Construction Completion As-Built Report

Taxiway F Site, Skagit Regional Airport
Burlington, Washington
Ecology Consent Decree No. 11-2-01536-2

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

September 5, 2013

GeoEngineers
Earth Science + Technology

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1.0 INTRODUCTION

This Construction Completion As-Built Report has been prepared to document the cleanup action completed by the Port of Skagit County (Port) at the Taxiway F Site (Site). The Site is generally located within the western portion of the Skagit Regional Airport in Burlington, Washington (Figure 1). The Site is located east of Taxiway F and consists of a fenced area with hangar building and asphalt driveway immediately adjacent to Taxiway F (the Historical Operations Area) and the adjacent vegetated/forested upland and wetland areas to the east and south (Figure 2). The cleanup action at the Site was completed by the Port pursuant to the Washington State Department of Ecology (Ecology) Consent Decree No. 11-2-01536-2 (Consent Decree), the Model Toxics Control Act (MTCA) and associated implementing regulations (i.e., Chapter 173-340 of the Washington Administrative Code [WAC]). The Site is formally referenced in the Ecology database as the "Skagit County Port Site" (Ecology Facility ID No. 67457634, Cleanup Site ID No. 1671).

Cleanup action activities were completed in general accordance with Ecology approved Cleanup Action Plan (CAP; GeoEngineers, 2011a) and the Engineering Design Report (EDR; GeoEngineers, 2011b) to address historical contamination at the Site. The primary focus of the cleanup action was to remove pesticide and herbicide contaminated soil. Wetland areas of the Site that were affected by the cleanup action were restored following the completion of the contaminated soil removal. Major project elements discussed in this report include:

- Site background;
- Cleanup standards;
- Description of cleanup action;
- Permits and substantive requirements for exempt permits;
- Site preparation activities;
- Soil excavation and disposal activities;
- Chemical analytical results of verification samples; and
- Site restoration and re-vegetation activities.

2.0 BACKGROUND INFORMATION

2.1. Historical Operation and Site Use

In 1933, a single runway was constructed for light airplanes at the Skagit Regional Airport. This original runway later became Taxiway F. In 1943 the U.S. Navy constructed the airport's current 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 the facility was transferred 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 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. Between 1978 and 2000, the Port leased the portion of the Site immediately adjacent to the Taxiway F to a series

of individuals and companies engaged in the business of crop dusting. During this period, pesticides and herbicides reported to have been stored in the hangar building and loaded onto aircraft for use in the general vicinity of the hangar. In 2000, Port discontinued leasing the Site. Since that time, the hangar and paver area has been used by the Port for storage of maintenance equipment.

A detailed description of the previous Site use and operations are presented in the Remedial Investigation/Feasibility Study Work Plan (Work Plan; GeoEngineers, 2009) and Remedial Investigation/Feasibility Study Report (RI/FS Report; GeoEngineers, 2011c). Site features, including Taxiway F, the hangar building and surrounding wetland areas are shown in Figure 2.

2.2. Site Investigations

Several environmental investigations have been conducted at the Site, beginning with an initial soil investigation in 2000 (EAI, 2000) following the Ports discovery of stained soil in the vicinity of the hangar building, and culminating in the 2011 waste characterization study presented as an attachment to the EDR (GeoEngineers, 2011b). Investigations conducted prior to 2009 are summarized in the Work Plan (GeoEngineers, 2009). The RI/FS Report (GeoEngineers, 2011c) presents the results of the RI sampling activities conducted by GeoEngineers in 2009 and 2010, and uses the results of the RI and earlier investigations to characterize the nature and extent of contamination.

The following sections provide a general summary of soil, groundwater and surface water conditions as well as identified critical areas at the Site.

2.2.1. Soil Conditions

Site soils generally consist of 1 to 3 feet of fine to coarse sand and gravel overlying clay and silt deposits extending to depths of 50 and 85 feet below ground surface (bgs). Underlying these deposits is fine to medium sand with varying amounts of silt and gravel 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). In the eastern portion of the Historic Operations Area, three debris piles containing soil, plant/organic matter, concrete/asphalt pavement debris have been identified and were likely generated from past land clearing activities.

Based on the results of the completed soil investigations at the Site, pesticides and herbicides were detected at concentrations exceeding site-specific soil cleanup levels established by the CAP (GeoEngineers, 2011a). Contaminant exceedances were limited to near the soil surface depths ranging from 1 to 1½ feet bgs, with the highest concentrations occurring in the upper 6 inches. Chemical analytical results of soil samples obtained from the tree root bases indicated that contamination did not extend to the root bases of the mature coniferous trees. Based on the results of the 2011 waste characterization study presented as an attachment to the EDR (GeoEngineers, 2011b), herbicide/pesticide contaminated soil at the Site did not designate as a federal dangerous waste. The contaminated soil was designated as a Washington State-only dangerous waste due to the presence of herbicide/pesticide contamination.

2.2.2. Groundwater Conditions

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. The perched groundwater in the shallow sand/gravel horizon is separated from the deep aquifer by the approximately 50- to 85-foot thick clay/silt unit.

Based on groundwater investigations, pesticides and herbicides were detected in shallow (perched) groundwater of the Site at concentrations exceeding site-specific groundwater cleanup levels established by the CAP (GeoEngineers, 2011a). Pesticide and herbicide contaminant exceedances were not observed in the deep groundwater aquifer.

2.2.3. Surface Water Conditions

During wet weather conditions, rainwater runoff from the historical operations area is conveyed to adjacent upland and wetland areas to the east and south. 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 into the underlying 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. Additionally, no permanent surface water bodies exist in the vicinity of the Site that hydraulically connect 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 1¼ miles southeast of the Site, respectively (Figure 1).

Based on surface water investigations, pesticides and herbicides were detected in surface water of the Site at concentrations exceeding site-specific groundwater cleanup levels established by the CAP (GeoEngineers, 2011a). However, surface water at the Site was not considered a separate media of concern requiring remedial action because: 1) it was a temporary surface manifestation of perched groundwater during the wet season, or was present only ephemerally during the dry season following large rainfall events; and 2) it was not hydraulically connected to any nearby permanent surface water bodies.

2.2.4. Critical Areas

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.

Wetlands are shown relative to the Site in Figure 2. Based on the Critical Areas Report (Hart Crowser, 2007), Site contains four wetlands (Wetlands A, B, C and D). The Historical Operations Area contains all of Wetlands B and C and portions of Wetlands A and D. Wetland D extends north

of the Historical Operations Area and Wetland A extends north, east and south of the Historical Operations Area. In general, Wetland A is comprised of forested and emergent plant communities, Wetland B contains scrub/shrub plant communities, and Wetlands C and D is comprised of emergent plant communities. A detailed description of the characteristics and location of the identified wetlands is presented in the Updated Wetland Restoration Plan (GeoEngineers, 2011d).

3.0 CLEANUP ACTION

The cleanup action included excavation and off-site disposal of pesticide and herbicide contaminated soil from the Site followed by restoration and/or re-vegetation of the excavated/disturbed areas. The objective of the cleanup action was to eliminate, reduce, or otherwise control to the extent feasible and practicable, unacceptable risks to human health and the environment posed by the pesticide and herbicide contamination identified in soil and perched groundwater at the Site in accordance with MTCA (WAC 173-340) and other applicable regulatory requirements. Specifically, the objectives of the cleanup action were to mitigate risks associated with the following potential receptors and exposure routes:

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

A detailed evaluation of the cleanup action alternatives and requirements for the Site is presented in the RI/FS Report (GeoEngineers, 2011c) and CAP (GeoEngineers, 2011a). Cleanup standards for the Site as well as a summary of the cleanup action implemented are presented in the following sections.

3.1. Cleanup Standards

Cleanup standards for the Site 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) regulatory requirements established in applicable State and Federal laws. In accordance with the CAP (GeoEngineers, 2011a) and WAC 173-340-703, total endosulfans were used as the indicator hazardous substance for remedial actions completed to address pesticide and herbicide contamination in Site soils.

The site-specific cleanup levels, points of compliance and applicable regulatory requirements for the cleanup action are summarized below.

3.1.1. Cleanup Levels

Site-specific cleanup levels were established in the CAP (GeoEngineers, 2011a). Site-specific cleanup levels were developed in accordance with MTCA to protect human health and terrestrial

wildlife. Site-specific soil cleanup level for total endosulfans (soil indicator hazardous substance) is 2.4 milligrams/kilogram (mg/kg).

3.1.2. Point of Compliance

Under MTCA, the point of compliance is the point or locations on a site where the cleanup levels must be attained. The point of compliance for the cleanup action was established in the CAP (GeoEngineers, 2011a) and was developed in accordance with MTCA to be protective of human health, terrestrial wildlife and protection of groundwater. The point of compliance for the cleanup action was full depth of the soil column.

3.1.3. Applicable Regulatory Requirements

Because the Site cleanup action was performed pursuant to the MTCA under the terms of the Consent Decree with Ecology, the cleanup action met the permit exemption provisions of MTCA (WAC 173-340-710[9]), obviating the need to follow the procedural requirements of most State and local laws that would otherwise apply to the action. The project did however require the following permits:

- Nationwide Permit (NWP) 38 – The cleanup action required a U.S. Army Corp of Engineers (USACE) NWP 38 to complete the remedial actions and restoration work within the wetlands at the Site. Following Endangered Species Act consultation with the Federal Natural Resource Trustees, and incorporating Ecology's Section 401 Water Quality Certification, the USACE issued the letter acknowledging coverage under NWP 38 (Permit No. NWS-2008-19) on July 17, 2008. An extension to this permit was granted by the USACE on July 20, 2010 and a permit re-verification letter was issued on February 15, 2011. The documents related to the permit, the permit extension and the permit re-verification are included as an attachment to the EDR (GeoEngineers, 2011b).
- Construction Stormwater General Permit – The cleanup action required coverage under the Construction Stormwater General Permit (CSWGP) because the disturbance resulting due to remedial actions was more than one acre. On June 3, 2011, Ecology issued a letter acknowledging coverage under the CSWGP (Permit No. WAR-124975) to the Port for the cleanup action. This permit was later transferred to Clearcreek Contractors, Inc. (Clearcreek) who was contracted by the Port to implement the cleanup action. Following completion of the cleanup action, Clearcreek submitted a notice of termination for CSWGP. The CSWGP coverage letter issued to the Port by Ecology is included as an attachment to the EDR (GeoEngineers, 2011b). Copies of Ecology's letter acknowledging transfer of CSWGP coverage dated September 28, 2011 and CSWGP termination dated November 8, 2012 are presented in Attachment 1.
- Road Access Permit – As part of the Site preparation work for the cleanup action, an asphalt overlay was completed on the portion of Bayview Road used for transporting contaminated soil from the Site. Completion of the asphalt overlay is described in Section 3.2. An application for Road Access Permit was made to tie-in Bayview Road overlay with Farm to Market Road. Subsequently, Road Access Permit AC No. 11-0051 and RD No. 31010 were approved by Skagit County Planning and Development Services on September 12, 2011. A copy of the Road Access Permit is presented in Attachment 2.

In addition to the permits listed above, the substantive requirements of applicable State and local laws and other applicable regulatory requirements were also followed during implementation of the Site cleanup activities, including:

- Requirements of the Companion Order (Order Docket No. 8564) to the CSWGP issued by Ecology to the Port on July 6, 2011 (Ecology, 2011a);
- Substantive requirements of Skagit County Critical Area Ordinance;
- Substantive requirements of Skagit County Grading Permit;
- Washington State Dangerous Waste Regulations (WAC 173-303) for waste designation, storage, handling and disposal of State-only dangerous waste soils generated at the Site;
- Requirements of the State Environmental Policy Act (SEPA) (Revised Code of Washington [RCW] 43.21C; WAC 197-11) and the SEPA procedures (WAC 173-802);
- Northwest Clean Air Agency substantive restrictions for off-site transport of airborne particulates;
- Noise ordinance requirements under State environmental noise standards (WAC 173-60);
- Requirements of the Washington Industrial Safety and Health Act (RCW 49.17) and the Federal Occupational Safety and Health Act (29 CFR 1910, 1926) for health and safety during construction activities; and
- Requirements of WAC 173-160 (minimum standards for construction and maintenance of wells) for groundwater monitoring well decommissioning and construction.

3.2. Site Preparation

3.2.1. Monitoring Well Abandonment

A total of eight monitoring wells MW-1, MW-2, MW-3, GEI-MW-4, GEI-MW-5, GEI-MW-6, GEI-MW-7 and GEI-MW-8 were abandoned by a Washington State licensed driller in accordance with Ecology requirements WAC 173-160-460. Monitoring well decommissioning records are included in Appendix A. The approximate locations of the decommissioned monitoring wells are shown in Figure 2.

3.2.2. Bayview Road Repair and Asphalt Overlay

In preparation for Site cleanup activities and to protect the existing infrastructure from damage by the construction equipment, road protection was installed for the portion of Bayview Road located between Farm-to-Market Road and Taxiway F and portions of Taxiway F used for Site access and heavy hauling activities. Existing road protection work for Bayview Road included patching portions of the roadway containing major cracks and pot holes followed by placement of a 3-inch asphalt overly across the entire road surface and placement of new crushed rock shoulder. Existing road protection work for Taxiway F included patching portions of the taxiway containing major cracks and pot holes. Record (as-built) drawings showing details of pavement repair and asphalt overly are presented in Appendix B.

3.2.3. Clearing of Forested Areas

Vegetated/forested areas within the excavation boundary (approximately 1 acre) were cleared and grubbed in preparation for the excavation of contaminated soil at the Site. Mature cedar trees located within and adjacent to the remedial excavation area, shown in Figure 2, were protected such that remedial excavation activities within the vicinity of these trees stopped at the tree's drip line. As discussed below in Section 3.2.4, trees and other vegetation removed from the Site were salvaged and chipped for reuse as mulch for Site restoration activities. To the extent practical, removal of trees and vegetation from the Site was completed in a manner to minimize contact with contaminated soils. Stumps and root bases in contact with contaminated soils were separated, chipped separately and transported from the Site for permitted landfill disposal.

3.2.4. Wood Recycling

Above-ground tree materials removed from the Site, including tree trunks and branches measuring approximately 6 inches in diameter or less, were chipped on Site to create mulch which was later used during Site restoration activities. Tree trunks and branches measuring greater than approximately 6 inches in diameter were salvaged and placed back within the forested buffer areas adjacent to the remedial excavation. Stumps and root structures of trees and other vegetation in contact with the contaminated soil were chipped separately on Site and were used to stabilize haul routes within the remedial excavation area used to transport excavated contaminated soil. The chipped wood debris used to stabilize haul road surfaces was ultimately removed from the Site for permitted landfill disposal during soil excavation activities. Transport and disposal of contaminated soil and debris is discussed in Section 3.3. Site Restoration activities are discussed in Section 3.4.

3.2.5. Site Demolition

Site demolition activities generally consisted of demolition and removal of asphalt and concrete surfaces and other above-ground structures and debris to access the contaminated soil as discussed below.

3.2.5.1. DEMOLITION OF ASPHALT AND CONCRETE SURFACES

Paved surfaces within the Historical Operations Area including the asphalt driveway and the asphalt and concrete floor of the hangar building were demolished to access the contaminated soil. Demolition debris resulting from these activities was transported from the Site for permitted landfill disposal. Transport and disposal of contaminated soil and debris is discussed in Section 3.3.

3.2.5.2. DEMOLITION/REMOVAL OF OTHER ABOVE-GROUND STRUCTURES AND DEBRIS

An abandoned light pole and an abandoned water hydrant located in the northern portion of the Historical Operations Area were demolished during remedial excavation activities to access contaminated soils. In addition, portions of the debris piles located within the limits of the remedial excavation (Figure 2) were also removed to access contaminated soil. Above-ground structures and debris removed to access contaminated soils were transported from the Site for permitted landfill disposal. Transport and disposal of contaminated soil and debris is discussed in Section 3.3.

3.2.6. Temporary Site Controls

Temporary site controls including site access control, traffic control, temporary sediment and erosion control/stormwater pollution prevention, and dust and noise control were implemented in general accordance with the EDR (GeoEngineers, 2011b), project drawings and specifications and/or stormwater pollution prevention plan (SWPPP; GeoEngineers, 2011e).

3.3. Remedial Excavation Activities

Remedial excavation activities were completed at the Site between October 3, 2011 and November 9, 2011 in accordance with the CAP (GeoEngineers, 2011a) and the EDR (GeoEngineers, 2011b) to remove soil containing pesticides and herbicides at concentrations exceeding the cleanup standards for the Site (Section 3.1). The limits of remedial excavation are shown relative to the Site in Figure 2.

Remedial excavation activities were primarily completed to remove soil contaminated with pesticides and herbicides; however, removal of an isolated area of soil containing petroleum-related contamination, discovered during the construction, was also completed during excavation. A GeoEngineers field representative was on-site to observe excavation activities, assist excavation contractor (Clearcreek Contractors, Inc.) in identifying and removing contaminated soil from the Site, and to perform field screening and obtain verification soil samples for chemical analysis. Verification soil samples were collected at the frequency specified by the EDR (GeoEngineers, 2011b) and were submitted to OnSite Environmental, Inc. (OnSite) of Redmond, Washington to complete chemical analysis.

Chemical analytical results for verification soil samples obtained from the limits of remedial excavation are summarized in Tables 1 and 2. Field screening and soil sampling procedures are described in Appendix C. Copies of the chemical analytical reports for verification soil samples obtained from the limits of remedial excavation are presented in Appendix D. Laboratory validation reports are presented in Appendix E. The validated chemical analytical results have also been uploaded to Ecology's EIM database.

Based on field screening results, visual observations and the results of verification samples obtained during remedial excavation activities, a total of 6,612 tons of contaminated soil and debris was removed from the Site for permitted landfill disposal. Contaminated soil and debris generated from the Site were designated as Washington State-only dangerous waste under toxic and persistent waste criteria and therefore were managed pursuant to WAC 173-303 on Site and during transport to the landfill. Contaminated soil and debris were disposed at Republic Services' Roosevelt Regional Landfill located in Klickitat County, Washington (a Subtitle D facility). A copy of the Certificate of Disposal and detailed disposal log from Republic Services is presented in Appendix F.

Details regarding the pesticide and herbicide excavation, and the petroleum hydrocarbon excavation are summarized in Section 3.3.1 and 3.3.2. Characterization activities for soil generated outside of the limits of remedial excavation are summarized in Section 3.4.1.

3.3.1. Pesticide/Herbicide Excavation and Chemical Analytical Results

The limits of remedial excavation to remove pesticides and herbicides contaminated soil are shown in Figures 3 and 4. The limits of remedial excavation measured approximately 2.4 acres. The excavation area was divided into twenty excavation units (Excavation Units A through T) based on planned excavation base elevations. Remedial excavation activities were completed vertically to the assigned excavation base elevations and base verification soil samples were obtained to verify that the soil cleanup levels were achieved. The excavation units with corresponding excavation base elevations and locations of the base verification soil samples are shown in Figures 3 and 4.

In accordance with the EDR (GeoEngineers, 2011b), remedial excavation activities were completed laterally to the established limits defined by existing samples (samples obtained and analyzed during environmental investigations completed at the Site prior to the cleanup action) in which analyte concentrations either were not detected or were detected at concentrations less than site-specific soil cleanup levels. The approximate locations of the existing confirmation soil samples that define the lateral limits of the remedial excavation are shown in Figures 3 and 4. The chemical analytical results for these sampling locations are documented in the RI/FS Report (GeoEngineers, 2011c) for the project.

A total of 162 base verification soil samples (EX-1-111 through EX-161-121 and A-2-116.5R) and 17 field duplicate soil samples (DUP-1 through DUP-17) were obtained from the base of the remedial excavation at the frequency specified by the EDR (GeoEngineers, 2011b). The samples collected were submitted to OnSite for chemical analysis of the Total Endosulfan (Endosulfan I, Endosulfan II and Endosulfan Sulfate) by EPA Method 8081A.

Total endosulfans were either not detected or detected at concentrations less than the site-specific cleanup level in all of the base verification soil samples and duplicate soil samples submitted for chemical analysis. Chemical analytical results for samples EX-1-111 through EX-161-121, A-2-116.5R, and DUP-1 through DUP-17 are summarized in Table 1. Soil sample locations as well as the chemical analytical results for total endosulfans are shown in Figures 3 and 4.

3.3.2. Petroleum Hydrocarbon Excavation and Chemical Analytical Results

Remedial excavation activities completed to remove soil containing petroleum-related contaminants measured approximately 14 feet long by 14 feet wide by 4½ feet deep and was located in the southern portion of Excavation Unit C adjacent to the hangar building (Figure 4). The excavation extended vertically and laterally to remove soil with visual and field screening evidence of petroleum-related contamination. Excavation activities continued until chemical analytical results of verification soil samples indicated that contaminant concentrations were less than site-specific soil cleanup levels.

