5	.2- 5	1- 1	2- 2	.2- 5	.2- 5	.2- 5	2- 2	1- 1	2- 2	2- 2	2- 2	2- 2	2- 2	
		Date/Time Sampled:	9/7/2006	9/25/2006	9/25/2006	9/25/2006	2/23/2005	2/23/2005	2/23/2006	2/23/2006	2/23/2006	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	5/23/2005	4/20/2001
	Units	**Proposed Cleanup Level**																	
cis-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Dicofol	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Diphenamid	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Eptam	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Metolachlor	ug/kg	12,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Metribuzin	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Napropamide	ug/kg	8,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Propazine	ug/kg	1,600,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Simazine	ug/kg	8,300	–	–	–	–	–	–	–	**300**	–	–	–	–	–	–	–	–	–
Terbacil	ug/kg	1,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Terbutryn (Igran)	ug/kg	80,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Total DCPA diacid (Chlorthal)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
trans-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Triadimefon	ug/kg	480,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Trichlopyr	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Trifluralin	ug/kg	130,000	–	–	–	–	–	–	–	**180**	–	–	–	–	–	–	–	–	–
Vernolate	ug/kg	10,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Dinoseb	ug/kg	524	–	–	–	–	20 U	10 U	–	–	–	**150**	60 U	30 U	60 U	30 U	30 U	30 U	**98.1**
MCPA	ug/kg	40,000	–	–	–	–	20 U	10000 U	–	–	–	–	30 U	–	30 U	–	–	–	5000 U
2,4-D	ug/kg	800,000	–	–	–	–	20 U	100 U	–	–	–	–	60 U	–	60 U	–	–	–	200 U
2,4-DB	ug/kg	640,000	–	–	–	–	50 U	10 U	–	–	–	–	200 U	–	200 U	–	–	–	100 U
2,4,5-T	ug/kg	800,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	250 U
Dicamba	ug/kg	2,200	–	–	–	–	20 U	100 U	–	–	–	–	30 U	–	30 U	–	–	–	100 U
Dichlorprop	ug/kg		–	–	–	–	20 U	10 U	–	–	–	–	90 U	–	90 U	–	–	–	50 U
Pentachlorophenol	ug/kg	4,500	–	–	–	–	20 U	100 U	–	–	–	–	30 U	–	30 U	–	–	–	200 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	250 U
Metals by SW6010/6020																			
Arsenic	mg/kg	20	–	–	–	–	**1.31**	**6.1**	–	–	–	**3**	1.2 U	**6.1**	**1.4**	**4.5**	**5.1**	**7.2**	–
Volatiles by SW8260																			
1,2,4-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	100 U
1,3,5-Trimethylbenzene	ug/kg	4,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	100 U
Xylene, o-	ug/kg	88,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	100 U

		Sample ID:	SS-10-6" SS-10	SS-11-6" SS-11	SS-12-6" SS-12	SS-13 SS-13	SS-14 SS-14	SS-15 SS-15	SS-1-6" SS-1	SS-16 SS-16	SS-17 SS-17	SS-18 SS-18	SS-2-6" SS-2	SS-3-6" SS-3	SS-4-6" SS-4
		Location ID:	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5
		Date/Time Sampled:	4/20/2001	4/20/2001	4/20/2001	1/7/2004	1/8/2004	1/8/2004	4/20/2001	1/8/2004	1/8/2004	1/8/2004	4/20/2001	4/20/2001	4/20/2001
	Units	Proposed Cleanup Level													
Chlorinated Pesticides by SW8081A															
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Alachlor	ug/kg	12,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Azinphos-methyl	ug/kg		40 U	100 U	200 U	–	–	–	40 U	–	–	–	200 U	40 U	40 U
Chlorpyriphos	ug/kg	240,000	400 U	100 U	200 U	–	–	–	40 U	–	–	–	200 U	40 U	40 U
Methyl Parathion	ug/kg	20,000	**118**	100 U	200 U	–	–	–	40 U	–	–	–	200 U	40 U	40 U
Parathion (ethyl)	ug/kg	480,000	**71.8**	100 U	200 U	–	–	–	40 U	–	–	–	200 U	40 U	40 U
Aldrin	ug/kg	59	11 U	1 U	11 U	–	–	–	1 U	–	–	–	22.9 U	11 U	11 U
Lindane (Gamma-BHC)	ug/kg	770	11 U	1 U	11 U	–	–	–	1 U	–	–	–	22.9 U	11 U	11 U
alpha-Chlordane (cis)	ug/kg		8.8 U	**15.3**	8.8 U	–	–	–	**1.59**	–	–	–	18.3 U	8.8 U	8.8 U
gamma-Chlordane (relic CAS #)	ug/kg		**55.2**	**6.49**	**484**	–	–	–	**1.19**	–	–	–	**33.6**	7.7 U	**21.8**
Chlordane (Total)	ug/kg	2,050	**59.6 T**	**21.79 T**	**488.4 T**	–	–	–	**2.78 T**	–	–	–	**42.75 T**	8.8 UT	**26.2 T**
4,4'-DDT	ug/kg	2,900	**18.5**	**4.83**	11 U	–	–	–	**3.91**	–	–	–	22.9 U	11 U	11 U
4,4'-DDE	ug/kg	2,900	11 U	**3.5**	**138**	–	–	–	**4.34**	–	–	–	22.9 U	11 U	11 U
4,4'-DDD	ug/kg	4,200	11 U	1 U	11 U	–	–	–	1 U	–	–	–	22.9 U	11 U	11 U
Total DDT (4,4 isomers)	ug/kg	750	**29.5 T**	**8.83 T**	**149 T**	–	–	–	**8.75 T**	–	–	–	22.9 UT	11 UT	11 UT
Dieldrin	ug/kg	63	22 U	**2**	22 U	–	–	–	2 U	–	–	–	45.7 U	22 U	22 U
Endosulfan I	ug/kg		**752**	**35.2**	**249000**	–	–	–	**6.59**	–	–	–	**3270**	**329**	**307**
Endosulfan II	ug/kg		**673**	**10.5**	**89700**	–	–	–	**29.6**	–	–	–	**7120**	**305**	**372**
Endosulfan Sulfate	ug/kg		**112**	**79.8**	**386**	–	–	–	**161**	–	–	–	**5440**	**168**	**72.1**
Endosulfan (Total)	ug/kg	2,400	**1537 T**	**125.5 T**	**339086 T**	–	–	–	**197.19 T**	–	–	–	**15830 T**	**802 T**	**751.1 T**
Endrin Ketone	ug/kg		22 U	2 U	22 U	–	–	–	2 U	–	–	–	45.7 U	22 U	22 U
Heptachlor	ug/kg	220	11 U	1 U	11 U	–	–	–	1 U	–	–	–	22.9 U	11 U	11 U
Heptachlor Epoxide	ug/kg	110	11 U	1 U	11 U	–	–	–	1 U	–	–	–	22.9 U	11 U	11 U
Methoxychlor	ug/kg	400,000	44 U	4 U	44 U	–	–	–	4 U	–	–	–	91.4 U	44 U	44 U
Toxaphene	ug/kg	910	550 U	50 U	550 U	–	–	–	50 U	–	–	–	1140 U	550 U	550 U
Herbicides by SW8151A															
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		21000 U	1000 U	5000 U	–	–	–	1000 U	–	–	–	10400 U	51000 U	21000 U
3,5-Dichlorobenzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Atrazine	ug/kg	4,500	–	–	–	–	–	–	–	–	–	–	–	–	–
Bentazon	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Chloramben	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Chlorpropham	ug/kg	16,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	SS-10-6"	SS-11-6"	SS-12-6"	SS-13	SS-14	SS-15	SS-1-6"	SS-16	SS-17	SS-18	SS-2-6"	SS-3-6"	SS-4-6"
		Location ID:	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-1	SS-16	SS-17	SS-18	SS-2	SS-3	SS-4
		Date/Time Sampled:	.5- .5 4/20/2001	.5- .5 4/20/2001	.5- .5 4/20/2001	.5- .5 1/7/2004	.5- .5 1/8/2004	.5- .5 1/8/2004	.5- .5 4/20/2001	.5- .5 1/8/2004	.5- .5 1/8/2004	.5- .5 1/8/2004	.5- .5 4/20/2001	.5- .5 4/20/2001	.5- .5 4/20/2001
	Units	Proposed Cleanup Level													
cis-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Dicofol	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Diphenamid	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Eptam	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Metolachlor	ug/kg	12,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Metribuzin	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Napropamide	ug/kg	8,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Propazine	ug/kg	1,600,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Simazine	ug/kg	8,300	–	–	–	–	–	–	–	–	–	–	–	–	–
Terbacil	ug/kg	1,000,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Terbutryn (Igran)	ug/kg	80,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Total DCPA diacid (Chlorthal)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
trans-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Triadimefon	ug/kg	480,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Trichlopyr	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–	–
Trifluralin	ug/kg	130,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Vernolate	ug/kg	10,000	–	–	–	–	–	–	–	–	–	–	–	–	–
Dinoseb	ug/kg	524	**2150**	10 U	**377**	–	–	–	10 U	–	–	–	**656**	**675000**	**2720**
MCPA	ug/kg	40,000	21000 U	1000 U	5000 U	–	–	–	1000 U	–	–	–	10400 U	51000 U	21000 U
2,4-D	ug/kg	800,000	840 U	40 U	200 U	–	–	–	40 U	–	–	–	416 U	2040 U	840 U
2,4-DB	ug/kg	640,000	420 U	20 U	100 U	–	–	–	20 U	–	–	–	208 U	1020 U	420 U
2,4,5-T	ug/kg	800,000	1050 U	50 U	250 U	–	–	–	50 U	–	–	–	519 U	2550 U	1050 U
Dicamba	ug/kg	2,200	420 U	20 U	100 U	–	–	–	20 U	–	–	–	208 U	1020 U	420 U
Dichlorprop	ug/kg		210 U	10 U	50 U	–	–	–	10 U	–	–	–	104 U	510 U	210 U
Pentachlorophenol	ug/kg	4,500	840 U	40 U	200 U	–	–	–	**111**	–	–	–	416 U	2040 U	840 U
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	1050 U	50 U	250 U	–	–	–	50 U	–	–	–	519 U	2550 U	1050 U
Metals by SW6010/6020															
Arsenic	mg/kg	20	–	–	–	**3.44**	**3.6**	**1.79**	–	**5.24**	**4.57**	**1.52**	–	–	–
Volatiles by SW8260															
1,2,4-Trimethylbenzene	ug/kg	4,000,000	100 U	100 U	100 U	–	–	–	100 U	–	–	–	208 U	100 U	100 U
1,3,5-Trimethylbenzene	ug/kg	4,000,000	100 U	100 U	100 U	–	–	–	100 U	–	–	–	208 U	100 U	100 U
Xylene, o-	ug/kg	88,000	100 U	100 U	100 U	–	–	–	100 U	–	–	–	208 U	100 U	100 U

		Sample ID:	SS-5-6"	SS-6-6"	SS-7-6"	SS-8-6"	SS-9-6"	TP1-1.5	TP2-1.5	TP3-1.5	TP4-1.5	TP5-1.5	TP6-1.5	TP7-1.5
		Location ID:	SS-5	SS-6	SS-7	SS-8	SS-9	TP1	TP2	TP3	TP4	TP5	TP6	TP7
		Date/Time Sampled:	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5
			4/20/2001	4/20/2001	4/20/2001	4/20/2001	4/20/2001	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000
	Units	Proposed Cleanup Level												
Chlorinated Pesticides by SW8081A														
4-Nitrophenol (p-Nitrophenol)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Alachlor	ug/kg	12,000	–	–	–	–	–	–	–	–	–	–	–	–
Azinphos-methyl	ug/kg		200 U	200 U	100 U	100 U	40 U	61 U	**340000**	61 U	61 U	61 U	61 U	61 U
Chlorpyriphos	ug/kg	240,000	**3830**	200 U	100 U	100 U	40 U	61 U	**430**	61 U	61 U	61 U	61 U	**13000**
Methyl Parathion	ug/kg	20,000	200 U	200 U	100 U	100 U	40 U	61 U	61 U	61 U	61 U	61 U	61 U	61 U
Parathion (ethyl)	ug/kg	480,000	200 U	200 U	100 U	100 U	40 U	61 U	61 U	61 U	61 U	61 U	61 U	61 U
Aldrin	ug/kg	59	**136**	5 U	**307**	**1.63**	1 U	–	–	–	–	–	–	–
Lindane (Gamma-BHC)	ug/kg	770	11 U	5 U	21 U	1 U	1 U	–	–	–	–	–	–	–
alpha-Chlordane (cis)	ug/kg		8.8 U	4 U	16.8 U	**3.56**	0.8 U	–	–	–	–	–	–	–
gamma-Chlordane (relic CAS #)	ug/kg		**140**	**220**	**223**	**14.2**	**16**	–	–	–	–	–	–	–
Chlordane (Total)	ug/kg	2,050	**144.4 T**	**222 T**	**231.4 T**	**17.76 T**	**16.4 T**	–	–	–	–	–	–	–
4,4'-DDT	ug/kg	2,900	**1600**	**14.8**	**659**	1 U	1 U	–	–	–	–	–	–	–
4,4'-DDE	ug/kg	2,900	11 U	**14.9**	21 U	1 U	1 U	–	–	–	–	–	–	–
4,4'-DDD	ug/kg	4,200	11 U	5 U	21 U	1 U	1 U	–	–	–	–	–	–	–
Total DDT (4,4 isomers)	ug/kg	750	**1611 T**	**32.2 T**	**680 T**	1 UT	1 UT	–	–	–	–	–	–	–
Dieldrin	ug/kg	63	22 U	10 U	42 U	2 U	2 U	–	–	–	–	–	–	–
Endosulfan I	ug/kg		**56700**	**3470**	**7740**	**4.3**	**1090**	–	–	–	–	–	–	–
Endosulfan II	ug/kg		**24700**	**4590**	**5930**	**61.9**	**837**	–	–	–	–	–	–	–
Endosulfan Sulfate	ug/kg		**137**	**1650**	**363**	**62.6**	**320**	–	–	–	–	–	–	–
Endosulfan (Total)	ug/kg	2,400	**81537 T**	**9710 T**	**14033 T**	**128.8 T**	**2247 T**	–	–	–	–	–	–	–
Endrin Ketone	ug/kg		22 U	10 U	42 U	2 U	2 U	–	–	–	–	–	–	–
Heptachlor	ug/kg	220	11 U	5 U	21 U	1 U	1 U	–	–	–	–	–	–	–
Heptachlor Epoxide	ug/kg	110	11 U	5 U	21 U	1 U	1 U	–	–	–	–	–	–	–
Methoxychlor	ug/kg	400,000	44 U	20 U	84 U	4 U	4 U	–	–	–	–	–	–	–
Toxaphene	ug/kg	910	550 U	250 U	1050 U	50 U	50 U	–	–	–	–	–	–	–
Herbicides by SW8151A														
2-(2-Methyl-4-chlorophenoxy)propian	ug/kg		51000 U	5000 U	1000 U	1000 U	1000 U	5700 U	**27000**	5700 U	5700 U	**15000**	**130000**	5700 U
3,5-Dichlorobenzoic Acid	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Atrazine	ug/kg	4,500	–	–	–	–	–	–	–	–	–	–	–	–
Bentazon	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–
Chloramben	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–
Chlorothalonil (Daconil)	ug/kg	91,000	–	–	–	–	–	–	–	–	–	–	–	–
Chlorpropham	ug/kg	16,000,000	–	–	–	–	–	–	–	–	–	–	–	–

		Sample ID:	SS-5-6"	SS-6-6"	SS-7-6"	SS-8-6"	SS-9-6"	TP1-1.5	TP2-1.5	TP3-1.5	TP4-1.5	TP5-1.5	TP6-1.5	TP7-1.5
		Location ID:	SS-5	SS-6	SS-7	SS-8	SS-9	TP1	TP2	TP3	TP4	TP5	TP6	TP7
		Date/Time Sampled:	.5- .5	.5- .5	.5- .5	.5- .5	.5- .5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5	1.5- 1.5
			4/20/2001	4/20/2001	4/20/2001	4/20/2001	4/20/2001	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000	8/7/2000
	Units	Proposed Cleanup Level												
cis-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Dicofol	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Diphenamid	ug/kg	2,400,000	–	–	–	–	–	–	–	–	–	–	–	–
Eptam	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–
Metolachlor	ug/kg	12,000,000	–	–	–	–	–	–	–	–	–	–	–	–
Metribuzin	ug/kg	2,000,000	–	–	–	–	–	–	–	–	–	–	–	–
Napropamide	ug/kg	8,000,000	–	–	–	–	–	–	–	–	–	–	–	–
Prometon (Pramitol 5p)	ug/kg	1,200,000	–	–	–	–	–	–	–	–	–	–	–	–
Propazine	ug/kg	1,600,000	–	–	–	–	–	–	–	–	–	–	–	–
Simazine	ug/kg	8,300	–	–	–	–	–	–	–	–	–	–	–	–
Terbacil	ug/kg	1,000,000	–	–	–	–	–	–	–	–	–	–	–	–
Terbutryn (Igran)	ug/kg	80,000	–	–	–	–	–	–	–	–	–	–	–	–
Total DCPA diacid (Chlorthal)	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
trans-Permethrin	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Triadimefon	ug/kg	480,000	–	–	–	–	–	–	–	–	–	–	–	–
Trichlopyr	ug/kg		–	–	–	–	–	–	–	–	–	–	–	–
Trifluralin	ug/kg	130,000	–	–	–	–	–	–	–	–	–	–	–	–
Vernolate	ug/kg	10,000	–	–	–	–	–	–	–	–	–	–	–	–
Dinoseb	ug/kg	524	**4320**	**105**	10 U	10 U	**42.5**	**82**	**1900**	28 U	28 U	28 U	**67**	**80**
MCPA	ug/kg	40,000	51000 U	5000 U	1000 U	1000 U	1000 U	5600 U	5600 U	5600 U	5600 U	5600 U	5600 U	5600 U
2,4-D	ug/kg	800,000	2040 U	200 U	40 U	40 U	40 U	45 U	45 U	45 U	45 U	45 U	45 U	45 U
2,4-DB	ug/kg	640,000	1020 U	100 U	20 U	20 U	20 U	46 U	46 U	46 U	46 U	46 U	46 U	46 U
2,4,5-T	ug/kg	800,000	2550 U	250 U	50 U	50 U	50 U	29 U	29 U	29 U	29 U	29 U	**130**	29 U
Dicamba	ug/kg	2,200	1020 U	100 U	20 U	20 U	20 U	28 U	**42**	**68**	28 U	**120**	**1400**	28 U
Dichlorprop	ug/kg		510 U	50 U	**41.3**	**30.4**	**42**	28 U	28 U	28 U	28 U	28 U	28 U	28 U
Pentachlorophenol	ug/kg	4,500	2040 U	200 U	40 U	40 U	40 U	–	–	–	–	–	–	–
Silvex (Fenoprop or 2,4,5-TP)	ug/kg	640,000	2550 U	250 U	50 U	50 U	50 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U
Metals by SW6010/6020														
Arsenic	mg/kg	20	–	–	–	–	–	–	–	–	–	–	–	–
Volatiles by SW8260														
1,2,4-Trimethylbenzene	ug/kg	4,000,000	**114**	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–
1,3,5-Trimethylbenzene	ug/kg	4,000,000	**319**	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–
Xylene, o-	ug/kg	88,000	**151**	100 U	100 U	100 U	100 U	–	–	–	–	–	–	–

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Approximate concentration

UJ = Not detected; the value is an approximate reporting limit.

R = Rejected; this value should not be used for any purpose.

T = Value calculated by GeoEngineers

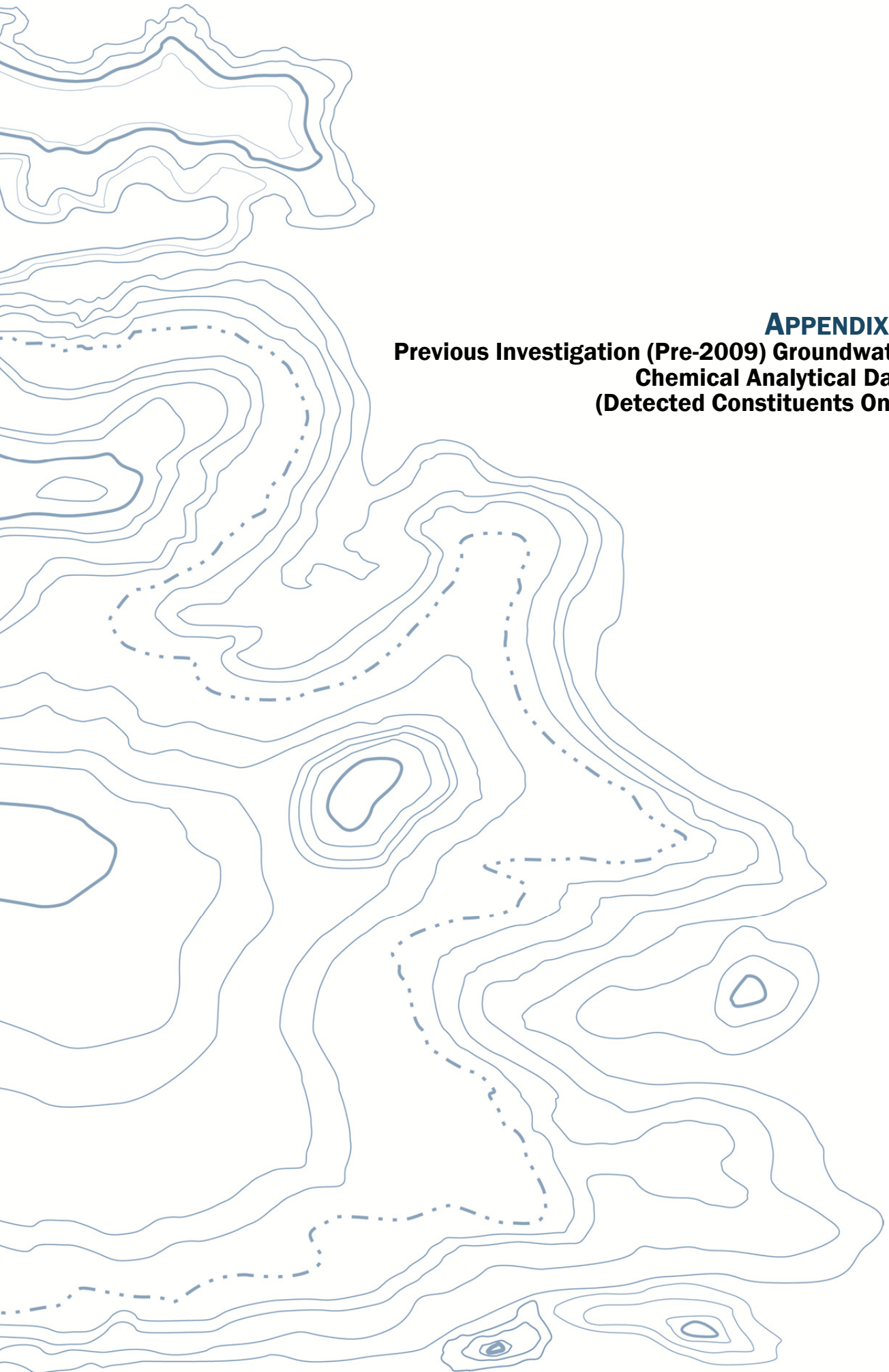
mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

bold = exceeds cleanup level

bold = detection

– = Not analyzed.



APPENDIX C

Previous Investigation (Pre-2009) Groundwater Chemical Analytical Data (Detected Constituents Only)

TABLE C-1

PREVIOUS INVESTIGATION (PRE-2009) GROUNDWATER CHEMICAL ANALYTICAL DATA (DETECTED CONSTITUENTS ONLY)

TAXIWAY F SITE

BURLINGTON, WASHINGTON

		Sample ID:	B-2	B-5	B-7	MW-1	MW-1Q4	MW-1Q1	MW-1Q2	MW-1Q3	MW-2	MW-2Q4	MW-2Q1	MW-2Q2	MW-2Q3	MW-3	MW-3Q4	MW-3Q1	MW-3Q2	MW-3Q3	HC-12-15-2005 LIVESTOCK	LIVESTOCK WELL
		Location ID:	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	WELL	LIVESTOCK WELL
		Date Sampled:	4/20/2001	4/20/2001	4/20/2001	1/9/2004	11/17/2004	2/7/2005	4/18/2005	6/20/2005	1/9/2004	11/15/2004	2/7/2005	4/18/2005	6/20/2005	1/9/2004	11/15/2004	2/7/2005	4/18/2005	6/20/2005	12/15/2005	3/13/2008
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**																				
Beta-BHC	ug/l		0.305 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Lindane (Gamma-BHC)	ug/l	0.2	0.305 U	0.2 U	--	0.005 U	--	--	--	--	0.005 U	--	--	--	--	0.005 U	--	--	--	--	0.05 U	0.1 U
Delta-BHC	ug/l		0.763 U	0.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
alpha-Chlordane (cis)	ug/l		0.305 U	0.2 U	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.05 U	0.1 U
gamma-Chlordane (relic CAS #)	ug/l		0.305 U	**1.9**	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.02 U	--	--	--	--	0.05 U	0.1 U
Chlordane (Total)	ug/l	2	0.305 UT	**2 T**	--	0.02 UT	--	--	--	--	0.02 UT	--	--	--	--	0.02 UT	--	--	--	--	0.05 UT	0.1 UT
4,4'-DDT	ug/l	0.26	0.611 U	**1.49**	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.015 U	--	--	--	--	0.1 U	0.1 U
Total DDT (4,4 isomers)	ug/l		0.611 UT	**1.49 T**	--	0.015 UT	--	--	--	--	0.015 UT	--	--	--	--	0.015 UT	--	--	--	--	0.1 UT	0.1 UT
Endosulfan I	ug/l		**114**	**45.2**	--	**0.026**	0.1 U	0.1 U	0.1 U	0.1 U	**0.006 J**	0.1 U	0.1 U	0.1 U	0.1 U	**0.024**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	ug/l		**40.2**	**32.9**	--	**0.033**	0.1 U	0.1 U	0.1 U	0.1 U	**0.003 J**	0.1 U	0.1 U	0.1 U	0.1 U	**0.043**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan Sulfate	ug/l		**3.77**	**1.21**	--	**0.015**	0.1 U	0.1 U	0.1 U	0.1 U	0.005 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.022**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan (Total)	ug/l	96	**158 T**	**79.31 T**	--	**0.074 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	**0.0115 JT**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	**0.089 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT
Endrin Aldehyde	ug/l		1.22 U	0.8 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Heptachlor Epoxide	ug/l	0.05	0.305 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Methoxychlor	ug/l	80	3.82 U	2.5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05 U	0.1 U
Herbicides by SW8151A																						
Bentazon	ug/l	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5 U	0.5 U
Chloramben	ug/l		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U
Dinoseb	ug/l	7	2 U	**49.3**	**447**	2 U	--	--	--	--	2 U	--	--	--	--	2 U	--	--	--	--	0.2 U	0.2 U
MCPA	ug/l	8	60 U	1320 U	3060 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
2,4-D	ug/l	160	1 U	22 U	51 U	4 U	--	--	--	--	4 U	--	--	--	--	4 U	--	--	--	--	0.1 U	0.1 U
2,4-DB	ug/l	130	4 U	88.2 U	204 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8 U	0.8 U
2,4,5-T	ug/l		1 U	22 U	51 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dicamba	ug/l	480	1 U	**147**	**57.5**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Dichlorprop	ug/l		1 U	22 U	51 U	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.1 U	0.1 U
Pentachlorophenol	ug/l	1	1 U	22 U	51 U	1 U	--	--	--	--	1 U	--	--	--	--	1 U	--	--	--	--	0.1 U	0.1 U
Silvex (Fenoprop or 2,4,5-TP)	ug/l	50	1 U	1 U	51 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U
Metals by EPA200.7/200.8																						
Arsenic	mg/L	0.008	--	--	--	**0.0023**	**0.009**	**0.0087**	**0.006**	**0.008**	**0.0119**	**0.0093**	**0.0099**	**0.009**	**0.0104**	**0.003**	**0.0069**	**0.0094**	**0.008**	**0.008**	--	--
Zinc	mg/L	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.011**	--
Volatiles by SW8260																						
1,1,1-Trichloroethane	ug/l	200	1 U	1 U	**4.14**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	ug/l	160	1 U	**19.4**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	ug/l	5	1 U	**1.05**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	ug/l	16000	1 U	**3.25**	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.

J = Approximate concentration

UJ = Not detected; the value is an approximate reporting limit.

R = Rejected; this value should not be used for any purpose.

T = Value calculated by GeoEngineers

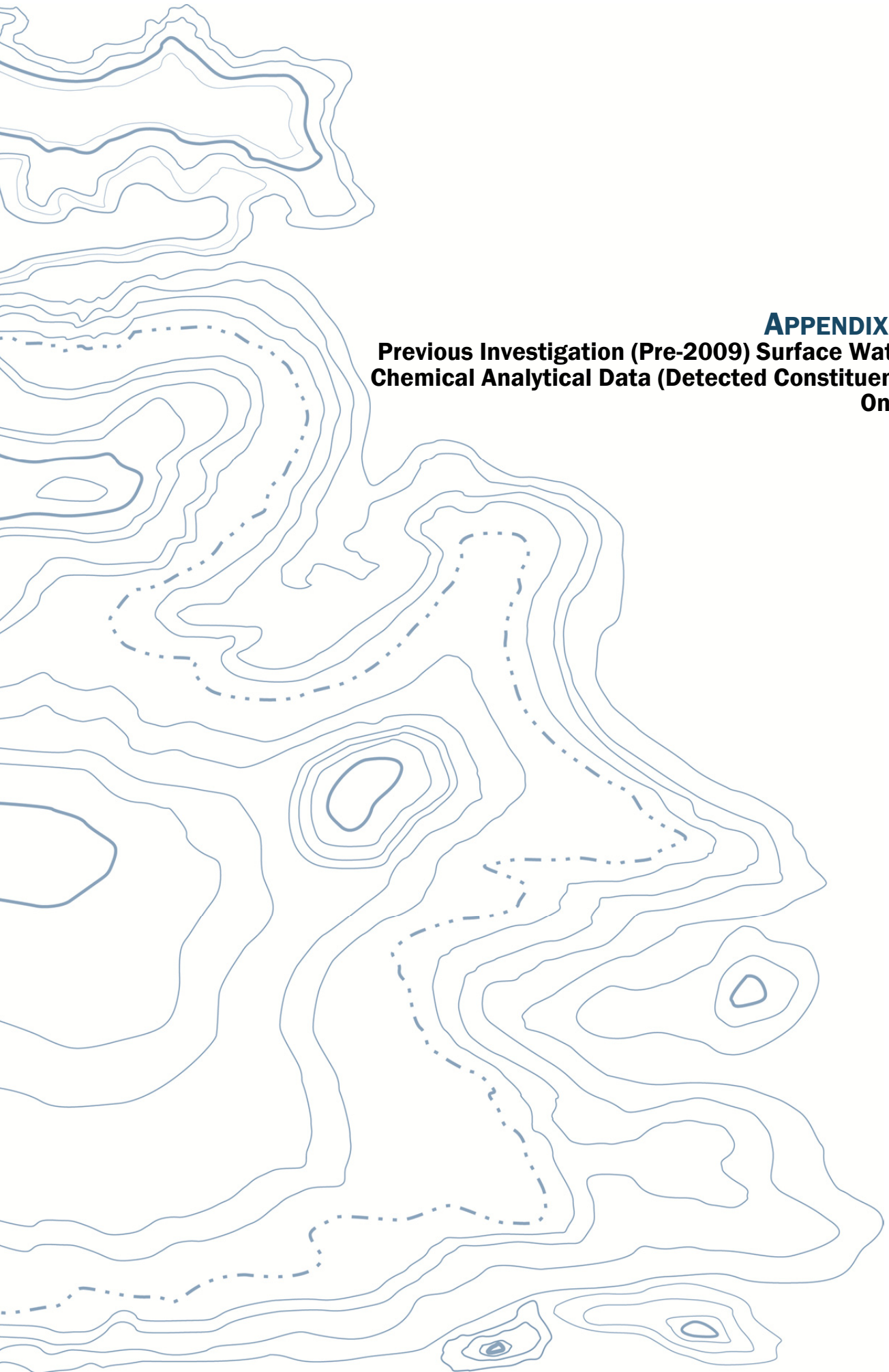
ug/L = micrograms per liter

mg/L = milligrams per liter

bold = exceeds cleanup level

bold = detection

-- = Not analyzed.



APPENDIX D

Previous Investigation (Pre-2009) Surface Water Chemical Analytical Data (Detected Constituents Only)

TABLE D-1

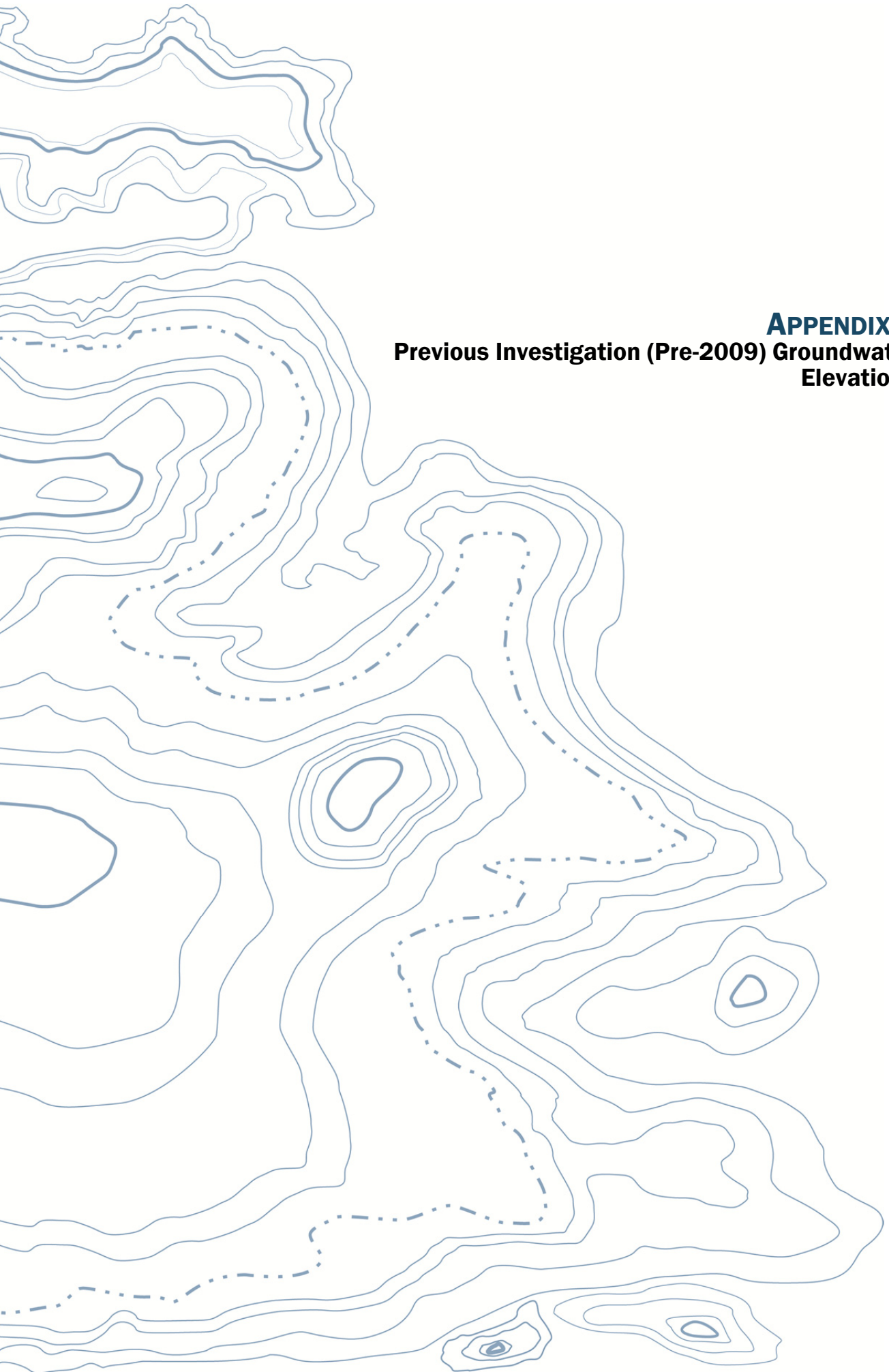
PREVIOUS INVESTIGATION (PRE-2009) SURFACE WATER CHEMICAL ANALYTICAL DATA
(DETECTED CONSTITUENTS ONLY)

TAXIWAY F SITE
BURLINGTON, WASHINGTON

Analyte		Sample ID: / Location ID: / Date Sampled:	SW-1GEO / SW-1 / 4/20/2001	SW-2GEO / SW-2 / 4/20/2001	SW-3GEO / SW-3 / 4/20/2001	SW-4GEO / SW-4 / 4/20/2001	SW-1 / HC-SW-1 / 12/16/2004	SW-2 / HC-SW-2 / 12/16/2004	SW-3 / HC-SW-3 / 12/16/2004	SW-4 / HC-SW-4 / 12/16/2004	SW-5 / HC-SW-5 / 12/16/2004	SW-5A / SW-5 / 1/7/2004	SW-6 / HC-SW-6 / 12/16/2004	SW-7 / HC-SW-7 / 12/16/2004	SW-8 / HC-SW-8 / 12/16/2004	SW-9 / HC-SW-5 / 12/16/2004
Chlorinated Pesticides by SW8081A	**Units**	**Proposed Cleanup Level**														
Lindane (Gamma-BHC)	ug/l	0.20	**0.32**	0.04 U	0.04 U	0.44 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.005 U	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane (relic CAS #)	ug/l		0.04 U	0.04 U	**0.882**	0.44 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U
Chlordane (Total)	ug/l	2.0	0.04 UT	0.04 UT	**0.882 T**	0.44 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT	0.02 UT	0.05 UT	0.05 UT	0.05 UT	0.05 UT
4,4'-DDT	ug/l	0.26	0.08 U	**0.995**	**1.07**	**1.81**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.015 U	0.1 U	0.1 U	0.1 U	0.1 U
Total DDT (4,4 isomers)	ug/l		0.08 UT	**0.995 T**	**1.07 T**	**1.81 T**	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT	0.015 UT	0.1 UT	0.1 UT	0.1 UT	0.1 UT
Endosulfan I	ug/l		**1.49**	**0.0932**	**1.88**	**6.55**	0.1 U	0.1 U	**2.37**	**1.2**	**4.09**	**0.255**	**2.01**	0.1 U	**1.25**	**3.92**
Endosulfan II	ug/l		**2.21**	**0.542**	**3.8**	**5.25**	**0.14**	**0.11**	**1.47**	**1.33**	**2.67**	**0.291**	**1.29**	0.1 U	**0.97**	**2.63**
Endosulfan Sulfate	ug/l		**1.12**	**1.45**	**6.07**	**2.71**	**0.1**	**0.55**	**1.11**	**1.3**	**1.66**	**0.699**	**0.85**	0.1 U	**1.01**	**1.59**
Endosulfan (Total)	ug/l	96	**4.82 T**	**2.09 T**	**11.75 T**	**14.5 T**	**0.29 T**	**0.71 T**	**4.95 T**	**3.83 T**	**8.42 T**	**1.245 T**	**4.15 T**	0.1 UT	**3.23 T**	**8.14 T**
Herbicides by SW8151A																
Dinoseb	ug/l	7	2 U	2 U	**34.5**	**15.6**	**11.1**	**15.3**	**21.7**	**84 J**	**27.8**	**35.8**	**11.9**	**1.2**	**10.4**	**27.6**
Silvex (Fenoprop or 2,4,5-TP)	ug/l	50	1 U	1 U	**3.82**	5 U	--	--	--	--	--	--	--	--	--	--
Metals by EPA200.7/200.8																
Arsenic	mg/L	0.008	--	--	--	--	**0.002**	**0.001**	**0.001**	0.001 U	**0.0009 J**	**0.00056**	**0.001**	**0.0008 J**	**0.001**	**0.00092 J**
Volatiles by SW8260																
1,2-Dichlorobenzene (o-Dichlorobenzene)	ug/l	720	1 U	1 U	**1.16**	1 U	--	--	--	--	--	--	--	--	--	--
Acetone	ug/l	800	10 U	10 U	**10.3**	10 U	--	--	--	--	--	--	--	--	--	--
Toluene	ug/l	640	**3.45**	1 U	1 U	1 U	--	--	--	--	--	--	--	--	--	--

Notes:

U = Not detected above the associated value; the associated value is the method reporting limit for the sample.
J = Approximate concentration
UJ = Not detected; the value is an approximate reporting limit.
R = Rejected; this value should not be used for any purpose.
T = Value calculated by GeoEngineers
E = XXXX
ug/L = micrograms per liter
mg/L = milligrams per liter
bold = exceeds cleanup level
bold = detection
-- = Not analyzed.



APPENDIX E
Previous Investigation (Pre-2009) Groundwater Elevations

TABLE E-1

GROUNDWATER ELEVATIONS - PREVIOUS INVESTIGATIONS

TAXIWAY F SITE

BURLINGTON, WASHINGTON

Well ID	Installation Date	TOC Elevation (ft)*	Well Depth (ft bgs)	Screen Interval (ft bgs)	Aquifer/Zone	Depth to Water (ft btoc)	Groundwater Elevation (ft)
						1/9/2004	1/9/2004
MW-1	1/7/2004	116.74	115	100 to 115	Deep	102.30	14.44
MW-2	1/8/2004	118.15	115	90 to 115	Deep	102.08	16.07
MW-3	1/9/2004	117.37	115	90 to 115	Deep	101.13	16.24

Notes:

TOC = Top of casing

ft btoc = feet below top of casing

ft bgs = feet below ground surface

NM = not measured.

* TOC surveyed on 12-1-09 by GeoEngineers relative to USGS benchmark on west side of Taxiway F which has an elevation of 118.92 feet (NGVD29 vertical datum).

APPENDIX F
Soil Boring Logs (All Investigations)

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

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

ADDITIONAL MATERIAL SYMBOLS

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

Measured groundwater level in exploration, well, or piezometer

Groundwater observed at time of exploration

Perched water observed at time of exploration

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

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

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

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

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

KEY TO EXPLORATION LOGS

GeoEngineers

FIGURE F-1

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253075.42592 / 540520.337465	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						SM	Brown silty fine to medium sand with roots and gravel			
			1					NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-1

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-2
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253087.5905 / 540487.64517	WA State Plane North		N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0								CC	5.5 inches concrete			
		X				1			SM	Brown silty fine to medium sand with gravel	NS	0	
		X				2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-2

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-3
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) / Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253306.55284 / 540586.48234	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						Grass	1 inch of grass and root mass			
						SM	Brown silty fine to medium sand with gravel			
			1					NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-3

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-4
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253402.70295 / 540572.743148	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						SM	Brown silty fine to medium sand with occasional gravel			
			1					NS		PID not functioning
			2					NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-4

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-5
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	0.8	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253315.67627 / 540457.99402	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						AC	2 inches asphalt			
			1			SM	Gray fine to medium sand with gravel and trace silt	NS	0	
			2			WD	Layer of wood	NS	0	

Note: See Figure F-1 for explanation of symbols.

Seattle: Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Boring GEI-5

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-6
Sheet 1 of 1

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253230.52425 / 540413.13715	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						AC	1.5 inches asphalt			
						CR	1 inch of crushed brown rocks	NS	0	
						AC	3 inches asphalt			
	☒		1			CR	3 inches gray crushed rock	NS	0	
						SM	4 inches dark brown silty fine to medium sand with gravel			
	☒		2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-6

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-7
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253317.19684 / 540394.130003	WA State Plane North		N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0						AC	2 inches asphalt			
				1			CR	3 inches gray crushed rock (5/8-inch minus)	NS	0	
							AC	2 inches asphalt			
							CR	1.5 inches crushed rock (5/8-inch minus)	NS	0	
				2			ML	3.5 inches brown sandy silt with occasional gravel			

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-7

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-8
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253429.06697 / 540298.701909	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						SM	Brown silty fine to medium sand with gravel and roots			
			1					NS		PID not functioning
			2					NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-8

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-9
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	10/1/2009	3	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater
1253379.54029 / 540353.074563	WA State Plane North	Date Measured: — Depth to Water (ft): — Elevation (ft): — No groundwater observed

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	3 inches forest duff			
			1			SM	Brown silty fine to medium sand with occasional gravel and roots	NS		PID not functioning
			2					NS		
							Gravel content increases (very dense, moist)			
			3					NS		
			4					NS		

Note: GEI-9 augered to 1 foot on 9/10/2009.
GEI-9 augered to 3 feet on 10/1/2009 for subsequent sampling.

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-9

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-10
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253490.54203 / 540410.096007	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						SM	Brown silty fine to medium sand with gravel and roots			
			1					NS		PID not functioning
			2					NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-10

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-11
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253526.27547 / 540346.23199	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						SM	Brown silty fine to medium sand with gravel and roots	NS		PID not functioning
								NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-11

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-12
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	Drilled End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253574.17348 / 540235.230246	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	2 inches forest duff			
						SM	Brown silty fine to medium sand with gravel			
			1					NS		PID not functioning
			2					NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-12

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-13
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	10/1/2009	3	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater
1253588.0487 / 540176.973337	WA State Plane North	Date Measured / Depth to Water (ft) / Elevation (ft): No groundwater observed

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	1 inch forest duff			
						SM	Brown silty fine to medium sand with occasional gravel and roots			
			1					NS		PID not functioning
			2					NS		
							Becomes gray in color (very dense, dry)			
			3					NS		
			4					NS		

Note: GEI-13 augered to 1 foot on 9/10/2009.
GEI-13 augered to 3 feet on 10/1/2009 for subsequent sampling.

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-13

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-14
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253573.36568 / 540092.225217	WA State Plane North		N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0								DUF	2 inches forest duff			
									ML	Brown silt with sand			
						1					NS	0	
						2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-14

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-15
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253673.01065 / 540073.835801	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	Forest duff			
			1					NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-15

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-16
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253717.91504 / 540072.980479	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	3 inches forest duff			
			1			SM	Brown silty fine to medium sand with gravel and roots	NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-16

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-17
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253551.5061 / 539937.613947	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	2 inches forest duff			
						SM	Brown silty fine to medium sand with silt			
			1					NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-17

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-18
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253567.82645 / 539816.843329	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	3 inches forest duff			
			1			SM	Brown silty fine to medium sand with gravel	NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-18

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-19
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	9/10/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253608.38635 / 540224.586243	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						ML	7 inches dark brown silt with sand			
			1					NS		PID not functioning
							Becoming dark brown/gray			
			2					NS		

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-19

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-20
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/10/2009	10/1/2009	3	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
1253611.71619 / 540143.471833	WA State Plane North	10/1/2009	2.0	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						ML	Dark brown silt with sand and occasional gravel (stiff, moist)			
			1					NS		PID not functioning
			2					NS		
							Gray silt with sand (hard, wet)			
			3	▽				NS		
						ML	Gray silt (hard, wet)			
			4					NS		

Note: GEI-20 augered to 1 foot on 9/10/2009.
GEI-20 augered to 3 feet on 10/1/2009 for subsequent sampling.

Note: See Figure F-1 for explanation of symbols.

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Boring GEI-20

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-21

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253603.27186 / 540034.901885	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	3 inches forest duff			
			1			SM	Brown silty fine to medium sand with silt	NS	0	
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-21

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-22
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
9/11/2009	9/11/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	N/A

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253623.17635 / 539833.444316	WA State Plane North		N/A	

Notes:

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUF	1 inch forest duff			
						ML	6 inches brown silt with sand			
			1					NS	0	
						SM	5 inches brown silty fine to medium sand with gravel			
			2					NS	0	

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-22

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-23
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
10/1/2009	10/1/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253548.0487 / 540176.973337		No groundwater observed		

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0								DUF	2 inches forest duff			
						1			SM	Brown silty fine to medium sand with gravel (loose, moist)	NS		
						2							

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-23

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-24
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
10/1/2009	10/1/2009	1	ARJ / RCL	N/A	Hand Auger

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		

Easting (X) / Northing (Y)	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
1253533.36568 / 540092.225217		No groundwater observed		

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0						DUF	2 inches forest duff			
				1			SM	Brownish gray silty fine to medium sand with gravel	NS		
				2							

Note: See Figure F-1 for explanation of symbols.