A total of seven soil samples (PCS-120, A-1-117, A-2-116.5, A-3-119.5, A-4-119.5, A-5-119.5 and A-6-119.5) obtained from the petroleum hydrocarbon excavation were submitted to OnSite for chemical analyses of one or more of the following:

- Gasoline-Range Hydrocarbons, and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) compounds by NWTPH-Gx & EPA Method 8021 or 8260B.

- Diesel- and Lube Oil-Range Hydrocarbons by NWTPH-Dx.
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D/SIM.
- Total Lead by EPA Method 6010B.

Soil sample PCS-120 was obtained to characterize the petroleum-related contaminated soil for disposal. Soil samples A-1-117 through A-6-119.5 were obtained from the limits of excavation to verify the successful removal of contaminated soil from this location. Gasoline-, diesel- and lube oil- range hydrocarbons, PAHs and lead either were not detected or were detected at concentrations less than site-specific cleanup levels in each of the verification soil samples, with one exception. Benzene was detected at concentrations greater than site-specific cleanup levels in soil sample A-1-117. Subsequently, soil represented by sample A-1-117 was excavated and removed from the Site for permitted landfill disposal. Soil samples A-2-116.5, A-3-119.5, A-4-119.5, A-5-119.5 and A-6-119.5 represent soil conditions at the final petroleum hydrocarbon excavation limit.

Chemical analytical results for soil samples PCS-120, A-1-117, A-2-116.5, A-3-119.5, A-4-119.5, A-5-119.5 and A-6-119.5 are summarized in Table 2. Soil sample locations as well as the chemical analytical results for gasoline-range hydrocarbons and benzene (analytes detected at concentrations exceeding site cleanup levels) are shown in Figure 5.

3.4. Site Restoration

Site restoration activities were initiated following confirmation that pesticide, herbicide and petroleum-related contaminated soil were successfully removed from the Site. Site restoration activities were completed as per the requirements of the EDR (GeoEngineers, 2011b), Updated Wetland Restoration Plan (GeoEngineers, 2011d) and project drawings and specifications. The following sections summarize activities completed to restore the Site.

3.4.1. Asphalt Driveway Subgrade Excavation and Soil Characterization

A total of approximately 1,100 cubic yards of soil was generated from excavation activities outside the final remedial excavation limit to facilitate the final paving and grading activities for the asphalt driveway (see Figure 2). Soil generated from this area was managed separately from the pesticide/herbicide contaminated soil and was profiled for contaminants of concern (COCs) previously detected at the Site at concentrations exceeding site-specific cleanup levels.

A total of ten characterization soil samples (SPO-1 through SPO-10) and one duplicate sample (DUP-18) were obtained to characterize soil generated from this excavation area[1]. Soil samples were submitted to OnSite for chemical analyses of the following:

[1] Soil samples were obtained at the frequency indicated by Table 6.9 of Ecology's Guidance for Remediation of Petroleum Contaminated Sites (Ecology, 2011b). Duplicate soil samples were collected at a frequency of one per every ten soil samples.

- Chlorinated pesticides (aldrin, alpha- and gamma-chlordane, 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, dieldrin, endosulfan I, endosulfan II, endosulfan sulfate, heptachlor, heptachlor epoxide, and toxaphene) by EPA Method 8081A;
- Chlorinated acid herbicides (dinoseb and pentachlorophenol) by EPA Method 8151A; and
- Miscellaneous pesticides and herbicides (atrazine, chlorothalonil, terbutryn, trifluralin and vernolate) by EPA Method 8081B or 8270D.

Site COCs were not detected in any of the characterization soil samples submitted for chemical analysis. Chemical analytical results for soil samples SPO-1 through SPO-10 and DUP-18 are summarized in Table 3. A copy of the chemical analytical report for stockpile soil characterization sample is presented in Appendix D. The laboratory validation report is presented in Appendix E.

Soil generated by these activities was subsequently transported from the Site and used to regrade a section of land owned by the Port, located west of Taxiway F and south of Bayview Road.

3.4.2. Utilities

After the completion of remedial excavation activities the following functional utilities that were disconnected to facilitate excavation were reconnected/restored to its original function:

- Underground power line feeding power to the livestock well.
- Underground water line feeding water from the livestock well to the water hydrant (spigot) located in the northeast portion of the Historical Operations Area.

In accordance with the EDR (GeoEngineers, 2011b), previously abandoned underground utilities including abandoned underground power lines, propane line and water lines uncovered and removed during remedial excavation activities were not restored.

3.4.3. Backfilling and Grading

Backfilling and grading activities of excavated areas were completed to restore surface grades to the design elevations and to restore pre-existing wetland function and rainwater runoff drainage flow at the Site. Imported material that met the chemical analytical and geotechnical requirements for reuse was used as backfill. Chemical analytical results for the approved imported materials, which were used as backfill on the Site, are presented in Appendix G. Areas excavated during the cleanup action were backfilled as follows:

- Areas excavated underneath the hangar building and within the existing asphalt driveway and gravel surfaces were backfilled with clean, imported structural fill material and/or aggregates as specified in project specifications and/or as approved by Port of Skagit. These materials were imported from Concrete Nor'West, division of Miles Sand and Gravel.
- Areas excavated within the existing vegetated/forested areas including wetlands were backfilled with a clean topsoil mix consisting a mixture of aggregates and compost as specified in project specification and/or as approved by Port of Skagit. Topsoil material was imported from Lenz Enterprises, Inc. located at 5410 State Route 532 in Stanwood, Washington 98292.

3.4.4. Surface Restoration

Surface restoration activities were completed at the Site following the completion of backfilling and grading activities to restore asphalt, concrete and gravel surfaces that were demolished or disturbed during the cleanup action. Surface restoration consisted of restoring the asphalt pavement of the asphalt driveway, the concrete floor of the hangar building and the gravel surface located south of asphalt driveway and hangar building. These surface restoration activities were completed in general accordance with project drawings and specification and/or as directed by Port of Skagit. The limits of the restored asphalt, concrete and gravel surface are shown in Figure 6. Construction details of these restored surface features are presented in the record (as-built) drawings included in Appendix B.

3.4.5. Re-Vegetation and Wetland Restoration

Re-vegetation and wetland restoration activities were completed at the Site following the completion of backfilling and grading activities to restore vegetated/forested areas that were excavated and/or disturbed during cleanup action construction. Re-vegetation and wetland restoration consisted of planting and/or seeding of these vegetated/forested areas including portions of Wetland A, B, C, and D, wetland buffers and vegetated upland areas as per the requirements of Updated Wetland Restoration Plan (GeoEngineers, 2011d) and U.S. Army Corps of Engineers NWP 38 No. NWS-2008-19.

Re-vegetation and wetland restoration activities completed at the Site are detailed in the Re-Vegetation and Wetland Restoration As-built Report included in Appendix H.

4.0 CONFIRMATIONAL (POST-CONSTRUCTION) GROUNDWATER MONITORING

In accordance with the CAP (GeoEngineers, 2011a) and EDR (GeoEngineers, 2011b), post-construction confirmational groundwater monitoring is being performed at the Site to monitor groundwater indicator hazardous substances to evaluate the long-term effectiveness of the cleanup action. The results of confirmational groundwater monitoring will be reported to Ecology under a separate cover.

5.0 CONCLUSIONS

The cleanup action completed at the Site successfully met the cleanup action objectives established in the CAP (GeoEngineers, 2011a) and outlined in Section 3.0 of this report. The cleanup action mitigates risks at the Site associated with the following potential receptors and exposure routes:

- Direct contact (dermal, incidental ingestion, or inhalation) with contaminated shallow soils by Site visitors and workers (including construction workers).
- Direct contact (dermal, incidental ingestion, or inhalation) with contaminated shallow soils by domestic animals (livestock) and terrestrial wildlife.

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

6.0 LIMITATIONS

This report has been prepared for the exclusive use of the Port of Skagit and the Washington State Department of Ecology. No other party may rely on the product of our services unless we agree in advance and in writing to such reliance. Any use of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and written authorization by GeoEngineers, Inc., shall be at the user's sole risk. Any unauthorized use of (or reliance on) this report shall release GeoEngineers from any liability resulting from such use (or reliance). Within the limitations of scope, schedule, and budget, GeoEngineers, Inc.'s respective services have been provided in a manner consistent with that level of care and skill exercised by members of the profession currently practicing in the same locality under similar conditions as this project. GeoEngineers, Inc. assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available.

Within the limitations of scope, schedule and budget, GeoEngineers, Inc.'s services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, expressed or implied, should be understood.

Any electronic form, facsimile, or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

7.0 REFERENCES

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TABLES

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Table 1

Summary of Soil Sample Chemical Analytical Results
Pesticide/Herbicide Excavation Area

Taxiway F Site, Skagit County Regional Airport
Burlington, Washington

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Chlorinated Pesticides by EPA 8081A (µg/kg)			
				Endosulfan I	Endosulfan II	Endosulfan Sulfate	Total Endosulfan[3]
Remedial Excavation Base Verification Soil Samples							
EX-1-111	1110-013-01	10/3/11	111	6.4 U	13 U	13 U	13 U
EX-2-110.5	1110-013-02	10/3/11	110.5	59	78	150	287
EX-3-110.5	1110-013-03	10/3/11	110.5	6.4 U	13 U	13 U	13 U
EX-4-110.5	1110-013-04	10/3/11	110.5	6.3 U	13 U	13 U	13 U
EX-5-110.5	1110-013-05	10/3/11	110.5	6.3 U	13 U	13 U	13 U
EX-6-110.5	1110-013-06	10/3/11	110.5	6.8 U	14 U	14 U	14 U
EX-7-111	1110-013-07	10/3/11	111	6.1 U	12 U	12 U	12 U
EX-8-111	1110-019-01	10/4/11	111	17	69	120	206
EX-9-111	1110-019-02	10/4/11	111	260	310	280	850
EX-10-111	1110-019-03	10/4/11	111	5.9 U	12 U	12 U	12 U
EX-11-111	1110-019-04	10/4/11	111	7	17	21	45
EX-12-111.5	1110-019-05	10/4/11	111.5	9.8	29	49	87.8
EX-13-111.5	1110-019-06	10/4/11	111.5	13	20	15	48
EX-14-111.5	1110-019-07	10/4/11	111.5	56	170	220	446
EX-15-112	1110-019-08	10/4/11	112	5.7 U	11 U	18	18
EX-16-112	1110-019-09	10/4/11	112	9.6	28	39	76.6
EX-17-112	1110-019-10	10/4/11	112	5.6 U	11 U	11 U	11 U
EX-18-112	1110-019-11	10/4/11	112	34	68	99	201
EX-19-112	1110-019-12	10/4/11	112	6.2 U	12 U	12 U	12 U
EX-20-112	1110-019-13	10/4/11	112	6.2 U	12 U	12 U	12 U
EX-21-112.5	1110-019-14	10/4/11	112.5	11	14	16	41
EX-22-112.5	1110-019-15	10/4/11	112.5	22	21	13 U	43
EX-23-112.5	1110-019-16	10/4/11	112.5	19	13 U	13 U	19
EX-24-112.5	1110-019-17	10/4/11	112.5	5.7 U	11 U	11 U	11 U
EX-25-113	1110-039-01	10/5/11	113	390	240	210	840
EX-26-113	1110-039-02	10/5/11	113	5.6 U	11 U	11 U	11 U
EX-27-113	1110-039-03	10/5/11	113	160	110	12 U	270
EX-28-113	1110-039-04	10/5/11	113	69	120	190	379
EX-29-112.5	1110-039-05	10/5/11	112.5	6 U	12 U	12 U	12 U
EX-30-112.5	1110-039-06	10/5/11	112.5	6 U	15	31	46
EX-31-112.5	1110-039-07	10/5/11	112.5	6.1 U	12 U	12 U	12 U
EX-32-113	1110-039-08	10/5/11	113	32	19	12 U	51
EX-33-113	1110-039-09	10/5/11	113	30	20	26	76
EX-34-112.5	1110-039-10	10/5/11	112.5	9.1	13 U	15	24.1
EX-35-112.5	1110-039-11	10/5/11	112.5	6.1 U	12 U	16	16
EX-36-112.5	1110-039-12	10/5/11	112.5	6 U	12 U	12 U	12 U
EX-37-113	1110-039-13	10/5/11	113	6.7 U	13	29	42
EX-38-113	1110-039-14	10/5/11	113	14 J	12 U	12 U	14 J
EX-39-113	1110-039-15	10/5/11	113	39	17	19	75
EX-40-112.5	1110-039-16	10/5/11	112.5	6.3 U	13 U	13 U	13 U
Site Specific Cleanup Level[4]				**See Total Endosulfan**			**2,400**

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Chlorinated Pesticides by EPA 8081A (µg/kg)			
				Endosulfan I	Endosulfan II	Endosulfan Sulfate	Total Endosulfan[3]
EX-41-113.5	1110-039-17	10/5/11	113.5	5.9 U	12 U	12 U	12 U
EX-42-113.5	1110-039-18	10/5/11	113.5	120	100	12 U	220
EX-43-113.5	1110-039-19	10/5/11	113.5	20	23	21	64
EX-44-113.5	1110-039-20	10/5/11	113.5	12	13 U	13 U	12
EX-45-113.5	1110-039-21	10/5/11	113.5	54	30	12 U	84
EX-46-113.5	1110-039-22	10/5/11	113.5	5.8 U	12 U	12 U	12 U
EX-47-113.5	1110-039-23	10/5/11	113.5	6.1 U	12 U	24	24
EX-48-113.5	1110-039-24	10/5/11	113.5	6.2 U	12 U	12 U	12 U
EX-49-113.5	1110-039-25	10/5/11	113.5	6.6 U	13 U	13 U	13 U
EX-50-114.5	1110-047-01	10/6/11	114.5	5.7 U	11 U	11 U	11 U
EX-51-114.5	1110-047-03	10/6/11	114.5	5.8 U	12 U	12 U	12 U
EX-52-114.5	1110-047-04	10/6/11	114.5	20	12 U	12 U	20
EX-53-114.5	1110-047-05	10/6/11	114.5	15 J	17	32 J	64 J
EX-54-114.5	1110-047-07	10/6/11	114.5	56	31	13 U	87
EX-55-114.5	1110-047-08	10/6/11	114.5	6.1 U	12 U	12 U	12 U
EX-56-114.5	1110-047-09	10/6/11	114.5	6 U	12 U	12 U	12 U
EX-57-115.5	1110-047-10	10/6/11	115.5	5.7 U	11 U	11 U	11 U
EX-58-115.5	1110-047-11	10/6/11	115.5	5.5 U	11 U	11 U	11 U
EX-59-115.5	1110-047-12	10/6/11	115.5	6 U	12 U	12 U	12 U
EX-60-115.5	1110-047-14	10/6/11	115.5	60	63	31	154
EX-61-116	1110-047-15	10/6/11	116	5.6 U	11 U	11 U	11 U
EX-62-116	1110-047-16	10/6/11	116	5.4 U	23	150	173
EX-63-116	1110-047-18	10/6/11	116	23	28	20	71
EX-64-116	1110-047-19	10/6/11	116	100	52	12 U	152
EX-65-116	1110-047-21	10/6/11	116	5.7 U	11 U	11 U	11 U
EX-66-116	1110-047-22	10/6/11	116	5.4 U	11 U	11 U	11 U
EX-67-116	1110-047-23	10/6/11	116	5.9 U	12 U	12 U	12 U
EX-68-116	1110-047-24	10/6/11	116	6 U	12 U	12 U	12 U
EX-69-116	1110-047-25	10/6/11	116	5.9 U	12 U	12 U	12 U
EX-70-117	1110-047-26	10/6/11	117	6.3 U	13 U	13 U	13 U
EX-71-117	1110-047-27	10/6/11	117	6.1 U	12 U	12 U	12 U
EX-72-117	1110-047-28	10/6/11	117	5.5 U	11 U	11 U	11 U
EX-73-117	1110-047-29	10/6/11	117	5.6 U	11 U	11 U	11 U
EX-74-117	1110-047-30	10/6/11	117	6 U	12 U	12 U	12 U
EX-75-117	1110-047-34	10/6/11	117	6.5 U	13 U	13 U	13 U
EX-76-119	1110-047-32	10/6/11	119	5.9 U	12 U	12 U	12 U
EX-77-118	1110-047-33	10/6/11	118	5.9 U	12 U	12 U	12 U
EX-78-118	1110-061-01	10/7/11	118	6.7 U	13 U	13 U	13 U
EX-79-118	1110-061-02	10/7/11	118	6.2 U	12 U	12 U	12 U
EX-80-118	1110-061-03	10/7/11	118	6.5 U	13 U	13 U	13 U
EX-81-118	1110-061-04	10/7/11	118	6.2 U	12 U	12 U	12 U
EX-82-119	1110-061-05	10/7/11	119	6.6 U	13 U	13 U	13 U
EX-83-119	1110-061-06	10/7/11	119	5.9 U	12 U	12 U	12 U
EX-84-119	1110-061-07	10/7/11	119	66	22	13 U	88
EX-85-119	1110-061-08	10/7/11	119	6.2 U	12 U	12 U	12 U
Site Specific Cleanup Level[4]				**See Total Endosulfan**			**2,400**

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Chlorinated Pesticides by EPA 8081A (µg/kg)			
				Endosulfan I	Endosulfan II	Endosulfan Sulfate	Total Endosulfan[3]
EX-86-119	1110-061-09	10/7/11	119	6.1 U	12 U	12 U	12 U
EX-87-119	1110-061-10	10/7/11	119	6.2 U	12 U	12 U	12 U
EX-88-119	1110-061-11	10/7/11	119	18	13 U	13 U	18
EX-89-119	1110-061-13	10/7/11	119	6.6 U	13 U	13 U	13 U
EX-90-120	1110-069-01	10/10/11	120	6.2 U	12 U	12 U	12 U
EX-91-120	1110-069-02	10/10/11	120	9.9	13 U	13 U	9.9
EX-92-120	1110-069-03	10/10/11	120	6.6 U	13 U	13 U	13 U
EX-93-120	1110-069-04	10/10/11	120	6 U	12 U	12 U	12 U
EX-94-120	1110-069-05	10/10/11	120	5.9 U	12 U	12 U	12 U
EX-95-120	1110-069-06	10/10/11	120	5.8 U	12 U	12 U	12 U
EX-96-120	1110-069-07	10/10/11	120	5.9 U	12 U	12 U	12 U
EX-97-120	1110-069-08	10/10/11	120	54	12 U	12 U	54
EX-98-120	1110-069-09	10/10/11	120	5.7 U	11 U	11 U	11 U
EX-99-120	1110-069-10	10/10/11	120	6.4	11 U	11 U	6.4
EX-100-120	1110-069-11	10/10/11	120	5.9 U	12 U	12 U	12 U
EX-101-120	1110-069-12	10/10/11	120	5.7 U	11 U	11 U	11 U
EX-102-120	1110-069-13	10/10/11	120	23	13 U	17	40
EX-103-120	1110-069-14	10/10/11	120	6 U	12 U	12 U	12 U
EX-104-120	1110-096-01	10/11/11	120	6.1 U	12 U	12 U	12 U
EX-105-120	1110-096-02	10/11/11	120	6.4 U	13 U	13 U	13 U
EX-106-119	1110-096-03	10/12/11	119	6.4 U	13 U	13 U	13 U
EX-107-120	1110-096-04	10/12/11	120	6.2 U	12 U	12 U	12 U
EX-108-120	1110-096-05	10/12/11	120	6.9 U	14 U	14 U	14 U
EX-109-120	1110-096-06	10/12/11	120	6.5 U	13 U	13 U	13 U
EX-110-120	1110-113-20	10/13/11	120	6.2 U	12 U	12 U	12 U
EX-111-120	1110-113-21	10/13/11	120	6.1 U	12 U	12 U	12 U
EX-112-120	1110-113-22	10/13/11	120	6.8 U	14 U	14 U	14 U
EX-113-120	1110-113-01	10/14/11	120	5.7 U	11 U	11 U	11 U
EX-114-120	1110-113-02	10/14/11	120	6.4 U	13 U	13 U	13 U
EX-115-120	1110-113-03	10/14/11	120	6.1 U	12 U	12 U	12 U
EX-116-120	1110-113-04	10/14/11	120	6.1 U	12 U	12 U	12 U
EX-117-120	1110-113-05	10/14/11	120	6.1 U	12 U	12 U	12 U
EX-118-120	1110-113-06	10/14/11	120	6.7 U	13 U	13 U	13 U
EX-119-120	1110-113-07	10/14/11	120	6.1 U	12 U	12 U	12 U
EX-120-120	1110-113-08	10/14/11	120	6.2 U	12 U	12 U	12 U
EX-121-120	1110-113-09	10/14/11	120	6.4 U	13 U	13 U	13 U
EX-122-120	1110-113-11	10/14/11	120	5.4 U	11 U	11 U	11 U
EX-123-120	1110-113-12	10/14/11	120	6.4 U	13 U	13 U	13 U
EX-124-121	1110-113-13	10/14/11	121	6.4 U	13 U	13 U	13 U
EX-125-121	1110-113-15	10/14/11	121	5.8 U	12 U	12 U	12 U
EX-126-121	1110-113-16	10/14/11	121	5.6 U	11 U	11 U	11 U
EX-127-121	1110-113-17	10/14/11	121	6.3 U	13 U	13 U	13 U
EX-128-120	1110-113-18	10/14/11	120	6.2 U	12 U	12 U	12 U
EX-129-120	1110-113-19	10/14/11	120	6.2 U	12 U	12 U	12 U
EX-130-121	1110-118-01	10/17/11	121	6.4 U	13 U	13 U	13 U
Site Specific Cleanup Level[4]				**See Total Endosulfan**			**2,400**

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Chlorinated Pesticides by EPA 8081A (µg/kg)			
				Endosulfan I	Endosulfan II	Endosulfan Sulfate	Total Endosulfan[3]
EX-131-121	1110-118-02	10/17/11	121	6.3 U	13 U	13 U	13 U
EX-132-121	1110-118-03	10/17/11	121	6.2 U	12 U	12 U	12 U
EX-133-121	1110-118-04	10/17/11	121	6.2 U	12 U	12 U	12 U
EX-134-121	1110-118-05	10/17/11	121	6.2 U	12 U	12 U	12 U
EX-135-121	1110-118-06	10/17/11	121	6.2 U	12 U	12 U	12 U
EX-136-121	1110-118-07	10/17/11	121	6 U	12 U	12 U	12 U
EX-137-121	1110-127-01	10/18/11	121	6.5 U	13 U	13 U	13 U
EX-138-121	1110-127-02	10/18/11	121	6.5 U	13 U	13 U	13 U
EX-139-122	1110-127-03	10/18/11	122	6.5 U	13 U	13 U	13 U
EX-140-122	1110-127-04	10/18/11	122	6.4 U	13 U	13 U	13 U
EX-141-122	1110-127-05	10/18/11	122	6.5 U	13 U	13 U	13 U
EX-142-121	1110-127-06	10/18/11	121	6 U	12 U	12 U	12 U
EX-143-121	1110-157-01	10/21/11	121	6.1 U	12 U	12 U	12 U
EX-144-121	1110-157-02	10/21/11	121	6.3 U	13 U	13 U	13 U
EX-145-121	1110-157-03	10/21/11	121	6.3 U	13 U	13 U	13 U
EX-146-120	1110-171-01	10/25/11	120	5.9 U	12 U	12 U	12 U
EX-147-120	1110-171-02	10/25/11	120	6.3 U	13 U	13 U	13 U
EX-148-120	1110-171-03	10/25/11	120	6.7 U	13 U	13 U	13 U
EX-149-120	1110-171-04	10/25/11	120	6.6 U	13 U	13 U	13 U
EX-150-120	1110-171-05	10/25/11	120	6.3 U	13 U	13 U	13 U
EX-151-120	1111-067-01	11/9/11	120	6.1 U	12 U	12 U	12 U
EX-152-120	1111-067-02	11/9/11	120	6.9 U	14 U	14 U	14 U
EX-153-121	1111-067-03	11/9/11	121	6.2 U	12 U	12 U	12 U
EX-154-122	1111-067-04	11/9/11	122	6.5 U	13 U	13 U	13 U
EX-155-122	1111-067-05	11/9/11	122	6.8 U	14 U	14 U	14 U
EX-156-122	1111-067-06	11/9/11	122	6.7 U	13 U	13 U	13 U
EX-157-121	1111-067-07	11/9/11	121	6.3 U	13 U	13 U	13 U
EX-158-121	1111-067-08	11/9/11	121	6.2 U	12 U	12 U	12 U
EX-159-121	1111-067-09	11/9/11	121	5.9 U	12 U	12 U	12 U
EX-160-121	1111-067-10	11/9/11	121	6 U	12 U	12 U	12 U
EX-161-121	1111-067-11	11/9/11	121	6.1 U	12 U	12 U	12 U
A-2-116.5R	1110-156-01	10/21/11	116.5	6 U	12 U	12 U	12 U
DUP-1 (EX-26-113)	1110-039-26	10/5/11	113	5.6 U	11 U	11 U	11 U
DUP-2 (EX-31-112.5)	1110-039-27	10/5/11	112.5	6.1 U	12 U	12 U	12 U
DUP-3 (EX-38-113)	1110-039-28	10/5/11	113	36 J	25	12 U	61 J
DUP-4 (EX-50-114.5)	1110-047-02	10/6/11	114.5	5.7 U	11 U	11 U	11 U
DUP-5 (EX-53-114.5)	1110-047-06	10/6/11	114.5	8.6 J	13 U	16 J	24.6 J
DUP-6 (EX-58-115.5)	1110-047-13	10/6/11	115.5	5.5 U	11 U	11 U	11 U
Site Specific Cleanup Level[4]				**See Total Endosulfan**			**2,400**

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Chlorinated Pesticides by EPA 8081A (µg/kg)			
				Endosulfan I	Endosulfan II	Endosulfan Sulfate	Total Endosulfan[3]
DUP-7 (EX-61-116)	1110-047-17	10/6/11	116	5.6 U	11 U	11 U	11 U
DUP-8 (EX-64-116)	1110-047-20	10/6/11	116	130	70	12 U	200
DUP-9 (EX-75-117)	1110-047-31	10/6/11	117	6.5 U	13 U	13 U	13 U
DUP-10 (EX-88-119)	1110-061-12	10/7/11	119	6.5 U	13 U	13 U	13 U
DUP-11 (EX-89-119)	1110-061-14	10/7/11	119	6.7 U	13 U	13 U	13 U
DUP-12 (EX-96-120)	1110-069-15	10/10/11	120	7.4 U	15 U	15 U	15 U
DUP-13 (EX-121-120)	1110-113-10	10/14/11	120	6.2 U	12 U	12 U	12 U
DUP-14 (EX-124-121)	1110-113-14	10/14/11	121	6.2 U	12 U	12 U	12 U
DUP-15 (EX-135-121)	1110-118-08	10/17/11	121	6.1 U	12 U	12 U	12 U
DUP-16 (EX-153-121)	1111-067-12	11/9/11	121	6.2 U	12 U	12 U	12 U
DUP-17 (EX-155-122)	1111-067-13	11/9/11	122	6.5 U	13 U	13 U	13 U
Site Specific Cleanup Level[4]				**See Total Endosulfan**			**2,400**

Notes:

[1]The approximate sample locations are shown in Figure 3 or Figure 4.

[2]Sample Elevation referenced to 1988 North American Vertical Datum (NAVD88).

[3]Total Endosulfan concentration calculated by summing detected concentration of individual endosulfan compounds (Endosulfan I, Endosulfan II and Endosulfan Sulfate). Highest reported laboratory practical quantitation limit amongst the individual endosulfan compounds is used for Total Endosulfan if each of the individual endosulfan compound is non-detect.

[4]Referenced from the Cleanup Action Plan (GeoEngineers, 2011a).

J = estimated result.

U = analyte not detected above the laboratory practical quantitation limit.

µg/kg = micrograms per kilogram

Chemical analysis completed at OnSite Environmental, Inc. of Redmond, Washington.

Table 2

Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbon Excavation Area
Taxiway F Site, Skagit County Regional Airport
Burlington, Washington

Sample Identification[1]	Laboratory Identification	Date Sampled	Sample Elevation (feet)[2]	Petroleum Hydrocarbons by NWTPH-Gx or Dx (mg/kg)			Volatile Organic Compounds (VOCs) by EPA 8021 or 8260B (mg/kg)					Total Naphthalenes by EPA 8270D/SIM (mg/kg)[3]	cPAHs by EPA 8270D/SIM (mg/kg)[4]	Lead by EPA 6010B (mg/kg)
				Gasoline-Range	Diesel-Range	Lube Oil-Range	Benzene	Ethyle-benzene	Toluene	o-Xylene	m-,p-Xylenes			
Characterization Soil Sample														
PCS-120[5]	1110-062-01	10/7/11	120	**260**	310	58 U	0.022 U	0.45	0.11 U	0.55 U	0.19	3.64	0.0064	5.8 U
Remedial Excavation Verification Soil Samples														
A-1-117[5]	1110-062-04	10/7/11	117	18	32 U	65 U	**0.077**	0.89	0.15 U	0.15 U	0.15 U	0.159	0.0065 U	6.5 U
A-2-116.5	1110-062-05	10/7/11	116.5	--	--	--	0.019	--	--	--	--	--	--	--
A-3-119.5	1110-062-06	10/7/11	119.5	6.4 U	32 U	64 U	0.02 U	0.064 U	0.064 U	0.064 U	0.064 U	0.0085 U	0.0064 U	6.3 U
A-4-119.5	1110-062-07	10/7/11	119.5	6.7 U	31 U	62 U	0.02 U	0.067 U	0.067 U	0.067 U	0.067 U	0.0083 U	0.0063 U	6.2 U
A-5-119.5	1110-062-08	10/7/11	119.5	5.2 U	29 U	58 U	0.02 U	0.052 U	0.052 U	0.052 U	0.052 U	0.0078 U	0.0059 U	5.8 U
A-6-119.5	1110-062-09	10/7/11	119.5	7 U	33 U	65 U	0.02 U	0.07 U	0.07 U	0.07 U	0.07 U	0.0087 U	0.0066 U	6.5 U
Site-Specific Cleanup Level[6]				30/100[7]	2,000	2,000	0.0262	6	6,400	88	16,000	5	0.1	250

Notes:

[1]The approximate sample locations are shown in Figure 3.

[2]Sample Elevation referenced to 1988 North American Vertical Datum (NAVD88).

[3]Total Naphthalenes concentration calculated by summing detected concentration of individual naphthalenes compounds (1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene). Highest reported laboratory practical quantitation limit amongst the individual naphthalenes compounds is used for Total Naphthalenes if each of the individual naphthalene compound is non-detect.

[4]Total cPAHs (carcinogenic polycyclic aromatic hydrocarbons) concentration calculated by using MTCA TEC methodology (WAC 173-340-708[8][e]) relative to benzo(a)pyrene. Full list of cPAH compounds analyzed are presented in Appendix C. For non-detected cPAH compounds, one-half the practical quantitation limit was used in the calculation.

[5]Soil represented by this sample was subsequently excavated and transferred from the Site for permitted disposal.

[6]Referenced Cleanup level is referenced from the Cleanup Action Plan (CAP; GeoEngineers, 2011a). MTCA Method A or Method B (if Method A not established) cleanup levels are referenced for constituents whose site-specific cleanup level were not established by the CAP.

[7]Gasoline-range cleanup level is 30 mg/kg when benzene is present and 100 mg/kg when benzene is not present.

mg/kg = milligrams per kilogram

MTCA = Model Toxic Control Act

U = Analyte not detected above the laboratory practical quantitation limit.

"--" = not analyzed

Chemical analysis completed at OnSite Environmental, Inc. of Redmond, Washington.

Shading indicates that the analyte was detected at a concentration exceeding the cleanup level.

Table 3

Summary of Characterization Soil Sample Chemical Analytical Results
Asphalt Driveway Subgrade Excavation Area
Taxiway F Site, Skagit County Regional Airport
Burlington, Washington

Sample Identification	SP0-1	SP0-2	SP0-3	SP0-4	SP0-5	SP0-6	SP0-7	SP0-8	SP0-9	SP0-10	DUP-18 (SP0-8)	Site-Specific Cleanup Levels[1]
Laboratory Identification	1111-090-01	1111-090-02	1111-090-03	1111-090-04	1111-090-05	1111-090-06	1111-090-07	1111-090-08	1111-090-09	1111-090-10	1111-090-11	
Sample Date	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	11/11/2011	
Chlorinated Pesticides by EPA 8081A (µg/kg)												
Aldrin	6.7 U	6.8 U	6.5 U	6.6 U	6.7 U	6.3 U	6.4 U	6.3 U	6.6 U	6 U	6.9 U	59
alpha-Chlordane (cis)	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	Refer Total
gamma-Chlordane (trans)	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	Chlordane
Total Chlordane[2]	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	2,050
4,4'-DDT	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	2,900
4,4'-DDE	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	2,900
4,4'-DDD	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	4,200
Total DDT (4,4 isomers)[3]	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	750
Dieldrin	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	63
Endosulfan I	6.7 U	6.8 U	6.5 U	6.6 U	6.7 U	6.3 U	6.4 U	6.3 U	6.6 U	6 U	6.9 U	Refer Total
Endosulfan II	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	Endosulfan
Endosulfan Sulfate	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	
Total Endosulfan[4]	13 U	14 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	12 U	14 U	2,400
Heptachlor	6.7 U	6.8 U	6.5 U	6.6 U	6.7 U	6.3 U	6.4 U	6.3 U	6.6 U	6 U	6.9 U	220
Heptachlor Epoxide	6.7 U	6.8 U	6.5 U	6.6 U	6.7 U	6.3 U	6.4 U	6.3 U	6.6 U	6 U	6.9 U	110
Toxaphene	67 U	68 U	65 U	66 U	67 U	63 U	64 U	63 U	66 U	60 U	69 U	910
Chlorinated Acid Herbicides by EPA 8151A (µg/kg)												
Dinoseb	13 U	13 U	12 U	12 U	13 U	12 U	12 U	12 U	13 U	11 U	13 U	524
Pentachlorophenol	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.1 U	1.3 U	4,500
Miscellaneous Pesticides/Herbicides by EPA 8081B or EPA 8270D (µg/kg)												
Atrazine	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.7 U	6.7 U	4,500
Chlorothalonil (Daconil)	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	91,000
Terbutryn (Igran)	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.7 U	6.7 U	80,000
Trifluralin	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.7 U	6.7 U	1,30,000
Vernolate	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.7 U	6.6 U	6.7 U	6.7 U	6.7 U	6.7 U	10,000

Notes:

[1]Referenced from the CAP (GeoEngineers, 2011a).

[2]Total Chlordane concentration calculated by summing detected concentration of individual chlordane compounds (alpha-Chlordane [cis] and gamma-Chlordane [trans]). Highest reported laboratory practical quantitation limit amongst the individual chlordane compounds is used for Total Chlordane if each of the individual chlordane compound is non-detect.

[3]Total DDT concentration calculated by summing detected concentration of individual 4,4 isomers (4,4'-DDT, 4,4'-DDE and 4,4'-DDD). Highest reported laboratory practical quantitation limit amongst the individual 4,4 isomers is used for Total DDT if each of the individual 4,4 isomers is non-detect.

[4]Total Endosulfan concentration calculated by summing detected concentration of individual endosulfan compounds (Endosulfan I, Endosulfan II and Endosulfan Sulfate). Highest reported laboratory practical quantitation limit amongst the individual endosulfan compounds is used for Total Endosulfan if each of the individual endosulfan compound is non-detect.

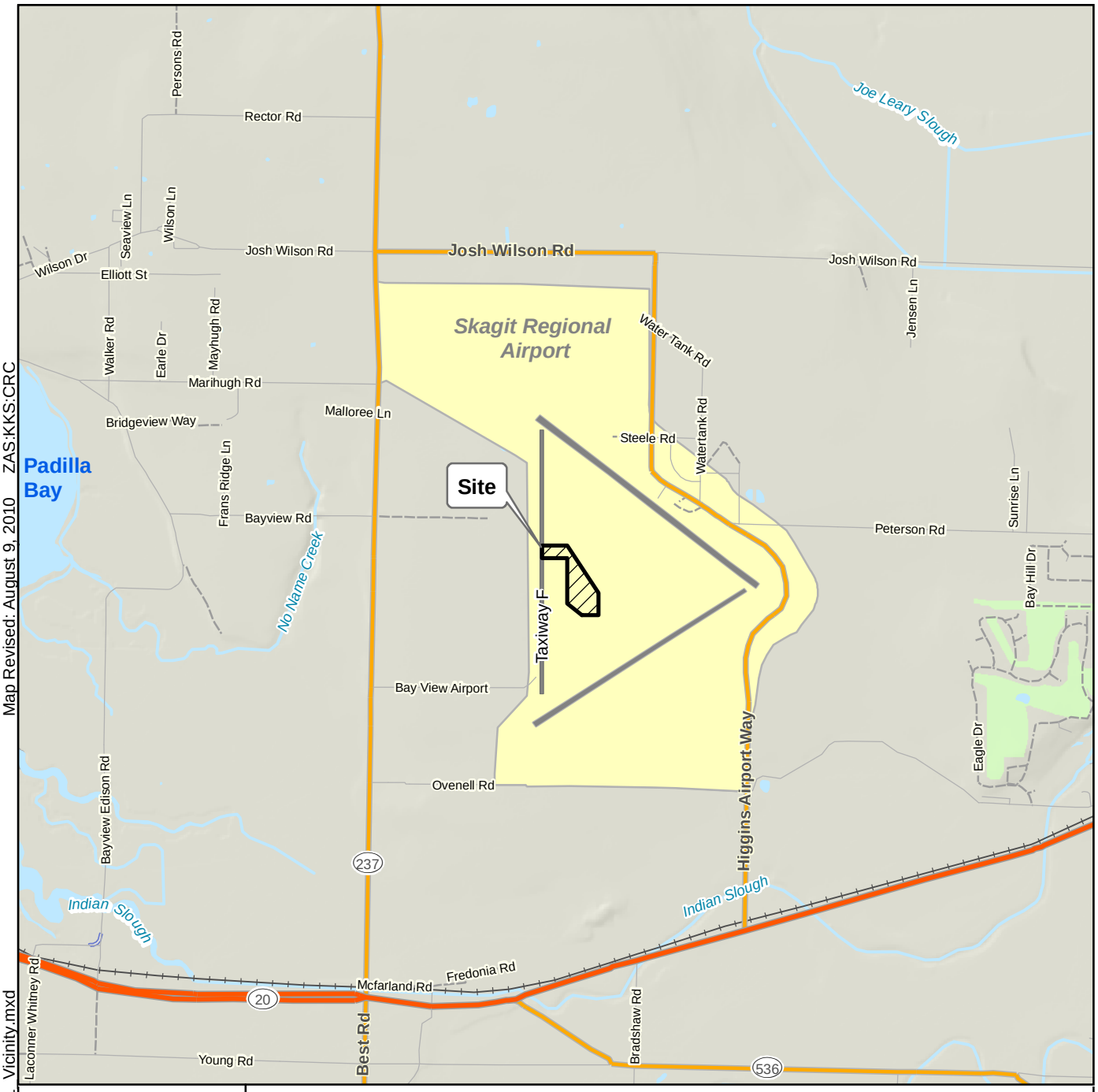
U = analyte not detected above laboratory practical quantitation limit.

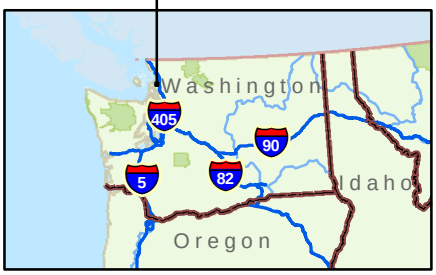
µg/kg = micrograms per kilogram

Chemical analysis completed at OnSite Environmental, Inc. of Redmond, Washington.