Log of Boring GEI-24

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure F-25
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\5364013.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253556.36511 / Northing (Y) 539989.477634			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample: Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0	☒	2		1			DUFF	Forest duff (very loose, moist)	NS	<1	
	☒	2		2			SM	Dark brown silty sand with wood debris (loose to medium dense, wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-25

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-26
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253576.04765 / Northing (Y) 539885.406203			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0							DUFF	Forest duff (loose, moist)			
	☒	2		1					NS	<1	
							SM	Dark brown silty fine to medium sand with gravel (medium dense, wet)			
	☒	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\53640130 2.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Test Pit GEI-26

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-27
Sheet 1 of 1

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253592.77781 Northing (Y) 539828.572869			System Datum		Groundwater Date Measured	Depth to Water (ft) N/A
Notes:						Elevation (ft)

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0											
	☒	2		1			DUFF	Forest duff (loose, moist)	NS	<1	
	☒	2		2			SM	Reddish brown silty fine to medium sand with occasional gravel and roots (loose, moist)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-27

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-28
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253631.4048 Northing (Y) 539806.922075			System Datum		Groundwater Date Measured	Depth to Water (ft) N/A
Notes:						Elevation (ft)

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0							DUFF	Forest duff (loose, moist)			
	☒	2		1			SM	Brown silty sand with gravel (loose to medium dense, wet)	NS	<1	
	☒	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-28

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-29
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253652.07146 / Northing (Y) 539840.628425			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUFF	Forest duff (loose, moist)			
	2		1			SM	Light brown silty fine to medium sand with gravel and roots (medium dense, wet)	NS	<1	
	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-29

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-30
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	6/17/2010	6/17/2010	1	NCS	RCL	GeoEngineers, Inc.	Trowel

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		N/A

Easting (X) Northing (Y)	System Datum	Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
1253622.30162 539951.834776			N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0								DUFF	Forest duff (loose, moist)			
		☒	2			1			SM	Dark brown silty fine to medium sand with occasional gravel, cobbles and roots (medium dense, moist)	NS	<1	
		☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-30

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-31
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\53640130 2.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/16/2010	End 6/16/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253655.76194 / Northing (Y) 539998.580809			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0							DUFF	Forest duff (very loose, moist)			
	☒	2		1			SM	Dark brown silty fine to medium sand with gravel and roots (medium dense, wet)	NS	<1	
	☒	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-31

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-32
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253536.19051 / Northing (Y) 539989.723666			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUFF	Forest duff (very loose, moist)			
	2		1			SM	Dark brown silty fine to medium sand with occasional gravel and organic material (loose to medium dense, wet)	NS	<1	
	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-32

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-33
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	6/17/2010	6/17/2010	1	NCS	RCL	GeoEngineers, Inc.	Trowel

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		N/A

Easting (X) Northing (Y)	System Datum	Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
1253555.13495 539882.699854			N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0								DUFF	Forest duff			
		2				1			SM	Dark brown silty sand (medium dense, moist)	NS	<1	
		2				2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-33

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-34
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\2\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253636.36356 / Northing (Y) 539777.721033			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff			
	☒	2			1			SM	Dark brown silty sand with gravel (medium dense, wet)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-34

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-35
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253670.52385 / Northing (Y) 539840.382393			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Dark brown silty fine to medium sand with gravel and roots (medium dense, moist)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-35

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-36
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130 2\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253639.76988 / Northing (Y) 539952.080808			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Dark brown silty fine to medium sand with gravel and roots (medium dense, moist)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-36

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-37
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253672.24607 / Northing (Y) 539984.803031			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Brown silty fine to medium sand with gravel, occasional cobbles and roots (medium dense, wet)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-37

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-38
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253641.41753 / Northing (Y) 539747.596739			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff			
	☒	2			1			SM	Dark brown silty sand with gravel (medium dense, wet)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-38

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-39
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253657.73019 / Northing (Y) 539952.080808			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Dark brown silty fine to medium sand with occasional gravel (loose, moist)	NS	<1	
	☒	2			2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-39

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-40
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 1	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253682.5794 / Northing (Y) 539971.763348			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0							DUFF	Forest duff (very loose, moist)			
	☒	2		1			SM	Brown silty fine to medium sand with occasional gravel and roots (medium dense, moist)	NS	<1	
	☒	2		2					NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-40

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-41
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) / Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) / Northing (Y)	1253627.29451 / 540210.325049		System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Dark brown silty sand with roots (loose, moist)	NS	<1	Organic/sewage odor

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-41

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-42
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.75	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) Northing (Y)	1253656.77548 540068.8791		System Datum		Groundwater Date Measured	Depth to Water (ft) N/A / Elevation (ft)
Notes:						

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0						DUFF	Forest duff (very loose, moist)			
		2		1			SM	Brown silty fine to medium sand with gravel and roots (loose to medium dense, moist)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-42

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-43
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253672.45685 / Northing (Y) 540058.215769			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Dark brown silty fine to medium sand with gravel (medium dense, moist)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Seattle Date:8/12/10 Path:P:\5\53640130202\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Test Pit GEI-43

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-44
Sheet 1 of 1

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253667.12518 Northing (Y) 540012.739799			System Datum		Groundwater Date Measured	Depth to Water (ft) N/A
Notes:						Elevation (ft)

Elevation (feet) / Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0						DUFF	Forest duff (very loose, moist)			
	2		1			SM	Dark brown sitly fine to medium sand with gravel (loose to medium dense, wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-44

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-45
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253589.65922 / Northing (Y) 539985.454217			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Brown silty fine to medium sand with occasional gravel (medium dense, wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-45

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-46
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130 2\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) / Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) / Northing (Y)	1253601.57706 / 539982.317943		System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (very loose, moist)			
	☒	2			1			SM	Light brown silty fine to medium sand (loose, moist)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-46

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-47
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) / Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) / Northing (Y)	1253611.92677 / 539974.477259		System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0	☒	2			1			DUFF	Forest duff (very loose, moist)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-47

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-48
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253661.79352 / Northing (Y) 539819.85896			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (loose, moist)			
	☒	2			1			SM	Brown silty fine to medium sand with gravel (loose, wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Log of Test Pit GEI-48

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-49
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Drilled	Start 6/17/2010	End 6/17/2010	Total Depth (ft) 0.5	Logged By NCS / Checked By RCL	Driller GeoEngineers, Inc.	Drilling Method Trowel
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	N/A
Easting (X) 1253654.26646 / Northing (Y) 539798.845925			System Datum		Groundwater: Date Measured	Depth to Water (ft): N/A — Elevation (ft)
Notes:						

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
0								DUFF	Forest duff (loose, moist)			
	☒	2			1			SM	Brown silty fine to medium sand with gravel and roots (loose, wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Seattle Date:8/12/10 Path:P:\5\53640130202\GINT\536401302.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Test Pit GEI-49

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-50
Sheet 1 of 1

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	6/17/2010	6/17/2010	0.5	NCS	RCL	GeoEngineers, Inc.	Trowel

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		N/A

Easting (X) Northing (Y)	System Datum	Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
1253626.35363 539788.809849			N/A	

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	0	2		1			SM	Dark brown silty sand with gravel (moist to wet)	NS	<1	

Notes: Please see Figure F-1 for explanation of symbols.
The depths on the test pit logs are based on an average of measurements across the test pit and should be considered accurate to 0.5 foot.

Seattle Date:8/12/10 Path:P:\5\53640130\02\GINT\53640130 2.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_STANDARD

Log of Test Pit GEI-50

GeoEngineers

Project: Taxiway F Site
Project Location: Burlington, Washington
Project Number: 5364-013-02

Figure F-51
Sheet 1 of 1

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SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS More Than 50% Retained on No. 200 Sieve	GRAVEL More Than 50% of Coarse Fraction Retained on No. 4 Sieve	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND More Than 50% of Coarse Fraction Passes No. 4 Sieve	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS More Than 50% Passes No. 200 Sieve	SILT AND CLAY Liquid Limit Less Than 50	INORGANIC	ML	SILT
			CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
	SILT AND CLAY Liquid Limit 50 or More	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2488-90.
2. Soil classification using laboratory tests is in general accordance with ASTM D2487-90.
3. Descriptions of soil density or consistency are based on interpretation of blow count data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

Dry - Absence of moisture, dusty, dry to the touch

Moist - Damp, but no visible water

Wet - Visible free water or saturated, usually soil is obtained from below water table

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SOIL CLASSIFICATION SYSTEM

FIGURE B-1

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LABORATORY TESTS

CA Chemical Analysis

FIELD SCREENING TESTS:

Headspace vapor concentration data given in parts per million

Sheen classification system:

NS No Visible Sheen
SS Slight Sheen
MS Moderate Sheen
HS Heavy Sheen
NT Not Tested

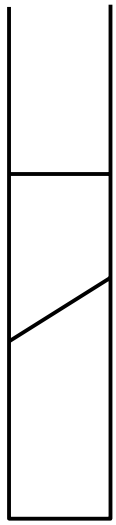
BLOW COUNT/SAMPLE DATA:

Blows required to drive a 2.4-inch I.D. split-barrel sampler 12 inches or other indicated distances using a 300-pound hammer falling 30 inches.

Blows required to drive a 1.5-inch I.D. (SPT) split-barrel sampler 12 inches or other indicated distances using a 140-pound hammer falling 30 inches.

"P" indicates sampler pushed with weight of hammer or against weight of drill rig.

SOIL GRAPH:



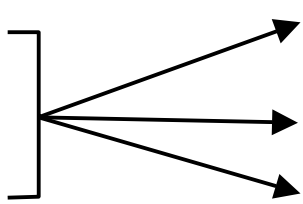
SM Soil Group Symbol (See Note 2)

Distinct Contact Between Soil Strata

Gradual or Approximate Location of Change Between Soil Strata

Water Level

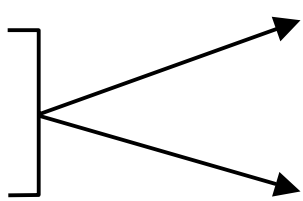
Bottom of Boring



22 Location of relatively undisturbed sample

12 Location of disturbed sample

17 Location of sampling attempt with no recovery



10 Sample obtained using direct-push drilling methods

26 Location of SPT sampling attempt with no recovery

Location of grab sample

NOTES:

1. The reader must refer to the discussion in the report text, the Key to Boring Log Symbols and the exploration logs for a proper understanding of subsurface conditions.
2. Soil classification system is summarized in Figure B-1.

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KEY TO BORING LOG SYMBOLS

FIGURE B-2

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	5	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Dark brown fine to medium sand (wet)				0
		1		☒		CL	Tan clay (moist)	0	NS	CA	
		2		☒				0	NS		
							Becomes gray				
		3		☒				0	NS		
5							Direct push boring completed to 5 feet bgs on 04/20/01 No ground water observed during drilling				5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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LOG OF BORING B-1

FIGURE B-3

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	16	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Dark brown fine to medium sand with coarse sand (moist)				0
		1		☒		CL	Tan clay (moist)	0	NS	CA	
		2		☒				0	NS		
							Becomes gray				
5		3		☒				0	NS	CA	5
		4		☒				0	NS		
10		5		☒				0	NS		10
		6		☒				0	NS		
		7		☒				0	NS		
15							Installed temporary 1 inch diameter PVC well installed in boring to 16 feet bgs on 04/20/01 No ground water observed during drilling Ground water observed in temporary well at 2 feet bgs on 4/25/01				15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-2

FIGURE B-4

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate:	Not Determined
				Y-coordinate:	Not Determined
Total Depth (ft)	4	Elevation (ft)	Not Measured	Datum:	Not Determined
				System:	Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Gray fine to coarse sand (moist)				0
		1		☒				0	NS	CA	
						CL	Tan clay (moist)				
		2		☒				0	NS		
							Becomes gray				
		3		☒				0	NS		
							Direct push boring completed to 4 feet bgs on 04/20/01 No ground water observed during drilling				
5											5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-3

FIGURE B-5

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	5.5	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						ASPHALT	3 inches asphalt concrete				0
						SP	Dark brown fine to medium sand (wet)				
		1				SC	Gray clay with fine sand (moist)	0	NS	CA	
		2				CL	Gray clay (moist)	0	NS		
		3						0	NS		
5							Direct push boring completed to 5.25 feet bgs on 04/20/01 No ground water observed during drilling				5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-4

FIGURE B-6

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	4	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0		1		☒		SP	Dark brown fine to medium sand with coarse sand and fragments (wet)	0	NS	CA	0
		2		☒		CL	Tan clay	0	NS		
		3		☒			Becomes gray	0	NS	CA	
5											5
10											10
15							Installed temporary 1 inch diameter PVC well installed in boring to 16 feet bgs on 04/20/01 No ground water observed during drilling Ground water observed in temporary well at 3 feet bgs on 4/25/01				15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-5

FIGURE B-7

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	4	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0		1		☒		SP	Dark brown fine to medium sand with fragments (moist)	0	NS	CA	0
		2		☒		CL	Tan clay	0	NS		
		3		☒			Becomes gray	0	NS		
							Direct push boring completed to 4 feet bgs on 04/20/01 No ground water observed during drilling				
5											5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-6

FIGURE B-8

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	17	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Dark brown fine to medium sand with gravel (moist)				0
		1		☒				0	NS	CA	
		2		☒		CL	Tan clay (moist)	0	NS		
							Becomes gray				
		3		☒				0	NS		
5											5
10											10
15											15
20											20

Installed temporary 1 inch diameter PVC well installed in boring to 17 feet bgs on 04/20/01
No ground water observed during drilling
Ground water observed in temporary well at 10 feet bgs on 4/25/01

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-7

FIGURE B-9

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	4.5	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Dark brown fine to medium sand with fine gravel (moist)				0
		1		☒				0	NS	CA	
						CL	Tan clay (moist)				
		2		☒				0	NS		
							Becomes gray				
		3		☒				0	NS		
							Direct push boring completed to 4 feet bgs on 04/20/01 No ground water observed during drilling				
5											5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-8

FIGURE B-10

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

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Project	Job Number	Location
Skagit County Airport	5364-003-01	Skagit County, WA

Date Drilled	04/20/01	Logged By	BES	Contractor	ESN
Drill Method	Direct Push	Equipment		Drill Bit	
Sample Method	4 ft. sampler with plastic liner	Hammer Data		X-coordinate: / Y-coordinate:	Not Determined / Not Determined
Total Depth (ft)	5	Elevation (ft)	Not Measured	Datum: / System:	Not Determined / Not Determined

DEPTH IN FEET	% Recovery	Sample No.	Blow Count	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0						SP	Dark brown fine to medium sand (moist)				0
		1		☒				0	NS		
						CL	Tan clay (moist)				
		2		☒				0	NS		
							Becomes gray				
		3		☒				0	NS		
							Direct push boring completed to 4 feet bgs on 04/20/01 No ground water observed during drilling				
5											5
10											10
15											15
20											20

Note: See Figure B-2 for explanation of symbols

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LOG OF BORING B-9

FIGURE B-11

GEI ENVIRONMENTAL BORING LOG 5364003.GPJ GEI_CORP.GDT 7/5/01 5364-003-01

APPENDIX G
Monitoring Well Logs (All Investigations)

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

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

ADDITIONAL MATERIAL SYMBOLS

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

Measured groundwater level in exploration, well, or piezometer

Groundwater observed at time of exploration

Perched water observed at time of exploration

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

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

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

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

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

KEY TO EXPLORATION LOGS

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FIGURE G-1

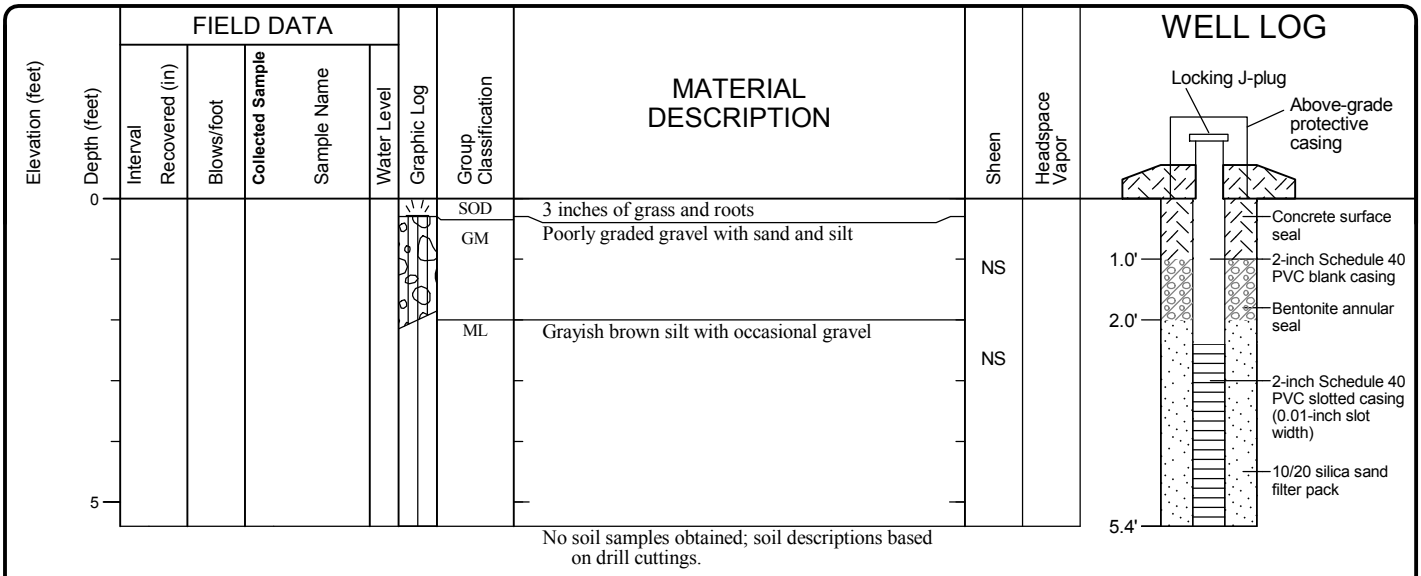
Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
10/22/2009	10/22/2009	5.4	ARJ	Boart Longyear	Hollow Stem Auger

Hammer Data	N/A	Drilling Equipment	Mobile B-59 Auger Drill
Surface Elevation (ft) Vertical Datum	Undetermined NGVD29	Top of Casing Elevation (ft)	122.1
Easting (X) Northing (Y)	1253174.26309 540505.131746	Horizontal Datum	WA State Plane North

A 2 (in) well was installed on 10/22/2009 to a depth of 5.4 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/22/2009	3.9	

Notes: Auger Data: 4" internal diameter, 8" outer diameter



Note: Please see Figure G-1 for explanation of symbols

Log of Monitoring Well GEI-MW-4

GeoEngineers

Project: Taxiway F Remedial Investigation
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure G-2
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\536401301.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

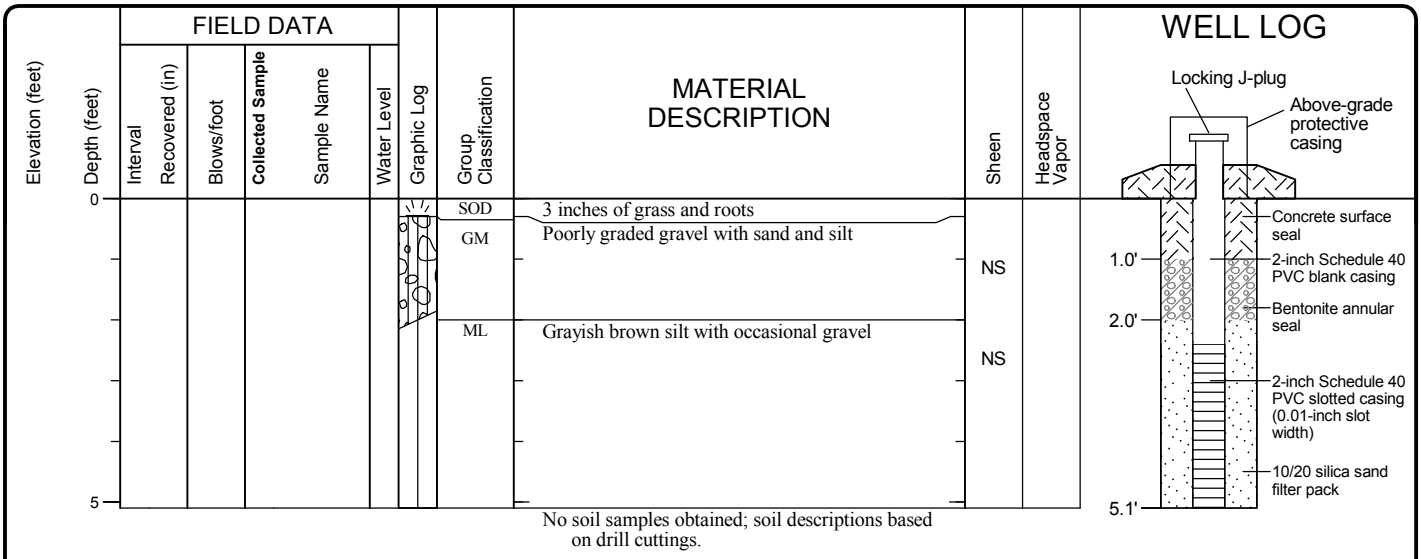
Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	10/22/2009	10/22/2009	5.1	ARJ	Boart Longyear	Hollow Stem Auger

Hammer Data	N/A	Drilling Equipment	Mobile B-59 Auger Drill
Surface Elevation (ft) Vertical Datum	Undetermined NGVD29	Top of Casing Elevation (ft)	119.9
Easting (X) Northing (Y)	1253162.8588 540343.951132	Horizontal Datum	WA State Plane North

A 2 (in) well was installed on 10/22/2009 to a depth of 5.1 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/22/2009	3.4	

Notes: Auger Data: 4" internal diameter, 8" outer diameter



Note: Please see Figure G-1 for explanation of symbols

Log of Monitoring Well GEI-MW-5

GeoEngineers

Project: Taxiway F Remedial Investigation
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure G-3
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\536401301.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

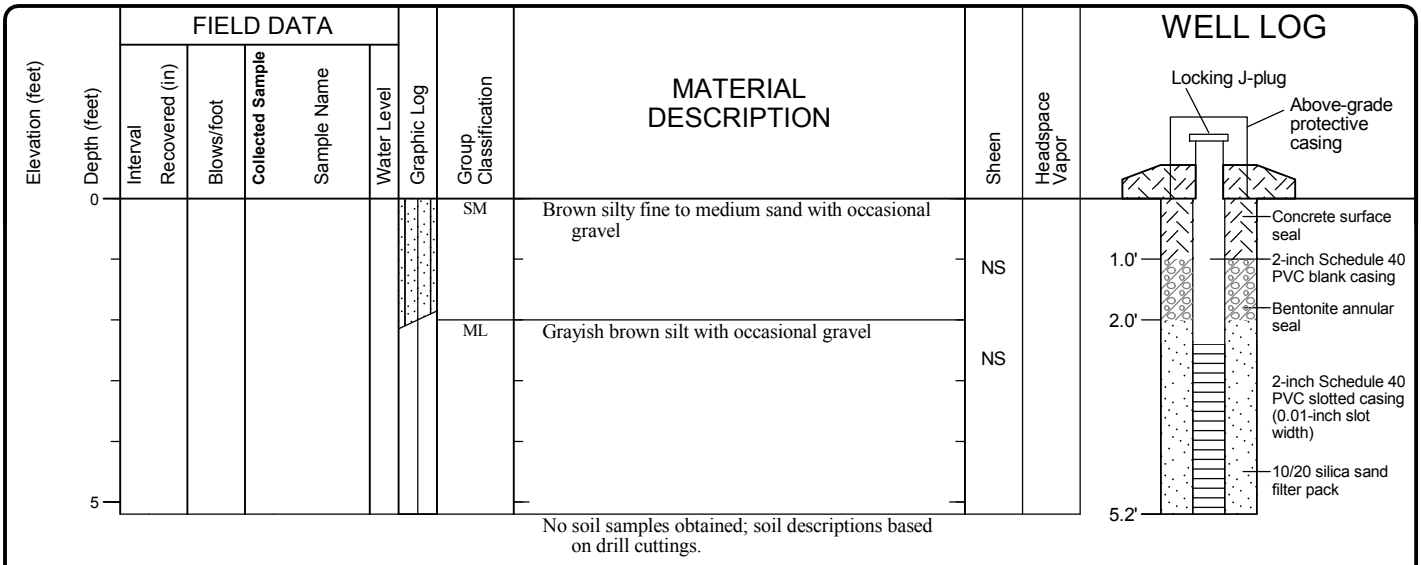
Drilled	Start	End	Total Depth (ft)	Logged By	Driller	Drilling Method
	10/22/2009	10/22/2009	5.2	ARJ	Boart Longyear	Hollow Stem Auger

Hammer Data	N/A	Drilling Equipment	Mobile B-59 Auger Drill
Surface Elevation (ft) Vertical Datum	Undetermined NGVD29	Top of Casing Elevation (ft)	120.8
Easting (X) Northing (Y)	1253364.33457 540483.843741	Horizontal Datum	WA State Plane North

A 2 (in) well was installed on 10/22/2009 to a depth of 5.2 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/22/2009	7.6	

Notes: Auger Data: 4" internal diameter, 8" outer diameter



Note: Please see Figure G-1 for explanation of symbols

Log of Monitoring Well GEI-MW-6

GeoEngineers

Project: Taxiway F Remedial Investigation
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure G-4
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\536401301.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

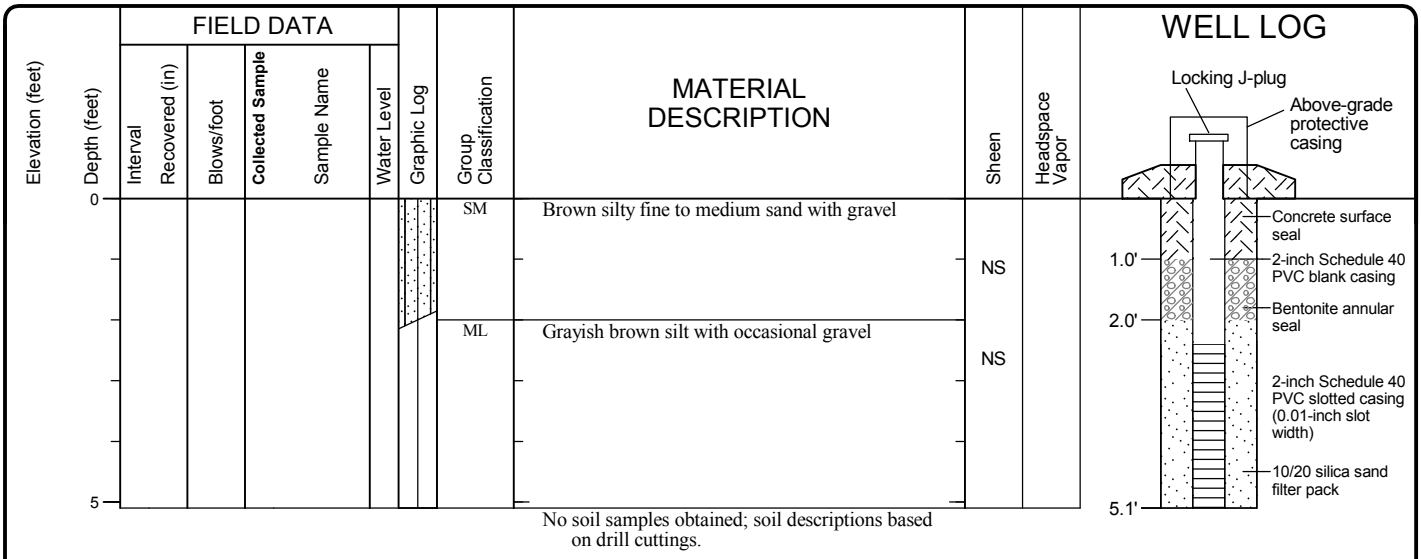
Drilled	Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
	10/22/2009	10/22/2009	5.1	ARJ	Boart Longyear	Hollow Stem Auger

Hammer Data	N/A	Drilling Equipment	Mobile B-59 Auger Drill
Surface Elevation (ft) Vertical Datum	Undetermined NGVD29	Top of Casing Elevation (ft)	120.3
Easting (X) Northing (Y)	1253368.89629 540373.602283	Horizontal Datum	WA State Plane North

A 2 (in) well was installed on 10/22/2009 to a depth of 5.1 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/22/2009	3.4	

Notes: Auger Data: 4" internal diameter, 8" outer diameter



Note: Please see Figure G-1 for explanation of symbols

Log of Monitoring Well GEI-MW-7

GeoEngineers

Project: Taxiway F Remedial Investigation
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure G-5
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\536401301.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

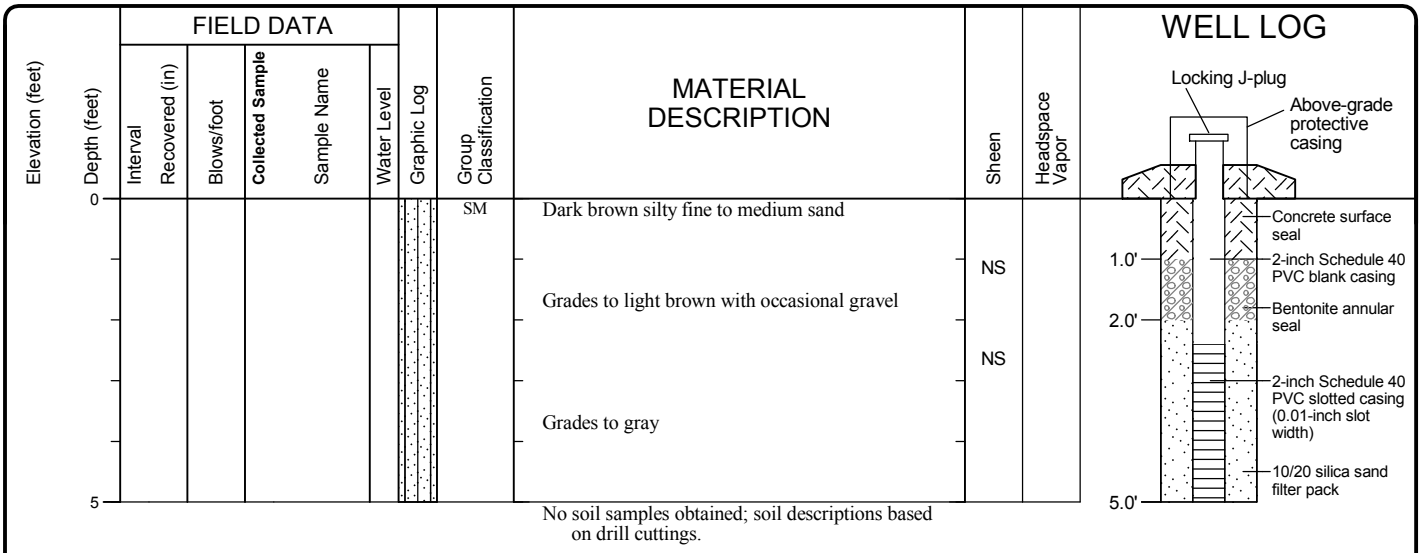
Drilled	Start	End	Total Depth (ft)	Logged By	Driller	Drilling Method
	10/22/2009	10/22/2009	5	ARJ	Boart Longyear	Hand Tools

Hammer Data	N/A	Drilling Equipment	Mobile B-59 Auger Drill
Surface Elevation (ft) Vertical Datum	Undetermined NGVD29	Top of Casing Elevation (ft)	117.6
Easting (X) Northing (Y)	1253539.20033 540320.382269	Horizontal Datum	WA State Plane North

A 2 (in) well was installed on 10/22/2009 to a depth of 5 (ft).

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
11/22/2009	3.3	

Notes: Auger Data: 4" internal diameter, 8" outer diameter



Note: Please see Figure G-1 for explanation of symbols

Log of Monitoring Well GEI-MW-8

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Project: Taxiway F Remedial Investigation
Project Location: Burlington, Washington
Project Number: 5364-013-01

Figure G-6
Sheet 1 of 1

Seattle Date:8/12/10 Path:P:\5\5364013\GINT\536401301.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_ENVIRONMENTAL_WELL

SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE GRAINED SOILS More Than 50% Retained on No. 200 Sieve	GRAVEL More Than 50% of Coarse Fraction Retained on No. 4 Sieve	CLEAN GRAVEL	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL
			GP	POORLY-GRADED GRAVEL
		GRAVEL WITH FINES	GM	SILTY GRAVEL
			GC	CLAYEY GRAVEL
	SAND More Than 50% of Coarse Fraction Passes No. 4 Sieve	CLEAN SAND	SW	WELL-GRADED SAND, FINE TO COARSE SAND
			SP	POORLY-GRADED SAND
		SAND WITH FINES	SM	SILTY SAND
			SC	CLAYEY SAND
FINE GRAINED SOILS More Than 50% Passes No. 200 Sieve	SILT AND CLAY Liquid Limit Less Than 50	INORGANIC	ML	SILT
			CL	CLAY
		ORGANIC	OL	ORGANIC SILT, ORGANIC CLAY
	SILT AND CLAY Liquid Limit 50 or More	INORGANIC	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT
			CH	CLAY OF HIGH PLASTICITY, FAT CLAY
		ORGANIC	OH	ORGANIC CLAY, ORGANIC SILT
HIGHLY ORGANIC SOILS			PT	PEAT

NOTES:

1. Field classification is based on visual examination of soil in general accordance with ASTM D2488-90.
2. Soil classification using laboratory tests is in general accordance with ASTM D2487-90.
3. Descriptions of soil density or consistency are based on interpretation of blow count data, visual appearance of soils, and/or test data.

SOIL MOISTURE MODIFIERS:

Dry - Absence of moisture, dusty, dry to the touch

Moist - Damp, but no visible water

Wet - Visible free water or saturated, usually soil is obtained from below water table

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SOIL CLASSIFICATION SYSTEM

FIGURE B-1

f:\soila-1.doc

LABORATORY TESTS

AL	Atterberg limits
CA	Chemical analysis
CP	Compaction
CS	Consolidation
DS	Direct shear
GS	Sieve Analysis
%F	Percent fines
HA	Hydrometer analysis
SK	Permeability
SM	Moisture content
MD	Moisture and density
ST	Swelling test
TX	Triaxial compression
UC	Unconfined compression

FIELD SCREENING TESTS

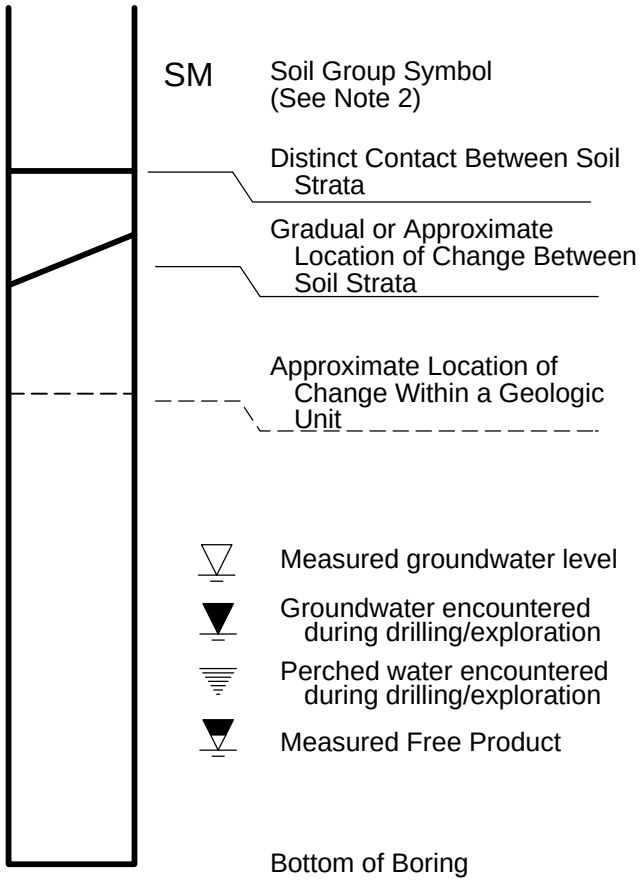
Visual Sheen Test Classifications

NS	No Visible Sheen
SS	Slight sheen
MS	Moderate sheen
HS	Heavy sheen
--	Not tested

Vapor Measurements

TLV	TLV™ sniffer
PID	Photo ionization detector
FID	Flame ionization detector
OVA	Organic vapor analyzer
--	Not tested

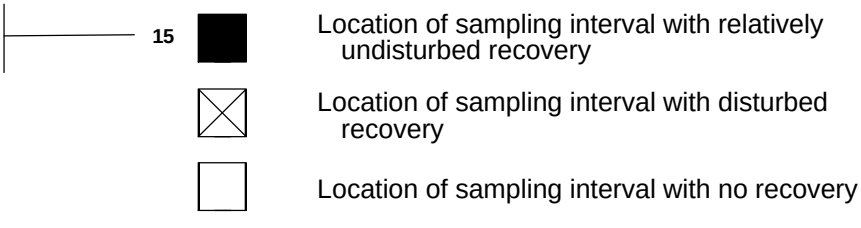
SOIL GRAPHICS



BLOW-COUNT

"P" indicates sampler pushed against with weight of hammer or against weight of drill rig

SAMPLE GRAPHICS



NOTES:

1. The reader must refer to the discussion in the report text, the Key to Log Symbols and the exploration logs for a proper understanding of subsurface conditions.
2. Soil classification system is summarized in Figure A-1.

KEY TO LOG SYMBOLS

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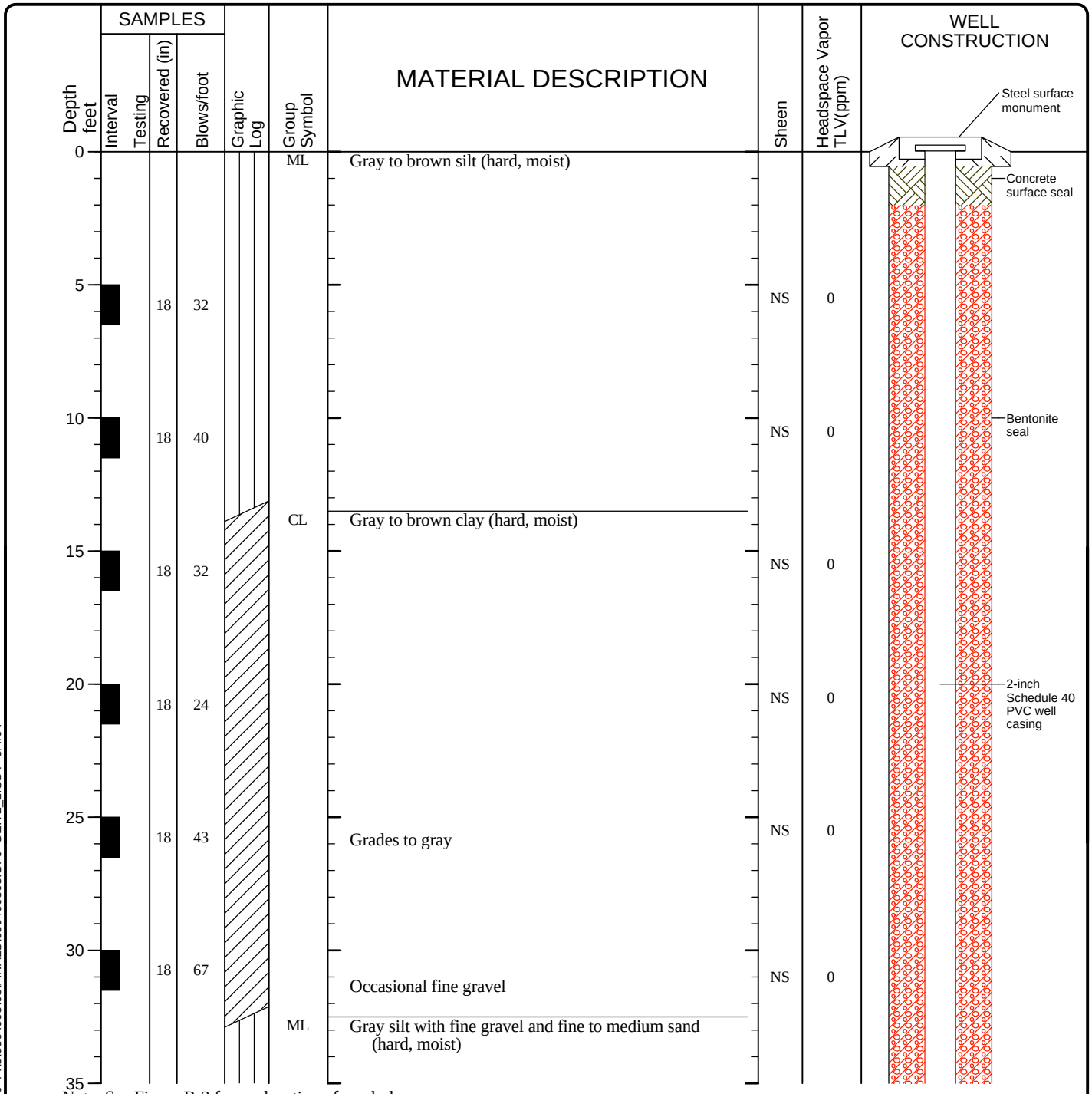
Project:	Port of Skagit County
Project Location:	Burlington, Washington
Project Number:	5364-003-03

Figure: B-2
Sheet 1 of 1

5364-003-03 KEY_TO_SYMBOLS P:\5536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04

Date(s) Drilled	01/07/04	Logged By	RNM/MR4	Checked By	MR4
Drilling Contractor	Cascade Drilling	Drilling Method	Hollow-stem Auger	Sampling Methods	Dames & Moore
Total Boring Depth (ft)	115	Hammer Data	300 (lb) hammer/ 30 (in) drop	Drilling Equipment	CME-75
Well Depth (ft)	115	Top of Well Elevation (ft)		Groundwater Level (ft. bgs)	102.3
System/ Datum					



Note: See Figure B-2 for explanation of symbols

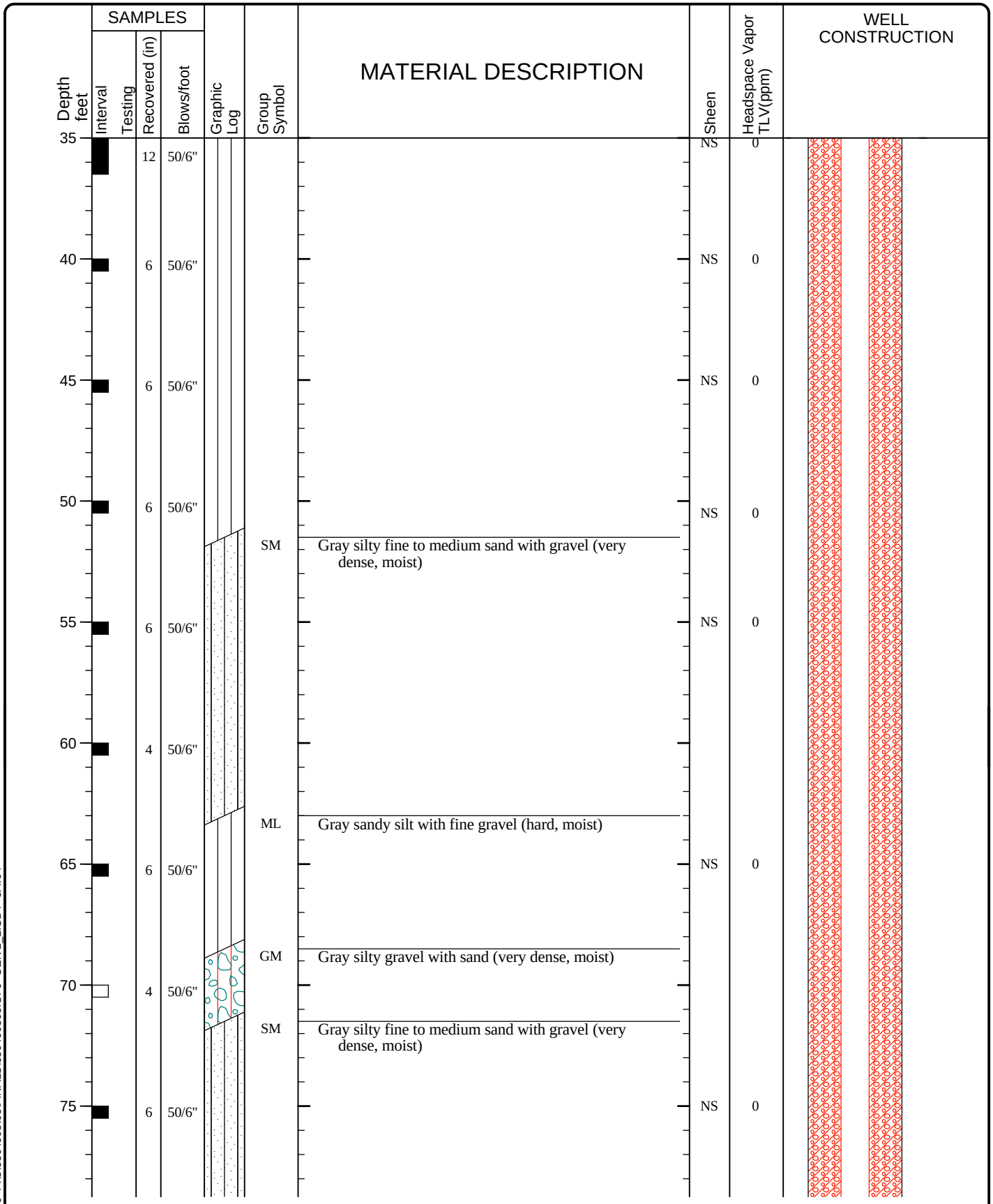
LOG OF MONITORING WELL MW-1

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-3
Sheet 1 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\5364003\03\FINALS\5364003.GPJ GEIV2_2.GDT 5/4/04



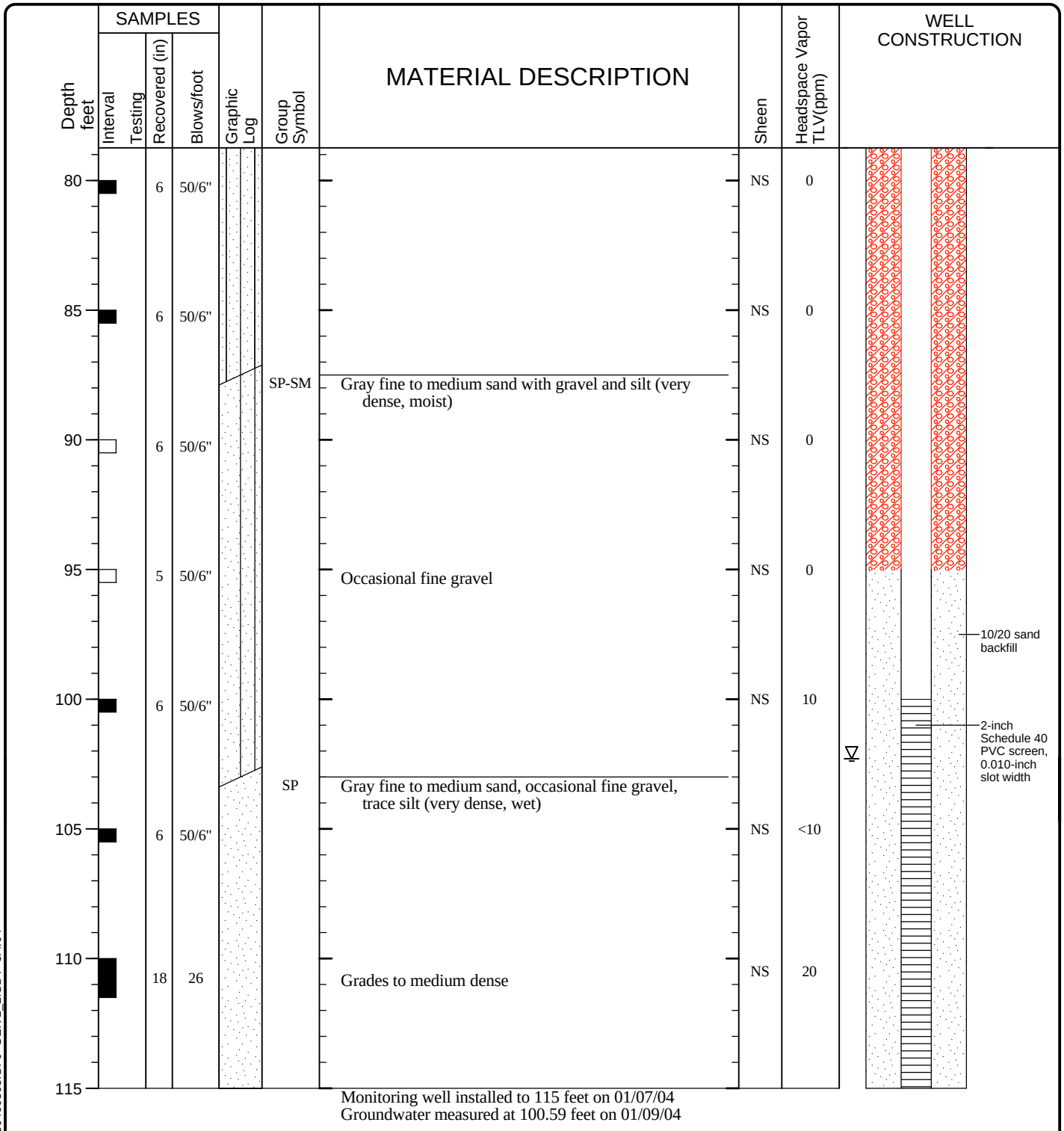
LOG OF MONITORING WELL MW-1 (continued)

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-3
Sheet 2 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\5364003\03\FINALS\5364003303.GPJ GEIV2_2.GDT 5/4/04



LOG OF MONITORING WELL MW-1 (continued)

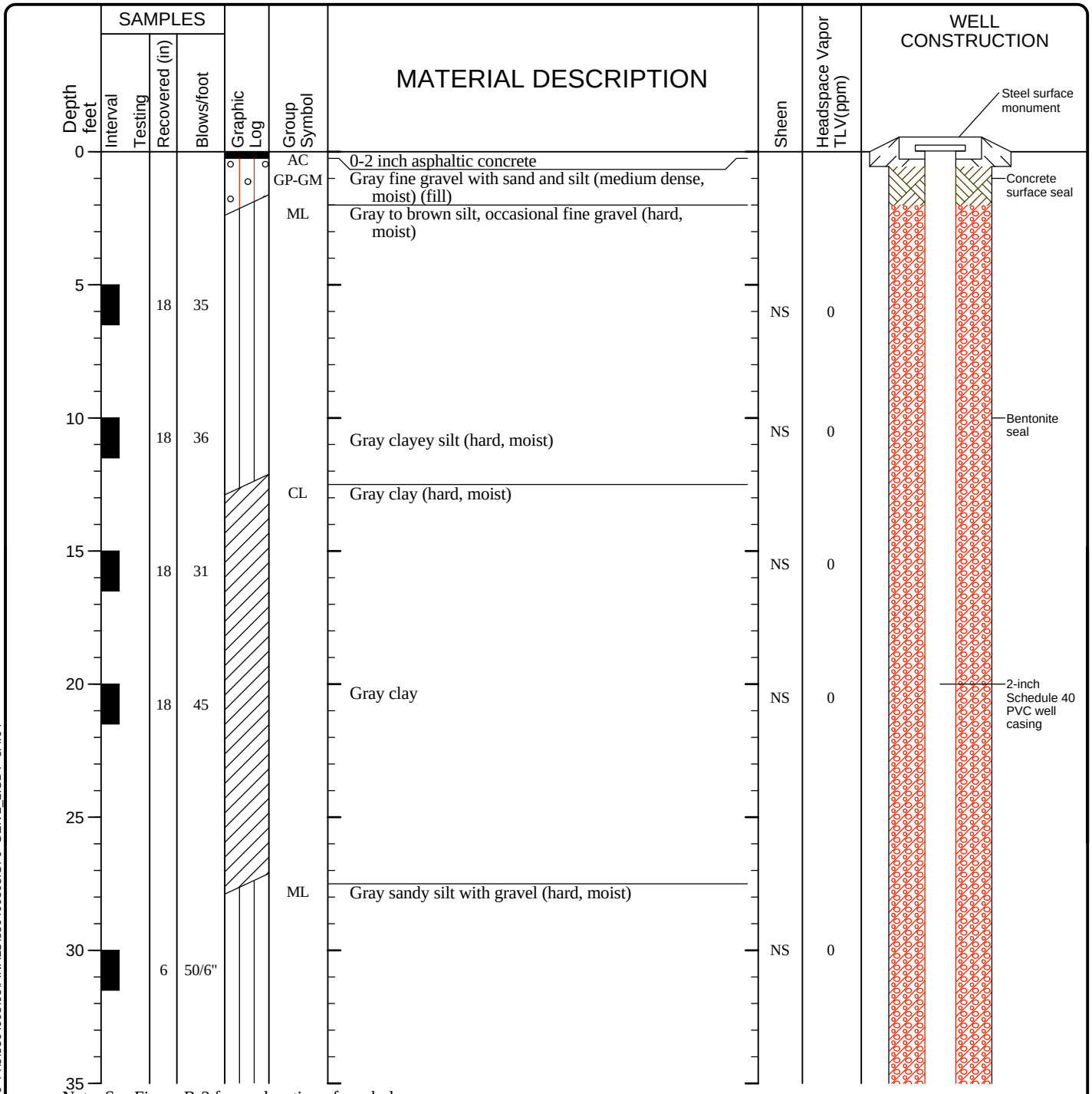
GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-3
Sheet 3 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04

Date(s) Drilled	01/08/04	Logged By	RNM/MR4	Checked By	MR4
Drilling Contractor	Cascade Drilling	Drilling Method	Hollow-stem Auger	Sampling Methods	Dames & Moore
Total Boring Depth (ft)	115	Hammer Data	300 (lb) hammer/ 30 (in) drop	Drilling Equipment	CME-75
Well Depth (ft)	115	Top of Well Elevation (ft)		Groundwater Level (ft. bgs)	102.08
System/ Datum					



Note: See Figure B-2 for explanation of symbols

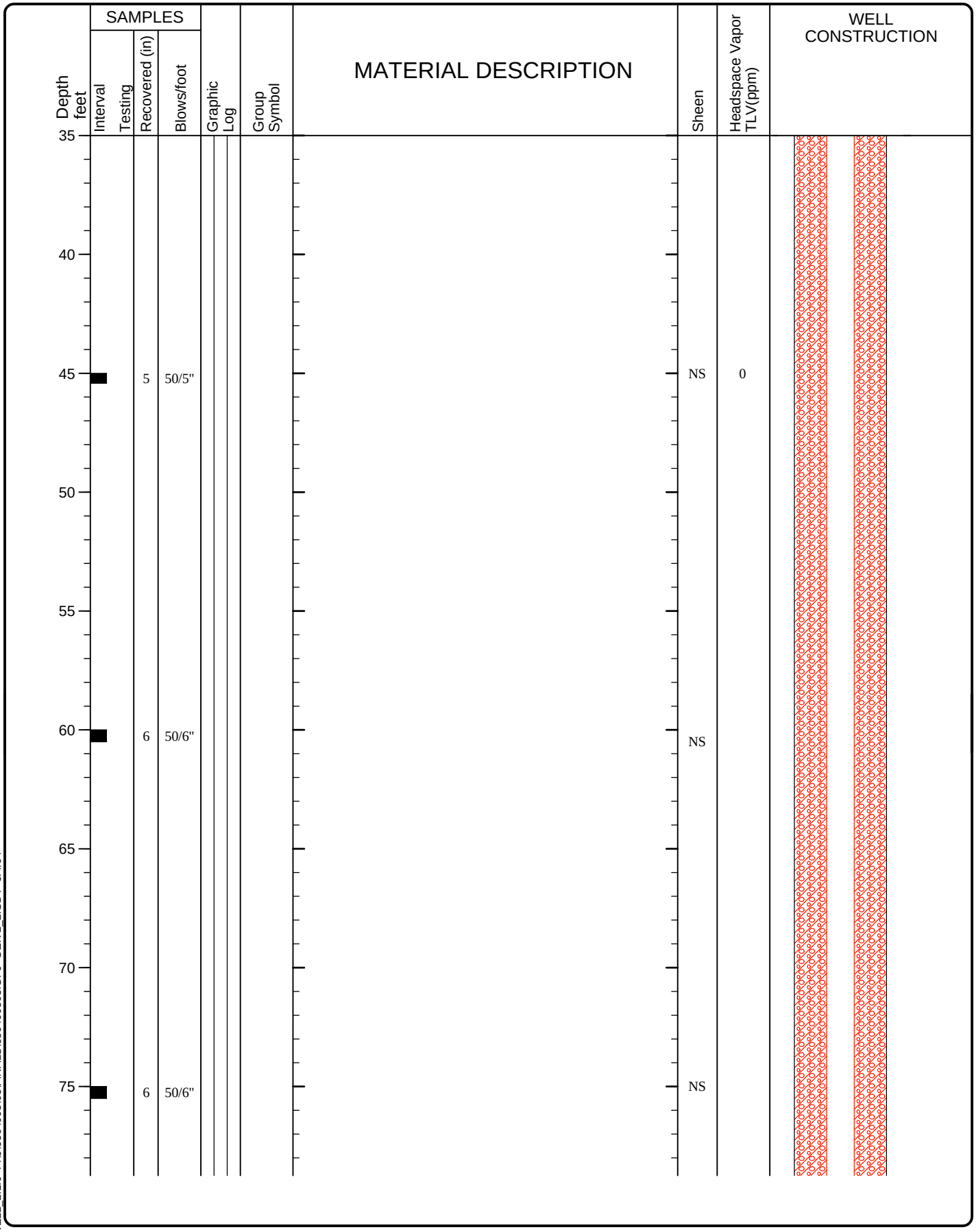
LOG OF MONITORING WELL MW-2

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-4
Sheet 1 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\5364003\03\FINALS\5364003.GPJ GEIV2_2.GDT 5/4/04



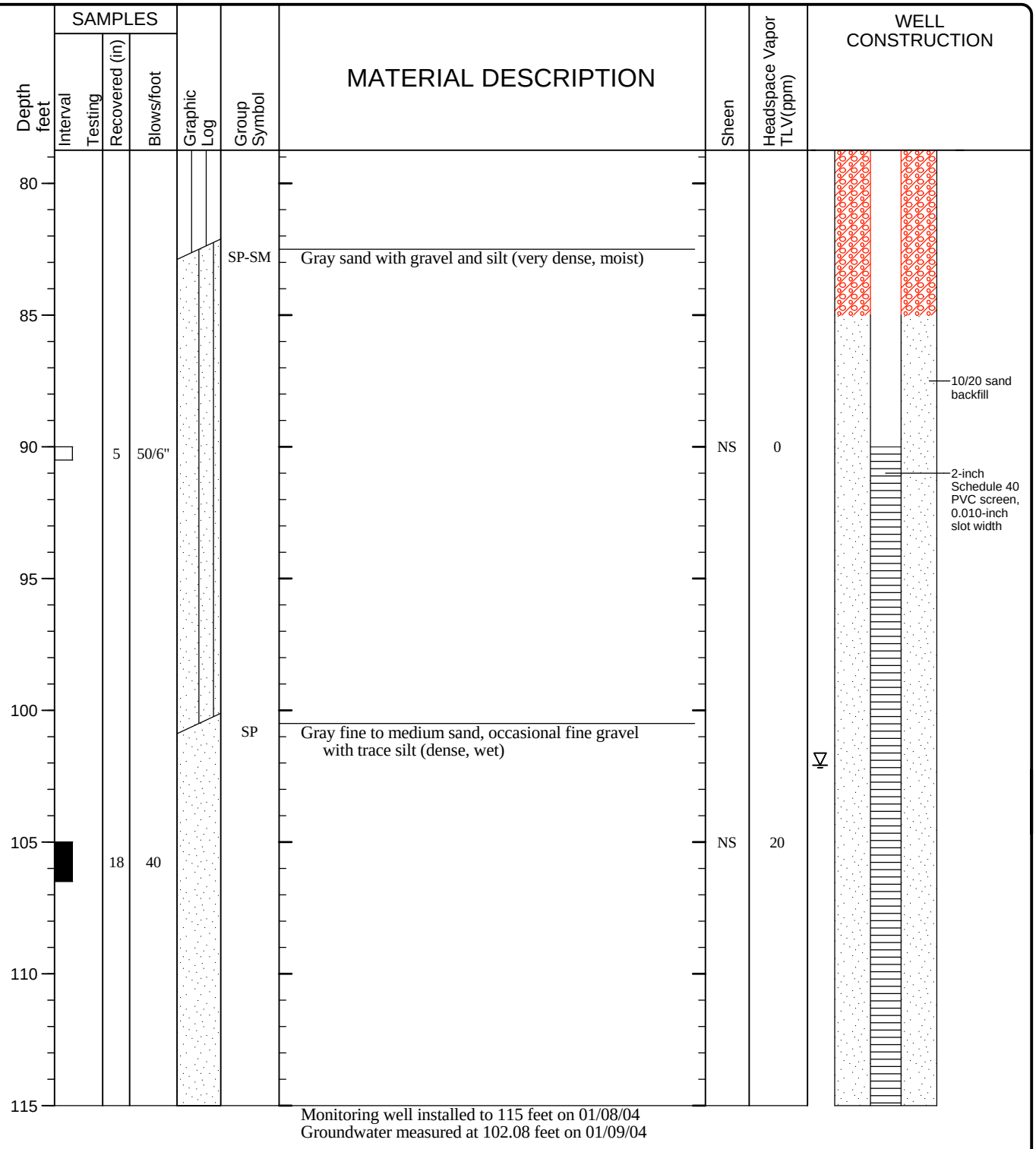
LOG OF MONITORING WELL MW-2 (continued)

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-4
Sheet 2 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04



LOG OF MONITORING WELL MW-2 (continued)

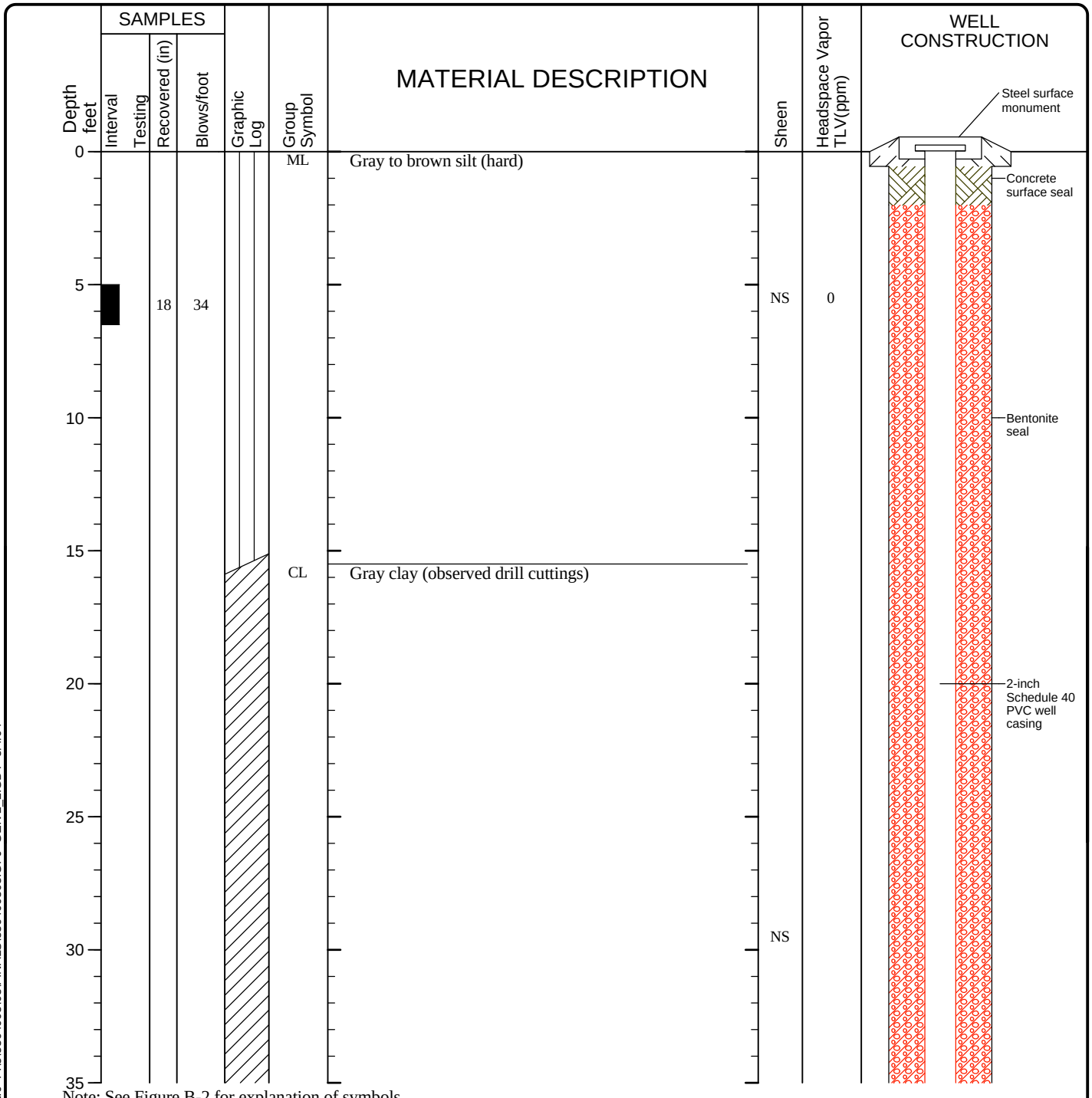
GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-4
Sheet 3 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04

Date(s) Drilled	01/09/04	Logged By	RNM/MR4	Checked By	MR4
Drilling Contractor	Cascade Drilling	Drilling Method	Hollow-stem Auger	Sampling Methods	Dames & Moore
Total Boring Depth (ft)	115	Hammer Data	300 (lb) hammer/ 30 (in) drop	Drilling Equipment	CME-75
Well Depth (ft)	115	Top of Well Elevation (ft)		Groundwater Level (ft. bgs)	101.13
System/ Datum					



Note: See Figure B-2 for explanation of symbols

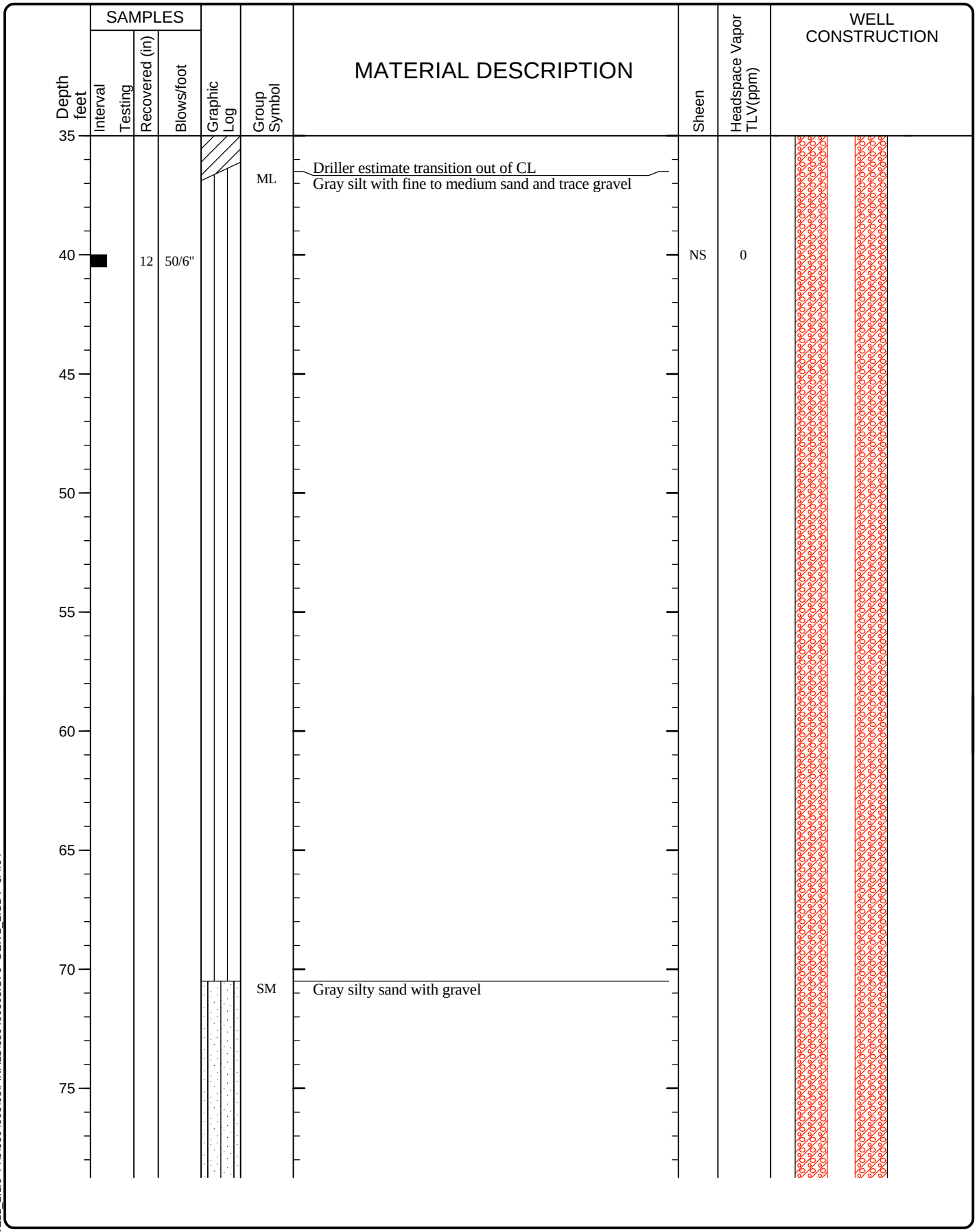
LOG OF MONITORING WELL MW-3

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-5
Sheet 1 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\5364003\03\FINALS\5364003.GPJ GEIV2_2.GDT 5/4/04



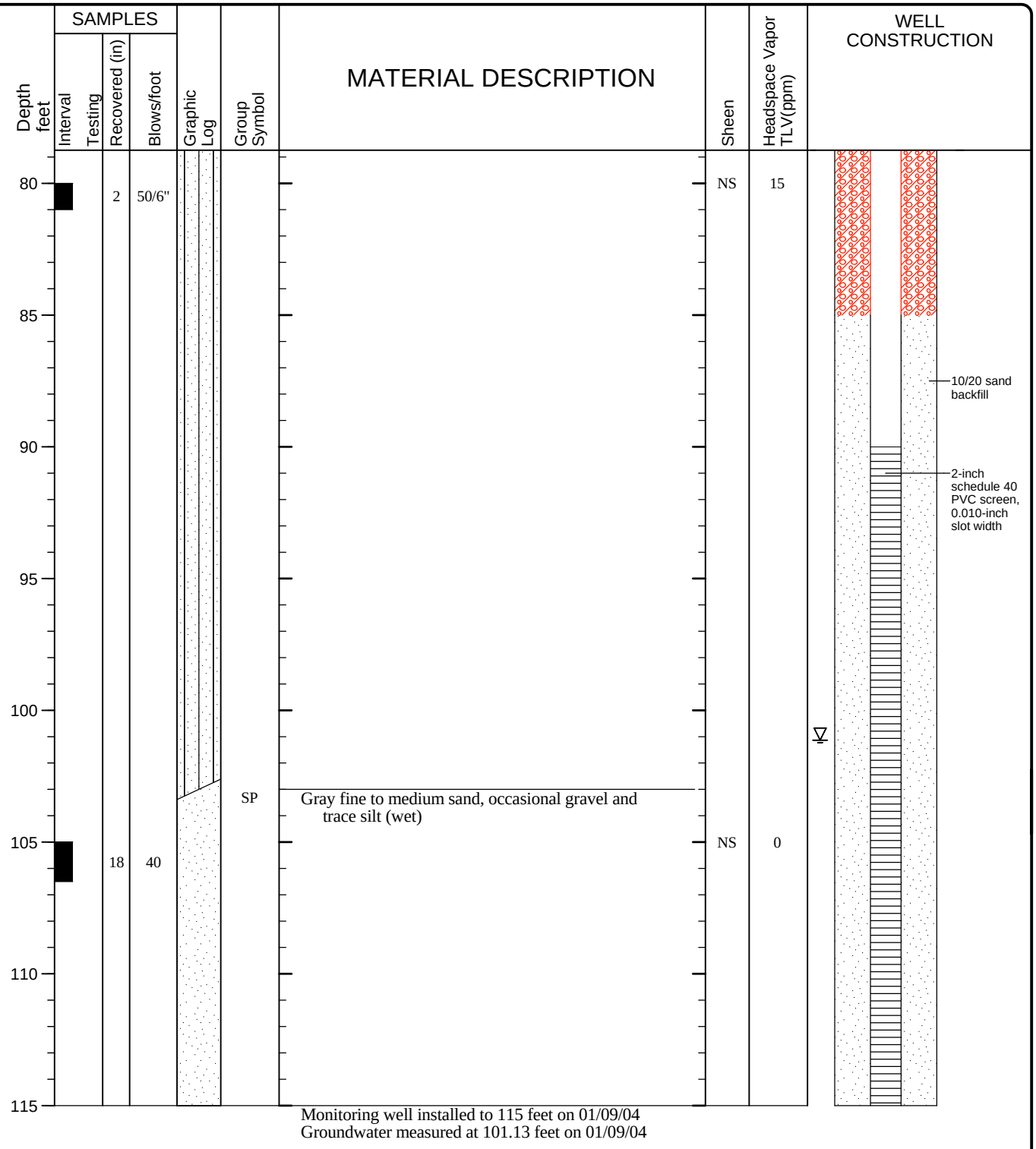
LOG OF MONITORING WELL MW-3 (continued)

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-5
Sheet 2 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04



LOG OF MONITORING WELL MW-3 (continued)

GeoEngineers

Project: Port of Skagit County
Project Location: Burlington, Washington
Project Number: 5364-003-03

Figure: B-5
Sheet 3 of 3

5364-003-03 GEI_ENVWELL_2.1.0 P:\5\536400303\FINALS\536400303.GPJ GEIV2_2.GDT 5/4/04

APPENDIX H
Photographs (2009-2010 Investigation)

Site Looking West
09.01.09

Site from Northeast Corner, Looking Southwest
09.01.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-1

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

East End of Hangar Building , Looking South
09.01.09

Eastern End of Hangar Building, Looking Southeast
09.10.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-2

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

Hangar Building, Northeast Entrance (GEI-7)
09.10.09

GEI-1 at Northwest Corner of Site, Looking East-Southeast
09.10.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-3

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

GEI-22 in Wetland
09.11.09

GEI-15 in Wetland
09.11.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-4

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

Mature Tree in Wetland
09.01.09

Installation of GEI-MW-8
10.22.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-5

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

Installation of GEI-MW-7
10.22.09

Installation of GEI-MW-4
10.22.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-6

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

GEI-MW-6, Looking Northeast
11.03.09

GEI-MW-8, Looking East
11.03.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-7

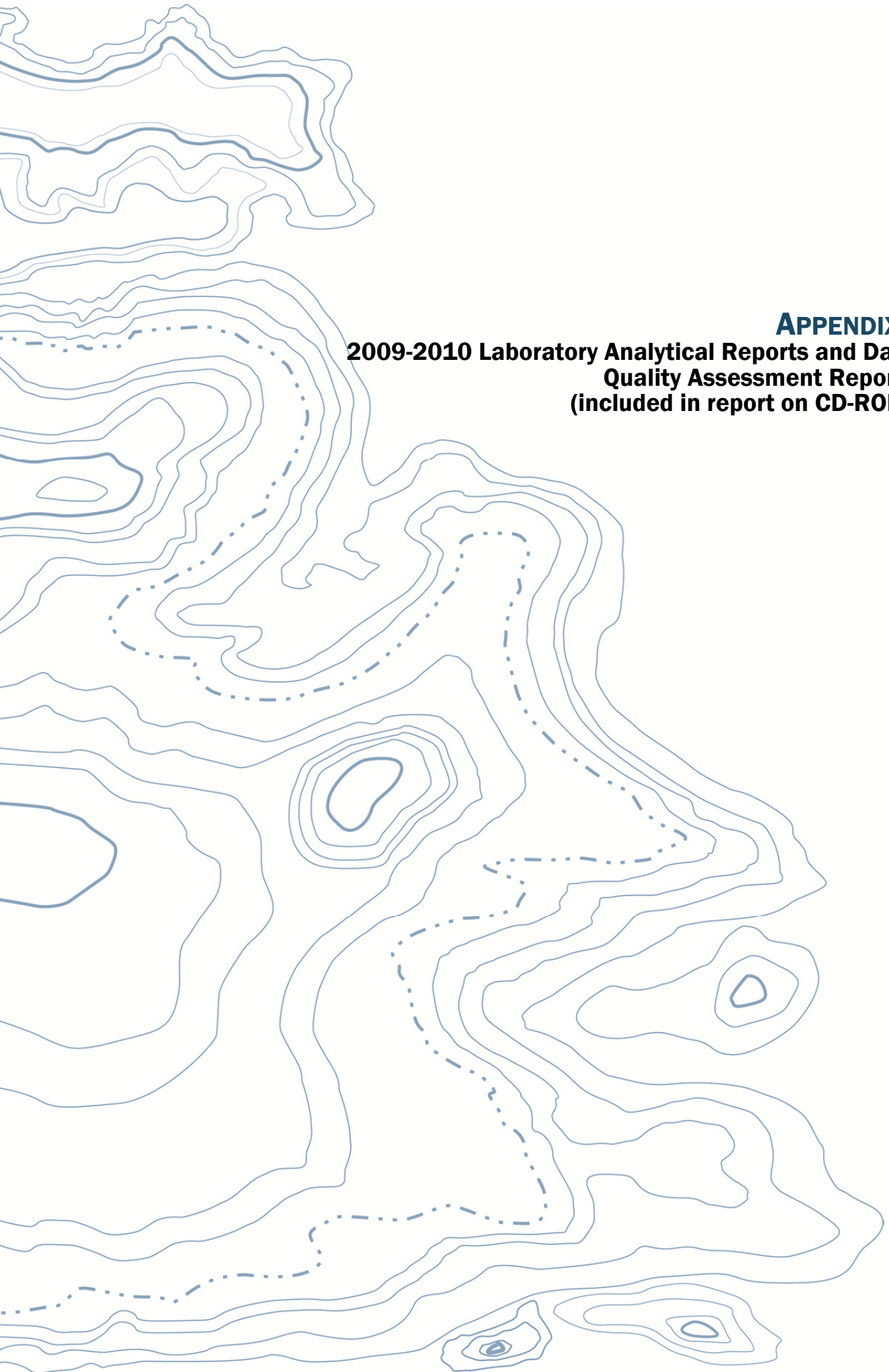
SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10

Livestock Well
10.22.09

Livestock Well
11.03.09

Site Photographs	
Taxiway F Site Burlington, Washington	
GeoEngineers	Appendix H-8

SEAT: 5364013\01\Finals\536401302 Appendix H Photographs.pptx CSV 08/10/10



APPENDIX I

2009-2010 Laboratory Analytical Reports and Data Quality Assessment Reports (included in report on CD-ROM)

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

October 2, 2009

Mr. Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 09-14003 - Taxiway F RI Study/005364-013-01, Task 0100

Dear Mr. Rob Leet,

Your project: Taxiway F RI Study/005364-013-01, Task 0100, was received on Thursday September 10, 2009.
The following comments are reported for your project:

EPA METHOD 8081A

All reported results were confirmed by GC/MS or by GC/ECD alternate column .

The dilution factor includes the conversion to dry weight based on the sample total solids.

Sample 29711 - The results are reported from GC/MS analysis due to interferance from a high amount of chlordane present.

Sample 29723 - The quantitative results were from surrogate, Tetrachloro-m-xylene, used as the internal standard due to overlapping peaks with the internal standard, DBOB.

Sample 29731 - Endosulfan II, the MS confirmation had a result lower then the reported amount, while the other compounds were within acceptable agreement. The sample was also analyzed with GC2, alternate column, and the result (4.27 mg/Kg) was within closer agreement with the MS amount (3.74 mg/Kg). The data is "suspect" because there may be an unresolved compound co-eluting with Endosulfan II causing an erroneously high result on the primary column.

Sample 29732 - Endosulfan II, the MS confirmation had a result lower then the amount reported, while the other compounds were within acceptable agreement. The sample was also analyzed with GC2, alternate column, and the result (2.54 mg/Kg). In spite of the disparity in the amounts found, there is no evidence of chromatographic problems. The data is "suspect" as biased high.

NOTE: Dinoseb was detected as the most abundant compound (relative amount 20 ppm) within the sample and shows a 5x increase from the shallow sample 29731.

EPA 8081A - Rinsate

Sample 29736 - A low level of Endosulfans was detected at or below the Method Blank acceptance criteria of 0.02 ug/L. The amount is estimated at 0.01 - 0.02 ug/L. The detections were confirmed by alternate column.

EPA METHOD 8151A

Sample 29723 - The sample was analyzed in duplicate and both samples had lower recoveries relative to the other samples

within the extraction batch. Samples were methylated a second time and re-analyzed; no change in surrogate recoveries.

Dinoseb is "suspect" as present below the MRL from detection in the 8081A analysis and estimated at 0.01 ppm. The 8151A also detected a compound within the retention window of dinoseb but was a shoulder peak and < 5 times background signal. The MS confirmation analysis also was "suspect" detecting dinoseb but was too low to report with 100% certainty due to background.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Cindy O'Toole
Chief Organic Chemist - Burlington

LJH

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

EDGE ANALYTICAL LABORATORIES

EDGE Analytical, Inc.

Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

09-14003
9/24/2009

Project Sheet

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Date: 10/5/2009
Reference Number: **09-14003**
Project: Taxiway F RI Study/005364-0

Date Received: 9/10/2009
QC Level: 0
Turnaround: Standard
Date Due: **9/24/2009**

Project Notes: Abiji called, 9/14 2:30, that wanted samples 19-22 to be analyzed for deep and not the shallow . Told him that 19 and 20 have already been analyzed and close to being reported - have to pay for the analysis. Samples 21 and 22 have not been extracted so will be removed and only analyzed for the deep sample. - co

Lab Number	Sample Number	Sample Description	Lab Method	Matrix	Date Sampled	Status
29703.00	GEI-1-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29703.00	GEI-1-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29704.00	GEI-1-0.7-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29705.00	GEI-5-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29705.00	GEI-5-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29706.00	GEI-5-0.7-0.8	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29707.00	GEI-6-0.4-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29707.00	GEI-6-0.4-0.5	Taxiway F	8151.S	S	9/10/2009	Ready To Bill
29707.00	GEI-6-0.4-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29708.00	GEI-6-0.9-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29709.00	GEI-2-0.5-0.6	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29709.00	GEI-2-0.5-0.6	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29710.00	GEI-2-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29711.00	GEI-7-0.2-0.3	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29711.00	GEI-7-0.2-0.3	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
* 29712.00	GEI-7-0.8-1.0	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29712.00	GEI-7-0.8-1.0	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29713.00	GEI-3-0.4-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29713.00	GEI-3-0.4-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29714.00	GEI-3-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29715.00	GEI-4-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29715.00	GEI-4-0.3-0.5	Taxiway F	8151.S	S	9/10/2009	Ready To Bill
29715.00	GEI-4-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29716.00	GEI-4-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29717.00	GEI-11-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29717.00	GEI-11-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29718.00	GEI-11-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29719.00	GEI-10-0.3-0.5	Texiway F	8081A	S	9/10/2009	Ready To Bill
29719.00	GEI-10-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill

FORM: cLabSht.rpt

* OFF Hold 9/18/09 per Rob Leet CO

EDGE Analytical, Inc.

Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

09-14003
9/24/2009

Project Sheet

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Date: 10/5/2009
Reference Number: 09-14003
Project: Taxiway F RI Study/005364-0

Date Received: 9/10/2009
QC Level: 0
Turnaround: Standard
Date Due: 9/24/2009

Project Notes: Abiji called, 9/14 2:30, that wanted samples 19-22 to be analyzed for deep and not the shallow . Told him that 19 and 20 have already been analyzed and close to being reported - have to pay for the analysis. Samples 21 and 22 have not been extracted so will be removed and only analyzed for the deep sample. - co

Lab Number	Sample Number	Sample Description	Lab Method	Matrix	Date Sampled	Status
29720.00	GEI-10-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29721.00	GEI-8-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29721.00	GEI-8-0.3-0.5	Taxiway F	8151.S	S	9/10/2009	Ready To Bill
29721.00	GEI-8-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29722.00	GEI-8-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29723.00	GEI-9-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29723.00	GEI-9-0.3-0.5	Taxiway F	8151.S	S	9/10/2009	Ready To Bill
29723.00	GEI-9-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29724.00	GEI-9-0.8-1.0	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29724.00	GEI-9-0.8-1.0	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29725.00	GEI-19-0.2-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29725.00	GEI-19-0.2-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29726.00	GEI-19-0.7-1.0	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29726.00	GEI-19-0.7-1.0	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29727.00	GEI-20-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29727.00	GEI-20-0.3-0.5	Texiway F	TS.Calc	S	9/10/2009	Ready To Bill
29728.00	GEI-20-0.8-1.0	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29728.00	GEI-20-0.8-1.0	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29729.00	GEI-12-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29729.00	GEI-12-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29730.00	GEI-12-0.8-1.0	Taxiway F	Hold	S	9/10/2009	Ready To Bill
29731.00	GEI-13-0.3-0.5	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29731.00	GEI-13-0.3-0.5	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29732.00	GEI-13-0.8-1.0	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29732.00	GEI-13-0.8-1.0	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29733.00	DUP-1	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29733.00	DUP-1	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29734.00	DUP-2	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29734.00	DUP-2	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill

FORM: cLabShLrpt

EDGE ANALYTICAL LABORATORIES

EDGE Analytical, Inc.

Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

09-14003
9/24/2009

Project Sheet

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Date: 10/5/2009
Reference Number: **09-14003**
Project: Taxiway F RI Study/005364-0

Date Received: 9/10/2009
QC Level: 0
Turnaround: Standard
Date Due: **9/24/2009**

Project Notes: Abiji called, 9/14 2:30, that wanted samples 19-22 to be analyzed for deep and not the shallow . Told him that 19 and 20 have already been analyzed and close to being reported - have to pay for the analysis. Samples 21 and 22 have not been extracted so will be removed and only analyzed for the deep sample. - co

Lab Number	Sample Number	Sample Description	Lab Method	Matrix	Date Sampled	Status
29735.00	DUP-3	Taxiway F	8081A	S	9/10/2009	Ready To Bill
29735.00	DUP-3	Taxiway F	TS.Calc	S	9/10/2009	Ready To Bill
29736.00	RINSATE-1	Taxiway F	8081A.W	W	9/10/2009	Ready To Bill
29736.00	RINSATE-1	Taxiway F	8151A*	W	9/10/2009	Ready To Bill

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 $ 360.757.1400 $ 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **09-14003**
Project: Taxiway F RI Study/005364-013-01, Task 0100

Report Date: 10/2/09
Date Received: 9/10/09
Reviewed by:

Sample Description: GEI-1-0.3-0.5 - Taxiway F
Lab Number: 29703
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	ND	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
33213-65-9	ENDOSULFAN II	0.062	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
1031-07-8	ENDOSULFAN SULFATE	0.36	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	

Sample Description: GEI-5-0.3-0.5 - Taxiway F
Lab Number: 29705
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	0.003 J	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
33213-65-9	ENDOSULFAN II	0.003 J	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
1031-07-8	ENDOSULFAN SULFATE	ND	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	

Sample Description: GEI-6-0.4-0.5 - Taxiway F
Lab Number: 29707
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	0.036	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
33213-65-9	ENDOSULFAN II	0.074	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
1031-07-8	ENDOSULFAN SULFATE	0.007 J	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/10/09	CO	8081S_000914	
88-85-7	DINOSEB	ND	0.03	0.05		mg/Kg	1.10	8151A/3550B	9/10/09	CO	8151_S000916	

Sample Description: GEI-2-0.5-0.6 - Taxiway F
Lab Number: 29709
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/10/09	CO	8081S_000914	
33213-65-9	ENDOSULFAN II	0.007 J	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/10/09	CO	8081S_000914	
1031-07-8	ENDOSULFAN SULFATE	0.003 J	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/10/09	CO	8081S_000914	

Notes:
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Cindy O'Toole at the above phone number.

Reference Number: **09-14003**
Report Date: 10/2/09

Data Report

Sample Description: GEI-7-0.2-0.3 - Taxiway F
Lab Number: 29711
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	2.46	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	see narrative
33213-65-9	**ENDOSULFAN II**	1.07	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	ND B4	0.1	0.1		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8001S_090910	

Sample Description: GEI-7-0.8-1.0 - Taxiway F
Lab Number: 29712
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.15	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/21/09	CO	8081_S090918	
33213-65-9	**ENDOSULFAN II**	0.089	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/21/09	CO	8081_S090918	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/21/09	CO	8081_S090918	

Sample Description: GEI-3-0.4-0.5 - Taxiway F
Lab Number: 29713
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	
8001-35-2	**TOXAPHENE**	ND	0.25	0.25		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8001S_090910	

Sample Description: GEI-4-0.3-0.5 - Taxiway F
Lab Number: 29715
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	ND	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
88-85-7	**DINOSEB**	ND	0.03	0.05		mg/Kg	1.10	8151A/3510C	9/18/09	CO	8151_S090916	

Sample Description: GEI-11-0.3-0.5 - Taxiway F
Lab Number: 29717
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.025	0.025		mg/Kg	1.00	8081A/3540C	9/11/09	CO	8081S_090910	

Notes:
NO = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-14003**
Report Date: 10/2/09

Data Report

Sample Description: GEI-10-0.3-0.5 - Taxiway F
Lab Number: 29719
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.029 J	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	0.037	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	0.02 J	0.03	0.025		mg/Kg	1.10	8081A/3540C	9/11/09	CO	8081S_090910	

Sample Description: GEI-8-0.3-0.5 - Taxiway F
Lab Number: 29721
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	0.057	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
88-85-7	**DINOSEB**	ND	0.03	0.05		mg/Kg	1.20	8151A/3510C	9/18/09	CO	8151_S090918	

Sample Description: GEI-9-0.3-0.5 - Taxiway F
Lab Number: 29723
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	**DIELDRIN**	1.24	0.03	0.025		mg/Kg	12.00	8081A/3540C	9/11/09	CO	8081S_090910	
959-98-8	**ENDOSULFAN I**	0.037	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	**ENDOSULFAN II**	0.092	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	**ENDOSULFAN SULFATE**	0.40	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
88-85-7	**DINOSEB**	ND S1	0.03	0.05		mg/Kg	1.20	8151A/3510C	9/18/09	CO	8151_S090918	see narrative

Sample Description: GEI-9-0.8-1.0 - Taxiway F
Lab Number: 29724
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	**DIELDRIN**	0.371	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/21/09	CO	8081_S090918	

Sample Description: GEI-19-0.7-1.0 - Taxiway F
Lab Number: 29726
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.224	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	0.163	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	0.02 J	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-14003**
Report Date: 10/2/09

Data Report

Sample Description: GEI-20-0.8-1.0 - Taxiway F
Lab Number: 29728
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	4.15	0.425	0.025		mg/Kg	17.00	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	ENDOSULFAN II	3.21	0.425	0.025		mg/Kg	17.00	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	ENDOSULFAN SULFATE	ND	0.425	0.025		mg/Kg	17.00	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-12-0.3-0.5 - Taxiway F
Lab Number: 29729
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	ENDOSULFAN II	0.03 S5	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	
1031-07-8	ENDOSULFAN SULFATE	0.055	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910	

Sample Description: GEI-13-0.3-0.5 - Taxiway F
Lab Number: 29731
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	2.69	0.700	0.025		mg/Kg	28.00	8081A/3540C	9/11/09	CO	8081S_090910	
33213-65-9	ENDOSULFAN II	6.06 DS	0.700	0.025		mg/Kg	28.00	8081A/3540C	9/11/09	CO	8081S_090910	see narrative
1031-07-8	ENDOSULFAN SULFATE	6.79	0.700	0.025		mg/Kg	28.00	8081A/3540C	9/11/09	CO	8081S_090910	

Sample Description: GEI-13-0.8-1.0 - Taxiway F
Lab Number: 29732
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	1.15	0.125	0.025		mg/Kg	5.00	8081A/3540C	9/21/09	CO	8081_S090918	
33213-65-9	ENDOSULFAN II	3.16 DS	0.650	0.025		mg/Kg	26.00	8081A/3540C	9/21/09	CO	8081_S090918	see narrative
1031-07-8	ENDOSULFAN SULFATE	2.47	0.650	0.025		mg/Kg	26.00	8081A/3540C	9/21/09	CO	8081_S090918	

Sample Description: DUP-2 - Taxiway F
Lab Number: 29734
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	0.202	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	ENDOSULFAN II	0.137	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	ENDOSULFAN SULFATE	0.01 J	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: DUP-3 - Taxiway F
Lab Number: 29735
Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-14003**
Report Date: 10/2/09

Data Report

959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910
33213-65-9	**ENDOSULFAN II**	0.02 J	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910
1031-07-8	**ENDOSULFAN SULFATE**	0.048	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/11/09	CO	8081S_090910

Sample Description: RINSATE-1 - Taxiway F
Lab Number: 29736

Sample Date: 9/10/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	**DIELDRIN**	ND	0.05	0.05	0.015	ug/L	1.00	8081A/3535	9/10/09	CO	8081_W090914	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.05	0.03	ug/L	1.00	8081A/3535	9/10/09	CO	8081_W090914	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.05	0.009	ug/L	1.00	8081A/3535	9/10/09	CO	8081_W090914	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.05	0.008	ug/L	1.00	8081A/3535	9/10/09	CO	8001_W090914	
8001-35-2	**TOXAPHENE**	ND	1	1	0.5	ug/L	1.00	8081A/3535	9/10/09	CO	8001_W090914	
88-85-7	**DINOSEB**	ND	0.1	0.1	0.05	ug/L	1.00	8151A/3510C	9/21/09	CO	8151_W090917	

Notes:
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-14003
Report Date: 10/05/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081_S090918						
29724	DECACHLOROBIPHENYL (Surr)	119		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	104		%		Acceptance Limits 61-123%
8081S_090914						
29726	DECACHLOROBIPHENYL (Surr)	107		%	8081A	Acceptance Limits 23-173%
	TETRACHLORO-M-XYLENE (Surr)	98		%		Acceptance Limits 46-136%
8081S_090914						
29728	DECACHLOROBIPHENYL (Surr)	98	SD	%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	95	SD	%		Acceptance Limits 61-123%
8081S_090910						
29729	DECACHLOROBIPHENYL (Surr)	90		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 61-123%
8081S_090910						
29731	DECACHLOROBIPHENYL (Surr)	78	SD	%	8081A	Acceptance Limits 35-155
	TETRACHLORO-M-XYLENE (Surr)	70	SD	%		Acceptance Limits 61-123%
8081_S090918						
29732	DECACHLOROBIPHENYL (Surr)	100	SD	%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	117	SD	%		Acceptance Limits 61-123%
8081S_090914						
29734	DECACHLOROBIPHENYL (Surr)	94		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	102		%		Acceptance Limits 61-123%
8081S_090910						
29735	DECACHLOROBIPHENYL (Surr)	87		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	90		%		Acceptance Limits 61-123%
8081_W090914						
29736	DECACHLOROBIPHENYL (Surr)	92		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	102		%		Acceptance Limits 61-123%
8151_W090917						
29736	2,4 - DCAA (SURR)	95		%	8151A	Acceptance Range is 60% to 140%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-14003
Report Date: 10/05/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081S_090914						
29703	DECACHLOROBIPHENYL (Surr)	93		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	116		%		Acceptance Limits 81-123%
8081S_090914						
29705	DECACHLOROBIPHENYL (Surr)	118		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	109		%		Acceptance Limits 81-123%
8081S_090914						
29707	DECACHLOROBIPHENYL (Surr)	102		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	120		%		Acceptance Limits 81-123%
8151_S090916						
29707	2,4 - DCAA (SURR)	94		%	8151A	Acceptance Range is 60% to 140%
8081S_090914						
29709	DECACHLDROBIPHENYL (Surr)	105		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	117		%		Acceptance Limits 81-123%
8081s_090910						
29711	DECACHLOROBIPHENYL (Surr)	106		%	8081A	Acceptance Limits 35-155%
8081S_090910						
29711	TETRACHLORO-M-XYLENE (Surr)	96		%	8081A	Acceptance Limits 81-123%
8081_S090918						
29712	DECACHLOROBIPHENYL (Surr)	124		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	107		%		Acceptance Limits 81-123%
8081S_090910						
29713	DECACHLOROBIPHENYL (Surr)	101		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	92		%		Acceptance Limits 81-123%
8081S_090910						
29715	DECACHLOROBIPHENYL (Surr)	94		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	110		%		Acceptance Limits 81-123%
8151_S090916						
29715	2,4 - DCAA (SURR)	118		%	8151A	Acceptance Range is 60% to 140%
8081S_090910						
29717	DECACHLOROBIPHENYL (Surr)	114		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	103		%		Acceptance Limits 81-123%
8081S_090910						
29719	DECACHLOROBIPHENYL (Surr)	100		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	111		%		Acceptance Limits 81-123%
8081S_090910						
29721	DECACHLOROBIPHENYL (Surr)	94		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	99		%		Acceptance Limits 81-123%
8151_S090916						
29721	2,4 - DCAA (SURR)	72		%	8151A	Acceptance Range is 60% to 140%
8081S_090910						
29723	DECACHLOROBIPHENYL (Surr)	85		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	86		%		Acceptance Limits 81-123%
8151_S090916						
29723	2,4 - DCAA (SURR)	81	NZ	%	8151A	Acceptance Range is 60% to 140%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 09-14003
Report Date: 10/05/09

Qualifier	Definition
B4	The PQL/MDL has been elevated due to chromatographic interference.
DS	Data suspect
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
EV	One or more of the results are estimated values, therefore acceptance criteria do not apply.
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
M1	The chromatograhm has significant background and co-elution of some peaks is probable.
N2	Acceptance limits listed were established for liquid matrices, the limits listed are for guidance only for a solid matrixs.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.
S1	Data is suspect due to surrogate recovery outside of acceptace limits.
S5	A shoulder was detected on the peak the result is biased high.
SD	Surrogate lost due to high sample dilution. The recovery reported is from the confirmation analysis.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