FIGURES

GeoEngineers





N
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S

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.
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Data Sources: ESRI Data & Maps, Street Maps 2005

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

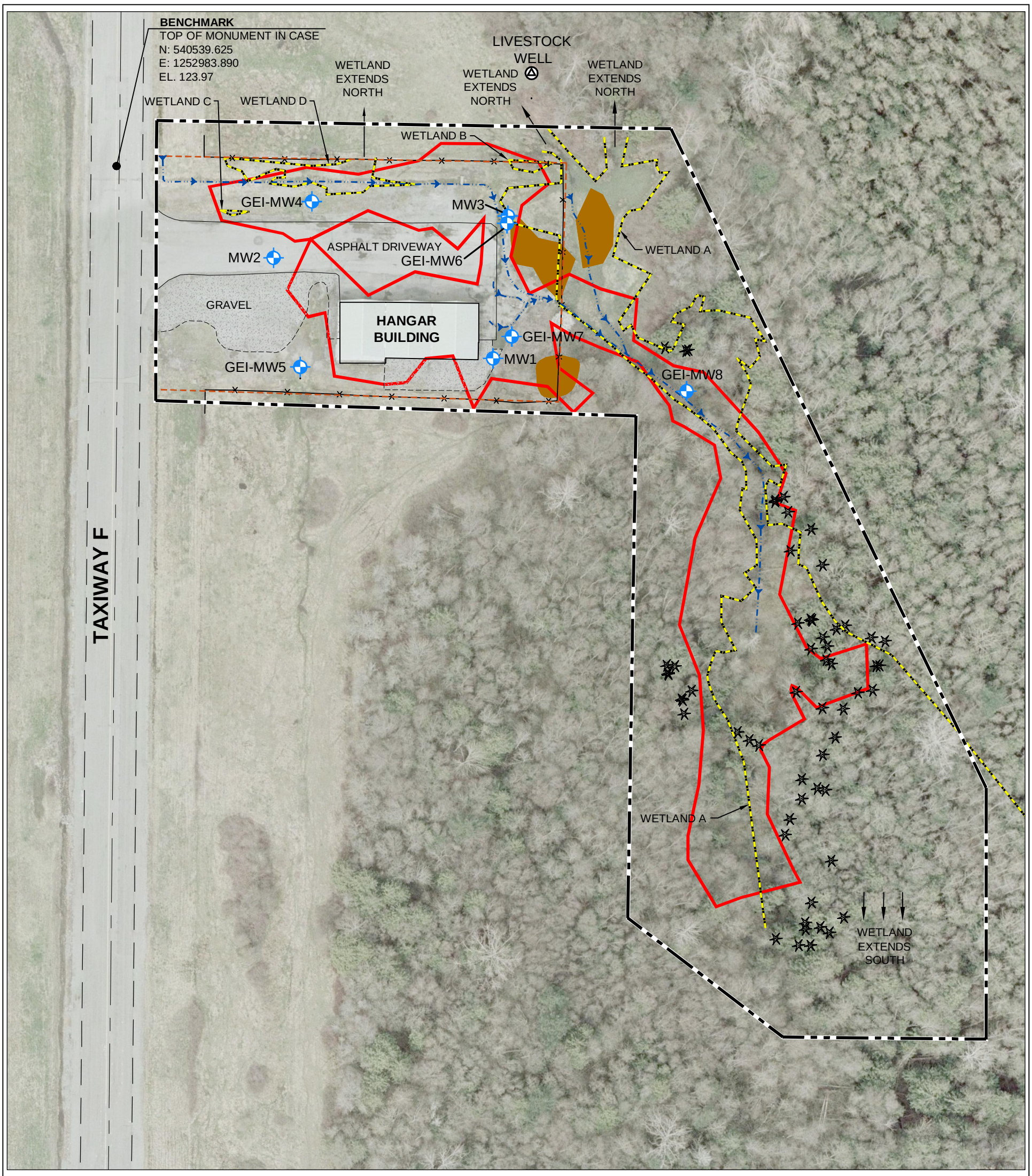
Vicinity Map

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



Legend

- Monitoring Well Location (Decommissioned Prior to Remedial Excavation)
- Water Supply Well
- Site
- Historical Operations Area
- Drainage Channel (Approximate Rainwater Runoff Flow Direction)
- Wetland Areas (Based on Hart Crowser 2007 Survey)
- Debris Area
- Limits of Remedial Excavation
- Pre-Existing Mature Coniferous Trees (Protected during Construction)
- Fence Line

N
W E
S

100 0 100
FEET

Notes

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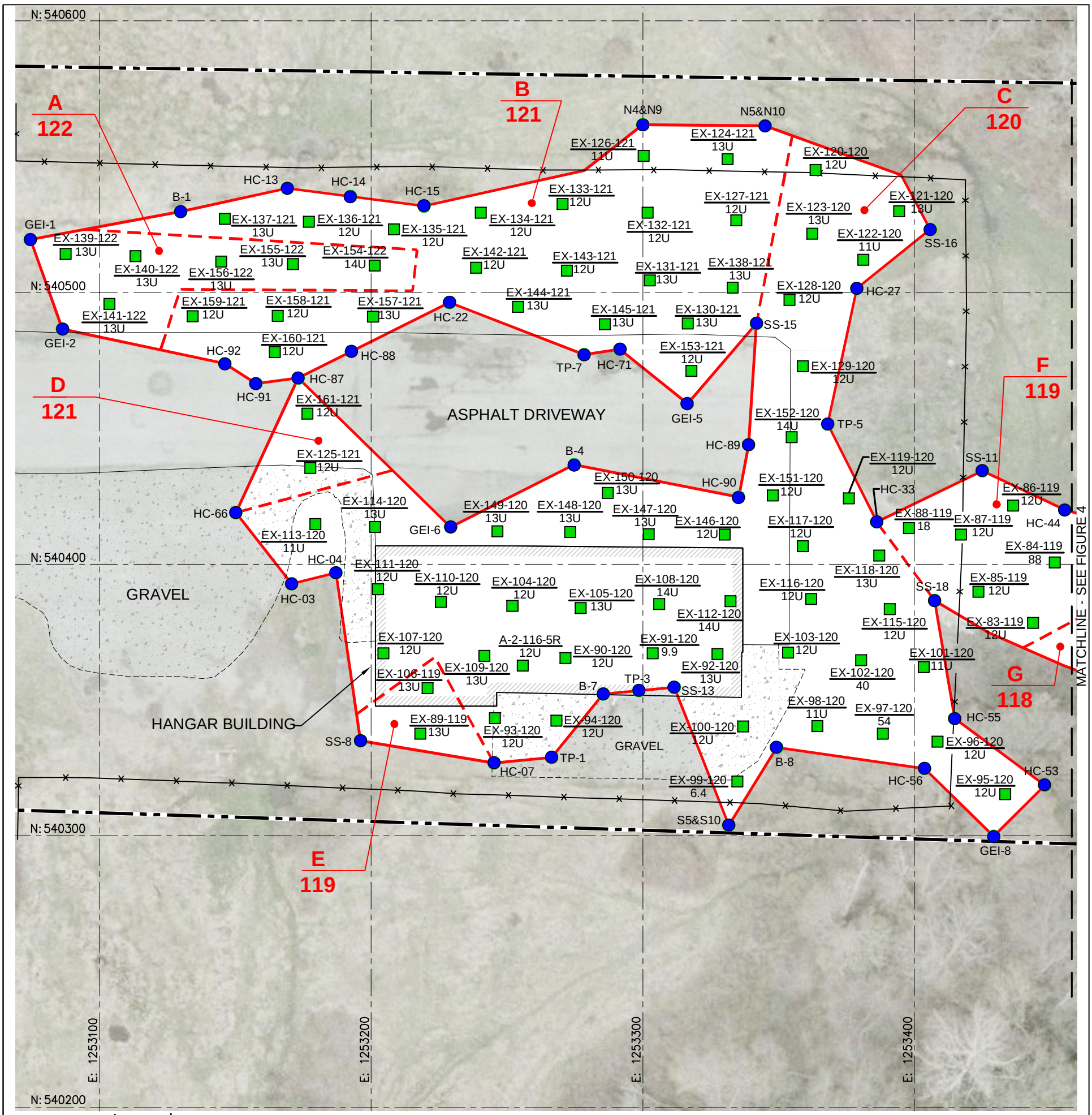
Site Plan

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 2

P:\5\536401\04\CAD\Completion Report\536401304 Fig 2 Site Plan.dwg\TAB:Layout Modified by tmichaud on Aug 07, 2013 - 11:57



Legend

- Pesticide and Herbicide Remedial Excavation Limit
- Excavation Unit Boundary
- A / 122 — Excavation Unit Designation / Approximate Excavation Base Elevation (feet)
- Base Verification Soil Sample Location - Soil sample obtained from the base of the remedial excavation to verify the removal of pesticide and herbicide contamination (chemical analytical results are summarized in Table 1)
- Sidewall Verification Soil Sample Location - In accordance with the Ecology-approved Engineering Design Report (EDR; GeoEngineers, 2011b) soil samples obtained during previous environmental investigations were used to define the lateral extent of the remedial excavation (chemical analytical results summarized in the Remedial Investigation/Feasibility Study [RI/FS] report [GeoEngineers, 2011c])

EX-161-121 (Sample Designation; Sample Elevation in Feet; Sample Identification)
12 U (Total Endosulfan Result in µg/kg)

U = Analyte Not Detected Above the Laboratory Practical Quantitation Limit
J = Estimated Result
µg/kg = Microgram per kilogram

- Site
- Fence Line

N E S W

40 0 40
Feet

Notes

1. A full list of chemical analytical results are summarized in Table 1.
2. Elevations are referenced to the 1988 North American Vertical Datum (NAVD88).
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. 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.

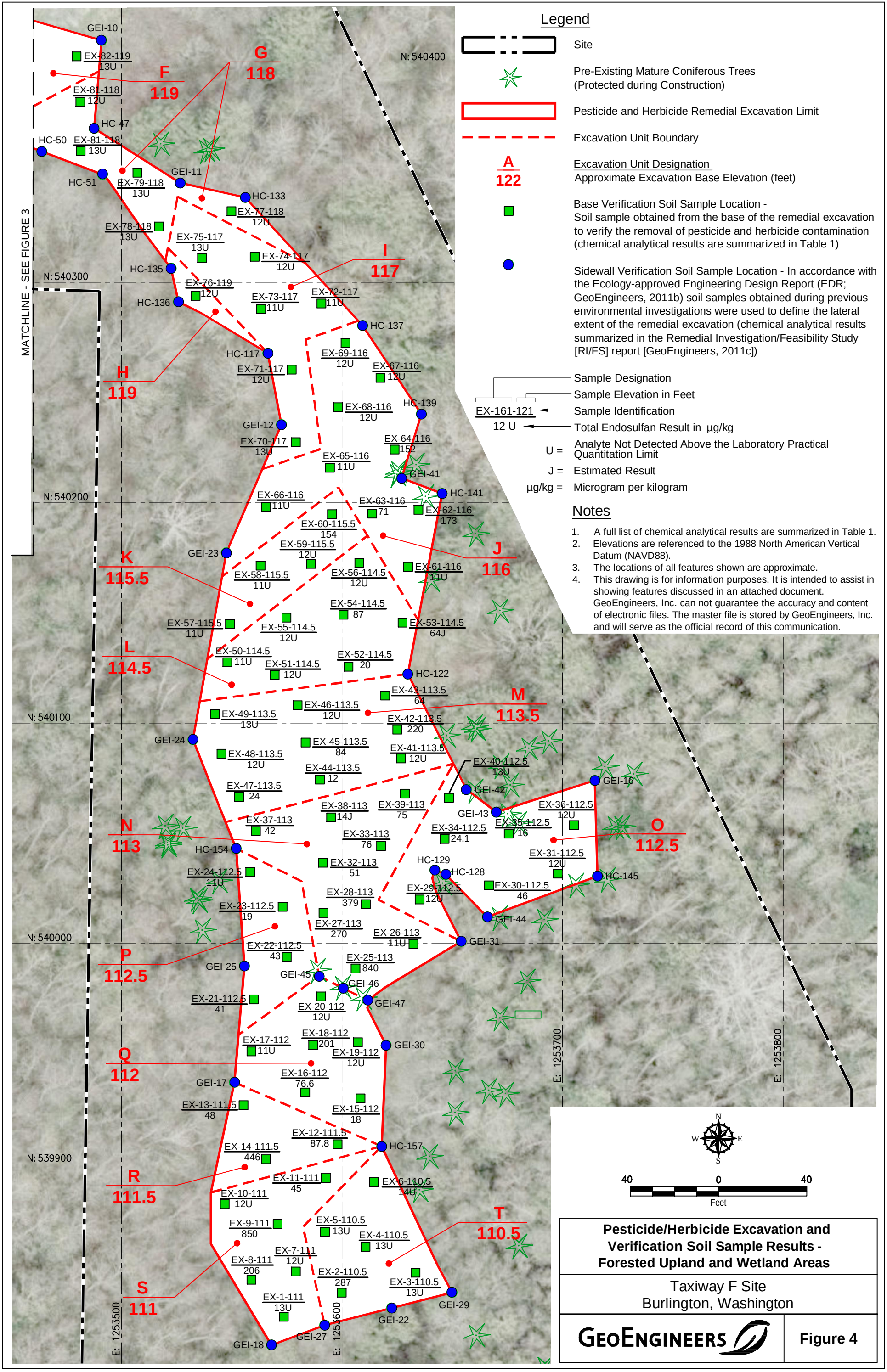
Pesticide/Herbicide Excavation and Verification Soil Sample Results - Historical Operations Area

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 3

P:\5\536401304\CAD\Completion Report\536401304 Fig 3_4 Final Verification Sample Locations.dwg\TAB:Fig 3 modified by tmichaud on Aug 12, 2013 - 13:16



Pesticide/Herbicide Excavation and Verification Soil Sample Results - Forested Upland and Wetland Areas

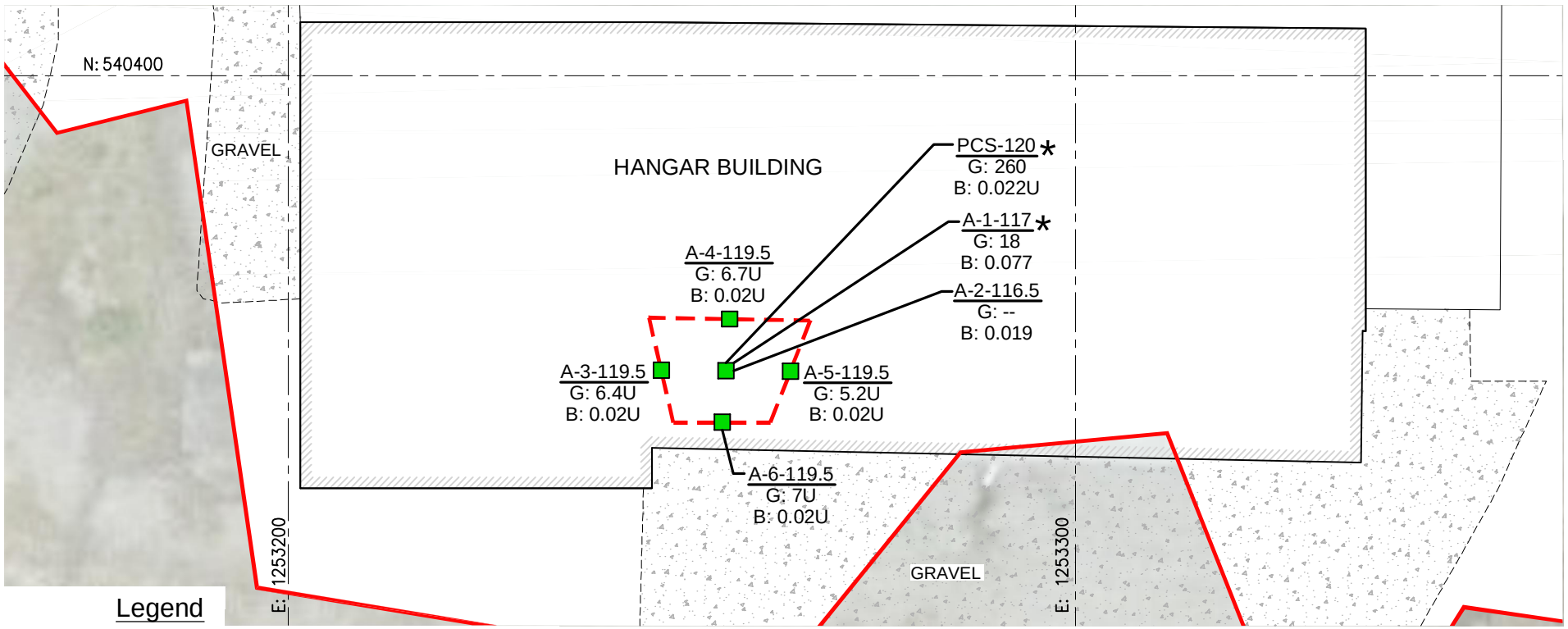
Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 4

P:\536401304\CAD\Completion Report\536401304 Fig 3_4 Final Verification Sample Locations.dwg\TAB:Fig 4 modified by tmichaud on Aug 12, 2013 - 13:21

P:\5\5364013\04\CAD\Completion Report\536401304 Fig 5 Petroleum Hydrocarbon Excavation.dwg\TAB:Fig 5 modified by tmichaud on Aug 12, 2013 - 16:37



Legend

- Pesticide and Herbicide Remedial Excavation Limit
- Pesticide and Herbicide Remedial Excavation Limit (See Figures 3 and 4)
- Soil Sample Location

A-1-117 — Sample Designation; Sample Identification
G: 18 — Sample Elevation in Feet; Gasoline Range Hydrocarbons Result in mg/kg
B: 0.077 — Benzene Result in µg/kg

U = Analyte Not Detected Above the Practical Quantitation Limit

* = One or more analyte exceeded the Site Specific Cleanup Level. Soil represented by this sample was subsequantly removed and transported from the Site for permitted disposal.

mg/kg = milligram per kilogram

µg/kg = microgram per kilogram

Notes

1. A full list of chemical analytical results are summarized in Table 2.
2. Elevations are referenced to the 1988 North American Vertical Datum (NAVD88).
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. 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.

N W E S

20 0 20

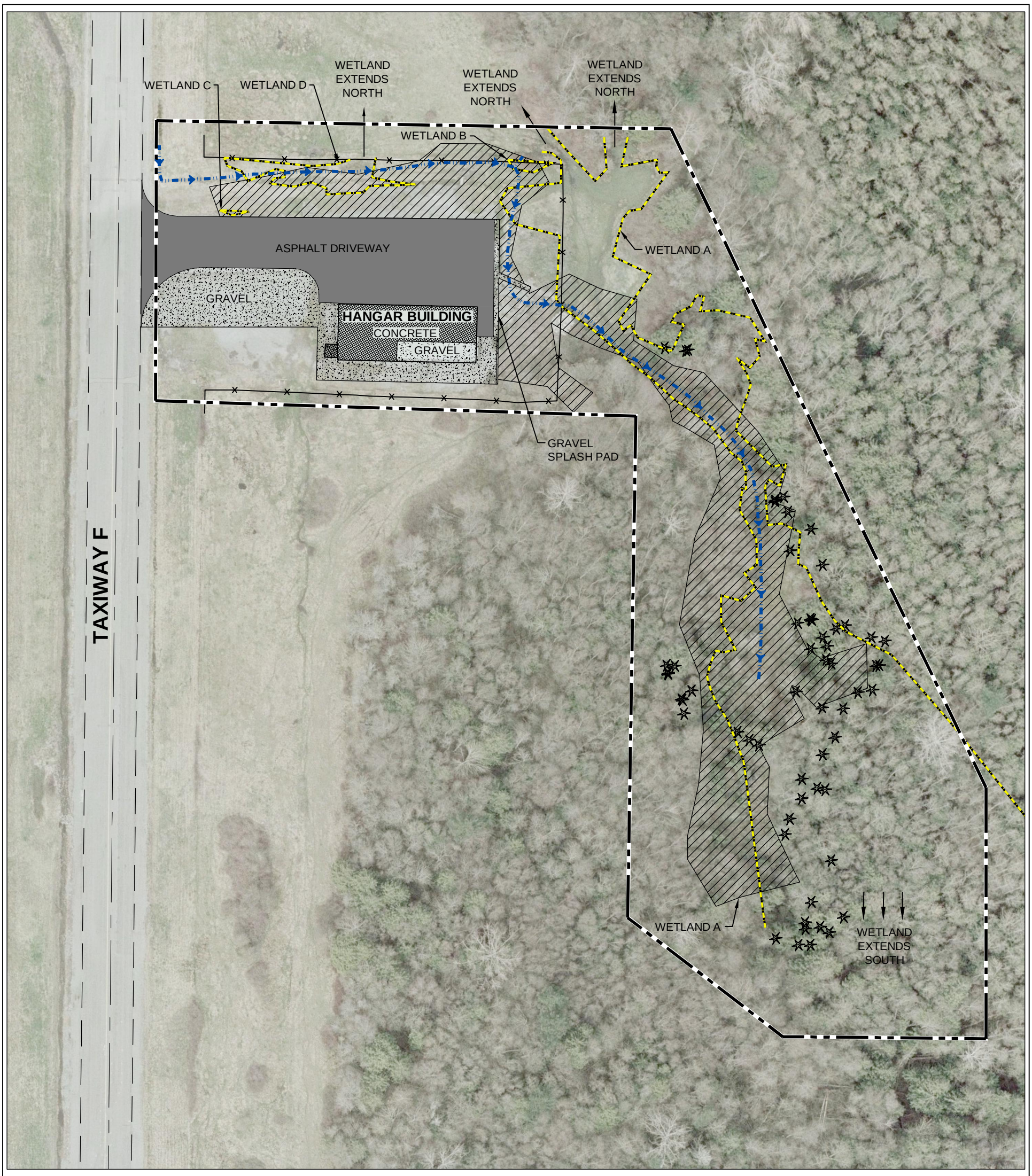
Feet

Petroleum Hydrocarbon Excavation and Verification Soil Sample Results - Historical Operations Area

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 5



Legend

- Site
- Drainage Channel (Approximate Rainwater Runoff Flow Direction)
- Wetland Areas (Based on Hart Crowser 2007 Survey)
- Pre-Existing Mature Coniferous Trees (Protected during Construction)
- Fence Line

Restoration Area

- Asphalt
- Concrete
- Gravel
- Planting/Seeding

N
W E
S

100 0 100
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. 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 Restoration

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 6

P:\15\53640131\04\CAD\Completion Report\53640131304 Fig 6 Site Restoration.dwg\TAB:LAYOUT Modified by TMichaud on Aug 05, 2013 - 9:07