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Microbiology | 360.671.0688 S 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_S090918	DECACHLOROBIPHENYL (Surr)	115		%	8081A		35-155		LFB	
	DIELDRIN	0.405	0.5	mg/Kg	8081A	81	57-126			
	ENDOSULFAN I	0.395	0.5	mg/Kg	8081A	79	67-133			
	ENDOSULFAN II	0.525	0.5	mg/Kg	8081A	105	42-146			
	ENDOSULFAN SULFATE	0.44	0.5	mg/Kg	8081A	88	20-172			
	TETRACHLORO-M-XYLENE (Surr)	80		%	8081A		81-123			
8081S_090910	DECACHLOROBIPHENYL (Surr)	105		%	8081A		35-155		LFB	
	DIELDRIN	0.088	0.1	mg/Kg	8081A	88	57-126			
	ENDOSULFAN I	0.093	0.1	mg/Kg	8081A	93	67-133			
	ENDOSULFAN II	0.094	0.1	mg/Kg	8081A	94	42-146			
	ENDOSULFAN SULFATE	0.091	0.1	mg/Kg	8081A	91	20-172			
	TETRACHLORO-M-XYLENE (Surr)	97		%	8081A		81-123			
	TOXAPHENE	0.7	1	mg/Kg	8081A	70	65-161			
8081S_090914	DECACHLOROBIPHENYL (Surr)	108		%	8081A		35-155		LFB	
	ENDOSULFAN I	0.097	0.1	mg/Kg	8081A	97	67-133			
	ENDOSULFAN II	0.114	0.1	mg/Kg	8081A	114	42-146			
	ENDOSULFAN SULFATE	0.094	0.1	mg/Kg	8081A	94	20-172			
	TETRACHLORO-M-XYLENE (Surr)	128		%	8081A		81-123			
8151_S090916	2,4 - DCAA (SURR)	66		%	8151A		62-128		LFB	
	DINOSEB	0.23	0.33	mg/Kg	8151A	70	36-126			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low Level Laboratory Fortified Blank

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081S_090910	DIELDRIN	0.008	0.01	mg/Kg	8081A	80	50-150		LFBD	
	ENDOSULFAN I	0.01	0.01	mg/Kg	8081A	100	50-150			
	ENDOSULFAN II	0.01	0.01	mg/Kg	8081A	100	50-150			
	ENDOSULFAN SULFATE	0.009	0.01	mg/Kg	8081A	90	50-150			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_S090918	DECACHLOROBIPHENYL (Surr)	141		%	8081A				MB	
	DIELDRIN	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	96		%	8081A					
8081S_090910	OECACHLOROBIPHENYL (Surr)	102		%	8081A				MB	
	DIELDRIN	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	98		%	8081A					
	TOXAPHENE	ND		mg/Kg	8081A		0.00800			
8081S_090914	DECACHLOROBIPHENYL (Surr)	120		%	8081A				MB	
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	112		%	8081A					
8151_S090916	2,4 - DCAA (SURR)	77		%	8151A		0.01500		MB	
	DINOSEB	ND		mg/Kg	8151A		0.01000			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081S_090914	DECACHLOROBIPHENYL (Surr)	103		%	8081A		35-155		QCS	
	ENDOSULFAN I	0.245	0.425	mg/Kg	8081A	58	67-133			limits 0.177 to 0.673
	ENDOSULFAN II	0.066	0.058	mg/Kg	8081A	114	42-146			limits 0.013 to 0.103
	ENDOSULFAN SULFATE	0.055	0.062	mg/Kg	8081A	89	20-172			limits 0.011 to 0.114
	TETRACHLORO-M-XYLENE (Surr)	NA		%	8081A		81-123			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

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QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-14003

Report Date: 10/2/2009

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081_s090918										
	29712	ENDOSULFAN I	0.15	0.16	mg/Kg	6.5	0-35		CR	GC2
	29712	ENDOSULFAN II	0.089	0.081	mg/Kg	9.4	0-35		CR	GC2
	29712	DECACHLOROBIPHENYL (Surr)	124	130	%	4.7	0-35		CR	
	29712	TETRACHLORO-M-XYLENE (Surr)	107	100	%	6.8	0-35		CR	
	29724	DIELDRIN	0.371	0.376	mg/Kg	1.3	0-35		CR	MS
	29724	DECACHLOROBIPHENYL (Surr)	119	110	%	7.9	0-35		CR	
	29724	TETRACHLORO-M-XYLENE (Surr)	104	100	%	3.9	0-35		CR	
	29732	ENDOSULFAN I	1.15	0.952	mg/Kg	18.8	0-35		CR	MS
	29732	ENDOSULFAN II	3.16	1.47DS	mg/Kg	73.0	0-35	DS	CR	MS -see narrative
	29732	ENDOSULFAN SULFATE	2.47	2.18	mg/Kg	12.5	0-35		CR	MS
	29732	DECACHLOROBIPHENYL (Surr)	100	100	%	0.0	0-35		CR	
	29732	TETRACHLORO-M-XYLENE (Surr)	117	117	%	0.0	0-35		CR	
8081s_090910										
	29719	ENDOSULFAN I	0.029	0.025J	mg/Kg	14.8	0-35	EV	CR	GC2
	29719	ENDOSULFAN II	0.037	0.025J	mg/Kg	38.7	0-35	EV	CR	GC2
	29719	ENDOSULFAN SULFATE	0.02	0.012J	mg/Kg	50.0	0-35	EV	CR	GC2
	29719	DECACHLOROBIPHENYL (Surr)	100	92	%	8.3	0-35		CR	
	29719	TETRACHLORO-M-XYLENE (Surr)	111	95	%	15.5	0-35		CR	
	29721	ENDOSULFAN SULFATE	0.057	0.040	mg/Kg	35.1	0-35		CR	GC2
	29721	DECACHLOROBIPHENYL (Surr)	94	87	%	7.7	0-35		CR	
	29721	TETRACHLORO-M-XYLENE (Surr)	99	85	%	15.2	0-35		CR	
	29723	DIELDRIN	1.24	0.88	mg/Kg	34.0	0-35		CR	MS
	29723	ENDOSULFAN I	0.037	0.038	mg/Kg	2.7	0-35		CR	GC2
	29723	ENDOSULFAN II	0.092	0.092	mg/Kg	0.0	0-35		CR	GC2
	29723	ENDOSULFAN SULFATE	0.40	0.41	mg/Kg	2.5	0-35		CR	MS
	29723	DECACHLOROBIPHENYL (Surr)	85	85	%	0.0	0-35		CR	
	29723	TETRACHLORO-M-XYLENE (Surr)	86	83	%	3.6	0-35		CR	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
	29729	ENDOSULFAN II	0.03	0.015J	mg/Kg	66.7	0-35	EV	CR	GC2
	29729	ENDOSULFAN SULFATE	0.055	0.043	mg/Kg	24.5	0-35		CR	GC2
	29729	DECACHLOROBIPHENYL (Surr)	90	86	%	4.5	0-35		CR	
	29729	TETRACHLORO-M-XYLENE (Surr)	82	76	%	7.6	0-35		CR	
	29731	ENDOSULFAN I	2.69	1.83	mg/Kg	38.1	0-35	M1	CR	MS
	29731	ENDOSULFAN II	6.06	3.74	mg/Kg	47.3	0-35	DS	CR	GC2 / see narrative
	29731	ENDOSULFAN SULFATE	6.79	6.55	mg/Kg	3.6	0-35		CR	MS
	29731	DECACHLOROBIPHENYL (Surr)	78	78	%	0.0	0-35		CR	
	29731	TETRACHLORO-M-XYLENE (Surr)	70	70	%	0.0	0-35		CR	
	29735	ENDOSULFAN II	0.02	0.01J	mg/Kg	66.7	0-35	EV	CR	GC2
	29735	ENDOSULFAN SULFATE	0.048	0.039	mg/Kg	20.7	0-35		CR	GC2
	29735	DECACHLOROBIPHENYL (Surr)	87	84	%	3.5	0-35		CR	
	29735	TETRACHLORO-M-XYLENE (Surr)	90	84	%	6.9	0-35		CR	
8081s_090914										
	29703	ENDOSULFAN II	0.062	0.060	mg/Kg	3.3	0-35		CR	GC2
	29703	ENDOSULFAN SULFATE	0.36	0.32	mg/Kg	11.8	0-35		CR	MS
	29703	DECACHLOROBIPHENYL (Surr)	93	90	%	3.3	0-35		CR	
	29703	TETRACHLORO-M-XYLENE (Surr)	116	99	%	15.8	0-35		CR	
	29705	ENDOSULFAN I	0.003	0.003J	mg/Kg	0.0	0-35		CR	GC2
	29705	ENDOSULFAN II	0.003	0.002J	mg/Kg	40.0	0-35	EV	CR	GC2
	29705	DECACHLOROBIPHENYL (Surr)	116	111	%	4.4	0-35		CR	
	29705	TETRACHLORO-M-XYLENE (Surr)	109	100	%	8.6	0-35		CR	
	29707	ENDOSULFAN I	0.036	0.033	mg/Kg	8.7	0-35		CR	GC2
	29707	ENDOSULFAN II	0.074	0.063	mg/Kg	16.1	0-35		CR	GC2
	29707	ENDOSULFAN SULFATE	0.007	0.007J	mg/Kg	0.0	0-35		CR	GC2
	29707	DECACHLOROBIPHENYL (Surr)	102	95	%	7.1	0-35		CR	
	29707	TETRACHLORO-M-XYLENE (Surr)	120	100	%	18.2	0-35		CR	
	29709	ENDOSULFAN II	0.007	0.006J	mg/Kg	15.4	0-35		CR	
	29709	ENDOSULFAN SULFATE	0.003	0.01J	mg/Kg	107.7	0-35	EV	CR	
	29709	DECACHLOROBIPHENYL (Surr)	105	96	%	9.0	0-35		CR	
	29709	TETRACHLORO-M-XYLENE (Surr)	117	101	%	14.7	0-35		CR	
	29726	ENDOSULFAN I	0.224	0.215	mg/Kg	4.1	0-35		CR	MS
	29726	ENDOSULFAN II	0.163	0.160	mg/Kg	1.9	0-35		CR	MS
	29726	ENDOSULFAN SULFATE	0.02	0.02J	mg/Kg	0.0	0-35		CR	GC2
	29726	DECACHLOROBIPHENYL (Surr)	107	105	%	1.9	0-35		CR	
	29726	TETRACHLORO-M-XYLENE (Surr)	98	88	%	10.8	0-35		CR	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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Only Duplicate sample with detections are listed in this report

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
	29728	ENDOSULFAN I	4.15	3.27	mg/Kg	23.7	0-35		CR	MS
	29728	ENDOSULFAN II	3.21	2.83	mg/Kg	12.6	0-35		CR	MS
	29728	DECACHLOROBIPHENYL (Surr)	98	98	%	0.0	0-35		CR	
	29728	TETRACHLORO-M-XYLENE (Surr)	95	95	%	0.0	0-35		CR	
	29734	ENDOSULFAN I	0.202	0.203	mg/Kg	0.5	0-35		CR	MS
	29734	ENDOSULFAN II	0.137	0.141	mg/Kg	2.9	0-35		CR	MS
	29734	ENDOSULFAN SULFATE	0.01	0.01J	mg/Kg	0.0	0-35		CR	GC1
	29734	DECACHLOROBIPHENYL (Surr)	94	92	%	2.2	0-35		CR	
	29734	TETRACHLORO-M-XYLENE (Surr)	102	91	%	11.4	0-35		CR	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081_S090918										
	29712	ENDOSULFAN I	0.15	0.17	mg/Kg	12.5	0-50		DUP	
	29712	ENDOSULFAN II	0.089	0.094	mg/Kg	5.5	0-50		DUP	
	29712	DECACHLOROBIPHENYL (Surr)	124	121	%	2.4	0-50		DUP	
	29712	TETRACHLORO-M-XYLENE (Surr)	107	115	%	7.2	0-50		DUP	
8081_W090914										
	29736	DECACHLOROBIPHENYL (Surr)	92	116	%	23.1	0-50		DUP	
	29736	TETRACHLORO-M-XYLENE (Surr)	102	103	%	1.0	0-50		DUP	
8081S_090910										
	29723	DIELDRIN	1.24	1.11	mg/Kg	11.1	0-50		DUP	
	29723	ENDOSULFAN I	0.037	0.01J	mg/Kg	114.9	0-50	EV	DUP	
	29723	ENDOSULFAN II	0.092	0.07	mg/Kg	27.2	0-50		DUP	
	29723	ENDOSULFAN SULFATE	0.40	0.44	mg/Kg	9.5	0-50		DUP	
	29723	DECACHLOROBIPHENYL (Surr)	85	84	%	1.2	0-50		DUP	
	29723	TETRACHLORO-M-XYLENE (Surr)	86	92	%	6.7	0-50		DUP	
8151_S090916										
	29723	2,4 - DCAA (SURR)	61	51	%	17.9	0-50		DUP	
TS_090911										
	29721	TOTAL SOLIDS FOR CALCULATION	85.1	84.0	%	1.3	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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EDGE ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081S_090910															
	29723	DIELDRIN	1.24	1.05		0.12	mg/Kg	-158	NA	74-134	NA	0-30	S	LFM	
	29723	ENDOSULFAN I	0.037	0.115		0.12	mg/Kg	65	NA	67-133	NA	0-30	S	LFM	
	29723	ENDOSULFAN II	0.092	0.16		0.12	mg/Kg	57	NA	64-142	NA	0-30	S	LFM	
	29723	ENDOSULFAN SULFATE	0.4	0.44		0.12	mg/Kg	33	NA	71-143	NA	0-30	S	LFM	
	29723	DECACHLOROBIPHENYL (Surr)	85	74			%		NA	35-155	NA	0-30		LFM	
	29723	TETRACHLORO-M-XYLENE (Surr)	86	82			%		NA	81-123	NA	0-30		LFM	
	29729	DIELDRIN	ND	0.55		0.6	mg/Kg	92	NA	74-134	NA	0-30		LFM	
	29729	ENDOSULFAN I	ND	0.58		0.6	mg/Kg	97	NA	67-133	NA	0-30		LFM	
	29729	ENDOSULFAN II	0.03	0.5		0.6	mg/Kg	78	NA	64-142	NA	0-30		LFM	
	29729	ENDOSULFAN SULFATE	0.055	0.6		0.6	mg/Kg	91	NA	71-143	NA	0-30		LFM	
	29729	DECACHLOROBIPHENYL (Surr)	90	96			%		NA	35-155	NA	0-30		LFM	
	29729	TETRACHLORO-M-XYLENE (Surr)	82	94			%		NA	81-123	NA	0-30		LFM	
8151_S090916															
	29707	DINOSEB	ND	0.325		0.37	mg/Kg	88	NA	61-133	NA	0-30		LFM	
	29707	2,4 - DCAA (SURR)	94	76			%		NA	62-128	NA	0-30		LFM	
8151_W090917															
	29736	DINOSEB	ND	3.76		4.44	ug/L	85	NA	61-133	NA	0-30		LFM	
	29736	2,4 - DCAA (SURR)	95	97			%		NA	62-128	NA	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 $ 360.757.1400 $ 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 $ 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W090914	DECACHLOROBIPHENYL (Surr)	92		%	8081A		35-155		LFB	
	DIELDRIN	1.14	1	ug/L	8081A	114	74-134			
	ENDOSULFAN I	0.97	1	ug/L	8081A	97	67-133			
	ENDOSULFAN II	0.93	1	ug/L	8081A	93	64-142			
	TETRACHLORO-M-XYLENE (Surr)	92		%	8081A		81-123			
8151_W090917	2,4 - DCAA (SURR)	98		%	8151A		62-128		LFB	
	DINOSEB	4.13	4.44	ug/L	8151A	93	61-133			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

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Microbiology | 360.671.0688 S 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-14003
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W090914	DECACHLOROBIPHENYL (Surr)	95		%	8081A				MB	
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	99		%	8081A					
	TOXAPHENE	ND		ug/L	8081A		0.03000			
8151_W090917	2,4 - DCAA (SURR)	94		%	8151A		0.03000		MB	
	DINOSEB	ND		ug/L	8151A		0.03000			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

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MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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Microbiology | 360.671.0688 $ 360.671.1577fax

QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-14003
Report Date: 10/2/2009

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081_W090914										
	29736	DECACHLOROBIPHENYL (Surr)	92	116	%	23.1	0-50		DUP	
	29736	TETRACHLORO-M-XYLENE (Surr)	102	103	%	1.0	0-50		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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Only Duplicate sample with detections are listed in this report

Reference Number: 09-14003
Report Date: 10/2/2009

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8151_W090917															
	29736	DINOSEB	ND	3.76		4.44	ug/L	85	NA	61-133	NA	0-30		LFM	
	29736	2,4 - DCAA (SURR)	95	97			%		NA	62-128	NA	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

CDCE ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-1-0.3-0.5	Taxiway F	Grab	Soil	09/10/09	0926	☒	☐	☐	☐	☐	☐	☐		
2	GEI-1-0.7-1.0	Taxiway F	Grab	Soil		0930	☐	☐	☐	☐	☐	☐	☐		
3	GEI-5-03-0.5	Taxiway F	Grab	Soil		0955	☒	☐	☐	☐	☐	☐	☐		
4	GEI-5-0.7-0.8	Taxiway F	Grab	Soil		1015	☐	☐	☐	☐	☐	☐	☐		
5	GEI-6-0.4-0.5	Taxiway F	Grab	Soil		1030	☒	☐	☐	☒	☒	☐	☐		
6	GEI-6-0.9-1.0	Taxiway F	Grab	Soil		1040	☐	☐	☐	☐	☐	☐	☐		
7	GEI-2-0.5-0.6	Taxiway F	Grab	Soil		1055	☒	☐	☐	☐	☐	☐	☐		
8	GEI-2-0.8-1.0	Taxiway F	Grab	Soil		1105	☐	☐	☐	☐	☐	☐	☐		
9	GEI-7-0.2-0.3	Taxiway F	Grab	Soil		1115	☒	☐	☐	☐	☐	☐	☐		
10	GEI-7-0.8-1.0	Taxiway F	Grab	Soil		1125	☐	☐	☐	☐	☐	☐	☐		

09-14003
29703 - 29736

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐ *W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	9/10/09	1657		9/10/09	1658

	YES	NO	N/A
CUSTODY SEALS INTACT On ice	☐	☐	☒
SAMPLE TEMP 5 °C SATISFACTORY	☒	☐	☐
SAMPLES RECEIVED INTACT	☒	☐	
CHAIN OF CUSTODY & LABELS AGREE	☒	☐	

09-14003

FORM: COC 01-06-2009

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

ENCE ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
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1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-3-0.4-0.5	Taxiway F	Grab	Soil	9/10/09	1155	☒	☐	☒	☐	☐	☐	☐		
2	GEI-3-0.8-1.0	Taxiway F	Grab	Soil		1205	☐	☐	☐	☐	☐	☐	☐		
3	GEI-4-0.3-0.5	Taxiway F	Grab	Soil		1215	☒	☐	☐	☒	☐	☐	☐		
4	GEI-4-0.8-1.0	Taxiway F	Grab	Soil		1220	☐	☐	☐	☐	☐	☐	☐		
5	GEI-11-0.3-0.5	Taxiway F	Grab	Soil		1245	☒	☐	☐	☐	☐	☐	☐		
6	GEI-11-0.8-1.0	Taxiway F	Grab	Soil		1250	☐	☐	☐	☐	☐	☐	☐		
7	GEI-10-0.3-0.5	Taxiway F	Grab	Soil		1305	☒	☐	☐	☐	☐	☐	☐		
8	GEI-10-0.8-1.0	Taxiway F	Grab	Soil		1310	☐	☐	☐	☐	☐	☐	☐		
9	GEI-8-0.3-0.5	Taxiway F	Grab	Soil		1340	☒	☐	☐	☒	☐	☐	☐		
10	GEI-8-0.8-1.0	Taxiway F	Grab	Soil		1345	☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: - | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER DW- DRINKING WATER SW- SURFACE WATER GW- GROUND WATER WW- WASTE WATER S- SOIL OL- OIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP_____°C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: COC 01-06-2009

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
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CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

CDGE ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
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Bellingham, WA 98225

INSTRUCTIONS
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4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-9-0.3-0.5	Taxiway F	Grab	Soil	09/10/09	1330	☒	☒	☐	☒	☐	☐	☐		
2	GEI-9-0.8-1.0	Taxiway F	Grab	Soil		1335	☐	☐	☐	☐	☐	☐	☐		
3	GEI-19-0.2-0.5	Taxiway F	Grab	Soil		1405	☒	☐	☐	☐	☐	☐	☐		
4	GEI-19-0.7-1.0	Taxiway F	Grab	Soil		1410	☐	☐	☐	☐	☐	☐	☐		
5	GEI-20-0.3-0.5	Taxiway F	Grab	Soil		1430	☒	☐	☐	☐	☐	☐	☐		
6	GEI-20-0.8-1.0	Taxiway F	Grab	Soil		1435	☐	☐	☐	☐	☐	☐	☐		
7	GEI-12-0.3-0.5	Taxiway F	Grab	Soil		1505	☒	☐	☐	☐	☐	☐	☐		
8	GEI-12-0.8-1.0	Taxiway F	Grab	Soil		1510	☐	☐	☐	☐	☐	☐	☐		
9	GEI-13-0.3-0.5	Taxiway F	Grab	Soil		1535	☒	☐	☐	☐	☐	☐	☐		
10	GEI-13-0.8-1.0	Taxiway F	Grab	Soil		1540	☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐ *W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP_____°C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: COC 01-06-2009

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

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PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

ANALYTICAL LABORATORIES

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1.800.755.9295

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4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	DUP-1	Taxiway F	Grab	SOIL		1407	☒	☐	☐	☐	☐	☐	☐		
2	DUP-2	Taxiway F	Grab	"		1412	☐	☐	☐	☐	☐	☐	☐		
3	DUP-3	Taxiway F	Grab	"		1507	☒	☐	☐	☐	☐	☐	☐		
4	RINSATE-1	Taxiway F	Grab	WATER		1610	☒	☒	☒	☒	☐	☐	☐		
5		Taxiway F	Grab				☐	☐	☐	☐	☐	☐	☐		
6		Taxiway F	Grab				☐	☐	☐	☐	☐	☐	☐		
7		Taxiway F	Grab				☐	☐	☐	☐	☐	☐	☐		
8		Taxiway F	Grab				☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP_____°C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

EDGE ANALYTICAL LABORATORIES

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October 2, 2009

Mr. Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 09-14084 - Taxiway F RI Study/005364-013-01, Task 0100

Dear Mr. Rob Leet,

Your project: Taxiway F RI Study/005364-013-01, Task 0100, was received on Friday September 11, 2009.
The following comments are reported for your project:

Quality Control Sample (QCS) is a past soil profficiency sample from RTC lot # 014692.

EPA Method 8151A - Rinsate

Sample 29889 - A field duplicate was done with the extraction batch, however it was dropped during methylation.

EPA Method 8081A - Rinsate

Sample 29889 - A low level of Endosulfans was detected at or below the Method Blank acceptance criteria of 0.02 ug/L. The amount is estimated at 0.01 - 0.02 ug/L. The detection was confirmed by alternate column.

EPA 8081A

Sample 29881 - Endosulfan II, the MS confirmation had a result (0.275 mg/Kg) significantly lower then the reported amount. The sample was also analyzed with GC2, alternate column and the result was within closer agreement to the primary column. No anomolies were found in review of the MS data and the low amount could not be accounted for.

Sample 29885 - Endosulfan II, the MS confirmation had a result lower then the reported amount, while the other compounds were in tight agreement. The sample was also analyzed with GC2, alternate column and the result (0.67 mg/Kg) was within close agreement with the MS amount (0.676 mg/Kg). The data is "suspect" because there may be an unresolved compound co-eluting with Endosulfan II causing an erroneously high result.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Cindy O'Toole
Chief Organic Chemist - Burlington

EDGE ANALYTICAL LABORATORIES

LJH

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

EDGE Analytical, Inc.

Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

09-14084
9/25/2009

Project Sheet

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Date: 10/5/2009
Reference Number: **09-14084**
Project: Taxiway F RI Study/005364-0

Date Received: 9/11/2009
QC Level: 0
Turnaround: Standard
Date Due: **9/25/2009**

Project Notes: Abiji called, 9/14 2:30, that wanted samples 19-22 to be analyzed for deep and not the shallow . Told him that 19 and 20 have already been analyzed and close to being reported - have to pay for the analysis. Samples 21 and 22 have not been extracted so will be removed and only analyzed for the deep sample. - co

Lab Number	Sample Number	Sample Description	Lab Method	Matrix	Date Sampled	Status
29874.00	GEI-15-0.3-0.5	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29874.00	GEI-15-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29875.00	GEI-15-0.8-1.0	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29876.00	GEI-16-0.3-0.5	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29876.00	GEI-16-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29877.00	GEI-16-0.8-1.0	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29878.00	GEI-14-0.3-0.5	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29878.00	GEI-14-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
* 29879.00	GEI-14-0.8-1.0	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29879.00	GEI-14-0.8-1.0	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29880.00	GEI-21-0.3-0.5	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29880.00	GEI-21-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29881.00	GEI-21-0.8-1.0	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29881.00	GEI-21-0.8-1.0	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29882.00	GEI-17-0.3-0.5	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29882.00	GEI-17-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29883.00	GEI-17-0.8-1.0	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29884.00	GEI-22-0.3-0.5	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29884.00	GEI-22-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29885.00	GEI-22-0.8-1.0	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29885.00	GEI-22-0.8-1.0	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29886.00	GEI-18-0.3-0.5	Taxiway F	8081A	S	9/11/2009	Ready To Bill
29886.00	GEI-18-0.3-0.5	Taxiway F	TS.Calc	S	9/11/2009	Ready To Bill
29887.00	GEI-18-0.8-1.0	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29888.00	DUP-4	Taxiway F	Hold	S	9/11/2009	Ready To Bill
29889.00	RINSATE-2	Taxiway F	8081A.W*	W	9/11/2009	Ready To Bill
29889.00	RINSATE-2	Texiway F	8151A*	W	9/11/2009	Ready To Bill

* OFF Hold 9/18/09 per Rob Leet CO

FORM: cLabShLrpt

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Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **09-14084**
Project: Taxiway F RI Study/005364-013-01, Task 0100

Report Date: 10/2/09
Date Received: 9/11/09
Reviewed by: JH

Sample Description: GEI-15-0.3-0.5 - Taxiway F
Lab Number: 29874
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.04	0.025		mg/Kg	1.60	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	ND	0.04	0.025		mg/Kg	1.60	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	0.33	0.04	0.025		mg/Kg	1.60	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-16-0.3-0.5 - Taxiway F
Lab Number: 29876
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	ND	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.03	0.025		mg/Kg	1.30	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-14-0.3-0.5 - Taxiway F
Lab Number: 29878
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	2.0	0.750	0.025		mg/Kg	30.00	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	5.23	0.750	0.025		mg/Kg	30.00	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	7.92	0.750	0.025		mg/Kg	30.00	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-14-0.8-1.0 - Taxiway F
Lab Number: 29879
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.070	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/21/09	CO	8081_S090918	
33213-65-9	**ENDOSULFAN II**	0.41	0.150	0.025		mg/Kg	6.00	8081A/3540C	9/21/09	CO	8081_S090918	
1031-07-8	**ENDOSULFAN SULFATE**	0.98	0.150	0.025		mg/Kg	6.00	8081A/3540C	9/21/09	CO	8081_S090918	

Notes:
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Cindy O'Toole at the above phone number.

Form: cRslt_2.rpt

Reference Number: **09-14084**
Report Date: 10/2/09

Data Report

Sample Description: GEI-21-0.8-1.0 - Taxiway F
Lab Number: 29881
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.12	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	0.592	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	see narrative
1031-07-8	**ENDOSULFAN SULFATE**	1.15	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-17-0.3-0.5 - Taxiway F
Lab Number: 29882
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.21	0.120	0.025		mg/Kg	4.80	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	0.466	0.120	0.025		mg/Kg	4.80	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	0.938	0.120	0.025		mg/Kg	4.80	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-22-0.8-1.0 - Taxiway F
Lab Number: 29885
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	0.090	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	0.960 DS	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	see narrative
1031-07-8	**ENDOSULFAN SULFATE**	1.29	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: GEI-18-0.3-0.5 - Taxiway F
Lab Number: 29886
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	
33213-65-9	**ENDOSULFAN II**	0.015 J	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	
1031-07-8	**ENDOSULFAN SULFATE**	0.160	0.03	0.025		mg/Kg	1.20	8081A/3540C	9/16/09	CO	8081S_090914	

Sample Description: RINSATE-2 - Taxiway F
Lab Number: 29889
Sample Date: 9/11/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	**DIELDRIN**	ND	0.05	0.05	0.015	ug/L	1.00	8081A/3535	9/16/09	CO	8081_W090914	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.05	0.030	ug/L	1.00	8081A/3535	9/16/09	CO	8081_W090914	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.05	0.009	ug/L	1.00	8081A/3535	9/16/09	CO	8081_W090914	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.05	0.008	ug/L	1.00	8081A/3535	9/16/09	CO	8081_W090914	
8001-35-2	**TOXAPHENE**	ND	1	1	0.5	ug/L	1.00	8081A/3535	9/16/09	CO	8081_W090914	
88-85-7	**DINOSEB**	ND	0.1	0.1	0.05	ug/L	1.00	8151A/3510C	9/21/09	CO	8151_W090917	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Qualifier Definitions

Reference Number: 09-14084
Report Date: 10/05/09

Qualifier	Definition
DS	Data suspect
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
EV	One or more of the results are estimated values, therefore acceptance criteria do not apply.
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
M1	The chromatograhm has significant background and co-elution of some peaks is probable.
SD	Surrogate lost due to high sample dilution. The recovery reported is from the confirmation analysis.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-14084
Report Date: 10/05/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081S_090914						
29874	DECACHLOROBIPHENYL (Surr)	90		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	111		%		Acceptance Limits 81-123%
8081S_090914						
29876	DECACHLOROBIPHENYL (Surr)	103		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	111		%		Acceptance Limits 81-123%
8081S_090914						
29878	DECACHLOROBIPHENYL (Surr)	94	SD	%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	93	SD	%		Acceptance Limits 81-123%
8081_S090918						
29879	DECACHLOROBIPHENYL (Surr)	122		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	119		%		Acceptance Limits 81-123%
8081S_090914						
29881	DECACHLOROBIPHENYL (Surr)	89		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	102		%		Acceptance Limits 81-123%
8081S_090914						
29882	DECACHLOROBIPHENYL (Surr)	99	SD	%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	107	SD	%		Acceptance Limits 81-123%
8081S_090914						
29885	DECACHLOROBIPHENYL (Surr)	97		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	104		%		Acceptance Limits 81-123%
8081S_090914						
29886	DECACHLOROBIPHENYL (Surr)	114		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	108		%		Acceptance Limits 81-123%
8081_W090914						
29869	DECACHLOROBIPHENYL (Surr)	92		%	8081A	Acceptance Limits 60-126%
	TETRACHLORO-M-XYLENE (Surr)	96		%		Acceptance Limits 52-118%
8151_W090917						
29869	2,4 - DCAA (SURR)	103		%	8151A	Acceptance Range is 60% to 140%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-14084
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_S090918	DECACHLOROBIPHENYL (Surr)	115		%	8081A		35-155		LFB	
	ENDOSULFAN I	0.395	0.5	mg/Kg	8081A	79	67-133			
	ENDOSULFAN II	0.525	0.5	mg/Kg	8081A	105	42-146			
	ENDOSULFAN SULFATE	0.44	0.5	mg/Kg	8081A	88	20-172			
	TETRACHLORO-M-XYLENE (Surr)	80		%	8081A		81-123			
8081_W090914	DECACHLOROBIPHENYL (Surr)	92		%	8081A		35-155		LFB	
	DIELDRIN	1.14	1	ug/L	8081A	114	74-134			
	ENDOSULFAN I	0.97	1	ug/L	8081A	97	67-133			
	ENDOSULFAN II	0.93	1	ug/L	8081A	93	64-142			
	TETRACHLORO-M-XYLENE (Surr)	92		%	8081A		81-123			
8081S_090914	DECACHLOROBIPHENYL (Surr)	108		%	8081A		35-155		LFB	
	ENDOSULFAN I	0.097	0.1	mg/Kg	8081A	97	67-133			
	ENDOSULFAN II	0.114	0.1	mg/Kg	8081A	114	42-146			
	ENDOSULFAN SULFATE	0.094	0.1	mg/Kg	8081A	94	20-172			
	TETRACHLORO-M-XYLENE (Surr)	128		%	8081A		81-123			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-14084
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_S090918	DECACHLOROBIPHENYL (Surr)	141		%	8081A				MB	
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	96		%	8081A					
8081_W090914	DECACHLOROBIPHENYL (Surr)	95		%	8081A				MB	
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	99		%	8081A					
	TOXAPHENE	ND		ug/L	8081A		0.03000			
8081S_090914	DECACHLOROBIPHENYL (Surr)	120		%	8081A				MB	
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	112		%	8081A					

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 09-14084
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081S_090914	DECACHLOROBIPHENYL (Surr)	103		%	8081A		35-155		QCS	
	ENDDSULFAN I	0.245	0.425	mg/Kg	8081A	58	57-133			limits 0.177 to 0.673
	ENDOSULFAN II	0.066	0.058	mg/Kg	8081A	114	42-146			limits 0.013 to 0.103
	ENDOSULFAN SULFATE	0.055	0.062	mg/Kg	8081A	89	20-172			limits 0.011 to 0.114
	TETRACHLORO-M-XYLENE (Surr)	NA		%	8081A		81-123			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 S 360.757.1400 S 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 S 360.671.1577fax

QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-14084
Report Date: 10/2/2009

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081_s090918										
	29879	ENDOSULFAN I	0.070	0.090	mg/Kg	25.0	0-35		CR	MS
	29879	ENDOSULFAN II	0.41	0.304	mg/Kg	29.7	0-35		CR	MS
	29879	ENDOSULFAN SULFATE	0.98	0.961	mg/Kg	2.0	0-35		CR	MS
	29879	DECACHLOROBIPHENYL (Surr)	122	128	%	4.8	0-35		CR	
	29879	TETRACHLORO-M-XYLENE (Surr)	119	113	%	5.2	0-35		CR	
8081s_090914										
	29874	ENDOSULFAN SULFATE	0.33	0.283	mg/Kg	15.3	0-35		CR	MS
	29874	DECACHLOROBIPHENYL (Surr)	90	88	%	2.2	0-35		CR	
	29874	TETRACHLORO-M-XYLENE (Surr)	111	119	%	7.0	0-35		CR	
	29878	ENDOSULFAN I	2.0	1.68	mg/Kg	17.4	0-35		CR	MS
	29878	ENDOSULFAN II	5.23	3.93	mg/Kg	28.4	0-35		CR	MS
	29878	ENDOSULFAN SULFATE	7.92	8.03	mg/Kg	1.4	0-35		CR	GC2
	29878	DECACHLOROBIPHENYL (Surr)	94	94	%	0.0	0-35		CR	
	29878	TETRACHLORO-M-XYLENE (Surr)	93	93	%	0.0	0-35		CR	
	29881	ENDOSULFAN I	0.12	0.12	mg/Kg	0.0	0-35		CR	MS
	29881	ENDOSULFAN II	0.592	0.41	mg/Kg	36.3	0-35	M1	CR	GC2
	29881	ENDOSULFAN SULFATE	1.15	1.08	mg/Kg	6.3	0-35		CR	MS
	29881	DECACHLOROBIPHENYL (Surr)	89	90	%	1.1	0-35		CR	
	29881	TETRACHLORO-M-XYLENE (Surr)	102	99	%	3.0	0-35		CR	
	29882	ENDOSULFAN I	0.21	0.209	mg/Kg	0.5	0-35		CR	MS
	29882	ENDOSULFAN II	0.466	0.318	mg/Kg	37.8	0-35	M1	CR	MS
	29882	ENDOSULFAN SULFATE	0.938	1.11	mg/Kg	16.8	0-35		CR	MS
	29882	DECACHLOROBIPHENYL (Surr)	99	99	%	0.0	0-35		CR	
	29882	TETRACHLORO-M-XYLENE (Surr)	107	107	%	0.0	0-35		CR	
	29885	ENDOSULFAN I	0.090	0.091	mg/Kg	1.1	0-35		CR	MS
	29885	ENDOSULFAN II	0.960	0.676	mg/Kg	34.7	0-35		CR	MS
	29885	ENDOSULFAN SULFATE	1.29	1.35E	mg/Kg	4.5	0-35		CR	GC2

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-14084
Report Date: 10/2/2009

ENCO ANALYTICAL LABORATORIES

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
	29885	DECACHLOROBIPHENYL (Surr)	97	94	%	3.1	0-35		CR	
	29885	TETRACHLORO-M-XYLENE (Surr)	104	84	%	21.3	0-35		CR	
	29886	ENDOSULFAN II	0.015	0.013J	mg/Kg	14.3	0-35		CR	GC2
	29886	ENDOSULFAN SULFATE	0.16	0.158	mg/Kg	1.3	0-35		CR	GC2
	29886	DECACHLOROBIPHENYL (Surr)	114	106	%	7.3	0-35		CR	
	29886	TETRACHLORO-M-XYLENE (Surr)	108	95	%	12.8	0-35		CR	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
ts_090911										
	20886	TOTAL SOLIDS FOR CALCULATION	84.1	84.5	%	0.5	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-14084
Report Date: 10/2/2009

ENCE ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081_S090918															
	29879	DIELDRIN	ND	0.624		0.6	mg/Kg	104	NA	74-134	NA	0-30		LFM	
	29879	ENDOSULFAN I	0.07	0.675		0.6	mg/Kg	101	NA	67-133	NA	0-30		LFM	
	29879	ENDOSULFAN II	0.41	1.02		0.6	mg/Kg	102	NA	64-142	NA	0-30		LFM	
	29879	ENDOSULFAN SULFATE	0.98	1.31		0.6	mg/Kg	55	NA	71-143	NA	0-30		LFM	
	29879	DECACHLOROBIPHENYL (Surr)	122	125			%		NA	35-155	NA	0-30		LFM	
	29879	TETRACHLORO-M-XYLENE (Surr)	119	111			%		NA	81-123	NA	0-30		LFM	
8081S_090914															
	29876	ENDOSULFAN I	ND	0.711	0.65	0.65	mg/Kg	109	100	67-133	9.0	0-30		LFM	
	29876	ENDOSULFAN II	ND	0.801	0.686	0.65	mg/Kg	123	106	64-142	15.5	0-30		LFM	
	29876	ENDOSULFAN SULFATE	ND	0.687	0.621	0.65	mg/Kg	103	96	71-143	7.1	0-30		LFM	
	29876	DECACHLOROBIPHENYL (Surr)	103	98	99		%		NA	35-155	NA	0-30		LFM	
	29876	TETRACHLORO-M-XYLENE (Surr)	111	108	115		%		NA	81-123	NA	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

EDGE ANALYTICAL LABORATORIES

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Microbiology | 360.671.0688 $ 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-14084
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W090914	DECACHLOROBIPHENYL (Surr)	92		%	8081A		35-155		LFB	
	DIELDRIN	1.14	1	ug/L	8081A	114	74-134			
	ENDOSULFAN I	0.97	1	ug/L	8081A	97	67-133			
	ENDOSULFAN II	0.93	1	ug/L	8081A	93	64-142			
	TETRACHLORO-M-XYLENE (Surr)	92		%	8081A		81-123			
8151_W090917	2,4 - DCAA (SURR)	98		%	8151A		62-126		LFB	
	DINOSEB	4.13	4.44	ug/L	8151A	93	61-133			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 $ 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-14084
Report Date: 10/02/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W090914	DECACHLOROBIPHENYL (Surr)	95		%	8081A				MB	
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	99		%	8081A					
	TOXAPHENE	ND		ug/L	8081A		0.03000			
8151_W090917	2,4 - DCAA (SURR)	94		%	8151A		0.03000		MB	
	DINOSEB	ND		ug/L	8151A		0.03000			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☑ RCRA / CERCLA
- ☐ OTHER

ENCO ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-15-0.3-0.5	Taxiway F	Grab	Soil	09/11/09	1020	☒	☐	☐	☐	☐	☐	☐		
2	GEI-15-0.8-1.0	Taxiway F	Grab	Soil		1025	☒	☐	☐	☐	☐	☐	☐		On hold
3	GEI-16-0.3-0.5	Taxiway F	Grab	Soil		1050	☒	☐	☐	☐	☐	☐	☐		
4	GEI-16-0.8-1.0	Taxiway F	Grab	Soil		1055	☐	☐	☐	☐	☐	☐	☐		On hold
5	GEI-14-0.3-0.5	Taxiway F	Grab	Soil		1120	☒	☐	☐	☐	☐	☐	☐		
6	GEI-14-0.8-1.0	Taxiway F	Grab	Soil		1125	☐	☐	09-14084				☐		On hold
7	GEI-21-0.3-0.5	Taxiway F	Grab	Soil		1140	☒	☐	29874 - 29889				☐		
8	GEI-21-0.8-1.0	Taxiway F	Grab	Soil		1145	☐	☐	☐	☐	☐	☐	☐		On hold
9	GEI-17-0.3-0.5	Taxiway F	Grab	Soil		1205	☒	☐	☐	☐	☐	☐	☐		
10	GEI-17-0.8-1.0	Taxiway F	Grab	Soil		1210	☐	☐	☐	☐	☐	☐	☐		On hold

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◄TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	09/11/09	1434			
				9.11.09	14:34

	YES	NO	N/A
CUSTODY SEALS INTACT WI	☐	☐	☐
SAMPLE TEMP 7 °C SATISFACTORY	☑	☐	☐
SAMPLES RECEIVED INTACT	☑	☐	
CHAIN OF CUSTODY & LABELS AGREE	☑	☐	

09-14084

FORM: COC 01-06-2009

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-22-0.3-0.5	Taxiway F	Grab	Soil	09/11/09	1235	☒	☐	☐	☐	☐	☐	☐		
2	GEI-22-0.8-1.0	Taxiway F	Grab	Soil		1245	☐	☐	☐	☐	☐	☐	☐		On hold
3	GEI-18-0.3-0.5	Taxiway F	Grab	Soil		1310	☒	☐	☐	☐	☐	☐	☐		
4	GEI-18-0.8-1.0	Taxiway F	Grab	Soil		1315	☐	☐	☐	☐	☐	☐	☐		On hold
5	~~GEI-~~ DUP-4	Taxiway F	Grab	Soil		1127	☐	☐	☐	☐	☐	☐	☐		On hold
6	~~GEI-~~ RINSATE-2	Taxiway F	Grab	~~Soil~~ W		1345	☒	☒	☒	☒	☐	☐	☐		
7	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
8	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
9	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
10	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◄TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W-WATER SW-SURFACE WATER WW-WASTE WATER OL-OIL
DW-DRINKING WATER GW-GROUND WATER S-SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP_____°C SATISFACTORY	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	

FORM: COC 01-06-2009

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

October 13, 2009

Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 09-15234 - Taxiway F RI Study/005364-013-01, Task 0100

Dear Rob Leet,

Your project: Taxiway F RI Study/005364-013-01, Task 0100, was received on Thursday October 01, 2009.
The following comments are reported for your project:

EPA Method 8081A -

Sample 32460; Metolachlor was detected in the sample and estimated at 17 ppm.

Sample 32462; Surrogate #2, decachloropbiphenyl showed unusually high recovery over 200%. The extract was analyzed by GC/MS to determine if co-elution was occurring. The result was also high, the increase in recovery or detector response could not be accounted for.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Cindy O'Toole
Chief Organic Chemist - Burlington

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

EDGE Analytical, Inc.

Burlington, WA 98233
(360) 757-1400 - FAX (360) 757-1402

09-15234
10/5/2009

Project Sheet

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Date: 10/1/2009
Reference Number: 09-15234
Project: Taxiway F RI Study/005364-0

Date Received: 10/1/2009
QC Level: 0
Turnaround: Quickest
Date Due: 10/5/2009

Project Notes: Per Cindy 15% was added to thier charge for extraction rush.

Lab Number	Sample Number	Sample Description	Lab Method	Matrix	Date Sampled	Status
32460.00	GEI-9-1.7-2.0	Taxiway F	8081A*	S	10/1/2009	Pending
32460.00	GEI-9-1.7-2.0	Taxiway F	TS.Calc	S	10/1/2009	Pending
32461.00	GEI-9-2.7-3.0	Taxiway F	Hold	S	10/1/2009	Pending
32462.00	GEI-20-1.7-2.0	Taxiway F	8081A*	S	10/1/2009	Pending
32462.00	GEI-20-1.7-2.0	Taxiway F	TS.Calc	S	10/1/2009	Pending
32463.00	GEI-20-2.7-3.0	Taxiway F	Hold	S	10/1/2009	Pending
32464.00	GEI-13-1.7-2.0	Taxiway F	8081A*	S	10/1/2009	Pending
32464.00	GEI-13-1.7-2.0	Taxiway F	TS.Calc	S	10/1/2009	Pending
32465.00	GEI-13-2.7-3.0	Taxiway F	Hold	S	10/1/2009	Pending
32466.00	GEI-23-0.8-1.0	Taxiway F	Hold	S	10/1/2009	Pending
32467.00	GEI-23-0.2-0.5	Taxiway F	8081A*	S	10/1/2009	Pending
32467.00	GEI-23-0.2-0.5	Taxiway F	TS.Calc	S	10/1/2009	Pending
32468.00	DUP-5	Taxiway F	8081A*	S	10/1/2009	Pending
32468.00	DUP-5	Taxiway F	TS.Calc	S	10/1/2009	Pending
32469.00	GEI-24-0.3-0.5	Taxiway F	8081A*	S	10/1/2009	Pending
32469.00	GEI-24-0.3-0.5	Taxiway F	TS.Calc	S	10/1/2009	Pending
32470.00	GEI-24-0.7-1.0	Taxiway F	Hold	S	10/1/2009	Pending
32471.00	RINSATE-3	Taxiway F	8081A W*	W	10/1/2009	Pending

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **09-15234**
Project: Taxiway F RI Study/005364-013-01, Task 0100

Report Date: 10/12/09
Date Received: 10/1/09
Reviewed by: PM

Sample Description: GEI-9-1.7-2.0 - Taxiway F
Lab Number: 32460
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	DIELDRIN	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	

Sample Description: GEI-20-1.7-2.0 - Taxiway F
Lab Number: 32462
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	0.029 J	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	
33213-65-9	ENDOSULFAN II	0.020	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	
1031-07-8	ENDOSULFAN SULFATE	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	

Sample Description: GEI-13-1.7-2.0 - Taxiway F
Lab Number: 32464
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	0.006 J	0.03	0.025		mg/Kg	1.30	8081A/3540C	10/2/09	CO	8081S_091001	
33213-65-9	ENDOSULFAN II	0.016 J	0.03	0.025		mg/Kg	1.30	8081A/3540C	10/2/09	CO	8081S_091001	
1031-07-8	ENDOSULFAN SULFATE	0.036	0.03	0.025		mg/Kg	1.30	8081A/3540C	10/2/09	CO	8081S_091001	

Sample Description: GEI-23-0.2-0.5 - Taxiway F
Lab Number: 32467
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8081S_091001	
33213-65-9	ENDOSULFAN II	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8081S_091001	
1031-07-8	ENDOSULFAN SULFATE	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8001S_091001	

Sample Description: DUP-5 - Taxiway F
Lab Number: 32468
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	ENDOSULFAN I	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8081S_091001	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Reference Number: **09-15234**
Report Date: 10/12/09

Data Report

33213-65-9	**ENDOSULFAN II**	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8081S_091001
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.03	0.025		mg/Kg	1.15	8081A/3540C	10/2/09	CO	8081S_091001

Sample Description: GEI-24-0.3-0.5 - Taxiway F
Lab Number: 32469
Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
959-98-8	**ENDOSULFAN I**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	
33213-65-9	**ENDOSULFAN II**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.03	0.025		mg/Kg	1.20	8081A/3540C	10/2/09	CO	8081S_091001	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

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Microbiology | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-15234
Report Date: 10/12/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081S_091001	DECACHLOROBIPHENYL (Surr)	140		%	8081A		35-155		LFB	
	DIELDRIN	0.43	0.5	mg/Kg	8081A	86	57-126			
	ENDOSULFAN I	0.44	0.5	mg/Kg	8081A	88	67-133			
	ENDOSULFAN II	0.43	0.5	mg/Kg	8081A	86	42-146			
	ENDOSULFAN SULFATE	0.42	0.5	mg/Kg	8081A	84	20-172			
	TETRACHLORO-M-XYLENE (Surr)	88		%	8081A		81-123			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-15234
Report Date: 10/12/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081S_091001	DECACHLOROBIPHENYL (Surr)	85		%	8081A				MB	
	DIELDRIN	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN I	ND		mg/Kg	8081A		0.00800			
	ENDOSULFAN II	ND		mg/Kg	8081A		0.00800			
	ENOOSULFAN SULFATE	ND		mg/Kg	8081A		0.00800			
	TETRACHLORO-M-XYLENE (Surr)	86		%	8081A					

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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Microbiology | 360.671.0688 • 360.671.1577fax

QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-15234
Report Date: 10/12/2009

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081s_091001										
	32464	ENDOSULFAN I	0.006	0.007J	mg/Kg	**15.4**	0-35		CR	GC2
	32464	ENDOSULFAN II	0.016	0.021J	mg/Kg	**27.0**	0-35		CR	GC2
	32464	ENDOSULFAN SULFATE	0.036	0.033	mg/Kg	**8.7**	0-35		CR	GC2
	32464	DECACHLOROBIPHENYL (Surr)	77	101	%	**27.0**	0-35		CR	
	32464	TETRACHLORO-M-XYLENE (Surr)	82	100	%	**19.8**	0-35		CR	
8081S_091001										
	32462	ENDOSULFAN I	0.029	0.033	mg/Kg	**12.9**	0-35		CR	GC2
	32462	ENDOSULFAN II	0.020	0.024	mg/Kg	**18.2**	0-35		CR	GC2
	32462	DECACHLOROBIPHENYL (Surr)	217	215	%	**0.9**	0-35		CR	GC/MS
	32462	TETRACHLORO-M-XYLENE (Surr)	90	99	%	**9.5**	0-35		CR	GC2

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081S_091001										
	32469	DECACHLOROBIPHENYL (Surr)	85	85	%	**0.0**	0-50		DUP	
	32469	TETRACHLORO-M-XYLENE (Surr)	93	95	%	**2.1**	0-50		DUP	
TS_091002										
	32584	TOTAL SOLIDS FOR CALCULATION	97.6	97.3	%	**0.3**	0-45		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-15234
Report Date: 10/12/2009

ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Anelyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081S_091001															
	32460	DIELDRIN	ND	0.53		0.6	mg/Kg	**88**	**NA**	57-126	**NA**	0-30		LFM	
	32460	ENDOSULFAN I	ND	0.62		0.6	mg/Kg	**103**	**NA**	67-133	**NA**	0-30		LFM	
	32460	ENDOSULFAN II	ND	0.6		0.6	mg/Kg	**100**	**NA**	42-146	**NA**	0-30		LFM	
	32460	ENDOSULFAN SULFATE	ND	0.51		0.6	mg/Kg	**85**	**NA**	20-172	**NA**	0-30		LFM	
	32460	DECACHLOROBIPHENYL (Surr)	98	117			%		**NA**	35-155	**NA**	0-30		LFM	
	32460	TETRACHLORO-M-XYLENE (Surr)	106	82			%		**NA**	81-123	**NA**	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Qualifier Definitions

Reference Number: 09-15234
Report Date: 10/12/09

Qualifier	Definition
HQ	High QCS recovery due to increased detector response of the sample extract. The continuing calibration checks are within acceptance limits.
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-15234
Report Date: 10/12/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081S_091001						
32460	DECACHLOROBIPHENYL (Surr)	98		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	106		%		Acceptance Limits 81-123%
8081S_091001						
32462	DECACHLOROBIPHENYL (Surr)	217	HQ	%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	90		%		Acceptance Limits 81-123%
8081S_091001						
32464	DECACHLOROBIPHENYL (Surr)	77		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 81-123%
8081S_091001						
32467	DECACHLOROBIPHENYL (Surr)	87		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	91		%		Acceptance Limits 81-123%
8081S_091001						
32488	DECACHLOROBIPHENYL (Surr)	84		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	90		%		Acceptance Limits 81-123%
8081S_091001						
32469	DECACHLOROBIPHENYL (Surr)	85		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	93		%		Acceptance Limits 81-123%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☑ RCRA / CERCLA
- ☐ OTHER

ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
														Mon-Tues	
1	GEI-9-1.7-2.0	Taxiway F	Grab	Soil	10/01/09	1000	☐	☒	☐	☐	☐	☐	☐		
2	GEI-9-2.7-3.0	Taxiway F	Grab	Soil		1030	☐	☐	☐	☐	☐	☐	☐		Hold
3	GEI-20-1.7-2.0	Taxiway F	Grab	Soil		1120	☒	☐	☐	☐	☐	☐	☐		
4	GEI-20-2.7-3.0	Taxiway F	Grab	Soil		1140	☐	☐	☐	☐	☐	☐	☐		Hold
5	GEI-13-1.7-2.0	Taxiway F	Grab	Soil		1240	☒	☐	☐	☐	☐	☐	☐		
6	GEI-13-2.7-3.0	Taxiway F	Grab	Soil		1300	☐	☐	☐	☐	☐	☐	☐		Hold
7	GEI-23-0.8-1.0	Taxiway F	Grab	Soil		1335	☐	☐	☐	☐	☐	☐	☐		Hold
8	GEI-23-0.2-0.5	Taxiway F	Grab	Soil		1320	☒	☐	☐	☐	☐	☐	☐		
9	~~GEI-~~ DUP-5	Taxiway F	Grab	Soil		1325	☒	☐	☐	☐	☐	☐	☐		
10	GEI-24-0.3-0.5	Taxiway F	Grab	Soil	▽	1410	☒	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com

◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER DW- DRINKING WATER SW- SURFACE WATER GW- GROUND WATER WW- WASTE WATER S- SOIL OL- OIL OTHER_____

09-15234

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/9/09		HH	10/9/09	1638

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☒
SAMPLE TEMP 9 °C SATISFACTORY	☒	☐	☐
SAMPLES RECEIVED INTACT	☒	☐	
CHAIN OF CUSTODY & LABELS AGREE	☒	☐	

FORM: COC 01-06-2009

09-15234
32460 - 32471

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

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3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-24-0.7-1.0	Taxiway F	Grab	Soil	10/9/09	1415	☐	☐	☐	☐	☐	☐	☐		Hold
2	~~GEI-~~ RINSATE-3	Taxiway F	Grab	~~Soil~~ Water	10/1/09	1500	☒	☒	☐	☐	☐	☐	☐		~~Hold~~
3	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
4	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
5	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
6	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
7	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
8	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
9	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
10	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/1/09		HH	10/1/09	1638

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☑
SAMPLE TEMP 9 °C SATISFACTORY	☑	☐	☐
SAMPLES RECEIVED INTACT	☑	☐	
CHAIN OF CUSTODY & LABELS AGREE	☑	☐	

FORM: COC 01-06-2009

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Microbiology | 360.671.0688 $ 360.671.1577fax

October 13, 2009

Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 09-15379 - Taxiway F RI Study/005364-013-01,Task 0100

Dear Project Manager,

Your project: Taxiway F RI Study/005364-013-01,Task 0100, was received on Thursday October 01, 2009.
All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Cindy O'Toole
Chief Organic Chemist - Burlington

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

EDGE ANALYTICAL LABORATORIES

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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **09-15379**
Project: Taxiway F RI
Study/005364-013-01,Task 0100

Report Date: 10/12/09
Date Received: 10/1/09
Reviewed by: PM

Sample Description: RINSATE -3 - Taxiway F
Lab Number: 32808

Sample Date: 10/1/09
Collected By: Abhijit Joshi

CAS ID#	Parameter	Result	PQL	MRL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
60-57-1	**DIELDRIN**	ND	0.05	0.05	0.015	ug/L	1.00	8081A/3510C	10/6/09	CO	8081_W091005	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.05	0.03	ug/L	1.00	8081A/3510C	10/6/09	CO	8081_W091005	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.05	0.009	ug/L	1.00	8081A/3510C	10/6/09	CO	8081_W091005	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.05	0.008	ug/L	1.00	8081A/3510C	10/6/09	CO	8081_W091005	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Cindy O'Toole at the above phone number.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-15379
Report Date: 10/12/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W091005	DECACHLOROBIPHENYL (Surr)	97		%	8081A		35-155		LFB	
	DIELDRIN	0.87	1	ug/L	8081A	87	74-134			
	ENDOSULFAN I	0.87	1	ug/L	8081A	87	67-133			
	ENDOSULFAN II	0.95	1	ug/L	8081A	95	64-142			
	ENDOSULFAN SULFATE	0.83	1	ug/L	8081A	83	71-143			
	TETRACHLORO-M-XYLENE (Surr)	87		%	8081A		81-123			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-15379
Report Date: 10/12/09

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081_W091005	DECACHLOROBIPHENYL (Surr)	95		%	8081A				MB	
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	94		%	8081A					

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-15379
Report Date: 10/12/2009

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081_W091005										
	32808	DECACHLOROBIPHENYL (Surr)	92	109	%	**16.9**	0-50		DUP	
	32808	TETRACHLORO-M-XYLENE (Surr)	82	94	%	**13.6**	0-50		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-15379
Report Date: 10/12/2009

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081_W091005															
	32808	DIELDRIN	ND	0.98		1	ug/L	**98**	**NA**	74-134	**NA**	0-30		LFM	
	32808	ENDOSULFAN I	ND	0.97		1	ug/L	**97**	**NA**	67-133	**NA**	0-30		LFM	
	32808	ENDOSULFAN II	ND	1.09		1	ug/L	**109**	**NA**	64-142	**NA**	0-30		LFM	
	32808	ENDOSULFAN SULFATE	ND	0.92		1	ug/L	**92**	**NA**	71-143	**NA**	0-30		LFM	
	32808	DECACHLOROBIPHENYL (Surr)	92	105			%		**NA**	35-155	**NA**	0-30		LFM	
	32808	TETRACHLORO-M-XYLENE (Surr)	82	93			%		**NA**	81-123	**NA**	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-15379
Report Date: 10/12/09

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081_W091005						
32808	DECACHLOROBIPHENYL (Surr)	92		%	8081A	Acceptance Limits 35-155%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 81-123%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

ANALYTICAL LABORATORIES

Corporate
1620 South Walnut St.
Burlington, WA 98233
1.800.755.9295

Microbiology
805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

INSTRUCTIONS
1. USE ONE LINE PER SAMPLE LOCATION.
2. BE SPECIFIC IN TEST REQUESTS.
3. NEW LIST EACH METAL INDIVIDUALLY. NEW
4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
							Mon-Tues								
1	GEI-9-1.7-2.0	Taxiway F	Grab	Soil	10/01/09	1000	☐	☒	☐	☐	☐	☐	☐		
2	GEI-9-2.7-3.0	Taxiway F	Grab	Soil		1030	☐	☐	☐	☐	☐	☐	☐		Hold
3	GEI-20-1.7-2.0	Taxiway F	Grab	Soil		1120	☒	☐	☐	☐	☐	☐	☐		
4	GEI-20-2.7-3.0	Taxiway F	Grab	Soil		1140	☐	☐	☐	☐	☐	☐	☐		Hold
5	GEI-13-1.7-2.0	Taxiway F	Grab	Soil		1240	☒	☐	☐	☐	☐	☐	☐		
6	GEI-13-2.7-3.0	Taxiway F	Grab	Soil		1300	☐	☐	☐	☐	☐	☐	☐		Hold
7	GEI-23-0.8-1.0	Taxiway F	Grab	Soil		1335	☐	☐	☐	☐	☐	☐	☐		Hold
8	GEI-23-0.2-0.5	Taxiway F	Grab	Soil		1320	☒	☐	☐	☐	☐	☐	☐		
9	~~GEI~~ DUP-5	Taxiway F	Grab	Soil		1325	☒	☐	☐	☐	☐	☐	☐		
10	GEI-24-0.3-0.5	Taxiway F	Grab	Soil	↓	1410	☒	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	10/9/09		HH	10/9/09	1638

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☒
SAMPLE TEMP 9 °C SATISFACTORY	☒	☐	☐
SAMPLES RECEIVED INTACT	☒	☐	
CHAIN OF CUSTODY & LABELS AGREE	☒	☐	

FORM: COC 01-06-2009

~~09-15234~~

Water only

09-15379

CHAIN OF CUSTODY / ANALYSIS REQUEST (PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS)

REPORT TO: GeoEngineers, Inc	BILL TO: GeoEngineers, Inc	FOR LAB USE ONLY
ADDRESS: 600 Stewart Street Suite 1700	ADDRESS: 600 Stewart Street Suite 1700	REF#
CITY: Seattle STATE: WA ZIP: 98101	CITY: Seattle STATE: WA ZIP: 98101	CHECK REGULATORY PROGRAM
ATTN: Rob Leet	PHONE: 206-728-2674 FAX: 206-728-2732	☐ SAFE DRINKING WATER ACT
PHONE: 206-728-2674 FAX: 206-728-2732	P.O.#: ATTN:	☐ CLEAN WATER ACT
EMAIL: rleet@geoengineers.com	☐ VISA ☐ M/C ☐ A/E EXPIRES /	☑ RCRA / CERCLA
PROJECT NAME: Taxiway F RI Study/005364-013-01,Task 0100	CARD#	☐ OTHER

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4. CHECK OFF ANALYSIS TO BE PERFORMED FOR EACH SAMPLE LOCATION.
5. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED
- ☑ STANDARD
- ☐ HALF-TIME (50% SURCHARGE)
- ☐ QUICKEST (100% SURCHARGE) PHONE CALL REQ.
- ☐ EMERGENCY (PHONE CALL REQUIRED)

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	SAMPLE MATRIX*	DATE	TIME	Endosulfans I, II & Sulfate (EPA 8081A)	Dieldrin (EPA 8081A)	Toxaphene (EPA 8081A)	Dinoseb (EPA 8151A)				NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS ON RECEIPT
1	GEI-24-0.7-1.0	Taxiway F	Grab	Soil	10/9/09	1415	☐	☐	☐	☐	☐	☐	☐		Hold
2	GEI RINSATE-3	Taxiway F	Grab	~~Soil~~ Water	10/1/09	1500	☒	☒	☐	☐	☐	☐	☐		~~Hold~~
3	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
4	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
5	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
6	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
7	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
8	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
9	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		
10	GEI-	Taxiway F	Grab	Soil			☐	☐	☐	☐	☐	☐	☐		

SAMPLED BY: Abhijit Joshi | PHONE: Cell 425-223-9028 | FAX: | EMAIL: ajoshi@geoengineers.com | ◀TOTAL CONTAINERS

SAMPLE RECEIPT REQUESTED (MUST INCLUDE FAX OR EMAIL) ☐

*W- WATER SW- SURFACE WATER WW- WASTE WATER OL- OIL
DW- DRINKING WATER GW- GROUND WATER S- SOIL OTHER_____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/1/09		HH	10/1/09	1638

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☒
SAMPLE TEMP 9 °C SATISFACTORY	☒	☐	☐
SAMPLES RECEIVED INTACT	☒	☐	
CHAIN OF CUSTODY & LABELS AGREE	☒	☐	

FORM: COC 01-06-2009

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January 12, 2010

Mr. Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 09-18626 - Taxiway F Ground Water

Dear Mr. Rob Leet,

Your project: Taxiway F Ground Water, was received on Thursday December 03, 2009.
The following comments are reported for your project:

EPA Method 8081A - The matrix spike and matrix spike duplicate were spiked too low for ECD detection (resolution) due to the significant amount of interferance from organochlorine compounds present in the sample. The data reported is by GC/MS. Although the sample was split for MS/MSD analysis the amount of fine particlulates present probably resulted in the disparity in some of the results with high %RPD. The "limits" listed were derived from lab reagent water and should be viewed as guidance only.

Sample 39625,39631,39632,39633 and 39635 - The analysis by GC/MS is reported due to matrix interferance with the ECD analysis.

EPA Method 8151A - Non project specific compounds were detected in the analysis and estimated amounts (ug/L) are reported below:

39624: Dicamba (3), Bentazone (600), Silvex (3), 2,4-D (1)
39625: Dicamba (4), Bentazone (222), Silvex (4), 2,4-D (2)
39626: Bentazone (10)
39627: Bentazone (10)
39628: Dicamba (3), Bentazone (141), Chloramben (1)
39629: Dicamba (3), Bentazone (160), Choramben (1)
39630: Dicamba (4), Bentazone (2) Silvex (3)
39631: Dicamba (3), Bentazone (2), Silvex (4)
39632: Dicamba (17), Bentazone (39), Silvex (13)
39633: Dicamba (16), Bentazone (41), Silvex (9)
39634: Dicamba (4), Bentazone (2), Silvex (3)
39635: Dicamba (2), Bentazone (2), Silvex (3)

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report

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Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **09-18626**
Project: Taxiway F Ground Water
Report Date: 1/11/10
Date Received: 12/3/09
Reviewed by:

Sample Description: MW-1 - 5364-013-01
Lab Number: 39621
Sample Date: 12/1/09
Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	0.19	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: MW-2 - 5364-013-01
Lab Number: 39622
Sample Date: 12/2/09
Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

Notes:
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Reference Number: **09-18626**
Report Date: 1/11/10

Data Report

1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: MW-3 - 5364-013-01 — Sample Date: 12/2/09
Lab Number: 39623 — Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: GEI-MW-4 (Filtered) - 5364-013-01 — Sample Date: 12/2/09
Lab Number: 39624 — Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-18626**
Report Date: 1/11/10

Data Report

1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
25057-89-0	**BENTAZON**	600 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-75-7	**2,4 - D**	1 Q2	0.1	0.07	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
93-72-1	**2,4,5 - TP (SILVEX)**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
1918-00-9	**DICAMBA**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
88-85-7	**DINOSEB**	15	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: GEI-MW-4 (Unfiltered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39625 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	1.5	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	1.3	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	222 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-75-7	**2,4 - D**	2 Q2	0.1	0.07	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
93-72-1	**2,4,5 - TP (SILVEX)**	4 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	4 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	21	1	0.05	ug/L	10	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: GEI-MW-5 (Filtered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39626 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-18626**
Report Date: 1/11/10

Data Report

5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
25057-89-0	**BENTAZON**	10 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: GEI-MW-5 (Unfiltered) - 5364-013-01
Lab Number: 39627
Sample Date: 12/2/09
Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	10 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: GEI-MW-6 (Filtered) - 5364-013-01
Lab Number: 39628
Sample Date: 12/2/09
Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
25057-89-0	**BENTAZON**	141 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
133-90-4	**CHLORAMBEN**	1 Q2	0.2	0.1	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
1918-00-9	**DICAMBA**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
88-85-7	**DINOSEB**	5.0	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	0.2	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: GEI-MW-6 (Unfiltered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39629 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	160 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
133-90-4	**CHLORAMBEN**	1 Q2	0.2	0.1	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

88-85-7	**DINOSEB**	5.0	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	0.23	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: GEI-MW-7 (Filtered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39630 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	2 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
93-72-1	**2,4,5 - TP (SILVEX)**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	4 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	9.0	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: GEI-MW-7 (Unfiltered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39631 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	0.05	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	0.09	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	0.22	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	0.40	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	0.25	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
25057-89-0	**BENTAZON**	2 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
93-72-1	**2,4,5 - TP (SILVEX)**	4 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
1918-00-9	**DICAMBA**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
88-85-7	**DINOSEB**	11.5	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: GEI-MW-8 (Filtered) - 5364-013-01 — Sample Date: 12/2/09
Lab Number: 39632 — Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
959-98-8	**ENDOSULFAN I**	0.49	0.05	0.007	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
33213-65-9	**ENDOSULFAN II**	0.33	0.05	0.02	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
1031-07-8	**ENDOSULFAN SULFATE**	0.12	0.05	0.009	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	result by GC/MS
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3535	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	39 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
93-72-1	**2,4,5 - TP (SILVEX)**	13 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	17 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	244	2	0.05	ug/L	20	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	1	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: GEI-MW-8 (Unfiltered) - 5364-013-01 — Sample Date: 12/2/09
Lab Number: 39633 — Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

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D.F. - Dilution Factor

Data Report

72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
959-98-8	**ENDOSULFAN I**	1.9	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
33213-65-9	**ENDOSULFAN II**	1.0	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1031-07-8	**ENDOSULFAN SULFATE**	0.4	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208
25057-89-0	**BENTAZON**	41 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
93-72-1	**2,4,5 - TP (SILVEX)**	9 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
1918-00-9	**DICAMBA**	16 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
88-85-7	**DINOSEB**	270	5	0.05	ug/L	50	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: Dup-120209 (Filtered) - 5364-013-01 Sample Date: 12/2/09
Lab Number: 39634 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	2 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
93-72-1	**2,4,5 - TP (SILVEX)**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	4 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	10.7	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-18626**
Report Date: 1/11/10

Data Report

Sample Description: Dup-120209 (Unfltered) - 5364-013-01 | Sample Date: 12/2/09
Lab Number: 39635 | Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	0.03 J	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	0.08 D7	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	0.35 D7	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	0.49 D7	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	0.20 D7	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
25057-89-0	**BENTAZON**	2 Q2	0.5	0.06	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
93-72-1	**2,4,5 - TP (SILVEX)**	3 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
1918-00-9	**DICAMBA**	2 Q2	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
88-85-7	**DINOSEB**	10.8	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Sample Description: Rinsate - 5364-013-01 | Sample Date: 12/2/09
Lab Number: 39636 | Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **09-18626**

Report Date: 1/11/10

Data Report

88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207

Sample Description: Livestock Well - 5364-013-01 Sample Date: 12/2/09

Lab Number: 39637 Collected By: Brian Anderson

CAS ID#	Parameter	**Result**	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
309-00-2	**ALDRIN**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
58-89-9	**LINDANE (BHC - GAMMA)**	ND	0.05	0.04	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-74-2	**ALPHA-CHLORDANE**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
5103-71-9	**GAMMA-CHLORDANE**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
50-29-3	**4,4' - DDT**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-55-9	**4,4' - DDE**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
72-54-8	**4,4' - DDD**	ND	0.05	0.01	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
60-57-1	**DIELDRIN**	ND	0.05	0.005	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
959-98-8	**ENDOSULFAN I**	ND	0.05	0.007	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
33213-65-9	**ENDOSULFAN II**	ND	0.05	0.02	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1031-07-8	**ENDOSULFAN SULFATE**	ND	0.05	0.009	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
76-44-8	**HEPTACHLOR**	ND	0.05	0.03	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
1024-57-3	**HEPTACHLOR EPOXIDE "B"**	ND	0.05	0.008	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
8001-35-2	**TOXAPHENE**	ND	1	0.5	ug/L	1	8081A/3510C	12/9/09	CO	8081A_091208	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	
94-74-6	**MCPA**	ND	0.2	0.03	ug/L	1	8151A/3510C	12/8/09	CO	8151_091207	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor

EDGE ANALYTICAL LABORATORIES

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 09-18626
Report Date: 01/12/10

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081A_091208	4,4' - DDD	0.52	0.5	ug/L	8081A	104	78-132		LFB	
	4,4' - DDE	0.48	0.5	ug/L	8081A	96	73-127			
	4,4' - DDT	0.515	0.5	ug/L	8081A	103	56-158			
	ALDRIN	0.48	0.5	ug/L	8081A	96	68-128			
	ALPHA-CHLORDANE	0.5	0.5	ug/L	8081A	100	70-130			
	DECACHLOROBIPHENYL (Surr)	74		%	8081A		58-132			
	DIELDRIN	0.495	0.5	ug/L	8081A	99	74-134			
	ENDOSULFAN I	0.5	0.5	ug/L	8081A	100	67-133			
	ENDOSULFAN II	0.565	0.5	ug/L	8081A	113	64-142			
	ENDOSULFAN SULFATE	0.52	0.5	ug/L	8081A	104	71-143			
	GAMMA-CHLORDANE	0.49	0.5	ug/L	8081A	98	74-124			
	HEPTACHLOR	0.5	0.5	ug/L	8081A	100	61-133			
	HEPTACHLOR EPOXIDE "B"	0.55	0.5	ug/L	8081A	110	73-127			
	TETRACHLORO-M-XYLENE (Surr)	84		%	8081A		67-115			
	TOXAPHENE	4.5	5	ug/L	8081A	90	65-161			
8151_091207	2,4 - DCAA (SURR)	108		%	8151A		61-129		LFB	
	DINOSEB	4.4	4.4	ug/L	8151A	100	64-134			
	MCPA	2.0	2.2	ug/L	8151A	91	47-125			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 09-18626
Report Date: 01/12/10

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081A_091208	4,4' - DDD	ND		ug/L	8081A		0.02000		MB	
	4,4' - DDE	ND		ug/L	8081A		0.02000			
	4,4' - DDT	ND		ug/L	8081A		0.02000			
	ALDRIN	ND		ug/L	8081A		0.02000			
	ALPHA-CHLORDANE	ND		ug/L	8081A		0.02000			
	DECACHLOROBIPHENYL (Surr)	95		%	8081A					
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	GAMMA-CHLORDANE	ND		ug/L	8081A		0.02000			
	HEPTACHLOR	ND		ug/L	8081A		0.02000			
	HEPTACHLOR EPOXIDE "B"	ND		ug/L	8081A		0.02000			
	LINDANE (BHC - GAMMA)	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	80		%	8081A					
	TOXAPHENE	ND		ug/L	8081A		0.02000			
8151_091207	2,4 - DCAA (SURR)	93		%	8151A		0.03000		MB	
	DINOSEB	ND		ug/L	8151A		0.03000			
	MCPA	ND		ug/L	8151A		0.03000			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 09-18626

Report Date: 1/12/2010

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081A_091208										
	39621	ENDOSULFAN SULFATE	0.19	0.16	ug/L	**17.1**	0-0		CR	GC/MS

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081A_091208										
	39622	DECACHLOROBIPHENYL (Surr)	94	74	%	**23.8**	0-35		DUP	
	39622	TETRACHLORO-M-XYLENE (Surr)	81	85	%	**4.8**	0-35		DUP	
8151_091207										
	39635	DINOSEB	10.8	10.1	ug/L	**6.7**	0-30		DUP	
	39635	2,4 - DCAA (SURR)	94	75	%	**22.5**	0-35		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 09-18626
Report Date: 1/12/2010

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081A_091208															
	39632	ALDRIN	ND	0	0	1	ug/L	**0**	**0**	68-128	**NA**	0-30	D6	LFM	result by GC/MS
	39632	ALPHA-CHLORDANE	ND	0.38	0.56	1	ug/L	**38**	**56**	70-130	**38.3**	0-30	S7	LFM	result by GC/MS
	39632	GAMMA-CHLORDANE	ND	0.44	0.62	1	ug/L	**44**	**62**	74-124	**34.0**	0-30	S7	LFM	result by GC/MS
	39632	4,4' - DDT	ND	0.7	1	1	ug/L	**70**	**100**	56-158	**35.3**	0-30	S7	LFM	result by GC/MS
	39632	4,4' - DDE	ND	0.32	0.54	1	ug/L	**32**	**54**	73-127	**51.2**	0-30	S7	LFM	result by GC/MS
	39632	4,4' - DDD	ND	0.38	0.56	1	ug/L	**38**	**56**	78-132	**38.3**	0-30	S7	LFM	result by GC/MS
	39632	DIELDRIN	ND	0.72	0.84	1	ug/L	**72**	**84**	74-134	**15.4**	0-30		LFM	result by GC/MS
	39632	ENDOSULFAN I	0.49	1.55	1.3	1	ug/L	**106**	**81**	67-133	**26.7**	0-30		LFM	result by GC/MS
	39632	ENDOSULFAN II	0.33	1.28	1.32	1	ug/L	**95**	**99**	64-142	**4.1**	0-30		LFM	result by GC/MS
	39632	ENDOSULFAN SULFATE	0.12	1.02	1.04	1	ug/L	**90**	**92**	71-143	**2.2**	0-30		LFM	result by GC/MS
	39632	HEPTACHLOR	ND	0.68	0.84	1	ug/L	**68**	**84**	61-133	**21.1**	0-30		LFM	result by GC/MS
	39632	HEPTACHLOR EPOXIDE "B"	ND	0.68	0.74	1	ug/L	**68**	**74**	73-127	**8.5**	0-30		LFM	result by GC/MS
	39632	DECACHLOROBIPHENYL (Surr)	68	25	39		%		**NA**	58-132	**NA**	0-30		LFM	
	39632	TETRACHLORO-M-XYLENE (Surr)	82	47	58		%		**NA**	67-115	**NA**	0-30		LFM	
8151_091207															
	39636	DINOSEB	ND	3	3	4.4	ug/L	**68**	**68**	64-134	**0.0**	0-30		LFM	
	39636	MCPA	ND	1.6	1.6	2.2	ug/L	**73**	**73**	47-125	**0.0**	0-30		LFM	
	39636	2,4 - DCAA (SURR)	90	91	93		%			61-129	**NA**	0-30		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-18626
Report Date: 01/12/10

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081A_091208						
39621	DECACHLOROBIPHENYL (Surr)	90		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	78		%		Acceptance Limits 67-115%
8151_091207						
39621	2,4 - DCAA (SURR)	79		%	8151A	Acceptance Range 61-129%
8081A_091208						
39622	DECACHLOROBIPHENYL (Surr)	94		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	81		%		Acceptance Limits 67-115%
8151_091207						
39622	2,4 - DCAA (SURR)	76		%	8151A	Acceptance Range 61-129%
8081A_091208						
39623	DECACHLOROBIPHENYL (Surr)	65		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	60	S8	%		Acceptance Limits 67-115%
8151_091207						
39623	2,4 - DCAA (SURR)	72		%	8151A	Acceptance Range 61-129%
8081A_091208						
39624	DECACHLOROBIPHENYL (Surr)	111		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	99		%		Acceptance Limits 67-115%
8151_091207						
39624	2,4 - DCAA (SURR)	85		%	8151A	Acceptance Range 61-129%
8081A_091208						
39625	DECACHLOROBIPHENYL (Surr)	72		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	84		%		Acceptance Limits 67-115%
8151_091207						
39625	2,4 - DCAA (SURR)	88		%	8151A	Acceptance Range 61-129%
8081A_091208						
39626	DECACHLOROBIPHENYL (Surr)	115		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	96		%		Acceptance Limits 67-115%
8151_091207						
39626	2,4 - DCAA (SURR)	73		%	8151A	Acceptance Range 61-129%
8081A_091208						
39627	DECACHLOROBIPHENYL (Surr)	45	S8	%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 67-115%
8151_091207						
39627	2,4 - DCAA (SURR)	91		%	8151A	Acceptance Range 61-129%
8081A_091208						
39628	DECACHLOROBIPHENYL (Surr)	103		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	88		%		Acceptance Limits 67-115%
8151_091207						
39628	2,4 - DCAA (SURR)	77		%	8151A	Acceptance Range 61-129%
8081A_091208						
39629	DECACHLOROBIPHENYL (Surr)	75		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	70		%		Acceptance Limits 67-115%
8151_091207						
39629	2,4 - DCAA (SURR)	94		%	8151A	Acceptance Range 61-129%
8081A_091208						
39630	DECACHLOROBIPHENYL (Surr)	100		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	85		%		Acceptance Limits 67-115%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 09-18626
Report Date: 01/12/10

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8151_091207						
39630	2,4 - DCAA (SURR)	85		%	8151A	Acceptance Range 61-129%
8081A_091208						
39631	DECACHLOROBIPHENYL (Surr)	100		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	84		%		Acceptance Limits 67-115%
8151_091207						
39631	2,4 - DCAA (SURR)	99		%	8151A	Acceptance Range 61-129%
8081A_091208						
39632	DECACHLOROBIPHENYL (Surr)	68		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 67-115%
8151_091207						
39632	2,4 - DCAA (SURR)	105		%	8151A	Acceptance Range 61-129%
8081A_091208						
39633	DECACHLOROBIPHENYL (Surr)	91		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	73		%		Acceptance Limits 67-115%
8151_091207						
39633	2,4 - DCAA (SURR)	95		%	8151A	Acceptance Range 61-129%
8081A_091208						
39634	DECACHLOROBIPHENYL (Surr)	107		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	72		%		Acceptance Limits 67-115%
8151_091207						
39634	2,4 - DCAA (SURR)	92		%	8151A	Acceptance Range 61-129%
8081A_091208						
39635	DECACHLOROBIPHENYL (Surr)	34	S8	%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	74		%		Acceptance Limits 67-115%
8151_091207						
39635	2,4 - DCAA (SURR)	94		%	8151A	Acceptance Range 61-129%
8081A_091208						
39636	DECACHLOROBIPHENYL (Surr)	70		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	82		%		Acceptance Limits 67-115%
8151_091207						
39636	2,4 - DCAA (SURR)	90		%	8151A	Acceptance Range 61-129%
8081A_091208						
39637	DECACHLOROBIPHENYL (Surr)	70		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	87		%		Acceptance Limits 67-115%
8151_091207						
39637	2,4 - DCAA (SURR)	73		%	8151A	Acceptance Range 61-129%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 09-18626
Report Date: 01/12/10

Qualifier	Definition
D6	Data is suspect, the matrix spike for this sample had little or no recovery. The LFB had acceptable recovery. A matrix affect is indicated.
D7	Low surrogate recovery indicates possible matrix affect. Result maybe biased low.
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
Q2	Non project specific compounds - QUALITATIVE RESULT
S7	The sample contained "fines" that hindered the ability to split the MS/MSD into representative aliquots and affected % recovery.
S8	Sample contained fine particulate and may attribute to low recovery. Data is suspect as biased low if reported.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

9142

Report to:	GeoEngineers Inc	Bill to:	**For Lab Use Only**
Ship Address:	600 Stewart St. Suite 1700	Address: GE005	Ref #
City:	Seattle St: WA Zip: 98101	City: St: Zip:	**Check Regulatory Program**
Attn:	Rob Leet	Phone: FAX:	☐ Safe Drinking Water Act
Phone:	206.728-2674 FAX: 728-2723	P.O.#: Attn:	☐ Clean Water Act
Email:	rleet@geoengineers.com	☐ Visa ☐ M/C ☐ A/E Expires /	☐ RCRA / CERCLA
Project	Taxiway F Ground Water	Card#:	☐ Other

EDGE ANALYTICAL LABORATORIES
1620 S. Walnut St.
Burlington, WA 98233
1.800.755.9295

805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

Instructions

1. Use one line per sample Location.
2. Be specific in analysis requests.
3. *(NEW)* **List each metal individually** *(NEW)*
4. Check off analyses to be performed for each sample Loaction.
5. Enter number of containers.

Turn Around Time Required
- ☒ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

	Field ID	Location	Grab/ Comp.	Sample Matrix*	Date	Time	8081 Pesticides A GC/ECD	8151 Herbicides A GC/MS-SIM	DUP 8081	DUP 8151	Rinsate 8081	Rinsate 8151			Number of Containers	
1	MW-1	5364-013-01		W	12-1	1528	☒	☒	☐	☐	☐	☐	☐	☐	4	ENDOSULFANS, (ENDOSULFAN I, II, AND SULFATE
2	MW-2	↓		W	12-2	0832	☒	☒	☐	☐	☐	☐	☐	☐	4	CHLORDANES (ALPHA/GAMA)
3	MW-3			W	12-2	1430	☒	☒	☐	☐	☐	☐	☐	☐	4	ALDRIN
4	GEI-MW-4			W	12-2	1812	☒	☒	☐	☐	☐	☐	☐	☐	8	DIELDREN
5	GEI-MW-5			W	12-2	1715	☒	☒	☐	☐	☐	☐	☐	☐	8	HEPTACHLOR
6	GEI-MW-6			W	12-2	0930	☒	☒	☐	☐	☐	☐	☐	☐	8	HEPTACHLOR - EPOXIDE
7	GEI-MW-7	↓		W	12.2	1058	☒	☒	☐	☐	☐	☐	☐	☐	8	TOXAPHENE
8	GEI-MW-8	5364-013-01		W	12.2	1202	☒	☒	☐	☐	☐	☐	☐	☐	8	TOTAL DDT (4,4'DDD, 4,4'DDT)
9							☐	☐	☐	☐	☐	☐	☐	☐		DINOSEB
10							☐	☐	☐	☐	☐	☐	☐	☐		MCPA
																Total Containers

8081A / 8151A

CO009142

PROJECT SPECIFIC
Special Instructions Conditions on Receipt

* SAMPLES GEI-MW-4 THROUGH GEI-MW-8 AND THE DUP SAMPLE HAVE FILTERED AND UNFILTERED BOTTLES — FILTERED SAMPLES ARE INDICATED ON THE BOTTLE LABEL.

Sampled by: BRIAN ANDERSON Phone: 425-750-1326 FAX: Email: BANDERSON@GEOENGINEERS

Sample Receipt Request (Must include FAX or Email) ☐

* **W** - water **DW** - drinking water **SW** - surface water **GW** - Ground water **WW** - waste water **S** - soil **OL** - oil Other WT

09-18626

Relinquished by	Date	Time	Received by	Date	Time
Brian Anderson	12-3-09		[illegible]	12/3/09	1550

	Yes	No	N/A
Custody seals intact	☐	☐	☒
Sample temp 2 C satisfactory	☒	☐	☐
Samples received intact	☒	☐	
Chain of custody & labels agree	☒	☐	

FORM: COC 01-06-2009

* CHLORINATED PESTICIDES DETECTION LIMITS-0.005 UG/L / HERBACIDES DETECTION LIMITS: DINOSEB-0.1 UG/L MCPA-0.2 UG/L

09-18626
39621 - 39637

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

9142

Report to:	GeoEngineers Inc	Bill to:	**For Lab Use Only** Ref #
Ship Address:	600 Stewart St. Suite 1700	Address:	**Check Regulatory Program** ☐ Safe Drinking Water Act
City:	Seattle St: WA Zip: 98101	City: St: Zip:	☐ Clean Water Act
Attn:	Rob Leet	Phone: FAX:	☐ RCRA / CERCLA
Phone:	206.728-2674 FAX: 728-2723	P.O.#: Attn:	☐ Other
Email:	rleet@geoengineers.com	☐ Visa ☐ M/C ☐ A/E Expires /	
Project	Taxiway F Ground Water	Card#:	

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1.800.755.9295

805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

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5. Enter number of containers.

Turn Around Time Required
- ☑ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

	Field ID	Location	Grab/ Comp.	Sample Matrix*	Date	Time	8081 Pesticides GC-ECD	8151 Herbicides GC/MS-SIM	DUP 8081	DUP 8151	Rinsate 8081	Rinsate 8151			Number of Containers
1	DUP-120209	5364-013-01	~~0800~~	W	12-2	0800	X	X							8
2	RINSATE	5365-013-01	~~1600~~	W	12-2	1600	X	X							4
3	LIVESTOCK WELL	5369-013-01	~~1610~~	W	12-2	1610	X	X							4
4															
5															
6															
7															
8															
9															
10															

CO009142

Special Instructions Conditions on Receipt

SEE PAGE 1 FOR PROJECT SPECIFIC ANALYSIS AND OTHER COMMENTS

Sampled by: Phone: FAX: Email: Total Containers

Sample Receipt Request (Must include FAX or Email) ☐

* **W** - water **SW** - surface water **WW** - waste water **OL** - oil
DW - drinking water **GW** - Ground water **S** - soil Other_____

Relinquished by	Date	Time	Received by	Date	Time
Brian Sadland	12-3-09				

	Yes	No	N/A
Custody seals intact	☐	☐	☐
Sample temp_____C satisfactory	☐	☐	☐
Samples received intact	☐	☐	
Chain of custody & labels agree	☐	☐	

EDGE ANALYTICAL LABORATORIES

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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

April 8, 2010

Mr. Rob Leet
GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

RE: 10-03399 - Taxiway F Ground Water

Dear Mr. Rob Leet,

Your project: Taxiway F Ground Water, was received on Friday March 12, 2010.
The following comments are reported for your project:

EPA Method 8151A - Samples 7566 , 7567 AND 7577 - suspect low level of MCPP ~ 1 ug/L. Samples 7570 and 7571 - suspect low level of 2,4-D ~ 1 ug/L.

Sample 7567 (GEI-MW-4F) is suspect with the filtered results (32.1 ug/L) higher then the unfiltered sample (14.6 ug/L) 7566 (GEI-MW-4), with the exception of Bentazone. A micro-extraction by EPA Method 515.4 was done on the field duplicates and results were the same. The 8081A analysis will also extract dinoseb and the results compaired to the the 8151A results. Dinoseb in these extractions showed the filtered sample to be lower in amount then the unfiltered 6.8 and 16.9 ug/L, respectively. To make completely sure the disparity in results was not from the extraction batch, the remaining field duplicate sample of 7567 was extracted by 8151A in another extraction batch. Dinoseb was detected at 32.4 ug/L and agreed with the amount reported, 32.1 ug/L. The other reported herbicides had comparable results as to what was reported. It is a mystery.

EPA Method 8081A - Sample 7574 had low surrogate recovery indicating a matrix affect. This sample was the QC analytical batch sample duplicate and recoveries were also below the acceptance limits . This supports that a matrix affect is likely and the reported amounts maybe biased low.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07577
Field ID: FD-031110
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**2.1**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**2.1**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**2.3**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Form: c608.rpt

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Bellingham WA
Microbiology
805 Orchard Dr Suite 4 - 98225
360.671.0688 • 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07576
Field ID: Rinse
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/12/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07575
Field ID: GEI-MW8F
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**0.42**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**0.31**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**0.19**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07574
Field ID: GEI-MW-8
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**1.7**	d7	ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**0.98**	d7	ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**0.38**	d7	ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07573
Field ID: GEI-MW-7F
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07572
Field ID: GEI-MW-7
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**0.07**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**0.09**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**0.66**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**0.75**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**0.37**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07571
Field ID: GEI-MW-6F
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07570
Field ID: GEI-MW-6
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**0.04**	J	ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**0.04**	J	ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**0.78**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**0.70**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**0.52**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07569
Field ID: GEI-MW-5F
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/12/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07568
Field ID: GEI-MW-5
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/12/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07567
Field ID: GEI-MW-4F
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	result by GC/MS
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	result by GC/MS
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	result by GC/MS
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	result by GC/MS
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	result by GC/MS
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	result by GC/MS
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	result by GC/MS
959-98-8	ENDOSULFAN I	**ND**		ug/L	0.05	0.05	0.007	1.00	result by GC/MS
33213-65-9	ENDOSULFAN II	**ND**		ug/L	0.05	0.05	0.02	1.00	result by GC/MS
1031-07-8	ENDOSULFAN SULFATE	**ND**		ug/L	0.05	0.05	0.009	1.00	result by GC/MS
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	result by GC/MS
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	result by GC/MS
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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WSDOE Lab C1251

DATA REPORT

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water

Lab Number: 07566
Field ID: GEI-MW-4
Sample Description: 5364.013-01
Matrix: Water
Sample Date: 3/11/10
Extraction Date: 3/16/10
Extraction Method: 3510C

Report Date: 4/6/10
Date Analyzed: 3/17/10
Analyst: CO
Peer Review:
Analytical Method: 8081A
Batch: 8081A_100316

CAS	Compound	RESULT	Flag	UNITS	PQL	MRL	MDL	D.F.	COMMENT
	- Organochlorine Pesticides								
309-00-2	ALDRIN	**ND**		ug/L	0.05	0.05	0.04	1.00	
5103-74-2	ALPHA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.007	1.00	
5103-71-9	GAMMA-CHLORDANE	**ND**		ug/L	0.05	0.05	0.02	1.00	
50-29-3	4,4' - DDT	**ND**		ug/L	0.05	0.05	0.03	1.00	
72-55-9	4,4' - DDE	**ND**		ug/L	0.05	0.05	0.005	1.00	
72-54-8	4,4' - DDD	**ND**		ug/L	0.05	0.05	0.01	1.00	
60-57-1	DIELDRIN	**ND**		ug/L	0.05	0.05	0.005	1.00	
959-98-8	ENDOSULFAN I	**2.25**		ug/L	0.05	0.05	0.007	1.00	
33213-65-9	ENDOSULFAN II	**2.1**		ug/L	0.05	0.05	0.02	1.00	
1031-07-8	ENDOSULFAN SULFATE	**2.4**		ug/L	0.05	0.05	0.009	1.00	
76-44-8	HEPTACHLOR	**ND**		ug/L	0.05	0.05	0.03	1.00	
1024-57-3	HEPTACHLOR EPOXIDE "B"	**ND**		ug/L	0.05	0.05	0.008	1.00	
8001-35-2	TOXAPHENE	**ND**		ug/L	1	1	0.5	1.00	

Notes:

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Data Report

Client Name: GeoEngineers, Inc - Seattle
600 Stewart Street Suite 1700
Seattle, WA 98101

Reference Number: **10-03399**
Project: Taxiway F Ground Water
Report Date: 3/25/10
Date Received: 3/12/10
Reviewed by:

Sample Description: GEI-MW-4 - 5364.013-01
Lab Number: 7566
Sample Date: 3/11/10
Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	1450 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
1861-32-1	**TOTAL DCPA**	2.4 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	0.8 Q2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	2.3 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	1.5 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	14.6	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-4F - 5364.013-01
Lab Number: 7567
Sample Date: 3/11/10
Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	680 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
1861-32-1	**TOTAL DCPA**	3.4 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	2.4 Q2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	4.1 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	3.1 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	32.1	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-5 - 5364.013-01
Lab Number: 7568
Sample Date: 3/12/10
Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	24 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Notes:
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact Lawrence Henderson at the above phone number.