APPENDICES

GeoEngineers

APPENDIX A
Monitoring Well Decommissioning Records

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID

Tag No. NO TAG

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) Gabe David Gor

Driller/Trainee Signature x

Driller/Trainee License No. 2744

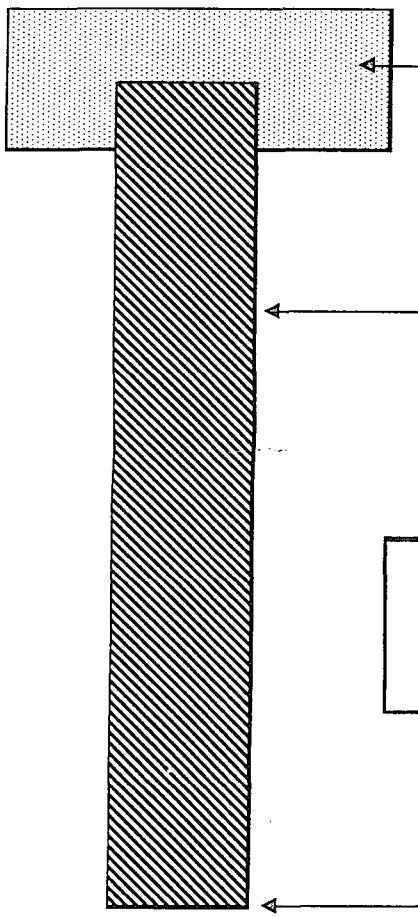
Cased or Uncased Diameter 2" Static Level 100

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design | Well Data W11-531 | Formation Description



CONCRETE SURFACE SEAL 4' FT — 0 - ____ FT

BACKFILL 110 FT — 0 - ____ FT

440 BENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG #: NO TAG

CLIENT WELL ID #: MW-1

DEPTH OF BORING 114 FT

Scale 1" = _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID

Tag No. NO TAG

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) ~~Ks~~ Goble David Goble

Driller/Trainee Signature x _____

Driller/Trainee License No. 2744

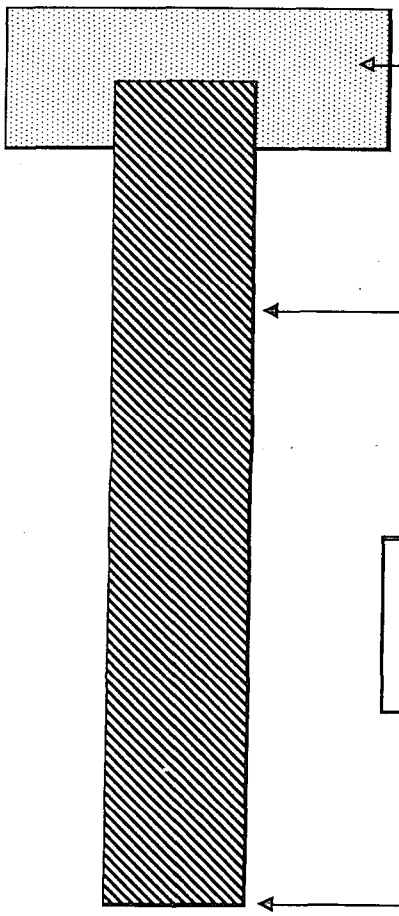
Cased or Uncased Diameter 2" Static Level 100

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design — Well Data W11-531 — Formation Description



CONCRETE SURFACE SEAL 1' FT — 0 - ____ FT

BACKFILL 110 FT — 0 - ____ FT

440 BENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG # : NO TAG

CLIENT WELL ID #: MW-2

DEPTH OF BORING 14 FT

Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID

Tag No. NO TAG

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) DAVID GOSE

Driller/Trainee Signature x _____

Driller/Trainee License No. 2742

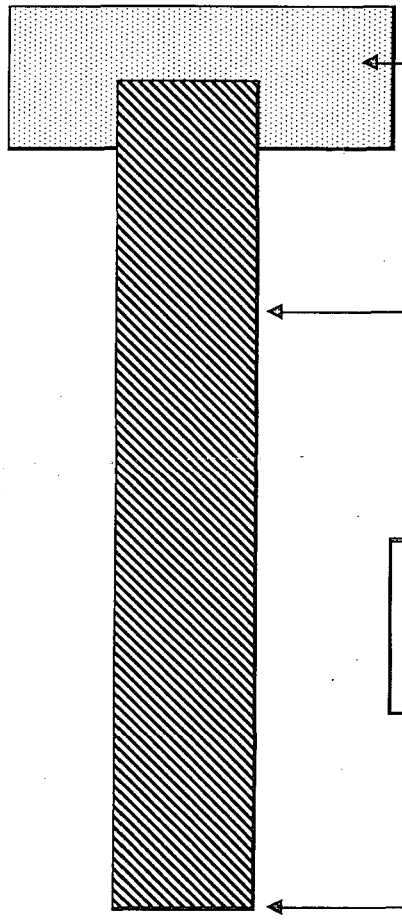
Cased or Uncased Diameter 2" Static Level 100

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design | Well Data W11-531 | Formation Description



CONCRETE SURFACE SEAL 4' FT — 0 - ____ FT

BACKFILL 110 FT — 0 - ____ FT

H40 GENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG # : NO TAG

CLIENT WELL ID #: MW-3

DEPTH OF BORING 114 FT

Scale 1" = _____ Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Consulting Firm: Clearcreek Contractor's

Property Owner: Port of Skagit Airport

Site Address: 15400 Airport Dr.

City: Burlington County: 29-Skagit

EWM

Unique Ecology Well ID
Tag No.: NO TAG

Location: 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) ~~Jacob~~ Arnold Gose

Driller/Trainee Signature: x

Driller/Trainee License No.: 2747

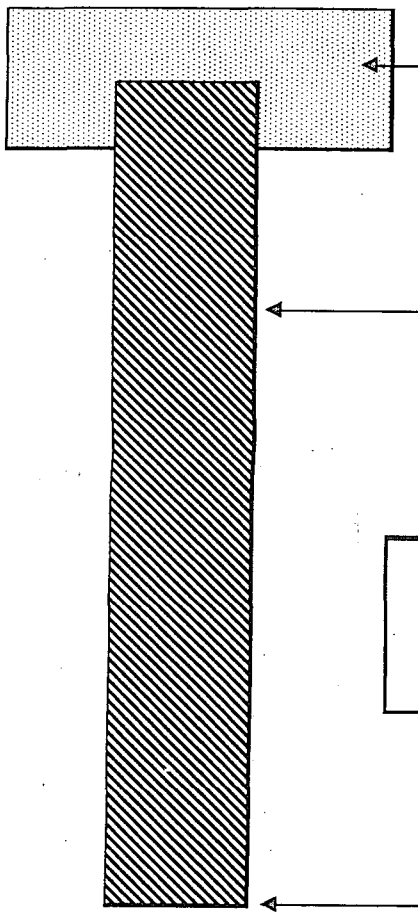
Cased or Uncased Diameter: 2" Static Level: 3

Work/Decommission Start Date: 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date: 9-2-11

Construction/Design — **Well Data** W11-531 — **Formation Description**



CONCRETE SURFACE SEAL 2' FT — 0 - ____ FT

BACKFILL 3' FT — 0 - ____ FT

H40 BENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG #: NO TAG

CLIENT WELL ID #: MW-4

DEPTH OF BORING 5 FT

Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

Unique Ecology Well ID

Tag No. NO TAG

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E ☐ EWM ☐ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) Todd Ouard Cert

Driller/Trainee Signature x

Driller/Trainee License No. 2144

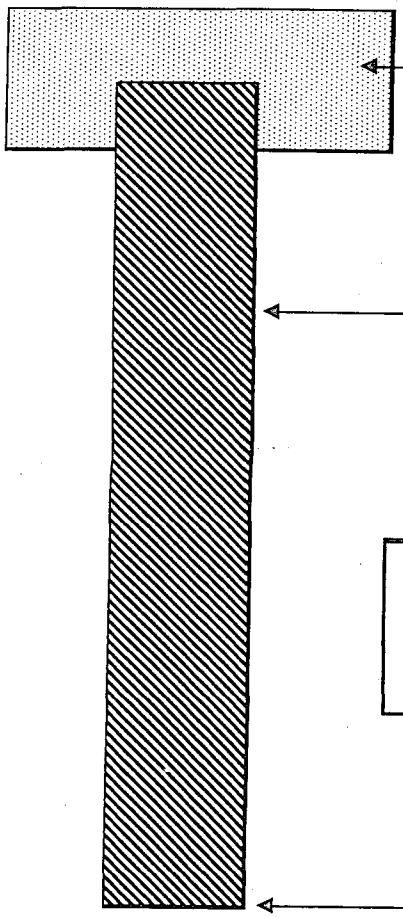
Cased or Uncased Diameter 2" Static Level 3

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design



Well Data W11-531

Formation Description

CONCRETE SURFACE SEAL 2' FT — 0 - FT

BACKFILL 3' FT — 0 - FT

HYD BENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG #: NO TAG

CLIENT WELL ID #: MW-5

DEPTH OF BORING 5 FT

cale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID
Tag No. BBP 262

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) David Gose

Driller/Trainee Signature x _____

Driller/Trainee License No. 2744

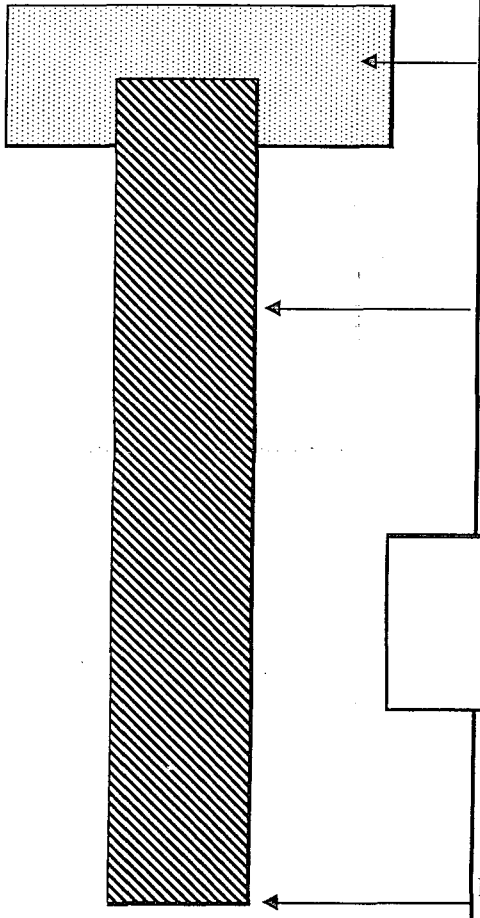
Cased or Uncased Diameter 2" Static Level 3'

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design — Well Data W11-531 — Formation Description



CONCRETE SURFACE SEAL 2' FT — 0 - FT

BACKFILL 3' FT — 0 - FT

H40 BENT

DEPTH OF BORING 5 FT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG # : BBP 262

CLIENT WELL ID #: MW6

Scale 1" = _____ Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID
Tag No. BBP 261

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) David Gox

Driller/Trainee Signature x _____

Driller/Trainee License No. 2744

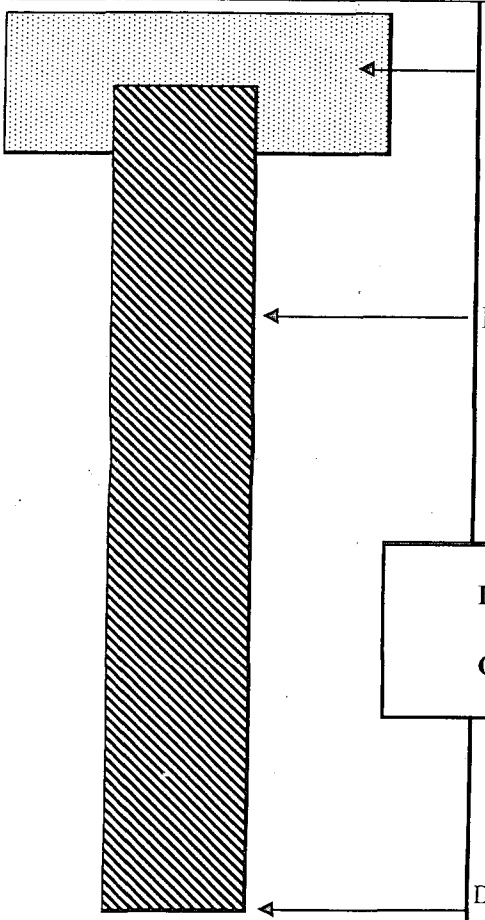
Cased or Uncased Diameter 2" Static Level 3

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design | Well Data W11-531 | Formation Description



CONCRETE SURFACE SEAL 2' FT — 0 - ____ FT

BACKFILL 3' FT — 0 - ____ FT

HYD BENT

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG # : BBP 261

CLIENT WELL ID #: MW-7

DEPTH OF BORING 5 FT

cale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2/01)

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT
Notice of Intent No. AE14508

Construction/Decommission

☐ Construction

☒ Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well

☒ Resource Protection

☐ Geotechnical Soil Boring

Property Owner Port of Skagit Airport

Site Address 15400 Airport Dr.

Consulting Firm Clearcreek Contractor's

City Burlington County 29-Skagit

EWM

Unique Ecology Well ID
Tag No. BBP 263

Location 1/4 SE 1/4 SW Sec 34 Twn 35N R 3E or ____ WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

☒ Driller ☐ Trainee Name (Print) ~~James Goble~~ David Gore

Driller/Trainee Signature x

Driller/Trainee License No. 2744

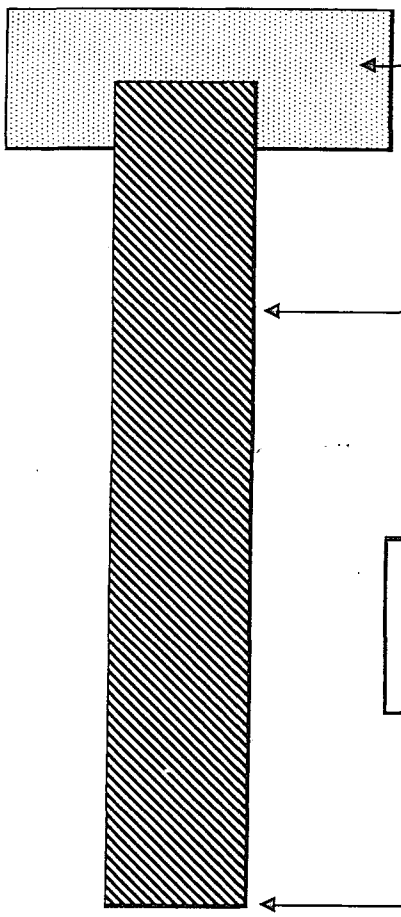
Cased or Uncased Diameter 2" Static Level 3

Work/Decommission Start Date 9/2/2011

If trainee, licensed driller's Signature and License No. _____

Work/Decommission Completed Date 9-2-11

Construction/Design — Well Data W11-531 — Formation Description



CONCRETE SURFACE SEAL 2' FT — Formation: 0 - FT

BACKFILL 3' FT — Formation: 0 - FT

Hand Bent

REQUIRED INFORMATION
(Must get one or both if available)

DEPT OF ECOLOGY WELL TAG # : BBP 263

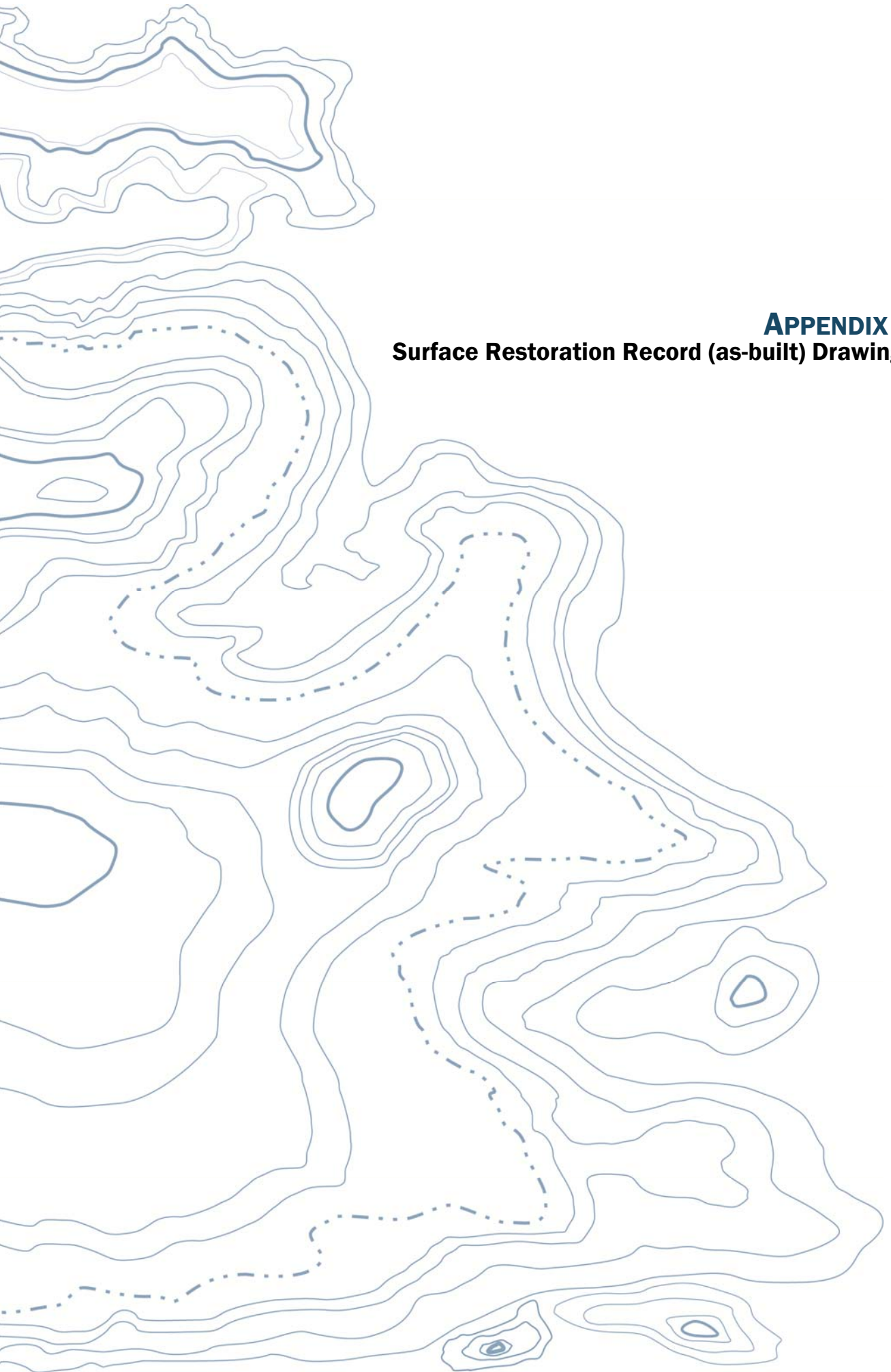
CLIENT WELL ID #: Water MW-8

DEPTH OF BORING 5 FT

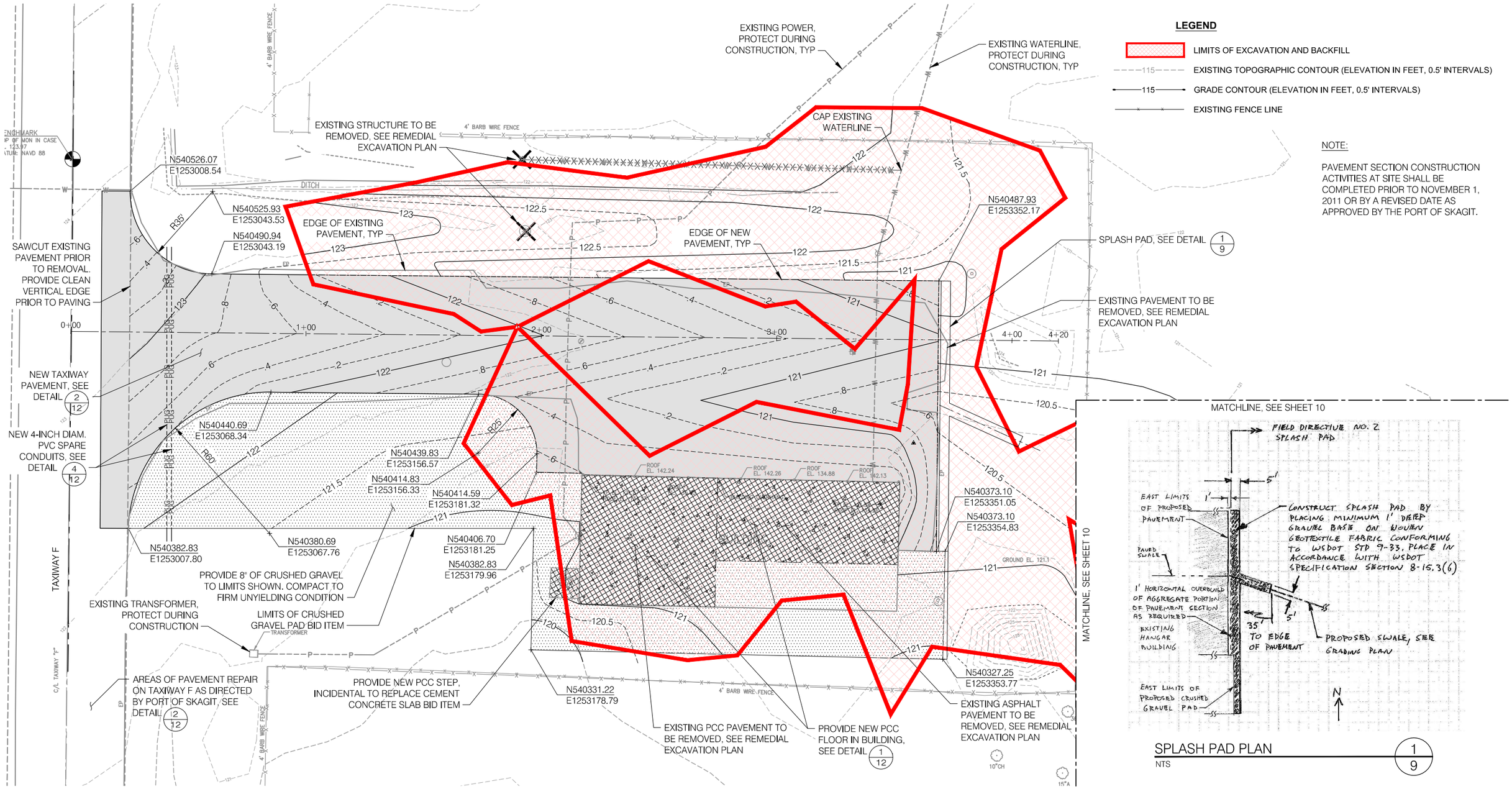
Scale 1" = _____

Page _____ of _____

ECY 050-12 (Rev 2/01)