Reference Number: **10-03399**
Report Date: 3/25/10

Data Report

Sample Description: GEI-MW-5F - 5364.013-01 Sample Date: 3/12/10
Lab Number: 7569 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	21 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-6 - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7570 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	520 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
133-90-4	**CHLORAMBEN**	1.3 Q2	0.2	0.1	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	low QC recoveries - bias low
1918-00-9	**DICAMBA**	9.8 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	8.2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	3.5	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	3.7 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-6F - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7571 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	640 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
133-90-4	**CHLORAMBEN**	1.2 Q2	0.2	0.1	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	low QC recoveries - bias low
1918-00-9	**DICAMBA**	10.5 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	8.5	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	3.0	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	3.7 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-7 - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7572 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	5.4 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1861-32-1	**TOTAL DCPA**	18 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
93-72-1	**2,4,5 - TP (SILVEX)**	0.8 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	1.2 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	9.3	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	1.4 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **10-03399**
Report Date: 3/25/10

Data Report

Sample Description: GEI-MW-7F - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7573 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	5.3 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1861-32-1	**TOTAL DCPA**	18 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
93-72-1	**2,4,5 - TP (SILVEX)**	0.5 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	1.1 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	8.8	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	1.3 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW-8 - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7574 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	63 Q2	5	0.06	ug/L	10	8151A/3510C	3/22/10	CO	8151_100317	
1861-32-1	**TOTAL DCPA**	3.0 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	3.6 Q2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	14 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
1918-00-9	**DICAMBA**	15 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
88-85-7	**DINOSEB**	431	1	0.05	ug/L	10	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	4.2	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
87-86-5	**PENTACHLOROPHENOL**	0.7 Q2	0.1	0.02	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	1.9 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: GEI-MW8F - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7575 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	40	5	0.06	ug/L	10	8151A/3510C	3/22/10	CO	8151_100317	
1861-32-1	**TOTAL DCPA**	2.8	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	2.2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	13	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
1918-00-9	**DICAMBA**	14	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
88-85-7	**DINOSEB**	358	1	0.05	ug/L	10	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	3.6	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
87-86-5	**PENTACHLOROPHENOL**	0.4	0.1	0.02	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	1.6	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Notes:

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PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Reference Number: **10-03399**
Report Date: 3/25/10

Data Report

Sample Description: Rinse - 5364.013-01 Sample Date: 3/12/10
Lab Number: 7576 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	ND Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
133-90-4	**CHLORAMBEN**	ND Q2	0.2	0.1	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1861-32-1	**TOTAL DCPA**	ND Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	ND Q2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	ND Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	ND Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	ND	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
7085-19-0	**MCPP**	ND Q2	0.1	0.02	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
87-86-5	**PENTACHLOROPHENOL**	ND Q2	0.1	0.02	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
55336-06-3	**TRICLOPYR**	ND Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Sample Description: FD-031110 - 5364.013-01 Sample Date: 3/11/10
Lab Number: 7577 Collected By: Brian Anderson

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comment
25057-89-0	**BENTAZON**	1230 Q2	0.5	0.06	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	exceeded upper calibration
1861-32-1	**TOTAL DCPA**	2.3 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-75-7	**2,4 - D**	0.8 Q2	0.1	0.07	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
93-72-1	**2,4,5 - TP (SILVEX)**	2.1 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
1918-00-9	**DICAMBA**	1.3 Q2	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
88-85-7	**DINOSEB**	13.7	0.1	0.05	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	
94-74-6	**MCPA**	ND	0.1	0.03	ug/L	1	8151A/3510C	3/22/10	CO	8151_100317	

Notes:

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D.F. - Dilution Factor

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 10-03399
Report Date: 04/08/10

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081A_100316	4,4' - DDD	8	10	ug/L	8081A	80	78-132		LFB	
	4,4' - DDE	9.1	10	ug/L	8081A	91	73-127			
	4,4' - DDT	10.45	10	ug/L	8081A	105	56-158			
	ALDRIN	9.32	10	ug/L	8081A	93	68-128			
	ALPHA-CHLORDANE	9.17	10	ug/L	8081A	92	70-130			
	DECACHLOROBIPHENYL (Surr)	74		%	8081A		58-132			
	DIELDRIN	9.17	10	ug/L	8081A	92	74-134			
	ENDOSULFAN I	9.26	10	ug/L	8081A	93	67-133			
	ENDOSULFAN II	9.08	10	ug/L	8081A	91	64-142			
	ENDOSULFAN SULFATE	8.78	10	ug/L	8081A	88	71-143			
	GAMMA-CHLORDANE	9.06	10	ug/L	8081A	91	74-124			
	HEPTACHLOR	9.81	10	ug/L	8081A	98	61-133			
	HEPTACHLOR EPOXIDE "B"	9.32	10	ug/L	8081A	93	73-127			
	TETRACHLORO-M-XYLENE (Surr)	90		%	8081A		67-115			
	TOXAPHENE	4.5	5	ug/L	8081A	90	65-161			
8151_100317	2,4 - D	4.18	4.4	ug/L	8151A	95	60-120		LFB	
	2,4 - DCAA (SURR)	84		%	8151A		70-130			
	2,4,5 - TP (SILVEX)	2.11	2.2	ug/L	8151A	96	68-122			
	BENTAZON	4.24	4.4	ug/L	8151A	96	67-121			
	DICAMBA	2.04	2.2	ug/L	8151A	93	66-126			
	DINOSEB	4.16	4.4	ug/L	8151A	95	73-127			
	MCPA	2.09	2.2	ug/L	8151A	95	49-121			
	PENTACHLOROPHENOL	2.00	2.2	ug/L	8151A	91	69-123			
	TOTAL DCPA	2.13	2.2	ug/L	8151A	97	48-168			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Low Level Laboratory Fortified Blank

Reference Number: 10-03399
Report Date: 04/08/10

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081A_100316	4,4' - DDD	0.048	0.05	ug/L	8081A	96	78-132		LFBD	
	4,4' - DDE	0.046	0.05	ug/L	8081A	92	73-127			
	4,4' - DDT	0.053	0.05	ug/L	8081A	106	56-158			
	ALDRIN	0.048	0.05	ug/L	8081A	96	68-128			
	ALPHA-CHLORDANE	0.046	0.05	ug/L	8081A	92	70-130			
	DECACHLOROBIPHENYL (Surr)	59		%	8081A		58-132			
	DIELDRIN	0.052	0.05	ug/L	8081A	104	74-134			
	ENDOSULFAN I	0.033	0.05	ug/L	8081A	66	67-133			
	ENDOSULFAN II	0.057	0.05	ug/L	8081A	114	64-142			
	ENDOSULFAN SULFATE	0.056	0.05	ug/L	8081A	112	71-143			
	GAMMA-CHLORDANE	0.029	0.05	ug/L	8081A	58	74-124			
	HEPTACHLOR	0.05	0.05	ug/L	8081A	100	61-133			
	HEPTACHLOR EPOXIDE "B"	0.053	0.05	ug/L	8081A	106	73-127			
	TETRACHLORO-M-XYLENE (Surr)	95		%	8081A		67-115			
8151_100317	2,4 - D	0.18	0.22	ug/L	8151A	82	60-120		LFBD	
	2,4 - DCAA (SURR)	81		%	8151A		70-130			
	2,4,5 - TP (SILVEX)	0.10	0.11	ug/L	8151A	91	68-122			
	BENTAZON	0.20	0.22	ug/L	8151A	91	67-121			
	DICAMBA	0.10	0.11	ug/L	8151A	91	66-126			
	DINOSEB	0.17	0.22	ug/L	8151A	77	73-127			
	MCPA	0.10	0.11	ug/L	8151A	91	49-121			
	MCPP	0.10	0.11	ug/L	8151A	91	48-126			
	PENTACHLOROPHENOL	0.10	0.11	ug/L	8151A	91	69-123			
	TOTAL DCPA	0.10	0.11	ug/L	8151A	91	48-168			
	TRICLOPYR	0.10	0.11	ug/L	8151A	91	65-135			

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 10-03399
Report Date: 04/08/10

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
8081A_100316	4,4' - DDD	ND		ug/L	8081A		0.02000		MB	
	4,4' - DDE	ND		ug/L	8081A		0.02000			
	4,4' - DDT	ND		ug/L	8081A		0.02000			
	ALDRIN	ND		ug/L	8081A		0.02000			
	ALPHA-CHLORDANE	ND		ug/L	8081A		0.02000			
	DECACHLOROBIPHENYL (Surr)	62		%	8081A					
	DIELDRIN	ND		ug/L	8081A		0.02000			
	ENDOSULFAN I	ND		ug/L	8081A		0.02000			
	ENDOSULFAN II	ND		ug/L	8081A		0.02000			
	ENDOSULFAN SULFATE	ND		ug/L	8081A		0.02000			
	GAMMA-CHLORDANE	ND		ug/L	8081A		0.02000			
	HEPTACHLOR	ND		ug/L	8081A		0.02000			
	HEPTACHLOR EPOXIDE "B"	ND		ug/L	8081A		0.02000			
	TETRACHLORO-M-XYLENE (Surr)	88		%	8081A					
	TOXAPHENE	ND		ug/L	8081A		0.02000			
8151_100317	2,4 - D	ND		ug/L	8151A		0.00000		MB	
	2,4 - DCAA (SURR)	83		%	8151A		0.00000			
	2,4,5 - TP (SILVEX)	ND		ug/L	8151A		0.00000			
	BENTAZON	ND		ug/L	8151A		0.00000			
	DICAMBA	ND		ug/L	8151A		0.00000			
	DINOSEB	ND		ug/L	8151A		0.00000			
	PENTACHLOROPHENOL	ND		ug/L	8151A		0.00000			
	TOTAL DCPA	ND		ug/L	8151A		0.00000			

*Notation:

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QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Reference Number: 10-03399

Report Date: 4/8/2010

Confirmation Result

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081A_100316										
	7566	ENDOSULFAN I	2.25	1.8C1	ug/L	**22.2**	0-35		CR	
	7566	ENDOSULFAN II	2.1	2.4	ug/L	**13.3**	0-35		CR	
	7566	ENDOSULFAN SULFATE	2.4	2.7	ug/L	**11.8**	0-35		CR	
	7570	ALPHA-CHLORDANE	0.04	0.04J	ug/L	**0.0**	0-35		CR	
	7570	GAMMA-CHLORDANE	0.04	0.04J	ug/L	**0.0**	0-35		CR	
	7570	ENDOSULFAN I	0.78	0.71	ug/L	**9.4**	0-35		CR	
	7570	ENDOSULFAN II	0.70	0.95	ug/L	**30.3**	0-35		CR	
	7570	ENDOSULFAN SULFATE	0.52	0.47	ug/L	**10.1**	0-35		CR	
	7572	ALPHA-CHLORDANE	0.07	0.08	ug/L	**13.3**	0-35		CR	
	7572	GAMMA-CHLORDANE	0.09	0.08	ug/L	**11.8**	0-35		CR	
	7572	ENDOSULFAN I	0.66	0.50C1	ug/L	**27.6**	0-35		CR	
	7572	ENDOSULFAN II	0.75	1.03	ug/L	**31.5**	0-35		CR	
	7572	ENDOSULFAN SULFATE	0.37	0.32	ug/L	**14.5**	0-35		CR	
	7574	ENDOSULFAN I	1.7	1.4C1	ug/L	**19.4**	0-35		CR	
	7574	ENDOSULFAN II	0.98	1.1	ug/L	**11.5**	0-35		CR	
	7574	ENDOSULFAN SULFATE	0.38	0.43C1	ug/L	**12.3**	0-35		CR	
	7575	ENDOSULFAN I	0.42	0.40	ug/L	**4.9**	0-35		CR	
	7575	ENDOSULFAN II	0.31	0.51C1	ug/L	**48.8**	0-35	EV	CR	
	7575	ENDOSULFAN SULFATE	0.19	0.22	ug/L	**14.6**	0-35		CR	
	7577	ENDOSULFAN I	2.1	1.7C1	ug/L	**21.1**	0-35		CR	
	7577	ENDOSULFAN II	2.1	2.9	ug/L	**32.0**	0-35		CR	
	7577	ENDOSULFAN SULFATE	2.3	2.5	ug/L	**8.3**	0-35		CR	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
8081A_100316										
	7574	ENDOSULFAN I	1.7	1.4	ug/L	**19.4**	0-35		DUP	
	7574	ENDOSULFAN II	0.98	1.1	ug/L	**11.5**	0-35		DUP	
	7574	ENDOSULFAN SULFATE	0.38	0.34	ug/L	**11.1**	0-35		DUP	
	7574	DECACHLOROBIPHENYL (Surr)	44	46	%	**4.4**	0-35		DUP	
	7574	TETRACHLORO-M-XYLENE (Surr)	54	39	%	**32.3**	0-35		DUP	
8151_100317										
	7570	BENTAZON	520	530E	ug/L	**1.9**	0-35		DUP	
	7570	DINOSEB	8.2	8.9	ug/L	**8.2**	0-35		DUP	
	7570	DICAMBA	9.8	10.6	ug/L	**7.8**	0-35		DUP	
	7570	MCPA	3.5	3.7	ug/L	**5.6**	0-35		DUP	
	7570	TRICLOPYR	3.7	3.6	ug/L	**2.7**	0-35		DUP	
	7570	2,4 - DCAA (SURR)	84	88	%	**4.7**	0-35		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Type	Comments
8081A_100316															
	7567	ALDRIN	ND	9.61	9.44	10	ug/L	**96**	**94**	68-128	**1.8**	0-30		LFM	result by GC/MS
	7567	ALPHA-CHLORDANE	ND	10.3	9.76	10	ug/L	**103**	**98**	70-130	**5.4**	0-30		LFM	result by GC/MS
	7567	GAMMA-CHLORDANE	ND	8.15	7.78	10	ug/L	**82**	**78**	74-124	**4.6**	0-30		LFM	result by GC/MS
	7567	4,4' - DDT	ND	8.64	8.29	10	ug/L	**86**	**83**	56-158	**4.1**	0-30		LFM	result by GC/MS
	7567	4,4' - DDE	ND	9	8.77	10	ug/L	**90**	**88**	73-127	**2.6**	0-30		LFM	result by GC/MS
	7567	4,4' - DDD	ND	9.21	8.85	10	ug/L	**92**	**89**	78-132	**4.0**	0-30		LFM	result by GC/MS
	7567	DIELDRIN	ND	9.34	8.89	10	ug/L	**93**	**89**	74-134	**4.9**	0-30		LFM	result by GC/MS
	7567	ENDOSULFAN I	ND	9.63	8.88	10	ug/L	**96**	**89**	67-133	**8.1**	0-30		LFM	result by GC/MS
	7567	ENDOSULFAN II	ND	10.1	9.83	10	ug/L	**101**	**98**	64-142	**2.7**	0-30		LFM	result by GC/MS
	7567	ENDOSULFAN SULFATE	ND	9.1	8.71	10	ug/L	**91**	**87**	71-143	**4.4**	0-30		LFM	result by GC/MS
	7567	HEPTACHLOR	ND	9.68	9.5	10	ug/L	**97**	**95**	61-133	**1.9**	0-30		LFM	result by GC/MS
	7567	HEPTACHLOR EPOXIDE "B"	ND	9.65	9.13	10	ug/L	**97**	**91**	73-127	**5.5**	0-30		LFM	result by GC/MS
	7567	DECACHLOROBIPHENYL (Surr)	77	85	65		%		**NA**	58-132	**NA**	0-30		LFM	
	7567	TETRACHLORO-M-XYLENE (Surr)	72	79	76		%		**NA**	67-115	**NA**	0-30		LFM	
8151_100317															
	7568	BENTAZON	24	18.11	17.5	4.4	ug/L	**-134**	**-148**	67-121	**9.8**	0-30	S	LFM	
	7568	TOTAL DCPA	ND	2.24	2.16	2.2	ug/L	**102**	**98**	48-168	**3.6**	0-30		LFM	
	7568	DINOSEB	ND	4.96	4.82	4.4	ug/L	**113**	**110**	73-127	**2.9**	0-30		LFM	
	7568	DICAMBA	ND	1.96	1.87	2.2	ug/L	**89**	**85**	66-126	**4.7**	0-30		LFM	
	7568	2,4 - D	ND	3.64	3.58	4.4	ug/L	**83**	**81**	60-120	**1.7**	0-30		LFM	
	7568	PENTACHLOROPHENOL	ND	1.98	2.02	2.2	ug/L	**90**	**92**	69-123	**2.0**	0-30		LFM	
	7568	2,4,5 - TP (SILVEX)	ND	2.00	1.96	2.2	ug/L	**91**	**89**	68-122	**2.0**	0-30		LFM	
	7568	MCPA	ND	2.02	2.00	2.2	ug/L	**92**	**91**	49-121	**1.0**	0-30		LFM	
	7568	2,4 - DCAA (SURR)	69	69	68		%			70-130	**NA**	0-30		LFM	

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NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 10-03399
Report Date: 04/08/10

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081A_100316						
7566	DECACHLOROBIPHENYL (Surr)	79		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	79		%		Acceptance Limits 67-115%
8151_100317						
7566	2,4 - DCAA (SURR)	85		%	8151A	Acceptance Range 61-129%
8081A_100316						
7567	DECACHLOROBIPHENYL (Surr)	77		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	72		%		Acceptance Limits 67-115%
8151_100317						
7567	2,4 - DCAA (SURR)	94		%	8151A	Acceptance Range 61-129%
8081A_100316						
7568	DECACHLOROBIPHENYL (Surr)	71		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	92		%		Acceptance Limits 67-115%
8151_100317						
7568	2,4 - DCAA (SURR)	69		%	8151A	Acceptance Range 61-129%
8081A_100316						
7569	DECACHLOROBIPHENYL (Surr)	114		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	97		%		Acceptance Limits 67-115%
8151_100317						
7569	2,4 - DCAA (SURR)	82		%	8151A	Acceptance Range 61-129%
8081A_100316						
7570	DECACHLOROBIPHENYL (Surr)	57		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	70		%		Acceptance Limits 67-115%
8151_100317						
7570	2,4 - DCAA (SURR)	84		%	8151A	Acceptance Range 61-129%
8081A_100316						
7571	DECACHLOROBIPHENYL (Surr)	100		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	84		%		Acceptance Limits 67-115%
8151_100317						
7571	2,4 - DCAA (SURR)	89		%	8151A	Acceptance Range 61-129%
8081A_100316						
7572	DECACHLOROBIPHENYL (Surr)	71		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	75		%		Acceptance Limits 67-115%
8151_100317						
7572	2,4 - DCAA (SURR)	70		%	8151A	Acceptance Range 61-129%
8081A_100316						
7573	DECACHLOROBIPHENYL (Surr)	98		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	87		%		Acceptance Limits 67-115%
8151_100317						
7573	2,4 - DCAA (SURR)	90		%	8151A	Acceptance Range 61-129%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 10-03399
Report Date: 04/08/10

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
8081A_100316						
7574	DECACHLOROBIPHENYL (Surr)	44	d7	%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	54	d7	%		Acceptance Limits 67-115%
8151_100317						
7574	2,4 - DCAA (SURR)	71		%	8151A	Acceptance Range 61-129%
8081A_100316						
7575	DECACHLOROBIPHENYL (Surr)	69		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	73		%		Acceptance Limits 67-115%
8151_100317						
7575	2,4 - DCAA (SURR)	80		%	8151A	Acceptance Range 61-129%
8081A_100316						
7576	DECACHLOROBIPHENYL (Surr)	60		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	72		%		Acceptance Limits 67-115%
8151_100317						
7576	2,4 - DCAA (SURR)	83		%	8151A	Acceptance Range 61-129%
8081A_100316						
7577	DECACHLOROBIPHENYL (Surr)	72		%	8081A	Acceptance Limits 58-132%
	TETRACHLORO-M-XYLENE (Surr)	74		%		Acceptance Limits 67-115%
8151_100317						
7577	2,4 - DCAA (SURR)	81		%	8151A	Acceptance Range 61-129%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 10-03399
Report Date: 04/08/10

Qualifier	Definition
C1	The compound is co-eluting and increases the amount of error with quantitation.
d7	Data is suspect. Low surrogate recovery indicates possible matrix affect. Result maybe biased low.
E	Indicates that the concentration exceeds the calibration range. Values which are outside the calibration curve are estimates only.
EV	One or more of the results are estimated values, therefore acceptance criteria do not apply.
J	Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.
L1	Data is "suspect". Recovery of LFB was lower than expected. Historical data shows this compound is typically within acceptable limits, low recovery is atypical and if present in the sample would of been detected.
Q2	Non project specific compound
QL	Quality control recovery was lower than expected. Data may show a low bias if detected.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

10060

Report to:	GeoEngineers Inc	Bill to:		**For Lab Use Only**	
Ship Address:	600 Stewart St. Suite 1700	Address:		Ref #	
City:	Seattle St: WA Zip: 98101	City:	St: Zip:	**Check Regulatory Program**	
Attn:	Rob Leet	Phone:	FAX:	☐ Safe Drinking Water Act	
Phone:	206.728-2674 FAX: 728-2723	P.O.#:	Attn:	☐ Clean Water Act	
Email:	rleet@geoengineers.com	☐ Visa ☐ M/C ☐ A/E	Expires /	☐ RCRA / CERCLA	
Project	Taxiway F Ground Water	Card#:		☐ Other	

EDGE ANALYTICAL LABORATORIES
1620 S. Walnut St.
Burlington, WA 98233
1.800.755.9295

805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

Instructions
1. Use one line per sample Location.
2. Be specific in analysis requests.
3. *(NEW)* **List each metal individually** *(NEW)*
4. Check off analyses to be performed for each sample Loaction.
5. Enter number of containers.

Turn Around Time Required
- ☐ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

CO010060

	Field ID	Location	Grab/ Comp.	Sample Matrix*	Date	Time	8081 PESTICIDES GC/ECD	8151 HERBICIDES GC/MS-SIM	Number of Containers	Special Instructions Conditions on Receipt
1	GEI-MW-4	5364.013-01		W	3-11-10	1558	X	X	8	ENDOSULFANS (ENDOSULFAN I, II AND SULFATE)
2	GEI-MW-5	↓		W	3-12-10	0738	X	X	8	CHLORDANES (ALPHA/GAMMA)
3	GEI-MW-6			W	3-11-10	1208	X	X	8	ALDRIN
4	GEI-MW-7			W	3-11-10	1412	X	X	8	DIELDREN
5	GEI-MW-8			W	3-11-10	1000	X	X	8	HEPTACHLOR
6	RINSE			W	3-12-10	1030	X		4	HEPTACHLOR-EPOXIDE
7	FD-031110	5367-013-01		W	3-11-10	0930	X	X	4	TOXAPHENE
8										TOTAL DDT(4,4'-DDD,4,4'-DDE, AND 4,4'-DDT)
9										DINOSEB
10	* SAMPLES GEI-MW-4 THROUGH GEI-MW-8 HAVE FILTERED AND UNFILTERED BOTTLES INDICATED BY THE LABEL.									MCPA
										Total Containers

10-03399
7566 - 7577

8081A
8151A

Sampled by: BRIAN ANDERSON Phone: 425-750-1326 FAX: Email: BANDERSON@GEOENGINEERS

Sample Receipt Request (Must include FAX or Email) ☐

* **W** - water **DW** - drinking water **SW** - surface water **GW** - Ground water **WW** - waste water **S** - soil **OL** - oil Other_____

Relinquished by	Date	Time	Received by	Date	Time
R. Leet	3-12-10	1506	HH	3/12/10	1506

	Yes	No	N/A
Custody seals intact (not) Onica	☐	☐	☑
Sample temp 7 C satisfactory	☑	☐	☐
Samples received intact	☑	☐	
Chain of custody & labels agree	☑	☐	

FORM: COC 01-06-2009

* CHLORINATED PESTICIDES DETECTION LIMITS - 0.05 ug/L / HERBICIDES DETECTION LIMITES:
* EXCEPTION IS TOXAPHENE - 1.0 ug/L DINOSEB - 0.1 ug/L
MCPA - 0.2 ug/L

10-03399

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 23, 2010

Rob Leet
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-01
Laboratory Reference No. 1006-090

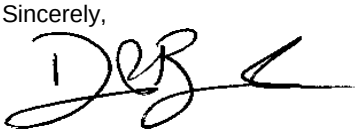
Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on June 11, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

Case Narrative

Samples were collected on June 10 and 11, 2010 and received by the laboratory on June 11, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081A Analysis

The percent recovery for 4,4'-DDT in the Spike Blank duplicate was 126%, above the quality control limits of 55-104%. As a result, the relative percent difference (RPD) value for 4,4'-DDT (22%) was greater than the control limit of 13% for the SB/SBD pair. Since all other quality control values were within control limits and no 4,4'-DDT was detected in the samples, no further action was performed.

Chlorinated Acid Herbicides EPA 8151A

Due to insufficient sample, a spike blank and spike blank duplicate was extracted. The percent spike recovery for Dicamba was below the quality control limits of 47-93%. Since the samples were re-extracted, all other QC associated with this sample batch were within limits and holding time has expired, no further action was taken.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GEI-MW-4-Filtered	06-090-01	Water	6-10-10	6-11-10	
GEI-MW-5-Filtered	06-090-02	Water	6-10-10	6-11-10	
GEI-MW-6-Filtered	06-090-03	Water	6-10-10	6-11-10	
GEI-MW-7-Filtered	06-090-04	Water	6-10-10	6-11-10	
GEI-MW-8-Filtered	06-090-05	Water	6-10-10	6-11-10	
FD-061010	06-090-06	Water	6-10-10	6-11-10	
RINSE	06-090-07	Water	6-10-10	6-11-10	
GEI-MW-4-Unfiltered	06-090-08	Water	6-10-10	6-11-10	
GEI-MW-5-Unfiltered	06-090-09	Water	6-10-10	6-11-10	
GEI-MW-6-Unfiltered	06-090-10	Water	6-10-10	6-11-10	
GEI-MW-7-Unfiltered	06-090-11	Water	6-10-10	6-11-10	
GEI-MW-8-Unfiltered	06-090-12	Water	6-10-10	6-11-10	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4 FILTERED**					
Laboratory ID:	06-090-01					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.095**	0.048	EPA 8081	6-14-10	6-21-10	
delta-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-Chlordane	**0.24**	0.048	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**1.0**	0.048	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**0.21**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**ND**	0.095	EPA 8081	6-14-10	6-21-10	
Endsulfan Sulfate	**0.28**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-90*				
DCB	*84*	*30-120*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5 FILTERED**					
Laboratory ID:	06-090-02					
alpha-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
gamma-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
beta-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
delta-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Heptachlor	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Aldrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Heptachlor Epoxide	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
gamma-Chlordane	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
alpha-Chlordane	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDE	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endosulfan I	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Dieldrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDD	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endosulfan II	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDT	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin Aldehyde	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Methoxychlor	**ND**	0.0094	EPA 8081	6-14-10	6-16-10	
Endsulfan Sulfate	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin Ketone	**ND**	0.019	EPA 8081	6-14-10	6-16-10	
Toxaphene	**ND**	0.047	EPA 8081	6-14-10	6-16-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*51*	*30-90*				
DCB	*71*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6 FILTERED**					
Laboratory ID:	06-090-03					
alpha-BHC	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**0.11**	0.047	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.25**	0.047	EPA 8081	6-14-10	6-21-10	
delta-BHC	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
gamma-Chlordane	**0.54**	0.047	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**1.4**	0.047	EPA 8081	6-14-10	6-21-10	P
4,4'-DDE	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**1.2**	0.047	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**ND**	0.047	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**ND**	0.094	EPA 8081	6-14-10	6-21-10	
Endsulfan Sulfate	**1.1**	0.047	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.47	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*60*	*30-90*				
DCB	*87*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7 FILTERED**					
Laboratory ID:	06-090-04					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.077**	0.048	EPA 8081	6-14-10	6-21-10	
delta-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**0.40**	0.048	EPA 8081	6-14-10	6-21-10	9
gamma-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
alpha-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**0.058**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**0.20**	0.096	EPA 8081	6-14-10	6-21-10	P
Endsulfan Sulfate	**0.065**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-90*				
DCB	*87*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8 FILTERED**					
Laboratory ID:	06-090-05					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.17**	0.048	EPA 8081	6-14-10	6-21-10	
delta-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**0.22**	0.048	EPA 8081	6-14-10	6-21-10	P
gamma-Chlordane	**0.59**	0.048	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**0.28**	0.048	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**0.12**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**0.16**	0.096	EPA 8081	6-14-10	6-21-10	P
Endsulfan Sulfate	**0.20**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-90*				
DCB	*92*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FD-061010**					
Laboratory ID:	06-090-06					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.58**	0.048	EPA 8081	6-14-10	6-21-10	P
delta-BHC	**1.5**	0.048	EPA 8081	6-14-10	6-21-10	P
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**0.31**	0.048	EPA 8081	6-14-10	6-21-10	P
gamma-Chlordane	**0.39**	0.048	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**1.7**	0.048	EPA 8081	6-14-10	6-21-10	
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**0.98**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**0.22**	0.048	EPA 8081	6-14-10	6-21-10	P
Methoxychlor	**0.25**	0.096	EPA 8081	6-14-10	6-21-10	P
Endsulfan Sulfate	**0.39**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*38*	*30-90*				
DCB	*62*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RINSE**					
Laboratory ID:	06-090-07					
alpha-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
gamma-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
beta-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
delta-BHC	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Heptachlor	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Aldrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Heptachlor Epoxide	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
gamma-Chlordane	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
alpha-Chlordane	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDE	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endosulfan I	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Dieldrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDD	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endosulfan II	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
4,4'-DDT	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin Aldehyde	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Methoxychlor	**ND**	0.0095	EPA 8081	6-14-10	6-16-10	
Endsulfan Sulfate	**ND**	0.0047	EPA 8081	6-14-10	6-16-10	
Endrin Ketone	**ND**	0.019	EPA 8081	6-14-10	6-16-10	
Toxaphene	**ND**	0.047	EPA 8081	6-14-10	6-16-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*61*	*30-90*				
DCB	*73*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4 UNFILTERED**					
Laboratory ID:	06-090-08					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.24**	0.048	EPA 8081	6-14-10	6-21-10	
delta-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-Chlordane	**1.9**	0.048	EPA 8081	6-14-10	6-21-10	
alpha-Chlordane	**0.064**	0.048	EPA 8081	6-14-10	6-21-10	P
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**4.6**	0.48	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**2.8**	0.48	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**ND**	0.096	EPA 8081	6-14-10	6-21-10	
Endsulfan Sulfate	**7.9**	0.48	EPA 8081	6-14-10	6-21-10	
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*50*	*30-90*				
DCB	*106*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5 UNFILTERED**					
Laboratory ID:	06-090-09					
alpha-BHC	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
gamma-BHC	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
beta-BHC	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
delta-BHC	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Heptachlor	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Aldrin	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Heptachlor Epoxide	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
gamma-Chlordane	**0.0083**	0.0048	EPA 8081	6-14-10	6-16-10	
alpha-Chlordane	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
4,4'-DDE	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Endosulfan I	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Dieldrin	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Endrin	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
4,4'-DDD	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Endosulfan II	**0.0054**	0.0048	EPA 8081	6-14-10	6-16-10	
4,4'-DDT	**ND**	0.0048	EPA 8081	6-14-10	6-16-10	
Endrin Aldehyde	**0.019**	0.0048	EPA 8081	6-14-10	6-16-10	
Methoxychlor	**ND**	0.0095	EPA 8081	6-14-10	6-16-10	
Endsulfan Sulfate	**0.031**	0.0048	EPA 8081	6-14-10	6-16-10	P
Endrin Ketone	**ND**	0.019	EPA 8081	6-14-10	6-16-10	
Toxaphene	**ND**	0.048	EPA 8081	6-14-10	6-16-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*50*	*30-90*				
DCB	*73*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6 UNFILTERED**					
Laboratory ID:	06-090-10					
alpha-BHC	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
beta-BHC	**1.3**	0.049	EPA 8081	6-14-10	6-21-10	P
delta-BHC	**0.19**	0.049	EPA 8081	6-14-10	6-21-10	
Heptachlor	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**0.091**	0.049	EPA 8081	6-14-10	6-21-10	P
gamma-Chlordane	**0.60**	0.049	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**0.069**	0.049	EPA 8081	6-14-10	6-21-10	P
4,4'-DDE	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**0.72**	0.049	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**0.55**	0.049	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**ND**	0.049	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**0.12**	0.097	EPA 8081	6-14-10	6-21-10	P
Endsulfan Sulfate	**1.4**	0.049	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.49	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-90*				
DCB	*98*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7 UNFILTERED**					
Laboratory ID:	06-090-11					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**1.2**	0.048	EPA 8081	6-14-10	6-21-10	P
delta-BHC	**0.24**	0.048	EPA 8081	6-14-10	6-21-10	P
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**0.53**	0.048	EPA 8081	6-14-10	6-21-10	P
gamma-Chlordane	**0.089**	0.048	EPA 8081	6-14-10	6-21-10	
alpha-Chlordane	**0.050**	0.048	EPA 8081	6-14-10	6-21-10	P
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**1.1**	0.048	EPA 8081	6-14-10	6-21-10	P
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**0.50**	0.048	EPA 8081	6-14-10	6-21-10	P
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**0.088**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**0.39**	0.097	EPA 8081	6-14-10	6-21-10	P
Endsulfan Sulfate	**1.3**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-90*				
DCB	*89*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8 UNFILTERED**					
Laboratory ID:	06-090-12					
alpha-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
gamma-BHC	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
beta-BHC	**0.22**	0.048	EPA 8081	6-14-10	6-21-10	P
delta-BHC	**0.79**	0.048	EPA 8081	6-14-10	6-21-10	P
Heptachlor	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Aldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Heptachlor Epoxide	**1.4**	0.048	EPA 8081	6-14-10	6-21-10	P
gamma-Chlordane	**0.15**	0.048	EPA 8081	6-14-10	6-21-10	P
alpha-Chlordane	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDE	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan I	**0.85**	0.048	EPA 8081	6-14-10	6-21-10	
Dieldrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDD	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endosulfan II	**0.53**	0.048	EPA 8081	6-14-10	6-21-10	
4,4'-DDT	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Endrin Aldehyde	**ND**	0.048	EPA 8081	6-14-10	6-21-10	
Methoxychlor	**ND**	0.095	EPA 8081	6-14-10	6-21-10	
Endsulfan Sulfate	**0.19**	0.048	EPA 8081	6-14-10	6-21-10	P
Endrin Ketone	**ND**	0.19	EPA 8081	6-14-10	6-21-10	
Toxaphene	**ND**	0.48	EPA 8081	6-14-10	6-21-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*32*	*30-90*				
DCB	*41*	*30-120*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4 FILTERED**					
Laboratory ID:	06-090-01					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-18-10	
Dicamba	**0.87**	0.022	EPA 8151	6-17-10	6-18-10	
MCPP	**41**	4.4	EPA 8151	6-17-10	6-18-10	
MCPA	**70**	4.4	EPA 8151	6-17-10	6-18-10	
Dichlorprop	**ND**	0.022	EPA 8151	6-17-10	6-18-10	
2,4-D	**0.98**	0.022	EPA 8151	6-17-10	6-18-10	
Pentachlorophenol	**0.017**	0.0090	EPA 8151	6-17-10	6-18-10	
2,4,5-TP (Silvex)	**2.1**	0.023	EPA 8151	6-17-10	6-18-10	
2,4,5-T	**0.28**	0.022	EPA 8151	6-17-10	6-18-10	P
2,4-DB	**0.57**	0.045	EPA 8151	6-17-10	6-18-10	P
Dinoseb	**8.6**	0.022	EPA 8151	6-17-10	6-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*84*	*30-101*				
Client ID:	**GEI-MW-5 FILTERED**					
Laboratory ID:	06-090-02					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-22-10	
Dicamba	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
MCPP	**ND**	4.4	EPA 8151	6-17-10	6-22-10	
MCPA	**ND**	4.4	EPA 8151	6-17-10	6-22-10	
Dichlorprop	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
2,4-D	**0.029**	0.022	EPA 8151	6-17-10	6-22-10	
Pentachlorophenol	**ND**	0.0090	EPA 8151	6-17-10	6-22-10	
2,4,5-TP (Silvex)	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
2,4,5-T	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
2,4-DB	**ND**	0.045	EPA 8151	6-17-10	6-22-10	
Dinoseb	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*45*	*30-101*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6 FILTERED**					
Laboratory ID:	06-090-03					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-18-10	
Dicamba	**4.2**	0.022	EPA 8151	6-17-10	6-18-10	
MCPP	**ND**	4.4	EPA 8151	6-17-10	6-18-10	
MCPA	**110**	4.4	EPA 8151	6-17-10	6-18-10	P
Dichlorprop	**0.29**	0.022	EPA 8151	6-17-10	6-18-10	
2,4-D	**18**	0.022	EPA 8151	6-17-10	6-18-10	E
Pentachlorophenol	**0.21**	0.0090	EPA 8151	6-17-10	6-18-10	P
2,4,5-TP (Silvex)	**0.15**	0.023	EPA 8151	6-17-10	6-18-10	
2,4,5-T	**1.6**	0.022	EPA 8151	6-17-10	6-18-10	P
2,4-DB	**5.7**	0.045	EPA 8151	6-17-10	6-18-10	E,P
Dinoseb	**4.3**	0.022	EPA 8151	6-17-10	6-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*67*	*30-101*				
Client ID:	**GEI-MW-7 FILTERED**					
Laboratory ID:	06-090-04					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-18-10	
Dicamba	**0.56**	0.022	EPA 8151	6-17-10	6-18-10	
MCPP	**350**	4.4	EPA 8151	6-17-10	6-18-10	P
MCPA	**87**	4.4	EPA 8151	6-17-10	6-18-10	P
Dichlorprop	**0.29**	0.022	EPA 8151	6-17-10	6-18-10	P
2,4-D	**18**	0.022	EPA 8151	6-17-10	6-18-10	E
Pentachlorophenol	**ND**	0.0090	EPA 8151	6-17-10	6-18-10	
2,4,5-TP (Silvex)	**2.0**	0.022	EPA 8151	6-17-10	6-18-10	
2,4,5-T	**0.65**	0.022	EPA 8151	6-17-10	6-18-10	P
2,4-DB	**0.60**	0.045	EPA 8151	6-17-10	6-18-10	P
Dinoseb	**1.2**	0.022	EPA 8151	6-17-10	6-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*49*	*30-101*				

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Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8 FILTERED**					
Laboratory ID:	06-090-05					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**16**	1.1	EPA 8151	6-17-10	6-23-10	
MCPP	**1900**	220	EPA 8151	6-17-10	6-23-10	P
MCPA	**320**	4.4	EPA 8151	6-17-10	6-19-10	
Dichlorprop	**0.66**	0.022	EPA 8151	6-17-10	6-19-10	P
2,4-D	**340**	11	EPA 8151	6-17-10	6-23-10	
Pentachlorophenol	**0.13**	0.0090	EPA 8151	6-17-10	6-19-10	P
2,4,5-TP (Silvex)	**33**	1.2	EPA 8151	6-17-10	6-23-10	
2,4,5-T	**0.37**	0.022	EPA 8151	6-17-10	6-19-10	P
2,4-DB	**5.6**	2.3	EPA 8151	6-17-10	6-19-10	P
Dinoseb	**440**	11	EPA 8151	6-17-10	6-23-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*77*	*30-101*				
Client ID:	**FD-061010**					
Laboratory ID:	06-090-06					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**15**	1.1	EPA 8151	6-17-10	6-22-10	
MCPP	**8200**	220	EPA 8151	6-17-10	6-22-10	P
MCPA	**360**	4.4	EPA 8151	6-17-10	6-19-10	P
Dichlorprop	**0.95**	0.022	EPA 8151	6-17-10	6-19-10	P
2,4-D	**440**	22	EPA 8151	6-17-10	6-22-10	
Pentachlorophenol	**0.27**	0.0090	EPA 8151	6-17-10	6-19-10	P
2,4,5-TP (Silvex)	**34**	1.2	EPA 8151	6-17-10	6-22-10	
2,4,5-T	**0.66**	0.023	EPA 8151	6-17-10	6-19-10	
2,4-DB	**85**	0.045	EPA 8151	6-17-10	6-19-10	
Dinoseb	**830**	22	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*65*	*30-101*				

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RINSE**					
Laboratory ID:	06-090-07					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-22-10	
Dicamba	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
MCPP	**ND**	4.4	EPA 8151	6-17-10	6-22-10	
MCPA	**ND**	4.4	EPA 8151	6-17-10	6-22-10	
Dichlorprop	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
2,4-D	**0.077**	0.022	EPA 8151	6-17-10	6-22-10	P
Pentachlorophenol	**ND**	0.0090	EPA 8151	6-17-10	6-22-10	
2,4,5-TP (Silvex)	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
2,4,5-T	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
2,4-DB	**ND**	0.045	EPA 8151	6-17-10	6-22-10	
Dinoseb	**ND**	0.022	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*56*	*30-101*				
Client ID:	**GEI-MW-4 UNFILTERED**					
Laboratory ID:	06-090-08					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**1.9**	0.023	EPA 8151	6-17-10	6-19-10	
MCPP	**ND**	4.5	EPA 8151	6-17-10	6-19-10	
MCPA	**54**	4.5	EPA 8151	6-17-10	6-19-10	
Dichlorprop	**ND**	0.023	EPA 8151	6-17-10	6-19-10	
2,4-D	**0.57**	0.023	EPA 8151	6-17-10	6-19-10	P
Pentachlorophenol	**0.015**	0.0091	EPA 8151	6-17-10	6-19-10	
2,4,5-TP (Silvex)	**3.0**	0.023	EPA 8151	6-17-10	6-19-10	
2,4,5-T	**0.13**	0.023	EPA 8151	6-17-10	6-19-10	P
2,4-DB	**0.36**	0.046	EPA 8151	6-17-10	6-19-10	P
Dinoseb	**18**	1.2	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*77*	*30-101*				

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Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5 UNFILTERED**					
Laboratory ID:	06-090-09					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-22-10	
Dicamba	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
MCPP	**ND**	4.5	EPA 8151	6-17-10	6-22-10	
MCPA	**ND**	4.5	EPA 8151	6-17-10	6-22-10	
Dichlorprop	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
2,4-D	**0.072**	0.023	EPA 8151	6-17-10	6-22-10	
Pentachlorophenol	**ND**	0.0091	EPA 8151	6-17-10	6-22-10	
2,4,5-TP (Silvex)	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
2,4,5-T	**0.054**	0.023	EPA 8151	6-17-10	6-22-10	P
2,4-DB	**ND**	0.045	EPA 8151	6-17-10	6-22-10	
Dinoseb	**ND**	0.023	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*81*	*30-101*				
Client ID:	**GEI-MW-6 UNFILTERED**					
Laboratory ID:	06-090-10					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**4.3**	0.023	EPA 8151	6-17-10	6-19-10	
MCPP	**120**	4.5	EPA 8151	6-17-10	6-19-10	P
MCPA	**99**	4.5	EPA 8151	6-17-10	6-19-10	P
Dichlorprop	**2.6**	0.023	EPA 8151	6-17-10	6-19-10	P
2,4-D	**18**	0.023	EPA 8151	6-17-10	6-19-10	E
Pentachlorophenol	**0.17**	0.0092	EPA 8151	6-17-10	6-19-10	P
2,4,5-TP (Silvex)	**0.11**	0.023	EPA 8151	6-17-10	6-19-10	
2,4,5-T	**2.3**	0.023	EPA 8151	6-17-10	6-19-10	P
2,4-DB	**ND**	0.046	EPA 8151	6-17-10	6-19-10	
Dinoseb	**4.2**	0.023	EPA 8151	6-17-10	6-19-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*151*	*30-101*				Q

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Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7 UNFILTERED**					
Laboratory ID:	06-090-11					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**2.0**	0.022	EPA 8151	6-17-10	6-19-10	P
MCPP	**390**	4.5	EPA 8151	6-17-10	6-19-10	P
MCPA	**ND**	4.5	EPA 8151	6-17-10	6-19-10	
Dichlorprop	**ND**	0.023	EPA 8151	6-17-10	6-19-10	
2,4-D	**3.0**	0.022	EPA 8151	6-17-10	6-19-10	P
Pentachlorophenol	**0.073**	0.0091	EPA 8151	6-17-10	6-19-10	P
2,4,5-TP (Silvex)	**0.20**	0.023	EPA 8151	6-17-10	6-19-10	
2,4,5-T	**3.1**	0.023	EPA 8151	6-17-10	6-19-10	P
2,4-DB	**0.87**	0.045	EPA 8151	6-17-10	6-19-10	P
Dinoseb	**4.4**	0.023	EPA 8151	6-17-10	6-19-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*48*	*30-101*				
Client ID:	**GEI-MW-8 UNFILTERED**					
Laboratory ID:	06-090-12					
Dalapon	**ND**	0.22	EPA 8151	6-17-10	6-19-10	
Dicamba	**3.1**	0.023	EPA 8151	6-17-10	6-19-10	
MCPP	**2000**	900	EPA 8151	6-17-10	6-22-10	P
MCPA	**130**	4.5	EPA 8151	6-17-10	6-19-10	P
Dichlorprop	**0.38**	0.023	EPA 8151	6-17-10	6-19-10	P
2,4-D	**110**	4.6	EPA 8151	6-17-10	6-22-10	
Pentachlorophenol	**0.25**	0.0091	EPA 8151	6-17-10	6-19-10	
2,4,5-TP (Silvex)	**7.8**	4.6	EPA 8151	6-17-10	6-22-10	
2,4,5-T	**ND**	0.023	EPA 8151	6-17-10	6-19-10	
2,4-DB	**1.3**	0.045	EPA 8151	6-17-10	6-19-10	P
Dinoseb	**240**	4.6	EPA 8151	6-17-10	6-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*68*	*30-101*				

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Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0614W1					
alpha-BHC	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
gamma-BHC	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
beta-BHC	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
delta-BHC	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Heptachlor	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Aldrin	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
gamma-Chlordane	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
alpha-Chlordane	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
4,4'-DDE	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Endosulfan I	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Dieldrin	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Endrin	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
4,4'-DDD	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Endosulfan II	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
4,4'-DDT	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Endrin Aldehyde	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Methoxychlor	**ND**	0.010	EPA 8081	6-14-10	6-16-10	
Endsulfan Sulfate	**ND**	0.0050	EPA 8081	6-14-10	6-16-10	
Endrin Ketone	**ND**	0.020	EPA 8081	6-14-10	6-16-10	
Toxaphene	**ND**	0.050	EPA 8081	6-14-10	6-16-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*54*	*30-90*				
DCB	*83*	*30-120*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A SB/SBD QUALITY CONTROL

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0614W1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**0.0374**	**0.0351**	0.0500	0.0500	N/A	**75**	**70**	41-94	6	13	
Heptachlor	**0.0305**	**0.0305**	0.0500	0.0500	N/A	**61**	**61**	39-89	0	14	
Aldrin	**0.0253**	**0.0246**	0.0500	0.0500	N/A	**51**	**49**	37-82	3	19	
Dieldrin	**0.0961**	**0.0940**	0.125	0.125	N/A	**77**	**75**	48-98	2	13	
Endrin	**0.107**	**0.106**	0.125	0.125	N/A	**86**	**85**	30-100	1	14	
4,4'-DDT	**0.127**	**0.158**	0.125	0.125	N/A	**102**	**126**	55-104	22	13	I,L
Surrogate:											
TCMX						*52*	*50*	*30-90*			
DCB						*81*	*81*	*30-120*			

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Date of Report: June 23, 2010
Samples Submitted: June 11, 2010
Laboratory Reference: 1006-090
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0617W1					
Dalapon	**ND**	0.23	EPA 8151	6-17-10	6-18-10	
Dicamba	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
MCPP	**ND**	4.7	EPA 8151	6-17-10	6-18-10	
MCPA	**ND**	4.7	EPA 8151	6-17-10	6-18-10	
Dichlorprop	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
2,4-D	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
Pentachlorophenol	**ND**	0.0095	EPA 8151	6-17-10	6-18-10	
2,4,5-TP (Silvex)	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
2,4,5-T	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
2,4-DB	**ND**	0.047	EPA 8151	6-17-10	6-18-10	
Dinoseb	**ND**	0.024	EPA 8151	6-17-10	6-18-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*40*	*30-101*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0617W1										
	SB	SBD	SB	SBD		SB	SBD				
Dicamba	**0.397**	**0.401**	1.00	1.00	N/A	**40**	**40**	47-93	1	16	I,I
2,4-D	**0.531**	**0.608**	1.00	1.00	N/A	**53**	**61**	37-98	14	14	
2,4,5-T	**0.682**	**0.743**	1.00	1.00	N/A	**68**	**74**	42-105	9	20	
2,4-DB	**0.672**	**0.773**	1.00	1.00	N/A	**67**	**77**	41-118	14	16	
Surrogate:											
DCAA						*52*	*58*	*30-101*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 2 (DB)

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5364-013-01
Project Name: TAYLWAY-F SITE / SKAGIT AIRPORT
Project Manager: ROB UEET
Sampled by:

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 06-090

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A GC/ECD	Herbicides by 8151A GC/MS-ECD Suppl	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
1	GEI-MW-4 FILTERED	6-10-10	1408	W	8 4 (DB)									X	X				
2	GEI-MW-5 FILTERED	6-10-10	1138	W	8 4									X	X				
3	GEI-MW-6 FILTERED	6-10-10	1730	W	8 4									X	X				
4	GEI-MW-7 FILTERED	6-11-10	1000	W	8 4									X	X				
5	GEI-MW-8 FILTERED	6-10-10	0930	W	8 4									X	X				
6	FD-060101 0	6-10-10	1101	W	4									X	X				
7	RINSE	6-11-10	1030	W	4									X	X				

* SAMPLES GEI-MW-4 THROUGH GEI-MW-8 HAVE FILTERED AND UN-FILTERED SAMPLES; INDICATED ON LABELS
* FD-060101 0 AND RINSE SAMPLES ARE UNFILTERED

	Signature	Company	Date	Time
Relinquished by	B. Osterman	GEOENGINEERS	6-11-10	
Received by		CORE	6/11/10	1345
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
8081A TO INCLUDE: ENDOSULFANS → (ENDOSULFAN I, II AND SULFATE)/CHLORDANES (ALPHA, GAMMA) ALDRIN, DIELDREN, HEPTACHLOR, HEPTACHLOR-EPOXIDE, TOXAPHENE, TOTAL DDT (4,4'-DDD/4,4'-DDE, AND 4,4-DDT)
8151A TO INCLUDE: DINOSEB, MCPA.