APPENDIX B
Surface Restoration Record (as-built) Drawings



PAVING AND GRADING PLAN

SPLASH PAD PLAN 1/9
NTS

RECORD DRAWING

The Record Documents have been prepared based on information provided by others. Precision Approach Engineering, Inc. has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

RECORD DRAWINGS

GeoEngineers
Plaza 600 Building
600 Stewart Street, Suite 1700
Seattle WA 98101
P: 206-728-2674
F: 206-728-2731

NO.	DATE	BY	REVISION
RD	12-20-12	CWM	RECORD DRAWING

Precision Approach Engineering
119 Grand Ave, Suite D
Bellingham, WA 98225
360•733•1567

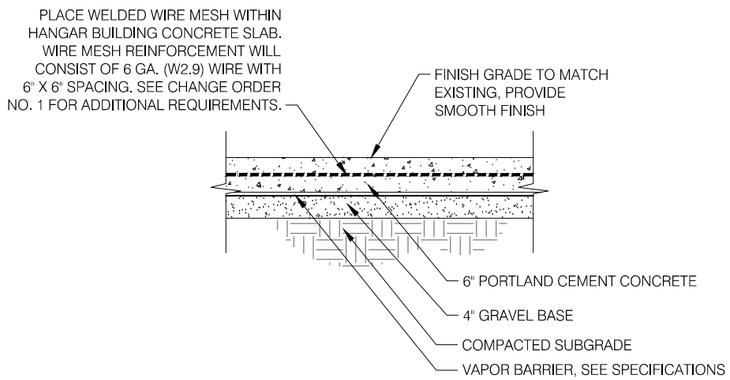
TAXIWAY F CLEANUP ACTION PROJECT

PORT OF SKAGIT COUNTY

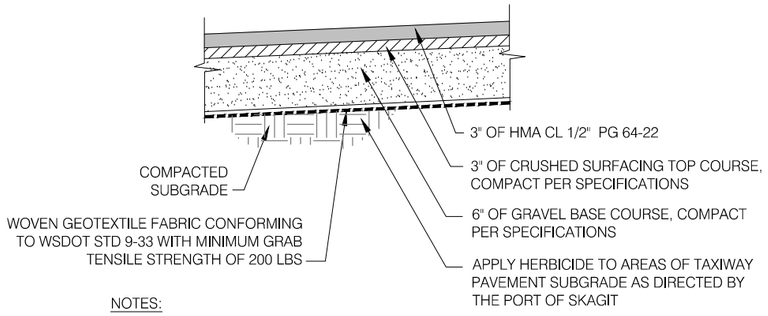
PAVING AND GRADING PLAN

DRAWN:	TNF	PROJECT NO.:	PSC006
DESIGN:	CWM	SCALE:	AS SHOWN
CHECKED:	RLN	DATE:	JULY 2011
SHEET NO.	9		

12/20/12 - 8:27am - jwade - P:\P\PSC006-TW F REM\0400CAD\DWG\Sheets\PSC006-RecordDWG_11-15-12.dwg



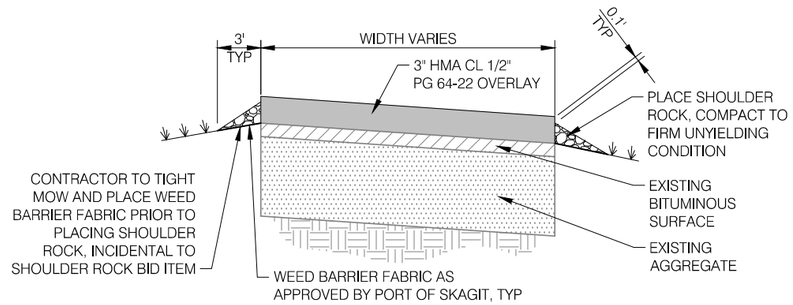
PCC BUILDING SLAB DETAIL — 1/12
NTS



NOTES:

1. INCREASE DEPTH OF EXCAVATION AS REQUIRED TO REMOVE EXISTING TOPSOIL WHERE ENCOUNTERED (17" MAXIMUM EXCAVATION DEPTH BELOW FINISH GRADE). BACKFILL WITH STRUCTURAL FILL MATERIAL, PAID UNDER "IMPORT, PLACE, AND COMPACT STRUCTURAL FILL MATERIAL" BID ITEM.
2. AREAS OF PAVEMENT REPAIR SHALL BE AS DIRECTED BY PORT OF SKAGIT. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. IT IS ANTICIPATED THAT PAVEMENT REPAIR WORK WILL BE REQUIRED ON TAXIWAY F AND ON THE BAYVIEW ROAD OVERLAY AREA BEFORE AND AFTER THE OVERLAY.
3. PROVIDE A 0.1' DROP BETWEEN PAVED AND NON-PAVED SURFACES.

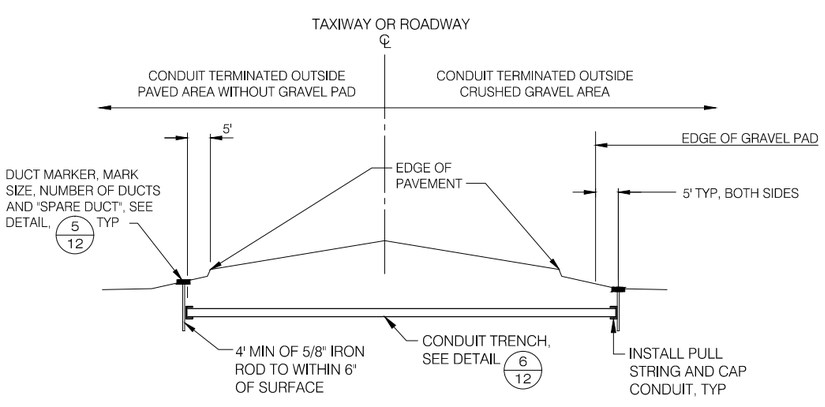
TAXIWAY PAVEMENT SECTION AND PAVEMENT REPAIR DETAIL — 2/12
NTS



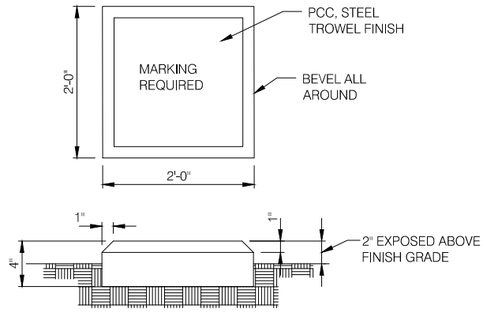
NOTES:

1. FULL DEPTH PAVEMENT SECTION TO BE CONSTRUCTED ON BAYVIEW ROAD AT INTERSECTION WITH TAXIWAY F AND FARM TO MARKET ROAD TO PROVIDE TRANSITION BETWEEN PAVEMENT OVERLAY AND EXISTING PAVEMENT TO REMAIN. PORT OF SKAGIT TO PROVIDE LIMITS OF FULL DEPTH PAVEMENT PRIOR TO BEGINNING WORK ON BAYVIEW ROAD. SEE PAVEMENT REPAIR DETAIL 2/12 FOR PAVEMENT SECTION.

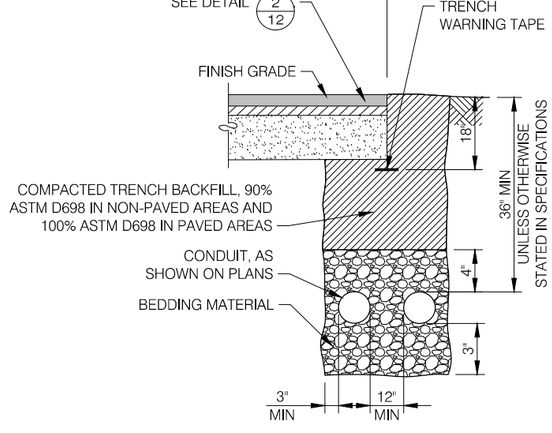
BAYVIEW ROAD OVERLAY DETAIL — 3/12
NTS



SPARE CONDUIT DETAIL — 4/12
NTS



TYPICAL DUCT AND CABLE CONCRETE MARKER — 5/12
NTS



CONDUIT TRENCH DETAIL — 6/12
NTS

RECORD DRAWING

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RECORD DRAWINGS

GeoEngineers
Plaza 600 Building
600 Stewart Street, Suite 1700
Seattle WA 98101
P: 206-728-2674
F: 206-728-2731

NO.	DATE	BY	REVISION
RD	12-20-12	CWM	RECORD DRAWING

Precision Approach Engineering
119 Grand Ave, Suite D
Bellingham, WA 98225
360•733•1567

TAXIWAY F CLEANUP ACTION PROJECT

PORT OF SKAGIT COUNTY

PAVING AND GRADING DETAILS

DRAWN:	TNF	PROJECT NO.:	PSC006
DESIGN:	CWM	SCALE:	AS SHOWN
CHECKED:	RLN	DATE:	JULY 2011
SHEET NO.	12		

12/20/ 12 - 8:26am - jwade - P:\PSC006-TW F REM\0400CAD\DWG\Sheets\PSC006-RecordDWG_11-15-12.dwg

APPENDIX C
Field Procedures

APPENDIX C
VERIFICATION SOIL SAMPLING PROCEDURES

General

Remedial excavation activities for the Taxiway F Site (Site) were completed between October 3, 2011 and November 9, 2011 in accordance with the Engineering Design Report (EDR; GeoEngineers, 2011b) to remove soil exceeding Site cleanup standards. Remedial Excavation activities were completed by Clearcreek Contractors, Inc. of Everett, Washington. Track-mounted excavators and off-road dump trucks were the primary equipment used to complete the remedial excavation activities at the Site.

A representative of GeoEngineers was on-site during remedial excavation activities to evaluate subsurface conditions and extent of contamination, to conduct field screening of samples, and to obtain verification soil samples from the excavation limits for chemical analyses. Sampling procedures are summarized below.

Soil Sample Collection and Handling

Excavation verification soil samples were obtained directly from the excavation base using clean disposable nitrile gloves and were placed into clean plastic bags and thoroughly mixed. A new pair of nitrile gloves was used for each sample to prevent cross-contamination. A portion of the sample was then placed into clean sample jars provided by the analytical laboratory. The sample containers were filled completely to minimize headspace. The remaining portion of each sample was used for field screening. EPA's 5035 method (Ecology, 2004) was used to obtain soil samples for chemical analysis of volatile organic compounds.

Samples obtained from the Site were placed in a cooler with ice pending transport to the analytical laboratory. Standard chain of custody procedures were followed in transporting the samples to the laboratory.

Field Screening of Soil Samples

A representative from our staff performed field screening of soil samples obtained from the excavation. Field screening results are used as a general guideline to delineate areas with possible petroleum hydrocarbon concentrations. In addition, screening results are used to aid in the selection of soil samples for chemical analysis. The screening methods used include: 1) visual screening, 2) water sheen screening, and 3) headspace vapor screening.

Visual screening consists of inspecting the soil for stains indicative of petroleum hydrocarbons. Visual screening is generally more effective when hydrocarbons are heavier, such as motor oil, or when hydrocarbon concentrations are high. Water sheen screening and headspace vapor screening are more sensitive methods that have been effective in detecting contamination at concentrations less than regulatory cleanup levels. However, field screening results are site-specific. The effectiveness of field screening varies with temperature, moisture content, organic content, soil type and age of contaminant. The presence or absence of a sheen or headspace vapors does not necessarily indicate the presence or absence of petroleum hydrocarbons.

Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen screening may detect both volatile and nonvolatile petroleum hydrocarbons. Sheen classifications are as follows:

No Sheen (NS)	No visible sheen on water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen (MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening may identify volatile petroleum hydrocarbon compounds and involves placing a soil sample in a plastic sample bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a photoionization detector (PID) is inserted into the bag, and the PID then measures the concentration of volatile organic vapors present within the sample bag headspace. The PID measures photoionizable vapor concentrations in parts per million (ppm) and is calibrated to isobutylene. The PID is designed to quantify concentrations up to 2,000 ppm. A lower threshold of significance of 1 ppm was used in this application.

APPENDIX D
Chemical Analytical Data

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-013

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 3, 2011.

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: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

Case Narrative

Samples were collected on October 3, 2011 and received by the laboratory on October 3, 2011. 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.

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: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-1-111	10-013-01	Soil	10-3-11	10-3-11	
EX-2-110.5	10-013-02	Soil	10-3-11	10-3-11	
EX-3-110.5	10-013-03	Soil	10-3-11	10-3-11	
EX-4-110.5	10-013-04	Soil	10-3-11	10-3-11	
EX-5-110.5	10-013-05	Soil	10-3-11	10-3-11	
EX-6-110.5	10-013-06	Soil	10-3-11	10-3-11	
EX-7-111	10-013-07	Soil	10-3-11	10-3-11	

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Date of Report: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-1-111**					
Laboratory ID:	10-013-01					
Endosulfan I	**ND**	6.4	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	13	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-2-110.5**					
Laboratory ID:	10-013-02					
Endosulfan I	**59**	5.9	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**78**	12	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**150**	12	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**EX-3-110.5**					
Laboratory ID:	10-013-03					
Endosulfan I	**ND**	6.4	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	13	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-4-110.5**					
Laboratory ID:	10-013-04					
Endosulfan I	**ND**	6.3	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	13	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*84*	*33-119*				
Client ID:	**EX-5-110.5**					
Laboratory ID:	10-013-05					
Endosulfan I	**ND**	6.3	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	13	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*87*	*33-119*				

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Date of Report: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-6-110.5**					
Laboratory ID:	10-013-06					
Endosulfan I	**ND**	6.8	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	14	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*76*	*30-111*				
DCB	*81*	*33-119*				
Client ID:	**EX-7-111**					
Laboratory ID:	10-013-07					
Endosulfan I	**ND**	6.1	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	12	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*87*	*33-119*				

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Date of Report: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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:	MB1004S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-4-11	10-4-11	
Endosulfan II	**ND**	10	EPA 8081	10-4-11	10-4-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-4-11	10-4-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*87*	*30-111*				
DCB	*96*	*33-119*				

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Date of Report: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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:	10-013-02										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**44.8**	**44.3**	50.0	50.0	ND	**90**	**89**	32-96	1	10	
Heptachlor	**41.9**	**41.1**	50.0	50.0	ND	**84**	**82**	29-101	2	13	
Aldrin	**36.8**	**35.8**	50.0	50.0	ND	**74**	**72**	27-99	3	10	
Dieldrin	**107**	**107**	125	125	ND	**86**	**86**	33-92	0	10	
Endrin	**109**	**111**	125	125	ND	**87**	**88**	29-101	2	11	
4,4'-DDT	**107**	**109**	125	125	ND	**86**	**87**	21-114	2	15	
Surrogate:											
TCMX						*78*	*80*	*30-111*			
DCB						*87*	*92*	*33-119*			

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Date of Report: October 5, 2011
Samples Submitted: October 3, 2011
Laboratory Reference: 1110-013
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-4-11

Client ID	Lab ID	% Moisture
EX-1-111	10-013-01	22
EX-2-110.5	10-013-02	15
EX-3-110.5	10-013-03	22
EX-4-110.5	10-013-04	20
EX-5-110.5	10-013-05	20
EX-6-110.5	10-013-06	27
EX-7-111	10-013-07	18

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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

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

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: 10-013

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-1-111	10/3/11	1130	Soil	1																X	X	X				X
2	EX-2-110.5		1230																								
3	EX-3-110.5		1235																								
4	EX-4-110.5		1400																								
5	EX-5-110.5		1405																								
6	EX-6-110.5		1410																								
7	EX-7-111		1455																								

	Signature	Company	Date	Time
Relinquished		GEI	10/03/11	1530
Received		Speedy	10/3/11	1530
Relinquished		Speedy	10/3/11	16:45
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 10, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-019

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 4, 2011.

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,
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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

Case Narrative

Samples were collected on October 4, 2011 and received by the laboratory on October 4, 2011. 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: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-8-111	10-019-01	Soil	10-4-11	10-4-11	
EX-9-111	10-019-02	Soil	10-4-11	10-4-11	
EX-10-111	10-019-03	Soil	10-4-11	10-4-11	
EX-11-111	10-019-04	Soil	10-4-11	10-4-11	
EX-12-111.5	10-019-05	Soil	10-4-11	10-4-11	
EX-13-111.5	10-019-06	Soil	10-4-11	10-4-11	
EX-14-111.5	10-019-07	Soil	10-4-11	10-4-11	
EX-15-112	10-019-08	Soil	10-4-11	10-4-11	
EX-16-112	10-019-09	Soil	10-4-11	10-4-11	
EX-17-112	10-019-10	Soil	10-4-11	10-4-11	
EX-18-112	10-019-11	Soil	10-4-11	10-4-11	
EX-19-112	10-019-12	Soil	10-4-11	10-4-11	
EX-20-112	10-019-13	Soil	10-4-11	10-4-11	
EX-21-112.5	10-019-14	Soil	10-4-11	10-4-11	
EX-22-112.5	10-019-15	Soil	10-4-11	10-4-11	
EX-23-112.5	10-019-16	Soil	10-4-11	10-4-11	
EX-24-112.5	10-019-17	Soil	10-4-11	10-4-11	

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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-8-111**					
Laboratory ID:	10-019-01					
Endosulfan I	**17**	5.5	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**69**	11	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**120**	11	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**EX-9-111**					
Laboratory ID:	10-019-02					
Endosulfan I	**260**	6.2	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**310**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**280**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-10-111**					
Laboratory ID:	10-019-03					
Endosulfan I	**ND**	5.9	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*79*	*33-119*				
Client ID:	**EX-11-111**					
Laboratory ID:	10-019-04					
Endosulfan I	**7.0**	5.9	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**17**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**21**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*75*	*33-119*				
Client ID:	**EX-12-111.5**					
Laboratory ID:	10-019-05					
Endosulfan I	**9.8**	6.1	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**29**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**49**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*83*	*33-119*				

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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-13-111.5**					
Laboratory ID:	10-019-06					
Endosulfan I	**13**	6.4	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**20**	13	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**15**	13	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-111*				
DCB	*65*	*33-119*				
Client ID:	**EX-14-111.5**					
Laboratory ID:	10-019-07					
Endosulfan I	**56**	5.8	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**170**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**220**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*70*	*33-119*				
Client ID:	**EX-15-112**					
Laboratory ID:	10-019-08					
Endosulfan I	**ND**	5.7	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	11	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**18**	11	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*72*	*33-119*				
Client ID:	**EX-16-112**					
Laboratory ID:	10-019-09					
Endosulfan I	**9.6**	5.8	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**28**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**39**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*75*	*33-119*				
Client ID:	**EX-17-112**					
Laboratory ID:	10-019-10					
Endosulfan I	**ND**	5.6	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	11	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*80*	*33-119*				

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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-18-112**					
Laboratory ID:	10-019-11					
Endosulfan I	**34**	6.2	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**68**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**99**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*58*	*30-111*				
DCB	*63*	*33-119*				
Client ID:	**EX-19-112**					
Laboratory ID:	10-019-12					
Endosulfan I	**ND**	6.2	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-20-112**					
Laboratory ID:	10-019-13					
Endosulfan I	**ND**	6.2	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	12	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*69*	*33-119*				
Client ID:	**EX-21-112.5**					
Laboratory ID:	10-019-14					
Endosulfan I	**11**	5.6	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**14**	11	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**16**	11	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-22-112.5**					
Laboratory ID:	10-019-15					
Endosulfan I	**22**	6.5	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**21**	13	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*73*	*33-119*				

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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-23-112.5**					
Laboratory ID:	10-019-16					
Endosulfan I	**19**	6.4	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	13	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*52*	*30-111*				
DCB	*61*	*33-119*				
Client ID:	**EX-24-112.5**					
Laboratory ID:	10-019-17					
Endosulfan I	**ND**	5.7	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	11	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*76*	*33-119*				

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: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-5-11	10-5-11	
Endosulfan II	**ND**	10	EPA 8081	10-5-11	10-5-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-5-11	10-5-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*81*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-019-02										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**41.2**	**45.0**	50.0	50.0	ND	**82**	**90**	32-96	9	10	
Heptachlor	**36.9**	**40.2**	50.0	50.0	ND	**74**	**80**	29-101	9	13	
Aldrin	**33.6**	**36.4**	50.0	50.0	ND	**67**	**73**	27-99	8	10	
Dieldrin	**93.0**	**101**	125	125	ND	**74**	**81**	33-92	8	10	
Endrin	**105**	**113**	125	125	ND	**84**	**91**	29-101	7	11	
4,4'-DDT	**90.0**	**98.2**	125	125	ND	**72**	**79**	21-114	9	15	
Surrogate:											
TCMX						*67*	*74*	*30-111*			
DCB						*75*	*81*	*33-119*			

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Date of Report: October 10, 2011
Samples Submitted: October 4, 2011
Laboratory Reference: 1110-019
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-5-11

Client ID	Lab ID	% Moisture
EX-8-111	10-019-01	9
EX-9-111	10-019-02	19
EX-10-111	10-019-03	16
EX-11-111	10-019-04	15
EX-12-111.5	10-019-05	18
EX-13-111.5	10-019-06	22
EX-14-111.5	10-019-07	13
EX-15-112	10-019-08	13
EX-16-112	10-019-09	14
EX-17-112	10-019-10	11
EX-18-112	10-019-11	20
EX-19-112	10-019-12	20
EX-20-112	10-019-13	19
EX-21-112.5	10-019-14	11
EX-22-112.5	10-019-15	23
EX-23-112.5	10-019-16	22
EX-24-112.5	10-019-17	13

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

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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: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

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: 10-019

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-8-111	10/4/11	845	Soil	1																X	X	X				X
2	EX-9-111		850																								
3	EX-10-111		855																								
4	EX-11-111		900																								
5	EX-12-111.5		915																								
6	EX-13-111.5		920																								
7	EX-14-111.5		925																								
8	EX-15-112		1135																								
9	EX-16-112		1140																								
10	EX-17-112		1145																								

	Signature	Company	Date	Time
Relinquished	[signature] TRACY HARBUR	GEI	10/4/11	1531
Received		Speedy Courier	10-4-11	1531
Relinquished	TRACY HARBUR	Speedy Courier	10-4-11	1456
Received	[signature]	GEC	10/4/11	1656
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

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: 10-019

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate		% Moisture
11	EX-18-112	10/4/11	1150	Soil	1																X	X	X		X
12	EX-19-112		1155																						
13	EX-20-112		1200																						
14	EX-21-112.5		1215																						
15	EX-22-112.5		1505																						
16	EX-23-112.5		1510																						
17	EX-24-112.5		1515																						

	Signature	Company	Date	Time
Relinquished		GEI	10/4/11	1531
Received	TRACY HARBUR	Speedy Courier	10 4 11	3 31
Relinquished	TRACY HARBUR	Speedy Courier	10-4-11	4 54
Received		GEI	10/4/11	1656
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 11, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-039

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 5, 2011.

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

Case Narrative

Samples were collected on October 5, 2011 and received by the laboratory on October 5, 2011. 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.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-25-113	10-039-01	Soil	10-5-11	10-5-11	
EX-26-113	10-039-02	Soil	10-5-11	10-5-11	
EX-27-113	10-039-03	Soil	10-5-11	10-5-11	
EX-28-113	10-039-04	Soil	10-5-11	10-5-11	
EX-29-112.5	10-039-05	Soil	10-5-11	10-5-11	
EX-30-112.5	10-039-06	Soil	10-5-11	10-5-11	
EX-31-112.5	10-039-07	Soil	10-5-11	10-5-11	
EX-32-113	10-039-08	Soil	10-5-11	10-5-11	
EX-33-113	10-039-09	Soil	10-5-11	10-5-11	
EX-34-112.5	10-039-10	Soil	10-5-11	10-5-11	
EX-35-112.5	10-039-11	Soil	10-5-11	10-5-11	
EX-36-112.5	10-039-12	Soil	10-5-11	10-5-11	
EX-37-113	10-039-13	Soil	10-5-11	10-5-11	
EX-38-113	10-039-14	Soil	10-5-11	10-5-11	
EX-39-113	10-039-15	Soil	10-5-11	10-5-11	
EX-40-112.5	10-039-16	Soil	10-5-11	10-5-11	
EX-41-113.5	10-039-17	Soil	10-5-11	10-5-11	
EX-42-113.5	10-039-18	Soil	10-5-11	10-5-11	
EX-43-113.5	10-039-19	Soil	10-5-11	10-5-11	
EX-44-113.5	10-039-20	Soil	10-5-11	10-5-11	
EX-45-113.5	10-039-21	Soil	10-5-11	10-5-11	
EX-46-113.5	10-039-22	Soil	10-5-11	10-5-11	
EX-47-113.5	10-039-23	Soil	10-5-11	10-5-11	
EX-48-113.5	10-039-24	Soil	10-5-11	10-5-11	
EX-49-113.5	10-039-25	Soil	10-5-11	10-5-11	
DUP-1	10-039-26	Soil	10-5-11	10-5-11	
DUP-2	10-039-27	Soil	10-5-11	10-5-11	
DUP-3	10-039-28	Soil	10-5-11	10-5-11	

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Date of Report: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-25-113**					
Laboratory ID:	10-039-01					
Endosulfan I	**390**	6.0	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**240**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**210**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*57*	*30-111*				
DCB	*65*	*33-119*				
Client ID:	**EX-26-113**					
Laboratory ID:	10-039-02					
Endosulfan I	**ND**	5.6	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	11	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*73*	*33-119*				
Client ID:	**EX-27-113**					
Laboratory ID:	10-039-03					
Endosulfan I	**160**	5.8	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**110**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*54*	*30-111*				
DCB	*59*	*33-119*				
Client ID:	**EX-28-113**					
Laboratory ID:	10-039-04					
Endosulfan I	**69**	6.2	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**120**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**190**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*72*	*33-119*				
Client ID:	**EX-29-112.5**					
Laboratory ID:	10-039-05					
Endosulfan I	**ND**	6.0	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*80*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-30-112.5**					
Laboratory ID:	10-039-06					
Endosulfan I	**ND**	6.0	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**15**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**31**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*52*	*30-111*				
DCB	*54*	*33-119*				
Client ID:	**EX-31-112.5**					
Laboratory ID:	10-039-07					
Endosulfan I	**ND**	6.1	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*85*	*30-111*				
DCB	*96*	*33-119*				
Client ID:	**EX-32-113**					
Laboratory ID:	10-039-08					
Endosulfan I	**32**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**19**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*69*	*33-119*				
Client ID:	**EX-33-113**					
Laboratory ID:	10-039-09					
Endosulfan I	**30**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**20**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**26**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*74*	*33-119*				
Client ID:	**EX-34-112.5**					
Laboratory ID:	10-039-10					
Endosulfan I	**9.1**	6.3	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	13	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**15**	13	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*62*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-35-112.5**					
Laboratory ID:	10-039-11					
Endosulfan I	**ND**	6.1	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**16**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-36-112.5**					
Laboratory ID:	10-039-12					
Endosulfan I	**ND**	6.0	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*74*	*33-119*				
Client ID:	**EX-37-113**					
Laboratory ID:	10-039-13					
Endosulfan I	**ND**	6.7	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**13**	13	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**29**	13	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**EX-38-113**					
Laboratory ID:	10-039-14					
Endosulfan I	**14**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*37*	*30-111*				
DCB	*40*	*33-119*				
Client ID:	**EX-39-113**					
Laboratory ID:	10-039-15					
Endosulfan I	**39**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**17**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**19**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*37*	*30-111*				
DCB	*40*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-40-112.5**					
Laboratory ID:	10-039-16					
Endosulfan I	**ND**	6.3	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	13	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*38*	*30-111*				
DCB	*38*	*33-119*				
Client ID:	**EX-41-113.5**					
Laboratory ID:	10-039-17					
Endosulfan I	**ND**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*78*	*33-119*				
Client ID:	**EX-42-113.5**					
Laboratory ID:	10-039-18					
Endosulfan I	**120**	6.2	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**100**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*75*	*33-119*				
Client ID:	**EX-43-113.5**					
Laboratory ID:	10-039-19					
Endosulfan I	**20**	5.9	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**23**	12	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**21**	12	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*73*	*33-119*				
Client ID:	**EX-44-113.5**					
Laboratory ID:	10-039-20					
Endosulfan I	**12**	6.4	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	13	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*58*	*30-111*				
DCB	*51*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-45-113.5**					
Laboratory ID:	10-039-21					
Endosulfan I	**54**	6.2	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**30**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*74*	*33-119*				
Client ID:	**EX-46-113.5**					
Laboratory ID:	10-039-22					
Endosulfan I	**ND**	5.8	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*71*	*33-119*				
Client ID:	**EX-47-113.5**					
Laboratory ID:	10-039-23					
Endosulfan I	**ND**	6.1	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**24**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-111*				
DCB	*78*	*33-119*				
Client ID:	**EX-48-113.5**					
Laboratory ID:	10-039-24					
Endosulfan I	**ND**	6.2	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-49-113.5**					
Laboratory ID:	10-039-25					
Endosulfan I	**ND**	6.6	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	13	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*52*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-1**					
Laboratory ID:	10-039-26					
Endosulfan I	**ND**	5.6	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	11	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**DUP-2**					
Laboratory ID:	10-039-27					
Endosulfan I	**ND**	6.1	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**DUP-3**					
Laboratory ID:	10-039-28					
Endosulfan I	**36**	5.8	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**25**	12	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*77*	*33-119*				

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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:	MB1007S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-7-11	10-7-11	
Endosulfan II	**ND**	10	EPA 8081	10-7-11	10-7-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*76*	*30-111*				
DCB	*82*	*33-119*				
Laboratory ID:	MB1007S2					
Endosulfan I	**ND**	5.0	EPA 8081	10-7-11	10-8-11	
Endosulfan II	**ND**	10	EPA 8081	10-7-11	10-8-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*86*	*33-119*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) 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:	10-039-26										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**40.7**	**42.0**	50.0	50.0	ND	**81**	**84**	32-96	3	20	
Heptachlor	**41.5**	**42.3**	50.0	50.0	ND	**83**	**85**	29-101	2	20	
Aldrin	**40.4**	**41.6**	50.0	50.0	ND	**81**	**83**	27-99	3	20	
Dieldrin	**97.2**	**101**	125	125	ND	**78**	**81**	33-92	4	20	
Endrin	**95.0**	**100**	125	125	ND	**76**	**80**	29-101	5	20	
4,4'-DDT	**98.0**	**102**	125	125	ND	**78**	**82**	21-114	4	20	
Surrogate:											
TCMX						*68*	*70*	*30-111*			
DCB						*77*	*78*	*33-119*			

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: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1007S1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**38.8**	**43.7**	50.0	50.0	N/A	**78**	**87**	51-103	12	15	
Heptachlor	**38.0**	**42.0**	50.0	50.0	N/A	**76**	**84**	51-108	10	15	
Aldrin	**40.5**	**45.1**	50.0	50.0	N/A	**81**	**90**	49-109	11	15	
Dieldrin	**96.9**	**107**	125	125	N/A	**78**	**85**	60-101	10	15	
Endrin	**93.5**	**102**	125	125	N/A	**75**	**82**	60-107	9	15	
4,4'-DDT	**91.4**	**99.6**	125	125	N/A	**73**	**80**	59-107	9	15	
Surrogate:											
TCMX						*75*	*78*	*30-111*			
DCB						*82*	*86*	*33-119*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 11, 2011
Samples Submitted: October 5, 2011
Laboratory Reference: 1110-039
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-7-11

Client ID	Lab ID	% Moisture
EX-25-113	10-039-01	17
EX-26-113	10-039-02	11
EX-27-113	10-039-03	14
EX-28-113	10-039-04	20
EX-29-112.5	10-039-05	17
EX-30-112.5	10-039-06	17
EX-31-112.5	10-039-07	18
EX-32-113	10-039-08	15
EX-33-113	10-039-09	16
EX-34-112.5	10-039-10	20
EX-35-112.5	10-039-11	18
EX-36-112.5	10-039-12	17
EX-37-113	10-039-13	25
EX-38-113	10-039-14	16
EX-39-113	10-039-15	15
EX-40-112.5	10-039-16	20
EX-41-113.5	10-039-17	16
EX-42-113.5	10-039-18	20
EX-43-113.5	10-039-19	15
EX-44-113.5	10-039-20	21
EX-45-113.5	10-039-21	20
EX-46-113.5	10-039-22	13
EX-47-113.5	10-039-23	17
EX-48-113.5	10-039-24	19
EX-49-113.5	10-039-25	24
DUP-1	10-039-26	10
DUP-2	10-039-27	18
DUP-3	10-039-28	14

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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

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 10-039

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-25-113	10/5/11	1005	Soil	1																X	X	X				X
2	EX-26-113		1010																								
3	EX-27-113		1015 ~~1011~~																								
4	EX-28-113		1020 ~~1015~~																								
5	EX-29-112.5		1025 ~~1020~~																								
6	EX-30-112.5		1030 ~~1025~~																								
7	EX-31-112.5		1035 ~~1030~~																								
8	EX-32-113.		1040 ~~1035~~																								
9	EX-33-113		1045 ~~1040~~																								
10	EX-34-112.5		1050 ~~1045~~																								

	Signature	Company	Date	Time
Relinquished		GEI	10/5/11	1525
Received	Brijet Amy	Speedy Messenger	10/5/11	1525
Relinquished	Brijet Amy	Speedy Messenger	10/5/11	17:10
Received		GEI	10/5/11	1710
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

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: 10-039

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
11	EX-35-112.5	10/5/11	1055	Soil	1																X	X	X				X
12	EX-36-112.5		1100																								
13	EX-37-113		1105																								
14	EX-38-113		1110																								
15	EX-39-113		1115																								
16	EX-40-112.5		1120																								
17	EX-41-113.5		1415																								
18	EX-42-113.5		1420																								
19	EX-43-113.5		1425																								
20	EX-44-113.5		1430																								

	Signature	Company	Date	Time
Relinquished		GEI	10/5/11	1525
Received	Dirk Ray	Speedy messenger	10/5/11	15:25
Relinquished	Dirk Ray	Speedy Messenger	10/15/11	17:10
Received		GSE	10/5/11	1710
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Laboratory Number: 10-039

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F SITE
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate			% Moisture
21	EX-45-113.5	10/5/11	1435	Soil	1																X	X	X			X
22	EX-46-113.5		1440																							
23	EX-47-113.5		1445																							
24	EX-48-113.5		1450																							
25	EX-49-113.5		1455																							
26	DUP-1		1011																							
27	DUP-2		1036																							
28	DUP-3		1111																							

	Signature	Company	Date	Time
Relinquished		GEI	10/5/11	1525
Received	Daylight Pay	Speedy Messenger	10/5/11	15:25
Relinquished	Daylight Pay	Speedy Messenger	10/5/11	17:10
Received		GSE	10/5/11	1710
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 12, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-047

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 6, 2011.

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: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

Case Narrative

Samples were collected on October 6, 2011 and received by the laboratory on October 6, 2011. 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.

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: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-50-114.5	10-047-01	Soil	10-6-11	10-6-11	
DUP-4	10-047-02	Soil	10-6-11	10-6-11	
EX-51-114.5	10-047-03	Soil	10-6-11	10-6-11	
EX-52-114.5	10-047-04	Soil	10-6-11	10-6-11	
EX-53-114.5	10-047-05	Soil	10-6-11	10-6-11	
DUP-5	10-047-06	Soil	10-6-11	10-6-11	
EX-54-114.5	10-047-07	Soil	10-6-11	10-6-11	
EX-55-114.5	10-047-08	Soil	10-6-11	10-6-11	
EX-56-114.5	10-047-09	Soil	10-6-11	10-6-11	
EX-57-115.5	10-047-10	Soil	10-6-11	10-6-11	
EX-58-115.5	10-047-11	Soil	10-6-11	10-6-11	
EX-59-115.5	10-047-12	Soil	10-6-11	10-6-11	
DUP-6	10-047-13	Soil	10-6-11	10-6-11	
EX-60-115.5	10-047-14	Soil	10-6-11	10-6-11	
EX-61-115.5	10-047-15	Soil	10-6-11	10-6-11	
EX-62-115.5	10-047-16	Soil	10-6-11	10-6-11	
DUP-7	10-047-17	Soil	10-6-11	10-6-11	
EX-63-116	10-047-18	Soil	10-6-11	10-6-11	
EX-64-116	10-047-19	Soil	10-6-11	10-6-11	
DUP-8	10-047-20	Soil	10-6-11	10-6-11	

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-65-116	10-047-21	Soil	10-6-11	10-6-11	
EX-66-116	10-047-22	Soil	10-6-11	10-6-11	
EX-67-116	10-047-23	Soil	10-6-11	10-6-11	
EX-68-116	10-047-24	Soil	10-6-11	10-6-11	
EX-69-116	10-047-25	Soil	10-6-11	10-6-11	
EX-70-117	10-047-26	Soil	10-6-11	10-6-11	
EX-71-117	10-047-27	Soil	10-6-11	10-6-11	
EX-72-117	10-047-28	Soil	10-6-11	10-6-11	
EX-73-117	10-047-29	Soil	10-6-11	10-6-11	
EX-74-117	10-047-30	Soil	10-6-11	10-6-11	
DUP-9	10-047-31	Soil	10-6-11	10-6-11	
EX-76-119	10-047-32	Soil	10-6-11	10-6-11	
EX-77-118	10-047-33	Soil	10-6-11	10-6-11	
EX-75-117	10-047-34	Soil	10-6-11	10-6-11	