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5364-013-01
Project Name: Taxiway-F Site / Skagit Airport
Project Manager: Rob Leet
Sampled by:

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☒ Standard (7 working days)
  (TPH analysis 5 working days)
- ☐ _____ (other)

Laboratory Number: 06-090

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A GC/ECD	Herbicides by 8151A GC/ECD	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	% Moisture
8	GEI-MW-4-UNFILTERED	6/10/10	1408	W	4									X	X				
9	-MW-5-		1138											X	X				
10	-MW-6-		1730											X	X				
11	-MW-7-	6/11/10	1000											X	X				
12	MW-8-	6/10/10	0930											X	X				

	Signature	Company	Date	Time
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 25, 2010

Zanna Satterwhite
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-02
Laboratory Reference No. 1006-154

Dear Zanna:

Enclosed are the analytical results and associated quality control data for samples submitted on June 18, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

Case Narrative

Samples were collected on June 17, 2010 and received by the laboratory on June 18, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides (water) by EPA 8081A Analysis

The percent recovery for 4,4'-DDT in the Spike Blank was 135%, above the quality control limits of 55-104%. As a result, the relative percent difference (RPD) value for 4,4'-DDT (33%) was greater than the control limit of 13% for the SB/SBD pair. Since all other quality control values were within control limits and no 4,4'-DDT was detected in the samples, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-41-0.3-0.5**					
Laboratory ID:	06-154-01					
Endosulfan I	**760**	41	EPA 8081	6-23-10	6-25-10	
Endosulfan II	**700**	82	EPA 8081	6-23-10	6-25-10	
Endsulfan Sulfate	**360**	82	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*55*	*30-100*				
DCB	*56*	*30-118*				
Client ID:	**GEI-25-0.3-0.5**					
Laboratory ID:	06-154-02					
Endosulfan I	**670**	65	EPA 8081	6-23-10	6-25-10	
Endosulfan II	**360**	25	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**55**	25	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*37*	*30-100*				
DCB	*36*	*30-118*				
Client ID:	**GEI-30-0.3-0.5**					
Laboratory ID:	06-154-06					
Endosulfan I	**150**	8.8	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**ND**	18	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**ND**	18	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*55*	*30-100*				
DCB	*51*	*30-118*				
Client ID:	**GEI-47-0.3-0.5'**					
Laboratory ID:	06-154-08					
Endosulfan I	**ND**	7.4	EPA 8081	6-23-10	6-25-10	
Endosulfan II	**ND**	15	EPA 8081	6-23-10	6-25-10	
Endsulfan Sulfate	**ND**	15	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*58*	*30-100*				
DCB	*66*	*30-118*				

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Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-46-0.3-0.5'**					
Laboratory ID:	06-154-09					
Endosulfan I	**ND**	6.2	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**ND**	12	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**14**	12	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*54*	*30-100*				
DCB	*55*	*30-118*				
Client ID:	**GEI-45-0.3-0.5'**					
Laboratory ID:	06-154-10					
Endosulfan I	**240**	7.1	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**180**	14	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**190**	14	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-100*				
DCB	*56*	*30-118*				
Client ID:	**GEI-31-0.3'-0.5'**					
Laboratory ID:	06-154-19					
Endosulfan I	**ND**	12	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**ND**	24	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**ND**	24	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*54*	*30-100*				
DCB	*53*	*30-118*				

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Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-44-0.3-0.5'**					
Laboratory ID:	06-154-21					
Endosulfan I	**180**	8.0	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**150**	16	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**310**	16	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*54*	*30-100*				
DCB	*52*	*30-118*				
Client ID:	**GEI-43-0.3-0.5'**					
Laboratory ID:	06-154-22					
Endosulfan I	**68**	6.2	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**23**	12	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**120**	12	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*46*	*30-100*				
DCB	*43*	*30-118*				
Client ID:	**GEI-42-0.3-0.5'**					
Laboratory ID:	06-154-23					
Endosulfan I	**72**	8.2	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**34**	16	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**400**	80	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*57*	*30-100*				
DCB	*53*	*30-118*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-29-0.3-0.5'**					
Laboratory ID:	06-154-26					
Endosulfan I	**ND**	10	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**ND**	21	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**ND**	21	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*49*	*30-100*				
DCB	*45*	*30-118*				
Client ID:	**GEI-28-0.3-0.5**					
Laboratory ID:	06-154-31					
Endosulfan I	**190**	7.0	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**810**	70	EPA 8081	6-23-10	6-25-10	
Endsulfan Sulfate	**1000**	70	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-100*				
DCB	*57*	*30-118*				
Client ID:	**GEI-27-0.3-0.5'**					
Laboratory ID:	06-154-37					
Endosulfan I	**ND**	10	EPA 8081	6-23-10	6-25-10	
Endosulfan II	**ND**	21	EPA 8081	6-23-10	6-25-10	
Endsulfan Sulfate	**110**	21	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*45*	*30-100*				
DCB	*67*	*30-118*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-26-0.3-0.5'**					
Laboratory ID:	06-154-39					
Endosulfan I	**2500**	200	EPA 8081	6-23-10	6-25-10	
Endosulfan II	**3200**	390	EPA 8081	6-23-10	6-25-10	
Endsulfan Sulfate	**2100**	390	EPA 8081	6-23-10	6-25-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-100*				
DCB	*65*	*30-118*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0623S1					
Endosulfan I	**ND**	5.0	EPA 8081	6-23-10	6-24-10	
Endosulfan II	**ND**	10	EPA 8081	6-23-10	6-24-10	
Endsulfan Sulfate	**ND**	10	EPA 8081	6-23-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*78*	*30-100*				
DCB	*75*	*30-118*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A MS/MSD QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	06-154-10										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**34.4**	**36.4**	50.0	50.0	ND	**69**	**73**	26-101	6	10	
Heptachlor	**37.4**	**42.6**	50.0	50.0	ND	**75**	**85**	40-80	13	12	
Aldrin	**47.0**	**42.5**	50.0	50.0	ND	**94**	**85**	31-73	10	15	
Dieldrin	**81.0**	**88.1**	125	125	ND	**65**	**71**	23-98	8	17	
Endrin	**82.8**	**87.4**	125	125	ND	**66**	**70**	20-66	5	11	
4,4'-DDT	**91.7**	**95.9**	125	125	ND	**73**	**77**	20-110	4	21	
Surrogate:											
TCMX						*69*	*67*	*30-100*			
DCB						*66*	*63*	*30-118*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RINSATE-1-061710**					
Laboratory ID:	06-154-43					
Endosulfan I	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Endosulfan II	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Endsulfan Sulfate	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-90*				
DCB	*72*	*30-120*				
Client ID:	**RINSATE-2-061710**					
Laboratory ID:	06-154-44					
Endosulfan I	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Endosulfan II	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Endsulfan Sulfate	**ND**	0.0048	EPA 8081	6-22-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-90*				
DCB	*74*	*30-120*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0622W1					
Endosulfan I	**ND**	0.0050	EPA 8081	6-22-10	6-24-10	
Endosulfan II	**ND**	0.0050	EPA 8081	6-22-10	6-24-10	
Endsulfan Sulfate	**ND**	0.0050	EPA 8081	6-22-10	6-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*57*	*30-90*				
DCB	*80*	*30-120*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0622W1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**0.0370**	**0.0357**	0.0500	0.0500	N/A	**74**	**71**	41-94	4	13	
Heptachlor	**0.0383**	**0.0363**	0.0500	0.0500	N/A	**77**	**73**	39-89	5	14	
Aldrin	**0.0344**	**0.0325**	0.0500	0.0500	N/A	**69**	**65**	37-82	6	19	
Dieldrin	**0.0945**	**0.0931**	0.125	0.125	N/A	**76**	**74**	48-98	1	13	
Endrin	**0.101**	**0.104**	0.125	0.125	N/A	**81**	**83**	30-100	3	14	
4,4'-DDT	**0.168**	**0.120**	0.125	0.125	N/A	**135**	**96**	55-104	33	13	I,L
Surrogate:											
TCMX						*62*	*61*	*30-90*			
DCB						*76*	*76*	*30-120*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 25, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154
Project: 5364-013-02

% MOISTURE

Date Analyzed: 6-23-10

Client ID	Lab ID	% Moisture
GEI-41-0.3-0.5	06-154-01	39
GEI-25-0.3-0.5	06-154-02	60
GEI-30-0.3-0.5	06-154-06	43
GEI-47-0.3-0.5'	06-154-08	32
GEI-46-0.3-0.5'	06-154-09	20
GEI-45-0.3-0.5'	06-154-10	29
GEI-31-0.3-0.5'	06-154-19	58
GEI-44-0.3-0.5'	06-154-21	38
GEI-43-0.3-0.5'	06-154-22	20
GEI-42-0.3-0.5'	06-154-23	39
GEI-29-0.3-0.5'	06-154-26	52
GEI-28-0.3-0.5'	06-154-31	28
GEI-27-0.3-0.5'	06-154-37	52
GEI-26-0.3-0.5'	06-154-39	49

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: Zanna Satterwhite
Sampled by: Fasih Khan

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 3-6 DAY TAT
(other) 6/25/10

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Organochlorine Pesticides	Endosulfans (I, II and Sulfate)	HOLD	% Moisture
1	GEI-41-0.3-0.5	6/17/10	1000	Soil	1														X	X		X
2	GEI-25-0.3-0.5	6/17/10	1030		1														X	X		X
3	GEI-25-0.8-1.0'		1035		1																X	
4	GEI-32-0.3-0.5'		1045		1																X	
5	GEI-32-0.8-1.0'		1050		1																X	
6	GEI-30-0.3-0.5		1100		1														X			X
7	GEI-30-0.8-1.0'		1105		1																X	
8	GEI-47-0.3-0.5'		1115		1														X	X		X
9	GEI-46-0.3-0.5'		1125		1														X	X		X
10	GEI-45-0.3-0.5'		1130		1														X	X		X

	Signature	Company	Date	Time
Relinquished by		GeoEngineers	6/18/10	1220
Received by		OSE	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
Endosulfans testing includes
Endosulfan I
Endosulfan II and
Endosulfan Sulfate
Call Fasih Khan 409-338-2986

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: FASIH KHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)

(TPH analysis 5 working days)

- ☒ 3-6 Days TAT
- (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Endosulfans (I, II and Sulfate)	HOLD	% Moisture
11	GEI-39-0.3-0.5'	6/17/10	1145	Soil	1															X	
12	GEI-39-0.8-1.0'		1150																	X	
~~13~~	~~GEI-39-0.8-1.0' DUP~~		1151																		
13 14	GEI-36-0.3-0.5'		1200																	X	
14 15	GEI-36-0.8-1.0'		1205																	X	
15 16	GEI-40-0.3-0.5'		120																	X	
16 17	GEI-40-0.8-1.0'		125																	X	
17 18	GEI-37-0.3-0.5'		138																	X	
18	GEI-37-0.8-1.0'		140																	X	
19	GEI-31-0.3'-0.5'		145																X		X

	Signature	Company	Date	Time
Relinquished by		GEOENGINEERS	6/18/10	1220
Received by			6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Endosulfans test includes:
Endosulfan I
Endosulfan II and
Endosulfan Sulfate

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEO ENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: FASI KHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)

(TPH analysis 5 working days)

- ☒ 3-6 DAYS TAT
- (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Endosulfans I, II, and Sulfate	HOLD			% Moisture
20	GEI-39-0.8-1.0'	6/17/10	1148	Soil	1															X			
21	GEI-44-0.3-0.5'		1155																X				X
22	GEI-43-0.3-0.5'		2053																X				X
23	GEI-42-0.3-0.5'		210																X				X
24	GEI-35-0.3-0.5'		230																	X			
25	GEI-35-0.8-1.0'		235																	X			
	~~GEI-35-0.8-1.0-DUP~~		~~238~~																				
26	GEI-29-0.3-0.5'		245																X				X
27	GEI-29-0.8-1.0'		252																	X			
28	GEI-48-0.3-0.5'		250																	X			

	Signature	Company	Date	Time
Relinquished by		GEO ENGINEERS	6/18/10	1220
Received by		CORE	6/18/10	1200
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Endosulfans tests include:
Endosulfan I
Endosulfan II
Endosulfan Sulfates.

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEO ENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA ZATTERWHITE
Sampled by: FAISAL KHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)

(TPH analysis 5 working days)

☒ 3-6 day TAT (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans (I, II and Sulfate)	HOLD			% Moisture
29	GEI-49-0.3-0.5'	6/17/10	300	Soil	1																X			
30	~~GEI-~~50-0.3-0.5		~~330~~		1																X			
31	~~GEI-~~28-0.3-0.5		330		1															X				X
32	~~GEI-~~28-0.8-1.0		335		1																X			
33	GEI-34-0.3-0.5'		345		1																X			
34	~~GEI-~~34-0.8-1.0		350		1																X			
	~~GEI-34-0.8-1.0-DUP~~		352		1																			
35	GEI-38-0.3-0.5		400		1																X			
36	GEI-38-0.8-1.0'		405		1																X			
37	GEI-27-0.3-0.5		425		1															X				X

	Signature	Company	Date	Time
Relinquished by		GEO ENGINEERS	6/17/10	1220
Received by			6/18/10	1200
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
Endosulfan tests include:
Endosulfan I
Endosulfan II
Endosulfan Sulfate

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: ~~FAST~~ KHAN

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 3-6 DAYS ~~TAT~~
(other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans (I and II)		HOLD			% Moisture
38	GEI-27-0.8-1.0'	6/17/10	430	Soil	1																	X			
39	GEI-26-0.3-0.5'		450	Soil	1															X					X
40	GEI-26-0.8-1.0		455	Soil	1																	X			
	~~GEI-26-0.8-1.0-DUP~~		~~457~~	~~Soil~~	1																				
~~4~~																									
41	GEI-33-0.3-0.5'		500	Soil	1																	X			
42	GEI-33-0.8-1.0'		505	Soil	1																	X			
43	RINSATE-1-061710		130		1															X					
44	RINSATE-2-061710		600		1															X					

	Signature	Company	Date	Time
Relinquished by	[signature]	G. Engineer	6/18/10	1220
Received by	[signature]	GEI	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Endosulfan test includes:
Endosulfan I
Endosulfan II and
Endosulfan Sulfate

Reviewed by/Date

Reviewed by/Date

☐ Chromatograms with final report

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GSI
Project Number: S364-013-02
Project Name: TAXIWAY F
Project Manager: ZANNA SATTERWHITE
Sampled by: FASIL ICHMAN

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☐ _____ (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans (I, II and Sulfate)		HOLD			% Moisture
45	DUP-1-061710	6/17/10	1151	Soil	1																	X			
46	DUP-2-061710	6/17/10	237	Soil	1																	X			
47	DUP-3-061710	6/17/10	252	Soil	1																	X			
48	DUP-4-061710	6/17/10	457	Soil	1																	X			

	Signature	Company	Date	Time
Relinquished by		GSI	6/18/10	1220
Received by		OSE	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions

Endosulfan test includes: Endosulfan I Endosulfan II and Endosulfan Sulfate

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 15, 2010

Zanna Satterwhite
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-02
Laboratory Reference No. 1006-154B

Dear Zanna:

Enclosed are the analytical results and associated quality control data for samples submitted on June 18, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

Case Narrative

Samples were collected on June 17, 2010 and received by the laboratory on June 18, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory Report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides (soil) by EPA 8081A Analysis

Analysis of sample GEI-33-0.8-1.0' was requested after the hold time had expired.

An MS/MSD of this sample had two RPD's outside of control limits. This was attributed to sample matrix interference. An SB/SBD extracted with this batch had all parameters within control limits, no further action was taken.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GEI-26-0.8-1.0	06-154-40	Soil	6-17-10	6-18-10	
GEI-33-0.3-0.5'	06-154-41	Soil	6-17-10	6-18-10	
GEI-33-6.8-1.01'	06-154 42	Soil	6-17-10	6-18-10	
DUP-4-061710	06-154-48	Soil	6-17-10	6-18-10	

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-26-0.8-1.0**					
Laboratory ID:	06-154-40					
Endosulfan I	**470**	7.9	EPA 8081	6-29-10	7-2-10	
Endosulfan II	**380**	16	EPA 8081	6-29-10	7-2-10	
Endsulfan Sulfate	**250**	16	EPA 8081	6-29-10	7-2-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***65***	***30-100***				
DCB	***74***	***30-118***				
Client ID:	**GEI-33-0.3-0.5'**					
Laboratory ID:	06-154-41					
Endosulfan I	**880**	8.2	EPA 8081	6-29-10	7-2-10	
Endosulfan II	**1700**	16	EPA 8081	6-29-10	7-2-10	
Endsulfan Sulfate	**2200**	16	EPA 8081	6-29-10	7-2-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***59***	***30-100***				
DCB	***63***	***30-118***				
Client ID:	**DUP-4-0617-10**					
Laboratory ID:	06-154-48					
Endosulfan I	**320**	5.0	EPA 8081	6-29-10	7-2-10	
Endosulfan II	**350**	10	EPA 8081	6-29-10	7-2-10	
Endsulfan Sulfate	**250**	10	EPA 8081	6-29-10	7-2-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***59***	***30-100***				
DCB	***63***	***30-118***				

This Report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629S1					
Endosulfan I	**ND**	5.0	EPA 8081	6-29-10	7-2-10	
Endosulfan II	**ND**	10	EPA 8081	6-29-10	7-2-10	
Endsulfan Sulfate	**ND**	10	EPA 8081	6-29-10	7-2-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***75***	***30-100***				
DCB	***84***	***30-118***				

This Report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A MS/MSD QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	06-154-48										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**30.5**	**29.2**	50.0	50.0	ND	**61**	**58**	26-101	4	10	
Heptachlor	**33.4**	**32.4**	50.0	50.0	ND	**67**	**65**	40-80	3	12	
Aldrin	**29.1**	**27.4**	50.0	50.0	ND	**58**	**55**	31-73	6	15	
Dieldrin	**77.7**	**72.0**	125	125	ND	**62**	**58**	23-98	8	17	
Endrin	**89.0**	**85.4**	125	125	ND	**71**	**68**	20-66	4	11	
4,4'-DDT	**90.0**	**82.1**	125	125	ND	**72**	**66**	20-110	9	21	
Surrogate:											
TCMX						***65***	***63***	***30-100***			
DCB						***72***	***69***	***30-118***			

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-33-0.8-1.0'**					
Laboratory ID:	06-154-42					
Endosulfan I	**210**	6.6	EPA 8081	7-14-10	7-14-10	
Endosulfan II	**540**	13	EPA 8081	7-14-10	7-14-10	
Endsulfan Sulfate	**830**	13	EPA 8081	7-14-10	7-14-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***64***	***30-100***				
DCB	***72***	***30-118***				

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

ORGANOCHLORINE PESTICIDES by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0714S1					
Endosulfan I	**ND**	5.0	EPA 8081	7-14-10	7-14-10	
Endosulfan II	**ND**	10	EPA 8081	7-14-10	7-14-10	
Endsulfan Sulfate	**ND**	10	EPA 8081	7-14-10	7-14-10	
Surrogate:	***Percent Recovery***	***Control Limits***				
TCMX	***79***	***30-100***				
DCB	***91***	***30-118***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	06-154-42										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**26.8**	**29.5**	50.0	50.0	ND	**54**	**59**	26-101	10	10	
Heptachlor	**29.2**	**34.4**	50.0	50.0	ND	**58**	**69**	40-80	16	12	L
Aldrin	**27.4**	**28.6**	50.0	50.0	ND	**55**	**57**	31-73	4	15	
Dieldrin	**67.1**	**72.2**	125	125	ND	**54**	**58**	23-98	7	17	
Endrin	**60.5**	**69.5**	125	125	ND	**48**	**56**	20-66	14	11	L
4,4'-DDT	**75.1**	**79.9**	125	125	ND	**60**	**64**	20-110	6	21	
Surrogate:											
TCMX						***61***	***60***	***30-100***			
DCB						***68***	***68***	***30-118***			

This Report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2010
Samples Submitted: June 18, 2010
Laboratory Reference: 1006-154B
Project: 5364-013-02

% MOISTURE

Date Analyzed: 6-29-10&7-10

Client ID	Lab ID	% Moisture
GEI-26-0.8-1.0	06-154-40	37
GEI-33-0.3-0.5'	06-154-41	39
GEI-33-6.8-1.01'	06-154-42	24
DUP-4-061710	06-154-48	39

This Report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value Reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value Reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the Reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This Report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GeoEngineers
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: Fasih Khan

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 3-6 DAY TAT
(other) 6/25/10

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Endosulfans (I, II and Sulfate)		HOLD		% Moisture
1	GEI-41-0.3-0.5	6/17/10	1060	Soil	1														X				X
2	GEI-25-0.3-0.5	6/17/10	1030		1														X				X
3	GEI-25-0.8-1.0'		1035		1																X		
4	GEI-32-0.3-0.5'		1045		1																X		
5	GEI-32-0.8-1.0'		1050		1																X		
6	GEI-30-0.3-0.5		1100		1														X				X
7	GEI-30-0.8-1.0'		1105		1																X		
8	GEI-47-0.3-0.5'		1115		1														X				X
9	GEI-46-0.3-0.5'		1125		1														X				X
10	GEI-45-0.3-0.5'		1130		1														X				X

	Signature	Company	Date	Time
Relinquished by	[signature]	GeoEngineers	6/18/10	1220
Received by	[signature]	OSE	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
Endosulfans testing includes
Endosulfan I
Endosulfan II and
Endosulfan Sulfate
Call Fasih Khan 409-338-2986

Chromatograms with final report ☐ ① Added 7/7/10 DB STA
② Added 6/28/10. DD STA

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: FASIH KHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
  (TPH analysis 5 working days)
- ☒ 3-6 Days TAT
  (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Endosulfans (I, II and Sulfate)	HOLD	% Moisture
11	GEI-39-0.3-0.5'	6/17/10	1145	Soil	1															X	
12	GEI-39-0.8-1.0'		1150																	X	
~~13~~	~~GEI-39-0.8-1.0' DUP~~		~~1151~~																		
13 14	GEI-36-0.3-0.5'		1200																	X	
14 15	GEI-36-0.8-1.0'		1205																	X	
15 16	GEI-40-0.3-0.5'		120																	X	
16 17	GEI-40-0.8-1.0'		125																	X	
17 18	GEI-37-0.3-0.5'		138																	X	
18	GEI-37-0.8-1.0'		140																	X	
19	GEI-31-0.3'-0.5'		145																X		X

	Signature	Company	Date	Time
Relinquished by		GEOENGINEERS	6/18/10	1220
Received by			6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
Endosulfans test includes:
Endosulfan I
Endosulfan II and
Endosulfan Sulfate

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEO ENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATURNITE
Sampled by: FAISAL KHAN

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)

(TPH analysis 5 working days)

- ☒ 3-6 DAYS TAT
- (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans I, II and Sulfate	HOLD			% Moisture
20	GEI-37-0.8-1.0'	6/17/10	1148	Soil	1																X			
21	GEI-44-0.3-0.5'		1155																	X				X
22	GEI-~~43~~-0.3-0.5'		~~2053~~																	X				X
23	GEI-42-0.3-0.5'		210																	X				X
24	GEI-35-0.3-0.5'		230																		X			
25	GEI-35-0.8-1.0'		235																		X			
	~~GEI-35-0.8-1.0-DUP~~		~~238~~																					
26	GEI-29-0.3-0.5'		245																	X				X
27	GEI-29-0.8-1.0'		250																		X			
28	GEI-48-0.3-0.5'		250																		X			

	Signature	Company	Date	Time
Relinquished by		GEO ENGINEERS	6/18/10	1220
Received by			6/18/10	1200
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Endosulfans tests include:
Endosulfan I
Endosulfan II
Endosulfan Sulfates.

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 06-154

Company: GEO ENGINEERS
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA ZATTERWHITE
Sampled by: FASIL KHAN

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 3-6 day TAT
(other)

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans I and II	HOLD			% Moisture
29	GEI-49-0.3-0.5'	6/17/10	300	Soil	1																X			
30	GEI-50-0.3-0.5		320		1																X			
31	GEI-20-0.3-0.5		330		1															X				X
32	GEI-28-0.8-1.0		335		1																X			
33	GEI-34-0.3-0.5'		345		1																X			
34	GEI-34-0.8-1.0		350		1																X			
~~—~~	~~GEI-34-0.8-1.0-DUP~~		~~352~~		1																			
35	GEI-38-0.3-0.5		400		1																X			
36	GEI-38-0.8-1.0'		405		1																X			
37	GEI-27-0.3-0.5		425		1															X				X

	Signature	Company	Date	Time
Relinquished by		GEO ENGINEERS	6/17/10	1220
Received by			6/18/10	1200
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
Endosulfan tests include:
Endosulfan I
Endosulfan II
Endosulfan Sulfate

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-02
Project Name: Taxiway F
Project Manager: ZANNA SATTERWHITE
Sampled by: FAISAL KHAN

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☒ 3-6 DAYS STAT
(other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans I, I & Sulfate		HOLD			% Moisture
38	GEI-27-0.8-1.0'	6/17/10	430	Soil	1																	X			
39	GEI-26-0.3-0.5'		450	Soil	1																X				X
40	GEI-26-0.8-1.0		455	Soil	1																⊗	X			⊗
	GEI-26-0.8-1.0-DUP		457	Soil	1																				
41	GEI-33-0.3-0.5'		500	Soil	1																⊗	X			⊗
42	GEI-33-0.8-1.0'		505	Soil	1																O	X			O
43	RINSATE-1-061710		130		1																X				
44	RINSATE-2-061710		600		1																X				

	Signature	Company	Date	Time
Relinquished by	[signature]	G. Engineer	6/18/10	1220
Received by	[signature]	GEI	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

Endosulfan test includes:
Endosulfan I
Endosulfan II and
Endosulfan Sulfate
⊗ Added 6/28/10. DB STAT
O Added 7/7/10. DB STAT

Chromatograms with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GBI
Project Number: 5364-013-02
Project Name: TAXIWAY F
Project Manager: ZANNA SATTERWHITE
Sampled by: FASI ICHAN

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
(TPH analysis 5 working days)
☐ _____ (other)

Laboratory Number: 06-154

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D / SIM	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664		Endosulfans (I, II and Sulfate)		HOLD			% Moisture
45	DUP-1-061710	6/17/10	1151	Soil	1																	X			
46	DUP-2-061710	6/17/10	237	Soil	1																	X			
47	DUP-3-061710	6/17/10	252	Soil	1																	X			
48	DUP-4-061710	6/17/10	457	Soil	1															⊗		X			⊗

	Signature	Company	Date	Time
Relinquished by		GBI	6/18/10	1220
Received by		OSE	6/18/10	1220
Relinquished by				
Received by				
Relinquished by				
Received by				

Comments/Special Instructions:
Endosulfans test includes:
Endosulfan I
Endosulfan II and
Endosulfan Sulfate
⊗ Added 6/28/10. DB STA

Reviewed by/Date

Reviewed by/Date

Chromatograms with final report ☐

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OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 29, 2010

Rob Leet
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-01
Laboratory Reference No. 1009-161

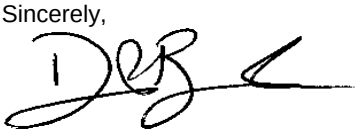
Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on September 17, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

Case Narrative

Samples were collected on September 16, 2010 and received by the laboratory on September 17, 2010. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GEI-MW-4	09-161-01	Water	9-16-10	9-17-10	
GEI-MW-4F	09-161-02	Water	9-16-10	9-17-10	
GEI-MW-5	09-161-03	Water	9-16-10	9-17-10	
GEI-MW-5F	09-161-04	Water	9-16-10	9-17-10	
GEI-MW-6	09-161-05	Water	9-16-10	9-17-10	
GEI-MW-6F	09-161-06	Water	9-16-10	9-17-10	
GEI-MW-7	09-161-07	Water	9-16-10	9-17-10	
GEI-MW-7F	09-161-08	Water	9-16-10	9-17-10	
GEI-MW-8	09-161-09	Water	9-16-10	9-17-10	
GEI-MW-8F	09-161-10	Water	9-16-10	9-17-10	
RINSE	09-161-11	Water	9-16-10	9-17-10	
FD-091610	09-161-12	Water	9-16-10	9-17-10	

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4**					
Laboratory ID:	09-161-01					
alpha-BHC	**0.082**	0.0048	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**0.025**	0.0048	EPA 8081	9-21-10	9-22-10	P
beta-BHC	**0.11**	0.0048	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**0.11**	0.0048	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.0093**	0.0048	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.051**	0.0048	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**4.4**	0.48	EPA 8081	9-21-10	9-27-10	P
Dieldrin	**0.10**	0.0048	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**1.5**	0.48	EPA 8081	9-21-10	9-27-10	
4,4'-DDT	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0096	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**8.6**	0.48	EPA 8081	9-21-10	9-27-10	P
Endrin Ketone	**ND**	0.019	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.048	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*40*	*30-90*				
DCB	*92*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4F**					
Laboratory ID:	09-161-02					
alpha-BHC	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
beta-BHC	**0.037**	0.0048	EPA 8081	9-21-10	9-22-10	
delta-BHC	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**0.13**	0.0048	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.022**	0.0048	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.024**	0.0048	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.75**	0.096	EPA 8081	9-21-10	9-27-10	P
Dieldrin	**0.047**	0.0048	EPA 8081	9-21-10	9-22-10	P
Endrin	**0.12**	0.0048	EPA 8081	9-21-10	9-22-10	P
4,4'-DDD	**0.15**	0.0048	EPA 8081	9-21-10	9-22-10	P
Endosulfan II	**0.11**	0.0048	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0048	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0097	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**3.3**	0.096	EPA 8081	9-21-10	9-27-10	P
Endrin Ketone	**ND**	0.019	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.048	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*45*	*30-90*				
DCB	*68*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5**					
Laboratory ID:	09-161-03					
alpha-BHC	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
beta-BHC	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
delta-BHC	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
alpha-Chlordane	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0051	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.010	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.015**	0.0051	EPA 8081	9-21-10	9-22-10	P
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.051	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*36*	*30-90*				
DCB	*38*	*30-120*				

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Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5F**					
Laboratory ID:	09-161-04					
alpha-BHC	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
gamma-BHC	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
beta-BHC	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
delta-BHC	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Heptachlor	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Aldrin	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Heptachlor Epoxide	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
gamma-Chlordane	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
alpha-Chlordane	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
4,4'-DDE	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Endosulfan I	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Dieldrin	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Endrin	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
4,4'-DDD	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Endosulfan II	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
4,4'-DDT	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Endrin Aldehyde	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Methoxychlor	**ND**	0.010	EPA 8081	9-23-10	9-24-10	
Endsulfan Sulfate	**ND**	0.0052	EPA 8081	9-23-10	9-24-10	
Endrin Ketone	**ND**	0.021	EPA 8081	9-23-10	9-24-10	
Toxaphene	**ND**	0.052	EPA 8081	9-23-10	9-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*41*	*30-90*				
DCB	*59*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6**					
Laboratory ID:	09-161-05					
alpha-BHC	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**0.052**	0.0049	EPA 8081	9-21-10	9-22-10	P
beta-BHC	**0.14**	0.0049	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**0.057**	0.0049	EPA 8081	9-21-10	9-22-10	P
Heptachlor	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**0.044**	0.0049	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.072**	0.0049	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.055**	0.0049	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.15**	0.0049	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**0.012**	0.0049	EPA 8081	9-21-10	9-22-10	P
Endosulfan II	**0.17**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**0.046**	0.0049	EPA 8081	9-21-10	9-22-10	P
Methoxychlor	**ND**	0.0098	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.18**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.049	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*48*	*30-90*				
DCB	*82*	*30-120*				

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Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6F**					
Laboratory ID:	09-161-06					
alpha-BHC	**0.0072**	0.0047	EPA 8081	9-21-10	9-22-10	P
gamma-BHC	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
beta-BHC	**0.10**	0.0047	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**0.062**	0.0047	EPA 8081	9-21-10	9-22-10	P
Heptachlor	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**0.044**	0.0047	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.059**	0.0047	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.037**	0.0047	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.11**	0.0047	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**0.010**	0.0047	EPA 8081	9-21-10	9-22-10	P
Endosulfan II	**0.044**	0.0047	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**0.041**	0.0047	EPA 8081	9-21-10	9-22-10	P
Methoxychlor	**ND**	0.0095	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.17**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.019	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.047	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*51*	*30-90*				
DCB	*80*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7**					
Laboratory ID:	09-161-07					
alpha-BHC	**0.040**	0.0049	EPA 8081	9-21-10	9-22-10	P
gamma-BHC	**0.076**	0.0049	EPA 8081	9-21-10	9-22-10	P
beta-BHC	**0.012**	0.0049	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**0.081**	0.0049	EPA 8081	9-21-10	9-22-10	
Heptachlor	**0.066**	0.0049	EPA 8081	9-21-10	9-22-10	P
Aldrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**0.050**	0.0049	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.098**	0.0049	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**0.023**	0.0049	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.14**	0.0049	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin	**0.044**	0.0049	EPA 8081	9-21-10	9-22-10	P
4,4'-DDD	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**0.16**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**0.033**	0.0049	EPA 8081	9-21-10	9-22-10	P
Endrin Aldehyde	**0.087**	0.0049	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0099	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.17**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.049	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-90*				
DCB	*78*	*30-120*				

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Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7F**					
Laboratory ID:	09-161-08					
alpha-BHC	**0.072**	0.0050	EPA 8081	9-21-10	9-22-10	P
gamma-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
beta-BHC	**0.021**	0.0050	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**0.078**	0.0050	EPA 8081	9-21-10	9-22-10	P
Heptachlor	**0.023**	0.0050	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**0.0099**	0.0050	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.14**	0.0050	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.041**	0.0050	EPA 8081	9-21-10	9-22-10	P
Dieldrin	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin	**0.031**	0.0050	EPA 8081	9-21-10	9-22-10	P
4,4'-DDD	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**0.050**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**0.018**	0.0050	EPA 8081	9-21-10	9-22-10	P
Endrin Aldehyde	**0.048**	0.0050	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.010	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.048**	0.0050	EPA 8081	9-21-10	9-22-10	P
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.050	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-90*				
DCB	*76*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8**					
Laboratory ID:	09-161-09					
alpha-BHC	**0.018**	0.0050	EPA 8081	9-21-10	9-22-10	P
gamma-BHC	**0.026**	0.0050	EPA 8081	9-21-10	9-22-10	P
beta-BHC	**0.10**	0.0050	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Aldrin	**0.027**	0.0050	EPA 8081	9-21-10	9-22-10	P
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
alpha-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.13**	0.0050	EPA 8081	9-21-10	9-22-10	
Dieldrin	**0.047**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin	**0.020**	0.0050	EPA 8081	9-21-10	9-22-10	P
4,4'-DDD	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**0.14**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0099	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.16**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.050	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*41*	*30-90*				
DCB	*97*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8F**					
Laboratory ID:	09-161-10					
alpha-BHC	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**0.069**	0.0049	EPA 8081	9-21-10	9-22-10	P
beta-BHC	**0.082**	0.0049	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**0.022**	0.0049	EPA 8081	9-21-10	9-22-10	P
Heptachlor	**0.021**	0.0049	EPA 8081	9-21-10	9-22-10	
Aldrin	**0.055**	0.0049	EPA 8081	9-21-10	9-22-10	P
Heptachlor Epoxide	**0.095**	0.0049	EPA 8081	9-21-10	9-22-10	P
gamma-Chlordane	**0.0099**	0.0049	EPA 8081	9-21-10	9-22-10	P
alpha-Chlordane	**0.062**	0.0049	EPA 8081	9-21-10	9-22-10	P
4,4'-DDE	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**0.16**	0.0049	EPA 8081	9-21-10	9-22-10	
Dieldrin	**0.023**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**0.047**	0.0049	EPA 8081	9-21-10	9-22-10	P
Endosulfan II	**0.13**	0.0049	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0049	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0097	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.094**	0.0049	EPA 8081	9-21-10	9-22-10	P
Endrin Ketone	**ND**	0.019	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.049	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*45*	*30-90*				
DCB	*52*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RINSE**					
Laboratory ID:	09-161-11					
alpha-BHC	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
beta-BHC	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
delta-BHC	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
alpha-Chlordane	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0095	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**ND**	0.0047	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.019	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.047	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*61*	*30-90*				
DCB	*76*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FD-091610**					
Laboratory ID:	09-161-12					
alpha-BHC	**0.019**	0.0050	EPA 8081	9-21-10	9-22-10	P
gamma-BHC	**0.038**	0.0050	EPA 8081	9-21-10	9-22-10	
beta-BHC	**0.096**	0.0050	EPA 8081	9-21-10	9-22-10	P
delta-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Heptachlor	**0.035**	0.0050	EPA 8081	9-21-10	9-22-10	
Aldrin	**0.021**	0.0050	EPA 8081	9-21-10	9-22-10	P
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
alpha-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**1.0**	0.10	EPA 8081	9-21-10	9-27-10	
Dieldrin	**0.039**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin	**0.023**	0.0050	EPA 8081	9-21-10	9-22-10	P
4,4'-DDD	**0.054**	0.0050	EPA 8081	9-21-10	9-22-10	P
Endosulfan II	**0.13**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.0100	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**0.17**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.050	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*44*	*30-90*				
DCB	*85*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-4**					
Laboratory ID:	09-161-01					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**0.83**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**24**	4.4	EPA 8151	9-18-10	9-27-10	
MCPA	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-D	**0.25**	0.022	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0090	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**1.1**	0.023	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**0.13**	0.023	EPA 8151	9-18-10	9-27-10	P
2,4-DB	**0.087**	0.045	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**14**	0.44	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*50*	*30-101*				
Client ID:	**GEI-MW-4F**					
Laboratory ID:	09-161-02					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**0.57**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**180**	4.5	EPA 8151	9-18-10	9-27-10	P
MCPA	**ND**	4.5	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**0.16**	0.023	EPA 8151	9-18-10	9-27-10	P
2,4-D	**0.41**	0.022	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0091	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**0.93**	0.023	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**0.058**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-DB	**0.27**	0.045	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**9.2**	0.46	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*45*	*30-101*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-5**					
Laboratory ID:	09-161-03					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-27-10	
Dicamba	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
MCPP	**ND**	4.7	EPA 8151	9-18-10	9-27-10	
MCPA	**ND**	4.7	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.024	EPA 8151	9-18-10	9-27-10	
2,4-D	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0095	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**0.086**	0.024	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.024	EPA 8151	9-18-10	9-27-10	
2,4-DB	**ND**	0.047	EPA 8151	9-18-10	9-27-10	
Dinoseb	**ND**	0.024	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*53*	*30-101*				
Client ID:	**GEI-MW-5F**					
Laboratory ID:	09-161-04					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
MCPA	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-D	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0090	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-DB	**ND**	0.045	EPA 8151	9-18-10	9-27-10	
Dinoseb	**0.16**	0.022	EPA 8151	9-18-10	9-27-10	P
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*62*	*30-101*				

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Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-6**					
Laboratory ID:	09-161-05					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-27-10	
Dicamba	**2.2**	0.023	EPA 8151	9-18-10	9-27-10	
MCPP	**410**	4.6	EPA 8151	9-18-10	9-27-10	
MCPA	**53**	4.6	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-D	**14**	0.46	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**0.29**	0.0094	EPA 8151	9-18-10	9-27-10	P
2,4,5-TP (Silvex)	**0.052**	0.024	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-DB	**1.8**	0.047	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**2.3**	0.023	EPA 8151	9-18-10	9-27-10	P
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*56*	*30-101*				
Client ID:	**GEI-MW-6F**					
Laboratory ID:	09-161-06					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**2.8**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**650**	88	EPA 8151	9-18-10	9-27-10	P
MCPA	**55**	4.4	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-D	**12**	0.44	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**0.28**	0.0090	EPA 8151	9-18-10	9-27-10	P
2,4,5-TP (Silvex)	**0.052**	0.023	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-DB	**56**	0.90	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**1.8**	0.022	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*94*	*30-101*				

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Date of Report: September 29, 2010
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Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-7**					
Laboratory ID:	09-161-07					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**0.21**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**2900**	90	EPA 8151	9-18-10	9-27-10	P
MCPA	**ND**	4.5	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-D	**29**	0.44	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0091	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**1.1**	0.023	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**2.1**	0.023	EPA 8151	9-18-10	9-27-10	P
2,4-DB	**ND**	0.045	EPA 8151	9-18-10	9-27-10	
Dinoseb	**3.6**	0.46	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*69*	*30-101*				
Client ID:	**GEI-MW-7F**					
Laboratory ID:	09-161-08					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**0.19**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**2300**	88	EPA 8151	9-18-10	9-27-10	P
MCPA	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-D	**46**	0.44	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0090	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**1.8**	0.022	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-DB	**0.16**	0.045	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**1.8**	0.022	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*56*	*30-101*				

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Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**GEI-MW-8**					
Laboratory ID:	09-161-09					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-27-10	
Dicamba	**6.4**	0.48	EPA 8151	9-18-10	9-27-10	
MCPP	**1200**	94	EPA 8151	9-18-10	9-27-10	P
MCPA	**160**	4.7	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**0.90**	0.024	EPA 8151	9-18-10	9-27-10	P
2,4-D	**69**	0.48	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**0.43**	0.0095	EPA 8151	9-18-10	9-27-10	P
2,4,5-TP (Silvex)	**4.2**	0.48	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**0.26**	0.024	EPA 8151	9-18-10	9-27-10	
2,4-DB	**0.73**	0.047	EPA 8151	9-18-10	9-27-10	P
Dinoseb	**180**	48	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*49*	*30-101*				
Client ID:	**GEI-MW-8F**					
Laboratory ID:	09-161-10					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-28-10	
Dicamba	**4.2**	0.48	EPA 8151	9-18-10	9-28-10	
MCPP	**ND**	4.7	EPA 8151	9-18-10	9-28-10	
MCPA	**210**	4.7	EPA 8151	9-18-10	9-28-10	
Dichlorprop	**ND**	0.024	EPA 8151	9-18-10	9-28-10	
2,4-D	**50**	0.48	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**0.13**	0.0095	EPA 8151	9-18-10	9-28-10	P
2,4,5-TP (Silvex)	**3.2**	0.48	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**1.5**	0.024	EPA 8151	9-18-10	9-28-10	P
2,4-DB	**ND**	0.047	EPA 8151	9-18-10	9-28-10	
Dinoseb	**76**	48	EPA 8151	9-18-10	9-28-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*84*	*30-101*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RINSE**					
Laboratory ID:	09-161-11					
Dalapon	**ND**	0.22	EPA 8151	9-18-10	9-27-10	
Dicamba	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
MCPP	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
MCPA	**ND**	4.4	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
2,4-D	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**ND**	0.0090	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**ND**	0.023	EPA 8151	9-18-10	9-27-10	
2,4-DB	**ND**	0.045	EPA 8151	9-18-10	9-27-10	
Dinoseb	**ND**	0.022	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*49*	*30-101*				
Client ID:	**FD-091610**					
Laboratory ID:	09-161-12					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-27-10	
Dicamba	**4.7**	0.48	EPA 8151	9-18-10	9-27-10	
MCPP	**45**	96	EPA 8151	9-18-10	9-27-10	P
MCPA	**130**	4.8	EPA 8151	9-18-10	9-27-10	
Dichlorprop	**ND**	0.024	EPA 8151	9-18-10	9-27-10	
2,4-D	**83**	0.48	EPA 8151	9-18-10	9-27-10	
Pentachlorophenol	**0.11**	0.0097	EPA 8151	9-18-10	9-27-10	
2,4,5-TP (Silvex)	**3.3**	0.48	EPA 8151	9-18-10	9-27-10	
2,4,5-T	**0.16**	0.024	EPA 8151	9-18-10	9-27-10	
2,4-DB	**ND**	0.048	EPA 8151	9-18-10	9-27-10	
Dinoseb	**150**	48	EPA 8151	9-18-10	9-27-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*33*	*30-101*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921W1					
alpha-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
gamma-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
beta-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
delta-BHC	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Heptachlor	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Aldrin	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
gamma-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
alpha-Chlordane	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDE	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan I	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Dieldrin	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDD	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endosulfan II	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
4,4'-DDT	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Aldehyde	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Methoxychlor	**ND**	0.010	EPA 8081	9-21-10	9-22-10	
Endsulfan Sulfate	**ND**	0.0050	EPA 8081	9-21-10	9-22-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-21-10	9-22-10	
Toxaphene	**ND**	0.050	EPA 8081	9-21-10	9-22-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*48*	*30-90*				
DCB	*66*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A METHOD BLANK QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W2					
alpha-BHC	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
gamma-BHC	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
beta-BHC	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
delta-BHC	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Heptachlor	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Aldrin	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Heptachlor Epoxide	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
gamma-Chlordane	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
alpha-Chlordane	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
4,4'-DDE	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Endosulfan I	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Dieldrin	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Endrin	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
4,4'-DDD	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Endosulfan II	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
4,4'-DDT	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Endrin Aldehyde	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Methoxychlor	**ND**	0.010	EPA 8081	9-23-10	9-24-10	
Endsulfan Sulfate	**ND**	0.0050	EPA 8081	9-23-10	9-24-10	
Endrin Ketone	**ND**	0.020	EPA 8081	9-23-10	9-24-10	
Toxaphene	**ND**	0.050	EPA 8081	9-23-10	9-24-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-90*				
DCB	*84*	*30-120*				

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

ORGANOCHLORINE PESTICIDES by EPA 8081A SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0921W1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**0.0208**	**0.0214**	0.0500	0.0500	N/A	**42**	**43**	41-94	3	13	
Heptachlor	**0.0301**	**0.0309**	0.0500	0.0500	N/A	**60**	**62**	39-89	3	14	
Aldrin	**0.0285**	**0.0298**	0.0500	0.0500	N/A	**57**	**60**	37-82	4	19	
Dieldrin	**0.0810**	**0.0797**	0.125	0.125	N/A	**65**	**64**	48-98	2	13	
Endrin	**0.0848**	**0.0852**	0.125	0.125	N/A	**68**	**68**	30-100	0	14	
4,4'-DDT	**0.0831**	**0.0929**	0.125	0.125	N/A	**66**	**74**	55-104	11	13	
Surrogate:											
TCMX						*53*	*55*	*30-90*			
DCB						*77*	*73*	*30-120*			
Laboratory ID:	SB0923W2										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**0.0233**	**0.0219**	0.0500	0.0500	N/A	**47**	**44**	41-94	6	13	
Heptachlor	**0.0330**	**0.0304**	0.0500	0.0500	N/A	**66**	**61**	39-89	8	14	
Aldrin	**0.0332**	**0.0314**	0.0500	0.0500	N/A	**66**	**63**	37-82	6	19	
Dieldrin	**0.0886**	**0.0848**	0.125	0.125	N/A	**71**	**68**	48-98	4	13	
Endrin	**0.0927**	**0.0881**	0.125	0.125	N/A	**74**	**70**	30-100	5	14	
4,4'-DDT	**0.0910**	**0.0869**	0.125	0.125	N/A	**73**	**70**	55-104	5	13	
Surrogate:											
TCMX						*63*	*57*	*30-90*			
DCB						*78*	*76*	*30-120*			

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Date of Report: September 29, 2010
Samples Submitted: September 17, 2010
Laboratory Reference: 1009-161
Project: 5364-013-01

CHLORINATED ACID HERBICIDES by EPA 8151A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
Dalapon	**ND**	0.23	EPA 8151	9-18-10	9-23-10	
Dicamba	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
MCPP	**ND**	4.7	EPA 8151	9-18-10	9-23-10	
MCPA	**ND**	4.7	EPA 8151	9-18-10	9-23-10	
Dichlorprop	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
2,4-D	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
Pentachlorophenol	**ND**	0.0095	EPA 8151	9-18-10	9-23-10	
2,4,5-TP (Silvex)	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
2,4,5-T	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
2,4-DB	**ND**	0.047	EPA 8151	9-18-10	9-23-10	
Dinoseb	**ND**	0.024	EPA 8151	9-18-10	9-23-10	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*49*	*30-101*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0918W1										
	SB	SBD	SB	SBD		SB	SBD				
Dicamba	**0.531**	**0.523**	1.00	1.00	N/A	**53**	**52**	47-93	2	16	
2,4-D	**0.435**	**0.436**	1.00	1.00	N/A	**43**	**44**	37-98	0	14	
2,4,5-T	**0.450**	**0.457**	1.00	1.00	N/A	**45**	**46**	42-105	2	20	
2,4-DB	**0.452**	**0.468**	1.00	1.00	N/A	**45**	**47**	41-118	3	16	
Surrogate:											
DCAA						*57*	*56*	*30-101*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5364-013-01
Project Name: TAXIWAY-F-SITE/SKAGIT AIRPORT
Project Manager: ROB LEET
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 09-161

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Use Containers	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A GC/ECD	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A GC/MS-SIM	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664		# FILTERED IN FIELD					% Moisture
1	GEI-MW-4	9-16-10	2014	W	4										X		20					X					
2	GEI-MW-4F		2014		4										X		20					X					
3	GEI-MW-5		1658		4										X		X										
4	GEI-MW-5F		1658		4										X		X					X					
5	GEI-MW-6		1400		4										X		X										
6	GEI-MW-6F		1400		4										X		X					X					
7	GEI-MW-7		1108		4										X		X										
8	GEI-MW-7F		1108		4										X		X					X					
9	GEI-MW-8		0800		4										X		X										
10	GEI-MW-8F	9-16-10	0800	W	4										X		X					X					

	Signature	Company	Date	Time
Relinquished		GEOENGINEERS	9-17-10	
Received		OSE	9/17/10	1120
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* BOTTLES THAT WERE FIELD FILTERED ARE MARKED ON THE LABELS

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEOENGINEERS
Project Number: 5364.013-01
Project Name: TAXILWAY F SITE/SKAGIT AIRPORT
Project Manager: ROB LEET
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☑ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

Laboratory Number: 09-161

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A GC/ECD	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A GC/MS-SIM	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	% Moisture
11	RINSE	9-16-10	2030	W	4										X		X				
12	FD-091610	9-16-10	0930	W	4										X		X				

	Signature	Company	Date	Time
Relinquished		GEOENGINEERS	9-17-10	
Received			9/17/10	1120
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

DATA QUALITY ASSESSMENT
PESTICIDES BY USEPA METHOD 8081A, HERBICIDES BY USEPA METHOD 8151A
LABORATORY SAMPLE DELIVERY GROUP (SDG):
09-14003, 09-14084, 09-15234, 09-15379, 09-18626, 10-03399

Project: Skagit Regional Airport Taxiway F Site
(GeoEngineers Project 5364-013-010)

This report presents the results of a United States Environmental Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005) of analytical data from the analyses of soil and groundwater samples obtained at the Skagit Regional Airport Taxiway F Site. The data validation included verification and validation checks of the following quality control (QC) elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Blanks (method, trip and equipment rinsate)
- Surrogates (for organic compounds only)
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples
- Laboratory Duplicates
- Field Duplicates
- Column Confirmation %D Values
- Sample Results

I. DATA PACKAGE COMPLETENESS

Edge Analytical, located in Burlington, Washington, analyzed the submitted soil and water samples. The laboratory provided Forms I, II and III for the Stage 2A validation. The laboratory met the appropriate holding times for all samples. Section III summarizes the data quality assessment for the various elements reviewed and any data exceptions and qualifiers applied to the data. Based on the results of the assessment, the non-detect result for aldrin in the groundwater sample obtained from monitoring well GEI-MW-8 was rejected (due to 0% recovery of this compound in the associated matrix spike/matrix spike duplicate [MS/MSD] sample set). No other data were rejected.

II. OBJECTIVE

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;

- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

III. DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002) and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 2008).

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found, and the appropriate signatures were applied. In many cases, the forms indicated that the sample coolers were received at the laboratory within 4 hours of sampling. There were no anomalies mentioned in the sample receipt forms, as the samples were in the coolers for such a short time, temperatures were judged to be satisfactory.

HOLDING TIMES AND SAMPLE PRESERVATION

The holding time is defined as the time that elapses between sample collection and sample analysis. Recommended maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentrations present at the time of sample collection. Recommended holding times were met for all analyses.

METHOD, TRIP AND EQUIPMENT RINSATE BLANKS

Method blanks are analyzed to assess whether laboratory procedures or reagents may have introduced measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of project samples, at a frequency of one per twenty samples. No method blank detections were reported by the testing laboratory.

Trip blanks are analyzed to assess whether field sampling or sample transport processes may have introduced measurable concentrations of volatile analytes of interest into project samples. Since none of the analytes of interest for this project (pesticides and herbicides) are volatile, trip blanks were not analyzed for this project.

Equipment rinsate blanks are analyzed to assess whether sampling equipment decontamination procedures may have introduced measurable concentrations of the analytes of interest into project samples. Equipment rinsate blanks were analyzed with each field sampling event, at a frequency of one per day. No equipment rinsate blank detections were reported by the testing laboratory.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to one or more analytes of interest, but unlikely to be found in any project sample. Surrogates are used for organic analyses and are added to all project samples, laboratory standards and blank samples to verify the accuracy and specificity of each analysis. The surrogates are added at a known concentration, and percent recoveries (%R) are calculated

after analysis. All surrogate recoveries were within laboratory control limits, with the following exceptions:

- **SDG 09-15234:** The %R value for the surrogate decachlorobiphenyl was greater than the control limits in sample GEI-20-1.7-2.0. The endosulfan I and endosulfan II values were qualified as estimated (J) in this sample.
- **SDG 09-18626:** The %R value for the surrogate tetrachloro-m-xylene was less than the control limits in sample MW-3-5364-013-01. There were no positive detections of any target analytes in this sample; the reporting limits were qualified as estimated (UJ) in this sample. The %R values for the surrogate decachlorobiphenyl were less than the control limits in samples GEI-MW-5 (unfiltered) and Dup-120209 (unfiltered). All positive detections and method reporting limits in these samples were qualified as estimated (J/UJ).
- **SDG 10-03399:** The %R value for the surrogates tetrachloro-m-xylene and decachlorobiphenyl were less than the control limits in sample GEI-MW-8. All positive detections and method reporting limits in these samples were qualified as estimated (J/UJ).

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Because actual analyte concentrations in environmental samples are not known and may differ from concentrations determined through laboratory analysis, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of a sample is analyzed in the normal manner, and then a second aliquot of the sample (the MS sample) is spiked with a known amount of analyte and analyzed. From the MS analysis, a %R value is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sample set is analyzed in lieu of an MS/MSD analysis. LCS/LCSD analyses are discussed in the next section.

One MS/MSD analysis should be performed for every analytical batch or every 20 project samples, whichever is more frequent. The recovery criteria (%R) for MS and MSD analyses are specified in the laboratory documents, as are the relative percent difference (RPD) criteria for MS/MSD sample pairs. The frequency criteria were met for all analyses, and the %R and RPD values were within the laboratory control limits, with the following exceptions:

- **SDG 09-14003:** An MS/MSD analysis was performed on sample GEI-09-0.3-0.5. The %R value for dieldrin was outside of the control limits. No action was required, because the parent sample concentration was greater than four times the amount spiked into the sample. The endosulfan I, endosulfan II and endosulfan sulfate %R values were less than the control limits. No action was required, because these MS outliers were the only other anomalies in the laboratory data package.
- **SDG 09-18626:** An MS/MSD analysis was performed on sample GEI-MW-8. The reported %R value for the spiked compound aldrin in both the MS and MSD samples was 0 percent. Because the %R values were both less than 10 percent, the non-detect result for aldrin was rejected in the parent sample. The alpha-chlordane and gamma-chlordane %R and RPD values were both outside of the control limits. There were no positive detections of these compounds in the parent sample, and the reporting limits were qualified as estimated (UJ). The RPD values for 4,4'-DDD and 4,4'-DDE were greater than the control limits. The positive detections of these compounds in the parent sample were qualified as estimated (J). The %R values for dieldrin and heptachlor epoxide were less than the control limits. Because there was only one MS or MSD outlier for

these compounds, no action was taken. The RPD value for 4,4'-DDT was greater than the control limit. Because there was no positive value for this compound in the parent sample, no action was taken.

- **SDG 10-03399:** An MS/MSD analysis was performed on sample GEI-MW-5 (un-filtered). The %R values for bentazon were both less than 10 %. No action was required, because the parent sample concentration was greater than four times the amount spiked into the sample.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

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

One LCS/LCSD analysis should be performed for every analytical batch or every 20 project samples, whichever is more frequent. The recovery criteria (%R) for LCS and LCSD analyses are specified in the laboratory documents, as are the relative percent difference (RPD) criteria for LCS/LCSD sample pairs. The frequency criteria were met for all analyses, and the %R and RPD values for all target analytes in the LCS/LCSD analyses were within the laboratory control limits.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. One laboratory duplicate analysis should be performed for every analytical batch. If either the laboratory duplicate or its parent sample has a concentration greater than five times the method reporting limit for that sample, the absolute difference between the results is used to assess precision instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency, and the specified acceptance criteria were met in all cases.

FIELD DUPLICATES

Field duplicate samples were obtained and analyzed along with the primary project samples. The duplicate samples were analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent, and the RPD control limit for water samples is 35 percent.

Field duplicate results were within control limits, except where noted below.

- **SDG 09-14003:** Two field duplicate sample pairs were analyzed: GEI-19-0.7-1.0/Dup-2 and GEI-12-0.3-0.5/Dup-3. All of the analyte RPD and/or absolute difference values were within the control limits.
- **SDG 09-15234:** One field duplicate sample pair was analyzed: GEI-23-0.2-0.5/Dup-5. All of the analyte RPD and/or absolute difference values were within the control limits.

- **SDG 09-18626:** Two field duplicate sample pairs were analyzed: GEI-MW-7 (filtered)/Dup-120209 (filtered) and GEI-MW-7 (unfiltered)/Dup-120209 (unfiltered). In the unfiltered sample pair, the RPD value for endosulfan I exceeded the control limit of 35 percent. Both positive detections of endosulfan I were qualified as estimated (J) in the unfiltered primary and duplicate samples.
- **SDG 10-03399:** One field duplicate sample pair was analyzed: GEI-MW-4 (unfiltered)/FD-031110. All of the analyte RPD and/or absolute difference values were within the control limits.

COLUMN CONFIRMATION

The laboratory initially analyzed all samples submitted for analysis by USEPA Method 8081A with the use of a mass spectrometer detector. Because Method 8081A requires the sample results to be reported from an electron capture detector (ECD), the laboratory also used the sample extracts to analyze the same samples with the use of an ECD as a secondary column confirmation.

All detected sample results must be confirmed by the use a secondary column confirmation percent difference (%D) value. If the %D value is greater than 35 percent, the analytical result is qualified as estimated (J).

- **SDG 09-14003:** The endosulfan II results were qualified as estimated (J) in samples GEI-13-0.3-0.5 and GEI-13-0.8-1.0. The endosulfan I result was qualified as estimated (J) in sample GEI-13-0.3-0.5.
- **SDG 09-14084:** The endosulfan II results were qualified as estimated (J) in samples GEI-21-0.8-1.0 and GEI-13-0.8-1.0.
- **SDG 10-03399:** The endosulfan II results were qualified as estimated (J) in sample GEI-MW-8(filtered).

SAMPLE RESULTS

The laboratory reported several herbicides (listed below) that were not included on the Target Analyte List of compounds. As the laboratory did not anticipate positive detections for these compounds, they were not calibrated by the laboratory and they should be considered estimates. All positive detections were qualified (J) by the validator.

- **SDG 09-18626 & 10-03399:**

  2,4-D, Bentazon, Chloramben, Chlorthal-dimethyl (Dacthal), Dicamba, Pentachlorophenol, Silvex, and Triclopyr (Garlon)

IV. OVERALL ASSESSMENT

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data is acceptable, as demonstrated by the surrogate, MS/MSD and LCS/LCSD %R values, with the exceptions noted above. The precision of the data also is acceptable, as demonstrated by the MS/MSD, LCS/LCSD, laboratory duplicate, field duplicate, and column confirmation RPD or %D values, with the exceptions noted above.

As detailed above, selected data were qualified as estimated (J/UJ) because of surrogate %R, MS/MSD %R and RPD, field duplicate RPD, and column confirmation outliers. Data were also qualified because certain unexpected compounds were not calibrated by the laboratory.

One data point was rejected because of an MS outlier.

All other data are acceptable for the intended use (site characterization).

DATA QUALITY ASSESSMENT
PESTICIDES BY USEPA METHOD 8081A, HERBICIDES BY USEPA METHOD 8151A
LABORATORY SAMPLE DELIVERY GROUP (SDG): 1006-090 AND 1006-154B

Project: Skagit Regional Airport Taxiway F Site
(GeoEngineers Project 5364-013-010)

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005) of analytical data from the analyses of soil and groundwater samples obtained at the Skagit Regional Airport Taxiway F Site. The data validation included verification and validation checks of the following quality control (QC) elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Blanks (method, trip and equipment rinsate)
- Surrogates (for organic compounds only)
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples
- Laboratory Duplicates
- Field Duplicates
- Column Confirmation %D Values
- Sample Results

I. DATA PACKAGE COMPLETENESS

OnSite Environmental, located in Redmond, Washington, analyzed the submitted soil and groundwater samples. The laboratory provided Forms I, II and III for the Stage 2A validation. Section III summarizes the data quality assessment for the various elements reviewed and any data exceptions and qualifiers applied to the data. Based on this assessment, selected data were qualified as estimated (J/UJ) because of a surrogate percent recovery outlier, equipment blank contamination, LCS/LCSD percent recovery outliers, field duplicate precision outliers, and column confirmation outliers. Data were also qualified because certain compounds exceeded the linear range of the instrument.

II. OBJECTIVE

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;

- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

III. DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002) and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 2008).

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found, and the appropriate signatures were applied. There were no anomalies mentioned in the sample receipt forms, as the samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius, with the exceptions below:

SDG 1006-154, 1006-154B: (Endosulfans) The sample cooler was received by the laboratory within 24 hours at a temperature of 12 degrees Celsius. The target analytes in these samples are considered to be stable in this environment. For this reason, no action was taken based on this outlier.

HOLDING TIMES AND SAMPLE PRESERVATION

The holding time is defined as the time that elapses between sample collection and sample analysis. Recommended maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentrations present at the time of sample collection. Recommended holding times were met for all analyses, with the following exceptions.

SDG 1006-154B: (Endosulfans) Sample GEI-33-0.8-1.0' was extracted and analyzed 14 days after the holding time had expired. The positive results for all compounds were qualified as estimated (J) in this sample.

METHOD, TRIP AND EQUIPMENT RINSATE BLANKS

Method blanks are analyzed to assess whether laboratory procedures or reagents may have introduced measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of project samples, at a frequency of one per twenty samples. No method blank detections were reported by the testing laboratory.

Trip blanks are analyzed to assess whether field sampling or sample transport processes may have introduced measurable concentrations of volatile analytes of interest into project samples. Since none of the analytes of interest for this project (pesticides and herbicides) are volatile, trip blanks were not analyzed for this project.

Equipment rinsate blanks are analyzed to assess whether sampling equipment decontamination procedures may have introduced measurable concentrations of the analytes of interest into project samples. Equipment rinsate blanks were analyzed with each field sampling event, at a frequency of one

per day. No equipment rinsate blank detections were reported by the testing laboratory, with the exception below:

SDG 1006-090: (Herbicides) One equipment rinsate blank "RINSE" was performed for this sampling event on 6/11/10. The laboratory reported contamination for 2,4-D in this blank. For this reason, the positive results for 2,4-D in Samples GEI-MW5-FILTERED and GEI-MW5-UNFILTERED were qualified as not-detected (U). The reported results in both samples were treated as a practical quantitation limits.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to one or more analytes of interest, but unlikely to be found in any project sample. Surrogates are used for organic analyses and are added to all project samples, laboratory standards and blank samples to verify the accuracy and specificity of each analysis. The surrogates are added at a known concentration, and percent recoveries (%R) are calculated after analysis. All surrogate recoveries were within laboratory control limits, with the following exceptions:

SDG 1006-090: (Herbicides) The surrogate DCAA %R value was greater than the control limit in Sample GEI-MW6-UNFILTERED, indicating a high bias. For this reason, only the positive results in the sample were qualified as estimated (J) in this sample.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Because actual analyte concentrations in environmental samples are not known and may differ from concentrations determined through laboratory analysis, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of a sample is analyzed in the normal manner, and then a second aliquot of the sample (the MS sample) is spiked with a known amount of analyte and analyzed. From the MS analysis, a %R value is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check.

Due to the field sampling limitations of the groundwater portion of this sampling event, a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sample set was analyzed in lieu of an MS/MSD analysis. LCS/LCSD analyses are discussed in the next section.

One MS/MSD analysis should be performed for every analytical batch or every 20 project samples, whichever is more frequent. The recovery criteria (%R) for MS and MSD analyses are specified in the laboratory documents, as are the relative percent difference (RPD) criteria for MS/MSD sample pairs. The frequency criteria were met for all analyses, and the %R and RPD values were within the laboratory control limits, with the following exceptions:

- **SDG 09-14003:** An MS/MSD analysis was performed on sample GEI-09-0.3-0.5. The %R value for dieldrin was outside of the control limits. No action was required, because the parent sample concentration was greater than four times the amount spiked into the sample. The endosulfan I, endosulfan II and endosulfan sulfate %R values were less than the control limits. No action was required, because these MS outliers were the only other anomalies in the laboratory data package.
- **SDG 09-18626:** An MS/MSD analysis was performed on sample GEI-MW-8. The reported %R value for the spiked compound aldrin in both the MS and MSD samples was 0 percent. Because

the %R values were both less than 10 percent, the non-detect result for aldrin was rejected in the parent sample. The alpha-chlordane and gamma-chlordane %R and RPD values were both outside of the control limits. There were no positive detections of these compounds in the parent sample, and the reporting limits were qualified as estimated (UJ). The RPD values for 4,4'-DDD and 4,4'-DDE were greater than the control limits. The positive detections of these compounds in the parent sample were qualified as estimated (J). The %R values for dieldrin and heptachlor epoxide were less than the control limits. Because there was only one MS or MSD outlier for these compounds, no action was taken. The RPD value for 4,4'-DDT was greater than the control limit. Because there was no positive value for this compound in the parent sample, no action was taken.

- **SDG 10-03399:** An MS/MSD analysis was performed on sample GEI-MW-5 (un-filtered). The %R values for bentazon were both less than 10 %. No action was required, because the parent sample concentration was greater than four times the amount spiked into the sample.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

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

One LCS/LCSD analysis should be performed for every analytical batch or every 20 project samples, whichever is more frequent. The recovery criteria (%R) for LCS and LCSD analyses are specified in the laboratory documents, as are the relative percent difference (RPD) criteria for LCS/LCSD sample pairs. The frequency criteria were met for all analyses. The %R and RPD values for all target analytes in the LCS/LCSD analyses were within the laboratory control limits, with the following exceptions:

SDG 1006-090: (Pesticides) The %R value for 4,4'-DDT was greater than the control limit in the LCSD extracted on 6/14/10. However, the %R value for this compound was within the control limits in the corresponding LCS. For this reason, no action was taken for this outlier. Also, the RPD value for 4,4'-DDT was greater than the control limit in the same QC sample pair. However, there were no positive results for this compound in the associated batched samples. For this reason, no action was taken for this outlier.

SDG 1006-090: (Herbicides) The %R values for dicamba were lower than the control limits in the LCS/LCSD extracted on 6/17/10, indicating a systemic low response for this compound. For this reason, the positive results and reporting limits for this compound were qualified as estimated (J/UJ) in all associated batched samples.

SDG 1006-154: (Endosulfans) The %R value for 4,4'-DDT was greater than the control limit in the water LCS extracted on 6/22/10. However, the %R value for this compound was within the control limits in the corresponding LCSD. For this reason, no action was taken for this outlier. Also, the RPD value for 4,4'-DDT was greater than the control limit in the same QC sample pair. However, there were no positive results for this compound in the associated batched samples. For this reason, no action was taken for this outlier.

LABORATORY DUPLICATES

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. One laboratory duplicate analysis should be performed for every analytical batch. If either the laboratory duplicate or its parent sample has a concentration greater than five times the method reporting limit for that sample, the absolute difference between the results is used to assess precision instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency, and the specified acceptance criteria were met in all cases.

FIELD DUPLICATES

Field duplicate samples were obtained and analyzed along with the primary project samples. The duplicate samples were analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent, and the RPD control limit for water samples is 35 percent.

Field duplicate results were within control limits, except where noted below.

- **SDG 1006-090:** One field duplicate sample pair was analyzed: GEI-MW-8-UNFILTERED/FD-061010. In this sample pair the precision criteria were exceeded for nine pesticide compounds and nine herbicide compounds. For this reason, these compounds were qualified as estimated (J) in both samples.
- **SDG 1006-154:** One field duplicate sample pair was analyzed: GEI-26-0.8-1.0/DUP-4-061710. In this sample pair the precision criteria were met for all target analytes.

COLUMN CONFIRMATION

The laboratory analyzed all samples submitted for analysis by SW8081A and SW8151. These methods require the sample results to be reported from a dual-column electron capture detector (ECD) system. Since this system requires the use of two columns, it produces two results simultaneously. The laboratory is required to report the precision of these results in the form of a percent difference (%D) value, one column being considered primary and the other column being considered as a secondary check.

If the %D value is greater than 40 %, the analytical result is qualified as estimated (J). All %D values were less than 40, with the exceptions below:

- **SDG 1006-090: Pesticides and Herbicides**

GEI-MW-4-FILTERED	gamma-chlordane, endosulfan I, endosulfan sulfate, 2,4,5-T, 2,4-DB
GEI-MW-4-UNFILTERED	alpha-chlordane, endosulfan I, 2,4-D, 2,4,5-T, 2,4-DB
GEI-MW-5-UNFILTERED	endosulfan sulfate, 2,4,5-T

GEI-MW-6-FILTERED	gamma-chlordane, alpha-chlordane, endosulfan I, endosulfan sulfate, MCPA, pentachlorophenol, 2,4,5-T, 2,4-DB
GEI-MW-6-UNFILTERED	beta-BHC, heptachlor epoxide, gamma chlordane, alpha chlordane, endosulfan I, methoxychlor, endosulfan sulfate, MCPP, MCPA, dichloroprop, pentachlorophenol, 2,4,5-T
GEI-MW-7-FILTERED	heptachlor epoxide, methoxychlor, endosulfan sulfate, MCPP, MCPA, dichloroprop, 2,4,5-T, 2,4-DB
GEI-MW-7-UNFILTERED	beta-BHC, delta-BHC, heptachlor epoxide, alpha chlordane, endosulfan I, endosulfan II, methoxychlor, endosulfan sulfate, dicamba, MCPP, 2,4-D, pentachlorophenol, 2,4,5-T, 2,4-DB
GEI-MW-8-FILTERED	heptachlor epoxide, gamma chlordane, endosulfan I methoxychlor, endosulfan sulfate, MCPP, dichloroprop, pentachlorophenol, 2,4,5-T, 2,4-DB
GEI-MW-8-UNFILTERED	beta-BHC, delta-BHC, heptachlor epoxide, gamma chlordane, endosulfan sulfate, MCPP, MCPA, dichloroprop, 2,4-DB
FD-061010	beta-BHC, delta-BHC, heptachlor epoxide, gamma chlordane, endrin aldehyde, methoxychlor, endosulfan sulfate, MCPP, MCPA, dichloroprop, pentachlorophenol
RINSE	2,4-D

SAMPLE RESULTS

The laboratory reported several herbicides that were not included on the Target Analyte List of compounds. Of these compounds, the following listed below exceeded the liner range of the instrument. These compounds were flagged by the laboratory and qualified (J) by the validator.

- **SDG 1006-090 Herbicides:**

GEI-MW-6-FILTERED	2,4-D, 2,4-DB
GEI-MW-7-FILTERED	2,4-D
GEI-MW-6-UNFILTERED	2,4-D

IV. OVERALL ASSESSMENT

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data is acceptable, as demonstrated by the surrogate, MS/MSD and LCS/LCSD %R values, with the exceptions noted above. The precision of the data also is acceptable, as demonstrated by the MS/MSD, LCS/LCSD, laboratory duplicate, field duplicate, and column confirmation RPD or %D values, with the exceptions noted above.

As detailed above, selected data were qualified as estimated (J/UJ) because of a holding time outlier, surrogate %R, blank contamination, LCS/LCSD %R outliers, field duplicate RPD, and column confirmation outliers. Data were also qualified because certain compounds exceeded the linear range of the instrument.

All other data are acceptable for the intended use (site characterization).

DATA QUALITY ASSESSMENT
PESTICIDES BY USEPA METHOD 8081A, HERBICIDES BY USEPA METHOD 8151A
LABORATORY SAMPLE DELIVERY GROUP (SDG):
1009-161

Project: Skagit Regional Airport Taxiway F Site
(GeoEngineers Project 5364-013-010)

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005) of analytical data from the analyses of groundwater samples obtained at the Skagit Regional Airport Taxiway F Site for the fourth quarter groundwater monitoring sampling event. The data validation included verification and validation checks of the following quality control (QC) elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Blanks (method, trip and equipment rinsate)
- Surrogates (for organic compounds only)
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples
- Field Duplicates
- Column Confirmation %D Values
- Sample Results

I. DATA PACKAGE COMPLETENESS

OnSite Environmental, located in Redmond, Washington, analyzed the submitted soil and groundwater samples. The laboratory provided Forms I, II and III for the Stage 2A validation. Section III summarizes the data quality assessment for the various elements reviewed and any data exceptions and qualifiers applied to the data. Based on this assessment, selected data were qualified as estimated (J) or (NJ) because column confirmation outliers.

II. OBJECTIVE

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and

- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

III. DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, 2002) and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, 2008).

CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found, and the appropriate signatures were applied. There were no anomalies mentioned in the sample receipt forms, as the samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius.

HOLDING TIMES AND SAMPLE PRESERVATION

The holding time is defined as the time that elapses between sample collection and sample analysis. Recommended maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentrations present at the time of sample collection. Recommended holding times were met for all analyses.

METHOD, TRIP AND EQUIPMENT RINSATE BLANKS

Method blanks are analyzed to assess whether laboratory procedures or reagents may have introduced measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of project samples, at a frequency of one per twenty samples. No method blank detections were reported by the testing laboratory.

Trip blanks are analyzed to assess whether field sampling or sample transport processes may have introduced measurable concentrations of volatile analytes of interest into project samples. Since none of the analytes of interest for this project (pesticides and herbicides) are volatile, trip blanks were not analyzed for this project.

Equipment rinsate blanks are analyzed to assess whether sampling equipment decontamination procedures may have introduced measurable concentrations of the analytes of interest into project samples. Equipment rinsate blanks were analyzed with each field sampling event, at a frequency of one per day. No equipment rinsate blank detections were reported by the testing laboratory.

SURROGATE RECOVERIES

A surrogate compound is a compound that is chemically similar to one or more analytes of interest, but unlikely to be found in any project sample. Surrogates are used for organic analyses and are added to all project samples, laboratory standards and blank samples to verify the accuracy and specificity of each analysis. The surrogates are added at a known concentration, and percent recoveries (%R) are calculated after analysis. All surrogate recoveries were within laboratory control limits.

MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Because actual analyte concentrations in environmental samples are not known and may differ from concentrations determined through laboratory analysis, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of a sample is analyzed in the normal manner, and then a second aliquot of the sample (the MS sample) is spiked with a known amount of analyte and analyzed. From the MS analysis, a %R value is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check.

Due to the field sampling limitations of the groundwater portion of this sampling event, a laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sample set was analyzed in lieu of an MS/MSD analysis. LCS/LCSD analyses are discussed in the next section.

LABORATORY CONTROL SAMPLES/LABORATORY CONTROL SAMPLE DUPLICATES

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

One LCS/LCSD analysis should be performed for every analytical batch or every 20 project samples, whichever is more frequent. The recovery criteria (%R) for LCS and LCSD analyses are specified in the laboratory documents, as are the relative percent difference (RPD) criteria for LCS/LCSD sample pairs. The frequency criteria were met for all analyses. The %R and RPD values for all target analytes in the LCS/LCSD analyses were within the laboratory control limits.

FIELD DUPLICATES

Field duplicate samples were obtained and analyzed along with the primary project samples. The duplicate samples were analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent, and the RPD control limit for water samples is 35 percent.

Field duplicate results were within control limits, except where noted below.

- **SDG 1009-161:** One field duplicate sample pair was analyzed: GEI-MW-8/FD-091610. In this sample pair, the pesticide precision criteria were exceeded for gamma-BHC, heptachlor, endosulfan I, and 4,4'-DDD. Also, the herbicide precision criteria were exceeded for MCPP, dichloroprop, pentachlorophenol, 2,4,5-T, and 2,4-DB. For this reason, the positive results and reporting limits for these compounds were qualified as estimated (J/UJ) in both samples.

COLUMN CONFIRMATION

The laboratory analyzed all samples submitted for analysis by SW8081A and SW8151. These methods require the sample results to be reported from a dual-column electron capture detector (ECD) system. Since this system requires the use of two columns, it produces two results simultaneously. The laboratory

is required to report the precision of these results in the form of a relative percent difference (RPD) value, one column being considered primary and the other column being considered as a secondary check.

If the RPD value is greater than 40%, the analytical result is qualified as estimated (J). If the RPD values were greater than 100%, then the analytical result is qualified as tentatively identified (NJ). Below is a list of compounds that were qualified either J or NJ (in bold) because of column confirmation outliers.

- **SDG 1009-161: Pesticides and Herbicides**

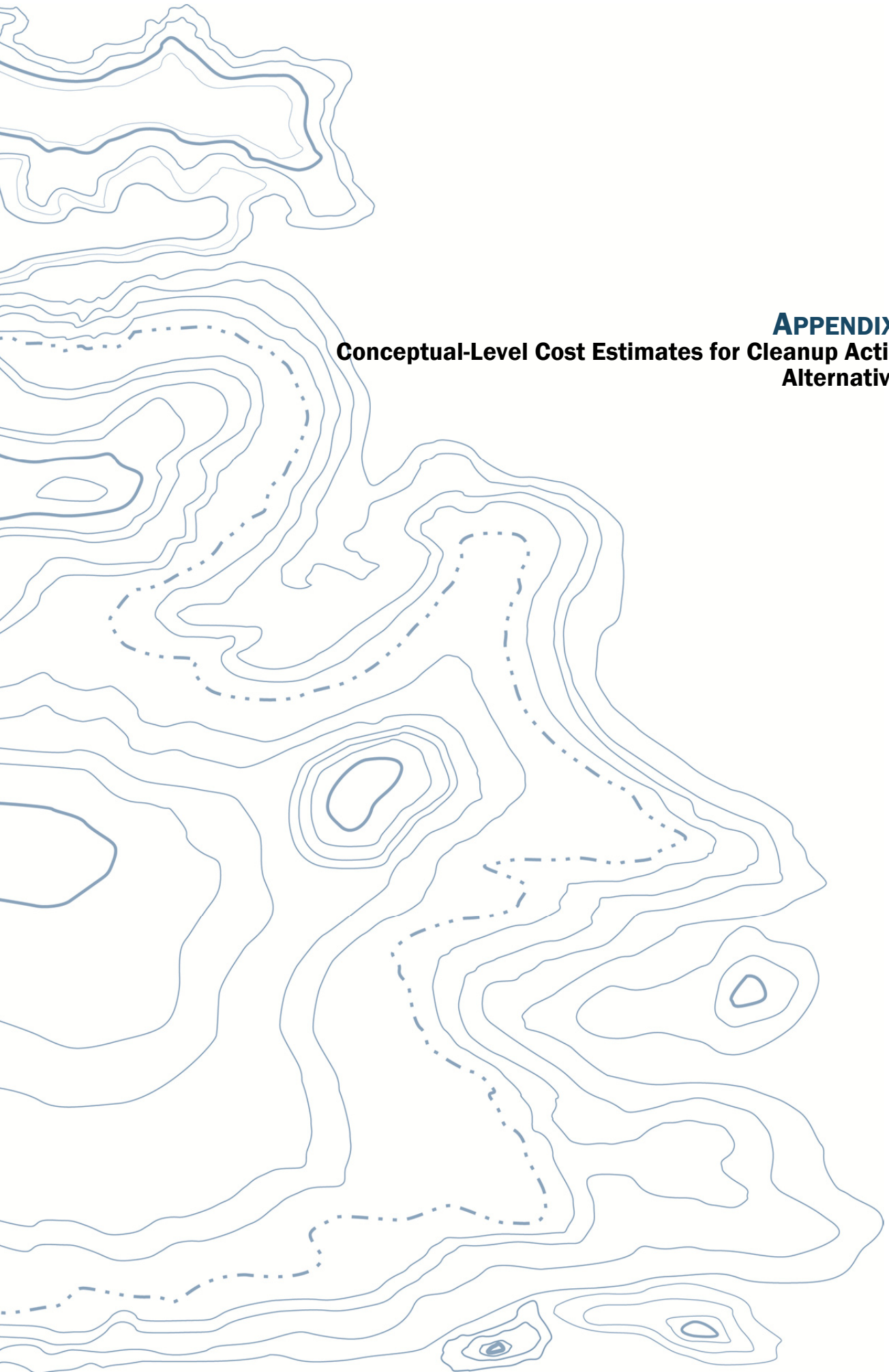
GEI-MW-4_100916	**gamma-BHC, beta-BHC, heptachlor epoxide, gamma chlordane,** alpha chlordane**, Endosulfan I, Endosulfan sulfate, 2,4,5-T, 2,4-DB**
GEI-MW-4_100916F	**heptachlor epoxide, gamma chlordane, alpha chlordane, Endosulfan I,** dieldrin**, endrin, 4,4-DDD, Endosulfan sulfate,** MCPP**, Dichloroprop,** 2,4-DB
GEI-MW-5_100916	Endosulfan sulfate
GEI-MW-5_100916F	**Dinoseb**
GEI-MW-6_100916	gamma-BHC**,** beta-BHC**,** delta-BHC**, heptachlor epoxide,** gamma chlordane**,** alpha chlordane**,** 4,4-DDD**,** endrin aldehyde**,** Pentachlorophenol**, 2,4-DB,** Dinoseb
GEI-MW-6_100916F	**alpha-BHC,** beta-BHC**, delta-BHC, heptachlor epoxide,** gamma chlordane**, alpha chlordane, 4,4-DDD, endrin aldehyde,** MCPP**, Pentachlorophenol, 2,4-DB**
GEI-MW-7_100916	alpha-BHC**, gamma-BHC, beta-BHC, heptachlor,** heptachlor epoxide**,** gamma chlordane**, endrin, 4,4-DDT,** MCPP**, 2,4,5-T**
GEI-MW-7_100916F	alpha-BHC**, beta-BHC,** delta-BHC**, gamma chlordane, alpha chlordane, endosulfan I, endrin, 4'4-DDT, Endosulfan sulfate,** MCPP**, 2,4-DB**
GEI-MW-8_100916	**alpha-BHC,** gamma-BHC**,** beta-BHC**, aldrin, endrin,** MCPP**, Dichloroprop,** pentachlorophenol**, 2,4-DB**
GEI-MW-8_100916F	**gamma-BHC,** beta-BHC**, delta-BHC, aldrin,** heptachlor epoxide**, gamma chlordane, alpha chlordane, 4,4-DDD,** endosulfan sulfate**,** pentachlorophenol**, 2,4,5-T**
Dup-091610	alpha-BHC**,** beta-BHC**, aldrin, endrin, 4,4-DDD,** MCPP

IV. OVERALL ASSESSMENT

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data is acceptable, as demonstrated by the surrogate and LCS/LCSD %R values. The precision of the data also is acceptable, as demonstrated by the LCS/LCSD, field duplicate, and column confirmation RPD or %D values, with the exceptions noted above.

As detailed above, selected data were qualified as estimated or tentatively identified because of field duplicate precision or column confirmation outliers.

All other data are acceptable for the intended use (site characterization).



APPENDIX J
Conceptual-Level Cost Estimates for Cleanup Action Alternatives

TABLE J-1

COST ESTIMATE - PROPOSED CLEANUP ACTION ALTERNATIVE 1

EXCAVATE HISTORICAL OPERATIONS AREA, DRAINAGE CHANNEL, AND WETLAND AREA

TAXIWAY F SITE

BURLINGTON, WASHINGOTN

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Mobilization and Site Preparation						
1	Mobilization/Site Controls/Demobilization	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
Demolition						
2	Asphalt demolition and disposal	2,000	SF	$1.50	$3,000	Approximately 2000 SF removed.
3	Clearing and Grubbing	0.95	ACRE	$15,000.00	$14,300	Drainage channel and wetland cap and excavation areas plus a 20% buffer.
4	Protect/demolish hanger building	1	LS	$50,000.00	$50,000	
	Subtotal				**$67,300**	
Soil Removal, Backfill						
5	Excavate Operations Area Soil (0'-1 bgs)	1,345	CY	$12.00	$16,100	Total of all soil excavated. Assume 20% expansion above in-place volume. Cost includes excavation and stockpile. Assume 20% of excavation area requires over-excavation to 2-feet bgs.
6	Excavate Wetland/Stream Area Soil (0'-1 bgs)	1,840	CY	$18.00	$33,100	
7	Contaminated Soil (non-haz) Transport and Disposal at approved off-site facility	4,585	TON	$56.00	$256,800	90% of all soil excavated. Assume 1.6 ton/CY. Cost includes loading and hauling. Quote from WM.
8	Contaminated Soil (Subtitle C) Transport and Disposal at approved off-site facility	509	TON	$266.00	$135,500	10% of all soil excavated. Assume 1.6 ton/CY . Cost includes transport ($66), disposal ($180), and tax ($20). Quote from WM.
9	Purchase, Place and Compact General Backfill Material	1,614	TON	$13.00	$21,000	Use general backfill material for backfilling unpaved (75%) areas in operations area and for backfilling below 1-foot bgs. Assume 1.6 ton/CY.
10	Purchase, Place and Compact Crushed Rock Surface Material	336	CY	$35.00	$11,800	Backfill of excavations in operations areas with existing gravel/pave surface (25%) with crushed rock.
11	Purchase and Place Topsoil	1,840	CY	$28.00	$51,500	Use topsoil for backfilling in wetland area.
	Subtotal				**$525,800**	
Capping						
12	Grading cap area to prepare surface for geotextile		ACRE		$0	
13	Install permeable geotextile layer to separate existing soil from crushed rock surface layer		SY		$0	
14	Placement and compaction of 1-foot crushed rock surface		SY		$0	
15	Install permeable geotextile layer to separate existing soil from topsoil surface layer	0	SY	$2.25	$0	
16	Placementof 1-foot cap layer of topsoil	0	CY	$28.00	$0	
	Subtotal				**$0**	

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Surface Restoration						
17	Wetland Restoration	0.95	ACRE	$150,000.00	$142,500	Assume areas excavated plus a 20% buffer requires restoration.
18	Fencing wetland area	0	LF	$10.00	$0	
19	Hydroseeding	0	SF	$0.25	$0	
20	Pavement Restoration	37	Ton	$170.00	$6,300	Restore original pavement demolished for excavation. Assume compacted crushed rock backfill is adequate base course for asphalt. Assume 3-inch course of HMA and 2 tons/CY.
	Subtotal				**$148,800**	
Utility Alteration and Replacement						
21	Remove, Bypass, and/or Replace utilities in project area	1	LS	$5,000.00	$5,000	Assume nominal utilities impacted by excavation in Hangar.
	Subtotal				**$5,000**	
Monitoring						
22	Groundwater Monitoring	8.00	qtr	$3,000.00	$24,000	Assume 2 years of monitoring.
23	Wetland revegetation monitoring	7.72	Year	$7,500.00	$57,900	NPV of $7,500 annual cost over 10 years with 5% discount factor.
	Subtotal				**$57,900**	
Site Survey						
24	Post-Construction (As-Built) Surveys	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
	Contractor Overhead (Based on total of Tasks 1-24)	10.00%	%		$82,680	
	Sales Tax	7.9%	%		$71,849	Sales Tax applied to sum of construction items 1-22 and construction overhead.
	Total Purchase and Installation Cost				**$981,329**	
	Construction Management and Field Monitoring	6.0%	%		$58,880	
Construction Total					**$1,040,209**	
	Contingency (Concept design level)	30.0%	%		$312,063	
Construction Total with Contingency					**$1,352,271**	
	Design and Permitting	8.0%	%		$108,182	
	Port Internal Costs	6.0%	%		$81,136	
	OVERALL PROJECT TOTAL COSTS				**$1,541,589**	

TABLE J-2

COST ESTIMATE - PROPOSED CLEANUP ACTION ALTERNATIVE 2

CAP HISTORICAL OPERATIONS AREA, EXCAVATE DRAINAGE CHANNEL AND WETLAND AREA

TAXIWAY F SITE

BURLINGTON, WASHINGTON

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Mobilization and Site Preparation						
1	Mobilization/Site Controls/Demobilization	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
Demolition						
2	Asphalt demolition and disposal	17,000	SF	$1.50	$25,500	Approximately A 17,000 square foot area removed to prepare subgrade for cap.
3	Clearing and Grubbing	0.95	ACRE	$15,000.00	$14,300	Drainage channel and wetland cap and excavation areas plus a 20% buffer.
4	Protect/demolish hanger building	1	LS	$50,000.00	$50,000	
	Subtotal				**$89,800**	
Soil Removal, Backfill						
5	Excavate Operations Area Soil (0'-1 bgs)	0	CY	$12.00	$0	Total of all soil excavated. Assume 20% expansion above in-place volume. Cost includes excavation and stockpile. Assume 20% of excavation area requires over-excavation to 2-feet bgs.
6	Excavate Wetland/Stream Area Soil (0'-1 bgs)	1,840	CY	$18.00	$33,100	
7	Contaminated Soil (non-haz) Transport and Disposal at approved off-site facility	2,649	TON	$56.00	$148,400	90% of all soil excavated. Assume 1.6 ton/CY. Cost includes loading and hauling. Quote from WM.
8	Contaminated Soil (Subtitle C) Transport and Disposal at approved off-site facility	294	TON	$266.00	$78,300	10% of all soil excavated. Assume 1.6 ton/CY . Cost includes transport ($66), disposal ($180), and tax ($20). Quote from WM.
9	Purchase, Place and Compact General Backfill Material	0	TON	$13.00	$0	Use general backfill material for backfilling unpaved (75%) areas in operations area and for backfilling below 1-foot bgs. Assume 1.6 ton/CY.
10	Purchase, Place and Compact Crushed Rock Surface Material	0	CY	$35.00	$0	Backfill of excavations in operations areas with existing gravel/pave surface (25%) with crushed rock.
11	Purchase and Place Topsoil	1,840	CY	$28.00	$51,500	Use topsoil for backfilling in wetland area.
	Subtotal				**$311,300**	
Capping						
12	Grading cap area to prepare surface for geotextile	6,703	SY	$2.00	$13,400	
13	Install permeable geotextile layer to separate existing soil from crushed rock surface layer	6,703	SY	$2.25	$15,100	
14	Placement and compaction of 1-foot crushed rock surface	2,234	CY	$35.00	$78,200	
15	Install permeable geotextile layer to separate existing soil from topsoil surface layer	0	SY	$2.25	$0	
16	Placementof 1-foot cap layer of topsoil	0	CY	$28.00	$0	
	Subtotal				**$106,700**	

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Surface Restoration						
17	Wetland Restoration	0.95	ACRE	$150,000.00	$142,500	Assume areas excavated plus a 20% buffer requires restoration.
18	Fencing wetland area	0	LF	$10.00	$0	Installation of fencing around wetland area with remaining contamination.
19	Hydroseeding	0	SF	$0.25	$0	Hydroseed drainage channel and/or wetland cap areas
20	Pavement Restoration	315	Ton	$170.00	$53,500	Restore original pavement demolished for excavation. Assume compacted crushed rock backfill is adequate base course for asphalt. Assume 3-inch course of HMA and 2 tons/CY.
	Subtotal				**$196,000**	
Utility Alteration and Replacement						
21	Remove, Bypass, and/or Replace utilities in project area	1	LS	$5,000.00	$5,000	Assume nominal utilities impacted by excavation in Hangar.
	Subtotal				**$5,000**	
Monitoring						
22	Groundwater Monitoring	4.33	Year	$3,000.00	$13,000	NPV of $3,000 annual cost over 5 years with 5% discount factor.
23	Wetland revegetation monitoring	7.72	Year	$5,000.00	$38,600	NPV of $5,000 annual cost over 10 years with 5% discount factor.
	Subtotal				**$38,600**	
Site Survey						
24	Post-Construction (As-Built) Surveys	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
	Contractor Overhead (Based on total of Tasks 1-24)	10.00%	%		$76,390	
	Sales Tax	7.9%	%		$66,383	Sales Tax applied to sum of construction items 1-22 and construction overhead.
	Total Purchase and Installation Cost				**$906,673**	
	Construction Management and Field Monitoring	6.0%	%		$54,400	
Construction Total					**$961,073**	
	Contingency (Concept design level)	30.0%	%		$288,322	
Construction Total with Contingency					**$1,249,395**	
	Design and Permitting	8.0%	%		$99,952	
	Port Internal Costs	6.0%	%		$74,964	
	OVERALL PROJECT TOTAL COSTS				**$1,424,311**	

TABLE J-3

COST ESTIMATE - PROPOSED CLEANUP ACTION ALTERNATIVE 3

CAP HISTORICAL OPERATIONS AREA AND DRAINAGE CHANNEL, EXCAVATE WETLAND AREA

TAXIWAY F SITE

BURLINGTON, WASHINGTON

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Mobilization and Site Preparation						
1	Mobilization/Site Controls/Demobilization	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
Demolition						
2	Asphalt demolition and disposal	17,000	SF	$1.50	$25,500	Approximately A 17,000 square foot area removed to prepare subgrade for cap.
3	Clearing and Grubbing	0.95	ACRE	$15,000.00	$14,300	Drainage channel and wetland cap and excavation areas plus a 20% buffer.
4	Protect/demolish hanger building	1	LS	$50,000.00	$50,000	
	Subtotal				**$89,800**	
Soil Removal, Backfill						
7					$0	
5	Excavate Operations Area Soil (0'-1 bgs)	0	CY	$12.00	$0	Total of all soil excavated. Assume 20% expansion above in-place volume. Cost includes excavation and stockpile. Assume 20% of excavation area requires over-excavation to 2-feet bgs.
6	Excavate Wetland/Stream Area Soil (0'-1 bgs)	1,219	CY	$18.00	$21,900	
7	Contaminated Soil (non-haz) Transport and Disposal at approved off-site facility	1,755	TON	$56.00	$98,300	90% of all soil excavated. Assume 1.6 ton/CY. Cost includes loading and hauling. Quote from WM.
8	Contaminated Soil (Subtitle C) Transport and Disposal at approved off-site facility	195	TON	$266.00	$51,900	10% of all soil excavated. Assume 1.6 ton/CY . Cost includes transport ($66), disposal ($180), and tax ($20). Quote from WM.
9	Purchase, Place and Compact General Backfill Material	0	TON	$13.00	$0	Use general backfill material for backfilling unpaved (75%) areas in operations area and for backfilling below 1-foot bgs. Assume 1.6 ton/CY.
10	Purchase, Place and Compact Crushed Rock Surface Material	0	CY	$35.00	$0	Backfill of excavations in operations areas with existing gravel/pave surface (25%) with crushed rock.
11	Purchase and Place Topsoil	1,219	CY	$28.00	$34,100	Use topsoil for backfilling in wetland area.
	Subtotal				**$206,200**	
Capping						
12	Grading cap area to prepare surface for geotextile	6,703	SY	$2.00	$13,400	
13	Install permeable geotextile layer to separate existing soil from crushed rock surface layer	6,703	SY	$2.25	$15,100	
14	Placement and compaction of crushed rock 1-foot cap layer	2,234	CY	$35.00	$78,200	
15	Install permeable geotextile layer to separate existing soil from topsoil surface layer	1,293	SY	$2.25	$2,900	
16	Placementof 1-foot cap layer of topsoil	431	CY	$28.00	$12,100	
	Subtotal				**$121,700**	

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Surface Restoration						
17	Wetland Restoration	1.27	ACRE	$150,000.00	$190,600	Assume areas excavated plus a 20% buffer requires restoration. Assume drainage channel/wetland cap area requires 2 to 1 wetland mitigation.
18	Fencing wetland area	0	LF	$10.00	$0	Installation of fencing around wetland area with remaining contamination.
19	Hydroseeding	13,967	SF	$0.25	$3,500	Hydroseed drainage channel and/or wetland cap areas
20	Pavement Restoration	315	Ton	$170.00	$53,500	Restore original pavement demolished for excavation. Assume compacted crushed rock backfill is adequate base course for asphalt. Assume 3-inch course of HMA and 2 tons/CY.
	Subtotal				**$247,600**	
Utility Alteration and Replacement						
21	Remove, Bypass, and/or Replace utilities in project area	1	LS	$5,000.00	$5,000	Assume nominal utilities impacted by capping by Hangar.
	Subtotal				**$5,000**	
Monitoring						
22	Groundwater Monitoring	4.33	Year	$3,000.00	$13,000	NPV of $3,000 annual cost over 5 years with 5% discount factor.
23	Wetland revegetation monitoring	7.72	Year	$5,000.00	$38,600	NPV of $5,000 annual cost over 10 years with 5% discount factor.
	Subtotal				**$51,600**	
Site Survey						
24	Post-Construction (As-Built) Surveys	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
	Contractor Overhead (Based on total of Tasks 1-24)	10.00%	%		$73,190	
	Sales Tax	7.9%	%		$63,602	Sales Tax applied to sum of construction items 1-22 and construction overhead.
	Total Purchase and Installation Cost				**$868,692**	
	Construction Management and Field Monitoring	6.0%	%		$52,122	
Construction Total					**$920,814**	
	Contingency (Concept design level)	30.0%	%		$276,244	
Construction Total with Contingency					**$1,197,058**	
	Design and Permitting	8.0%	%		$95,765	
	Port Internal Costs	6.0%	%		$71,823	
	OVERALL PROJECT TOTAL COSTS				**$1,364,646**	

TABLE J-4

COST ESTIMATE - PROPOSED CLEANUP ACTION ALTERNATIVE 4
CAP HISTORICAL OPERATIONS AREA, DRAINAGE CHANNEL, AND WETLAND AREA
TAXIWAY F SITE
BURLINGTON, WASHINGTON

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Mobilization and Site Preparation						
1	Mobilization/Site Controls/Demobilization	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
Demolition						
2	Asphalt demolition and disposal	17,000	SF	$1.50	$25,500	Approximately A 17,000 square foot area removed to prepare subgrade for cap.
3	Clearing and Grubbing	0.95	ACRE	$15,000.00	$14,300	Drainage channel and wetland cap and excavation areas plus a 20% buffer.
4	Protect/demolish hanger building	1	LS	$50,000.00	$50,000	
	Subtotal				**$89,800**	
Soil Removal, Backfill						
7					$0	
5	Excavate Operations Area Soil (0'-1 bgs)	0	CY	$12.00	$0	Total of all soil excavated. Assume 20% expansion above in-place volume. Cost includes excavation and stockpile. Assume 20% of excavation area requires over-excavation to 2-feet bgs.
6	Excavate Wetland/Stream Area Soil (0'-1 bgs)	0	CY	$18.00	$0	
7	Contaminated Soil (non-haz) Transport and Disposal at approved off-site facility	0	TON	$56.00	$0	90% of all soil excavated. Assume 1.6 ton/CY. Cost includes loading and hauling. Quote from WM.
8	Contaminated Soil (Subtitle C) Transport and Disposal at approved off-site facility	0	TON	$266.00	$0	10% of all soil excavated. Assume 1.6 ton/CY . Cost includes transport ($66), disposal ($180), and tax ($20). Quote from WM.
9	Purchase, Place and Compact General Backfill Material	0	TON	$13.00	$0	Use general backfill material for backfilling unpaved (75%) areas in operations area and for backfilling below 1-foot bgs. Assume 1.6 ton/CY.
10	Purchase, Place and Compact Crushed Rock Surface Material	0	CY	$35.00	$0	Backfill of excavations in operations areas with existing gravel/pave surface (25%) with crushed rock.
11	Purchase and Place Topsoil	0	CY	$28.00	$0	Use topsoil for backfilling in wetland area.
	Subtotal				**$0**	
Capping						
12	Grading operation area to prepare surface for geotextile	6,703	SY	$2.00	$13,400	
13	Install permeable geotextile layer to separate existing soil from crushed rock surface layer	6,703	SY	$2.25	$15,100	
14	Placement and compaction of crushed rock 1-foot cap layer in operation area	2,234	CY	$35.00	$78,200	
15	Install permeable geotextile layer to separate existing soil from topsoil surface layer	3,833	SY	$2.25	$8,600	
16	Placementof 1-foot cap layer of topsoil	1,278	CY	$28.00	$35,800	
	Subtotal				**$151,100**	

ITEM No.	DESCRIPTION	PLAN QUANT	UNIT	UNIT PRICE	AMOUNT (2010$)	NOTE
Surface Restoration						
17	Wetland Restoration	1.90	ACRE	$150,000.00	$285,100	Assume drainage channel/wetland cap area requires 2 to 1 wetland mitigation.
18	Fencing dispersed wetland area	1,280	LF	$10.00	$12,800	Installation of fencing around wetland area with remaining contamination.
19	Hydroseeding	34,496	SF	$0.25	$8,600	Hydroseed drainage channel and/or wetland cap areas
20	Pavement Restoration	315	Ton	$170.00	$53,500	Restore original pavement demolished for excavation. Assume compacted crushed rock backfill is adequate base course for asphalt. Assume 3-inch course of HMA and 2 tons/CY.
	Subtotal				**$360,000**	
Utility Alteration and Replacement						
21	Remove, Bypass, and/or Replace utilities in project area	1	LS	$10,000.00	$10,000	Assume nominal utilities impacted by capping by Hangar.
	Subtotal				$10,000	
Monitoring						
22	Groundwater Monitoring	4.33	Year	$3,000.00	$13,000	NPV of $3,000 annual cost over 5 years with 5% discount factor.
23	Wetland revegetation monitoring	7.72	Year	$5,000.00	$38,600	NPV of $5,000 annual cost over 10 years with 5% discount factor.
	Subtotal				**$51,600**	
Site Survey						
24	Post-Construction (As-Built) Surveys	1	LS	$5,000.00	$5,000	
	Subtotal				**$5,000**	
	Contractor Overhead (Based on total of Tasks 1-24)	10.00%	%		$67,250	
	Sales Tax	7.9%	%		$58,440	Sales Tax applied to sum of construction items 1-22 and construction overhead.
	Total Purchase and Installation Cost				**$798,190**	
	Construction Management and Field Monitoring	6.0%	%		$47,891	
Construction Total					**$846,082**	
	Contingency (Concept design level)	30.0%	%		$253,824	
Construction Total with Contingency					**$1,099,906**	
	Design and Permitting	8.0%	%		$87,992	
	Port Internal Costs	6.0%	%		$65,994	
	OVERALL PROJECT TOTAL COSTS				**$1,253,893**	

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