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-50-114.5**					
Laboratory ID:	10-047-01					
Endosulfan I	**ND**	5.7	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**DUP-4**					
Laboratory ID:	10-047-02					
Endosulfan I	**ND**	5.7	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*85*	*30-111*				
DCB	*96*	*33-119*				
Client ID:	**EX-51-114.5**					
Laboratory ID:	10-047-03					
Endosulfan I	**ND**	5.8	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*97*	*33-119*				
Client ID:	**EX-52-114.5**					
Laboratory ID:	10-047-04					
Endosulfan I	**20**	6.1	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*94*	*33-119*				
Client ID:	**EX-53-114.5**					
Laboratory ID:	10-047-05					
Endosulfan I	**15**	6.3	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**17**	13	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**32**	13	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*83*	*30-111*				
DCB	*96*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-5**					
Laboratory ID:	10-047-06					
Endosulfan I	**8.6**	6.4	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	13	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**16**	13	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*93*	*33-119*				
Client ID:	**EX-54-114.5**					
Laboratory ID:	10-047-07					
Endosulfan I	**56**	6.3	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**31**	13	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*78*	*30-111*				
DCB	*90*	*33-119*				
Client ID:	**EX-55-114.5**					
Laboratory ID:	10-047-08					
Endosulfan I	**ND**	6.1	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**EX-56-114.5**					
Laboratory ID:	10-047-09					
Endosulfan I	**ND**	6.0	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*78*	*30-111*				
DCB	*90*	*33-119*				
Client ID:	**EX-57-115.5**					
Laboratory ID:	10-047-10					
Endosulfan I	**ND**	5.7	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*88*	*30-111*				
DCB	*103*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-58-115.5**					
Laboratory ID:	10-047-11					
Endosulfan I	**ND**	5.5	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*94*	*33-119*				
Client ID:	**EX-59-115.5**					
Laboratory ID:	10-047-12					
Endosulfan I	**ND**	6.0	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**DUP-6**					
Laboratory ID:	10-047-13					
Endosulfan I	**ND**	5.5	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**EX-60-115.5**					
Laboratory ID:	10-047-14					
Endosulfan I	**60**	6.4	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**63**	13	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**31**	13	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*99*	*33-119*				
Client ID:	**EX-61-116**					
Laboratory ID:	10-047-15					
Endosulfan I	**ND**	5.6	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*86*	*30-111*				
DCB	*99*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-62-116**					
Laboratory ID:	10-047-16					
Endosulfan I	**ND**	5.4	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**23**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**150**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*94*	*33-119*				
Client ID:	**DUP-7**					
Laboratory ID:	10-047-17					
Endosulfan I	**ND**	5.6	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*85*	*30-111*				
DCB	*98*	*33-119*				
Client ID:	**EX-63-116**					
Laboratory ID:	10-047-18					
Endosulfan I	**23**	5.9	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**28**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**20**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*88*	*30-111*				
DCB	*101*	*33-119*				
Client ID:	**EX-64-116**					
Laboratory ID:	10-047-19					
Endosulfan I	**100**	5.8	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**52**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**DUP-8**					
Laboratory ID:	10-047-20					
Endosulfan I	**130**	5.9	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**70**	12	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*95*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-65-116**					
Laboratory ID:	10-047-21					
Endosulfan I	**ND**	5.7	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*76*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**EX-66-116**					
Laboratory ID:	10-047-22					
Endosulfan I	**ND**	5.4	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**EX-67-116**					
Laboratory ID:	10-047-23					
Endosulfan I	**ND**	5.9	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**EX-68-116**					
Laboratory ID:	10-047-24					
Endosulfan I	**ND**	6.0	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**EX-69-116**					
Laboratory ID:	10-047-25					
Endosulfan I	**ND**	5.9	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*93*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-70-117**					
Laboratory ID:	10-047-26					
Endosulfan I	**ND**	6.3	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**EX-71-117**					
Laboratory ID:	10-047-27					
Endosulfan I	**ND**	6.1	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*85*	*30-111*				
DCB	*102*	*33-119*				
Client ID:	**EX-72-117**					
Laboratory ID:	10-047-28					
Endosulfan I	**ND**	5.5	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*93*	*33-119*				
Client ID:	**EX-73-117**					
Laboratory ID:	10-047-29					
Endosulfan I	**ND**	5.6	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	11	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**EX-74-117**					
Laboratory ID:	10-047-30					
Endosulfan I	**ND**	6.0	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*76*	*30-111*				
DCB	*88*	*33-119*				

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Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-9**					
Laboratory ID:	10-047-31					
Endosulfan I	**ND**	6.5	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*89*	*33-119*				
Client ID:	**EX-76-119**					
Laboratory ID:	10-047-32					
Endosulfan I	**ND**	5.9	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*86*	*33-119*				
Client ID:	**EX-77-118**					
Laboratory ID:	10-047-33					
Endosulfan I	**ND**	5.9	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*96*	*33-119*				
Client ID:	**EX-75-117**					
Laboratory ID:	10-047-34					
Endosulfan I	**ND**	6.5	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*86*	*30-111*				
DCB	*97*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1010S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-10-11	10-10-11	
Endosulfan II	**ND**	10	EPA 8081	10-10-11	10-10-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-10-11	10-10-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*96*	*30-111*				
DCB	*112*	*33-119*				
Laboratory ID:	MB1010S2					
Endosulfan I	**ND**	5.0	EPA 8081	10-10-11	10-11-11	
Endosulfan II	**ND**	10	EPA 8081	10-10-11	10-11-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-10-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*93*	*30-111*				
DCB	*107*	*33-119*				

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Date of Report: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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
Laboratory ID:	10-047-10										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**50.5**	**50.0**	50.0	50.0	ND	**101**	**100**	32-96	1	10	
Heptachlor	**48.2**	**47.1**	50.0	50.0	ND	**96**	**94**	29-101	2	13	
Aldrin	**49.6**	**47.9**	50.0	50.0	ND	**99**	**96**	27-99	3	10	
Dieldrin	**121**	**118**	125	125	ND	**97**	**95**	33-92	3	10	
Endrin	**119**	**117**	125	125	ND	**95**	**94**	29-101	2	11	
4,4'-DDT	**123**	**120**	125	125	ND	**98**	**96**	21-114	2	15	
Surrogate:											
TCMX						*83*	*82*	*30-111*			
DCB						*95*	*93*	*33-119*			
Laboratory ID:	10-047-22										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**49.2**	**50.4**	50.0	50.0	ND	**98**	**101**	32-96	2	10	
Heptachlor	**49.5**	**51.0**	50.0	50.0	ND	**99**	**102**	29-101	3	13	
Aldrin	**49.5**	**50.3**	50.0	50.0	ND	**99**	**101**	27-99	2	10	
Dieldrin	**120**	**123**	125	125	ND	**96**	**98**	33-92	2	10	
Endrin	**116**	**120**	125	125	ND	**93**	**96**	29-101	3	11	
4,4'-DDT	**118**	**122**	125	125	ND	**95**	**97**	21-114	3	15	
Surrogate:											
TCMX						*81*	*82*	*30-111*			
DCB						*94*	*94*	*33-119*			

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: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-10-11

Client ID	Lab ID	% Moisture
EX-50-114.5	10-047-01	12
DUP-4	10-047-02	12
EX-51-114.5	10-047-03	13
EX-52-114.5	10-047-04	18
EX-53-114.5	10-047-05	20
DUP-5	10-047-06	22
EX-54-114.5	10-047-07	21
EX-55-114.5	10-047-08	18
EX-56-114.5	10-047-09	17
EX-57-115.5	10-047-10	12
EX-58-115.5	10-047-11	9
EX-59-115.5	10-047-12	17
DUP-6	10-047-13	9
EX-60-115.5	10-047-14	22
EX-61-116	10-047-15	11
EX-62-116	10-047-16	8
DUP-7	10-047-17	11
EX-63-116	10-047-18	15
EX-64-116	10-047-19	14
DUP-8	10-047-20	15
EX-65-116	10-047-21	13
EX-66-116	10-047-22	8
EX-67-116	10-047-23	15
EX-68-116	10-047-24	16
EX-69-116	10-047-25	15
EX-70-117	10-047-26	20
EX-71-117	10-047-27	18

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: October 12, 2011
Samples Submitted: October 6, 2011
Laboratory Reference: 1110-047
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-10-11

Client ID	Lab ID	% Moisture
EX-72-117	10-047-28	9
EX-73-117	10-047-29	10
EX-74-117	10-047-30	17
DUP-9	10-047-31	23
EX-76-119	10-047-32	15
EX-77-118	10-047-33	16
EX-75-117	10-047-34	23

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

Laboratory Number: 10-047

Company: GEI

Project Number: ~~5147~~ 5364-013-04

Project Name: TAXIWAY F

Project Manager: RST

Sampled by: AJ

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☒ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Gasoline/Van. I	Gasoline/Van. II	Diesel/Van Silica Gel				% Moisture
1	EX-50-114.5	10/6/11	845	Soil	1																X	X	X				
2	DUP-4		846																								
3	EX-51-114.5		850																								
4	EX-52-114.5		855																								
5	EX-53-114.5		0900																								
6	DUP-5		901																								
7	EX-54-114.5		905																								
8	EX-55-114.5		910																								
9	EX-56-114.5		915																								
10	EX-57-115.5		920																								

	Signature	Company	Date	Time
Relinquished		GEI	10/6/11	1453
Received	TRACY HARRIS	Spring Courier	10 6 11	2 55
Relinquished	TRACY HARRIS	Speedy Courier	10-6-11	2 55
Received		GSE	10/6/11	1615
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Laboratory Number: 10-047

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
11	EX-58-115.5	10/6/11	925	Soil	1																X	X	X				X
12	EX-59-115.5		930																								
13	DUP-6		926																								
14	EX-60-115.5		935																								
15	EX-61-116		940																								
16	EX-62-116		945																								
17	DUP-7		941																								
18	EX-63-116		950																								
19	EX-64-116		955																								
20	DUP-8		956																								

	Signature	Company	Date	Time
Relinquished		GEI	10/6/11	1455
Received	Tracy Harbin	Speedy Courier	10 6 11	2 55
Relinquished	Tracy Harbin	Speedy Courier	10 6 11	2 55
Received		OSE	10/6/11	1615
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-047

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
21	EX-65-116	10/6/11	1000	Soil	1																X	X	X				X
22	EX-66-116		1005																								
23	EX-67-116		1010																								
24	EX-68-116		1015																								
25	EX-69-116		1020																								
26	EX-70-117		1045																								
27	EX-71-117		1050																								
28	EX-72-117		1055																								
29	EX-73-117		1410																								
30	EX-74-117		1415																								

	Signature	Company	Date	Time
Relinquished		GEI	10/6/11	1455
Received	TRACY HARBUCK	Speedy Courier	10/6/11	2-5X
Relinquished	TRACY HARBUCK	Speedy Courier	10-6-11	4:15
Received		GEI	10/6/11	1615
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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

Laboratory Number: 10-047

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: BST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
(TPH analysis 5 Days)
☐ _____ (other)

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
31	DUP-9	10/6/11	1421	Soil	1																X	X	X				X
32	EX-76-119	↓	1425	↓	↓																↓	↓	↓				↓
33	EX-77-118	↓	1430	↓	↓																↓	↓	↓				↓
34	EX-75-117	↓	1420	↓	↓																↓	↓	↓				↓

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	10/6/11	1455	
Received	Isaac Stafford	Speedy Courier	10/6/11	2:51	
Relinquished	Travis Hanson	Speedy Courier	10-6-11	4:15	
Received		GEI	10/6/11	1615	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 13, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-061

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2011.

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: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

Case Narrative

Samples were collected on October 7, 2011 and received by the laboratory on October 7, 2011. 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.

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: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-78-118	10-061-01	Soil	10-7-11	10-7-11	
EX-79-118	10-061-02	Soil	10-7-11	10-7-11	
EX-80-118	10-061-03	Soil	10-7-11	10-7-11	
EX-81-118	10-061-04	Soil	10-7-11	10-7-11	
EX-82-119	10-061-05	Soil	10-7-11	10-7-11	
EX-83-119	10-061-06	Soil	10-7-11	10-7-11	
EX-84-119	10-061-07	Soil	10-7-11	10-7-11	
EX-85-119	10-061-08	Soil	10-7-11	10-7-11	
EX-86-119	10-061-09	Soil	10-7-11	10-7-11	
EX-87-119	10-061-10	Soil	10-7-11	10-7-11	
EX-88-119	10-061-11	Soil	10-7-11	10-7-11	
DUP-10	10-061-12	Soil	10-7-11	10-7-11	
EX-89-119	10-061-13	Soil	10-7-11	10-7-11	
DUP-11	10-061-14	Soil	10-7-11	10-7-11	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-78-118**					
Laboratory ID:	10-061-01					
Endosulfan I	**ND**	6.7	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*88*	*30-111*				
DCB	*101*	*33-119*				
Client ID:	**EX-79-118**					
Laboratory ID:	10-061-02					
Endosulfan I	**ND**	6.2	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*93*	*33-119*				
Client ID:	**EX-80-118**					
Laboratory ID:	10-061-03					
Endosulfan I	**ND**	6.5	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*82*	*30-111*				
DCB	*94*	*33-119*				
Client ID:	**EX-81-118**					
Laboratory ID:	10-061-04					
Endosulfan I	**ND**	6.2	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*88*	*30-111*				
DCB	*102*	*33-119*				
Client ID:	**EX-82-119**					
Laboratory ID:	10-061-05					
Endosulfan I	**ND**	6.6	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*97*	*33-119*				

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: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-83-119**					
Laboratory ID:	10-061-06					
Endosulfan I	**ND**	5.9	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**EX-84-119**					
Laboratory ID:	10-061-07					
Endosulfan I	**66**	6.6	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**22**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*80*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**EX-85-119**					
Laboratory ID:	10-061-08					
Endosulfan I	**ND**	6.2	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*86*	*30-111*				
DCB	*99*	*33-119*				
Client ID:	**EX-86-119**					
Laboratory ID:	10-061-09					
Endosulfan I	**ND**	6.1	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**EX-87-119**					
Laboratory ID:	10-061-10					
Endosulfan I	**ND**	6.2	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	12	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*85*	*33-119*				

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: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-88-119**					
Laboratory ID:	10-061-11					
Endosulfan I	**18**	6.5	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*102*	*30-111*				
DCB	*96*	*33-119*				
Client ID:	**DUP-10**					
Laboratory ID:	10-061-12					
Endosulfan I	**ND**	6.5	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*78*	*33-119*				
Client ID:	**EX-89-119**					
Laboratory ID:	10-061-13					
Endosulfan I	**ND**	6.6	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**DUP-11**					
Laboratory ID:	10-061-14					
Endosulfan I	**ND**	6.7	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	13	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*97*	*33-119*				

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: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A
QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1011S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-11-11	10-11-11	
Endosulfan II	**ND**	10	EPA 8081	10-11-11	10-11-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-11-11	10-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*90*	*30-111*				
DCB	*100*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-061-02										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**44.8**	**42.7**	50.0	50.0	ND	**90**	**85**	32-96	5	10	
Heptachlor	**45.3**	**43.7**	50.0	50.0	ND	**91**	**87**	29-101	4	13	
Aldrin	**44.1**	**42.4**	50.0	50.0	ND	**88**	**85**	27-99	4	10	
Dieldrin	**107**	**103**	125	125	ND	**86**	**82**	33-92	4	10	
Endrin	**95.3**	**92.5**	125	125	ND	**76**	**74**	29-101	3	11	
4,4'-DDT	**102**	**99.3**	125	125	ND	**82**	**79**	21-114	3	15	
Surrogate:											
TCMX						*69*	*72*	*30-111*			
DCB						*77*	*81*	*33-119*			

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Date of Report: October 13, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-061
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-11-11

Client ID	Lab ID	% Moisture
EX-78-118	10-061-01	25
EX-79-118	10-061-02	20
EX-80-118	10-061-03	23
EX-81-118	10-061-04	19
EX-82-119	10-061-05	24
EX-83-119	10-061-06	16
EX-84-119	10-061-07	24
EX-85-119	10-061-08	19
EX-86-119	10-061-09	18
EX-87-119	10-061-10	19
EX-88-119	10-061-11	23
DUP-10	10-061-12	23
EX-89-119	10-061-13	24
DUP-11	10-061-14	25

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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

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate		% Moisture
1	EX-78-118	10/7/11	1045	Soil	1																	X	X	X		10
2	EX-79-118		1050																							
3	EX-80-118		1055																							
4	EX-81-118		1100																							
5	EX-82-119		1105																							
6	EX-83-119		1110																							
7	EX-84-119		1115																							
8	EX-85-119		1120																							
9	EX-86-119		1125																							
10	EX-87-119		1130																							

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	10/7/11	1750	
Received		GSE	10/7/11	1750	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate	% Moisture
11	EX-88-119	10/7/11	1135	Soil	1																	X	X	X	X
12	DUP-10	↓	1136	↓	↓																	↓	↓	↓	↓
13	EX-89-119		1610																						
14	DUP-11		1611																						

	Signature	Company	Date	Time
Relinquished		GEI	10/7/11	1750
Received		OSE	10/7/11	1750
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 14, 2012

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-062B

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2011.

Please note that this is a revised report due to revisions of the sample identifications, per a request by Abhijit Joshi. This replaces the original dated October 14, 2011.

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: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

Case Narrative

Samples were collected on October 7, 2011 and received by the laboratory on October 7, 2011. 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.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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.

Total Metals EPA 6010B/7471A Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 110%.

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,
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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A-1-117	10-062-04	Soil	10-7-11	10-7-11	
A-3-119.5	10-062-06	Soil	10-7-11	10-7-11	
A-4-119.5	10-062-07	Soil	10-7-11	10-7-11	
A-5-119.5	10-062-08	Soil	10-7-11	10-7-11	
A-6-119.5	10-062-09	Soil	10-7-11	10-7-11	

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-1-117**					
Laboratory ID:	10-062-04					
Benzene	**0.077**	0.031	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.15	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**0.89**	0.15	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.15	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.15	EPA 8021	10-13-11	10-13-11	
Gasoline	**18**	15	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*111*	*68-124*				
Client ID:	**A-3-119.5**					
Laboratory ID:	10-062-06					
Benzene	**ND**	0.020	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.064	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**ND**	0.064	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.064	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.064	EPA 8021	10-13-11	10-13-11	
Gasoline	**ND**	6.4	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*110*	*68-124*				
Client ID:	**A-4-119.5**					
Laboratory ID:	10-062-07					
Benzene	**ND**	0.020	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.067	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**ND**	0.067	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.067	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.067	EPA 8021	10-13-11	10-13-11	
Gasoline	**ND**	6.7	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*108*	*68-124*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-5-119.5**					
Laboratory ID:	10-062-08					
Benzene	**ND**	0.020	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.052	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**ND**	0.052	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.052	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.052	EPA 8021	10-13-11	10-13-11	
Gasoline	**ND**	5.2	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-124*				
Client ID:	**A-6-119.5**					
Laboratory ID:	10-062-09					
Benzene	**ND**	0.020	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.070	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**ND**	0.070	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.070	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.070	EPA 8021	10-13-11	10-13-11	
Gasoline	**ND**	7.0	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*105*	*68-124*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-1-117**					
Laboratory ID:	10-062-04					
Diesel Range Organics	**ND**	32	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**A-3-119.5**					
Laboratory ID:	10-062-06					
Diesel Range Organics	**ND**	32	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**A-4-119.5**					
Laboratory ID:	10-062-07					
Diesel Range Organics	**ND**	31	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				
Client ID:	**A-5-119.5**					
Laboratory ID:	10-062-08					
Diesel Range Organics	**ND**	29	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**A-6-119.5**					
Laboratory ID:	10-062-09					
Diesel Range Organics	**ND**	33	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-1-117**					
Laboratory ID:	10-062-04					
Naphthalene	**0.074**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**0.057**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**0.028**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0086	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*77*	*43 - 109*				
Pyrene-d10	*80*	*38 - 128*				
Terphenyl-d14	*91*	*33 - 119*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-3-119.5**					
Laboratory ID:	10-062-06					
Naphthalene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0085	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*76*	*43 - 109*				
Pyrene-d10	*81*	*38 - 128*				
Terphenyl-d14	*91*	*33 - 119*				

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: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-4-119.5**					
Laboratory ID:	10-062-07					
Naphthalene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0083	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*43 - 109*				
Pyrene-d10	*83*	*38 - 128*				
Terphenyl-d14	*90*	*33 - 119*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-5-119.5**					
Laboratory ID:	10-062-08					
Naphthalene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0078	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*81*	*43 - 109*				
Pyrene-d10	*85*	*38 - 128*				
Terphenyl-d14	*94*	*33 - 119*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-6-119.5**					
Laboratory ID:	10-062-09					
Naphthalene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0087	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*75*	*43 - 109*				
Pyrene-d10	*74*	*38 - 128*				
Terphenyl-d14	*83*	*33 - 119*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

TOTAL LEAD
EPA 6010B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-062-04					
Client ID:	**A-1-117**					
Lead	**ND**	6.5	6010B	10-12-11	10-12-11	
Lab ID:	10-062-06					
Client ID:	**A-3-119.5**					
Lead	**ND**	6.3	6010B	10-12-11	10-12-11	
Lab ID:	10-062-07					
Client ID:	**A-4-119.5**					
Lead	**ND**	6.2	6010B	10-12-11	10-12-11	
Lab ID:	10-062-08					
Client ID:	**A-5-119.5**					
Lead	**ND**	5.8	6010B	10-12-11	10-12-11	
Lab ID:	10-062-09					
Client ID:	**A-6-119.5**					
Lead	**ND**	6.5	6010B	10-12-11	10-12-11	

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013S1					
Benzene	**ND**	0.020	EPA 8021	10-13-11	10-13-11	
Toluene	**ND**	0.050	EPA 8021	10-13-11	10-13-11	
Ethyl Benzene	**ND**	0.050	EPA 8021	10-13-11	10-13-11	
m,p-Xylene	**ND**	0.050	EPA 8021	10-13-11	10-13-11	
o-Xylene	**ND**	0.050	EPA 8021	10-13-11	10-13-11	
Gasoline	**ND**	5.0	NWTPH-Gx	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*68-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-053-01									
	ORIG	DUP								
Benzene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						*100*	*99*	*68-124*		
SPIKE BLANKS										
Laboratory ID:	SB1013S1									
	SB	SBD	SB	SBD		SB	SBD			
Benzene	**0.910**	**0.991**	1.00	1.00		**91**	**99**	77-114	9	9
Toluene	**0.909**	**0.991**	1.00	1.00		**91**	**99**	80-115	9	9
Ethyl Benzene	**0.889**	**0.968**	1.00	1.00		**89**	**97**	80-118	9	9
m,p-Xylene	**0.884**	**0.963**	1.00	1.00		**88**	**96**	82-118	9	9
o-Xylene	**0.883**	**0.957**	1.00	1.00		**88**	**96**	82-116	8	9
Surrogate:										
Fluorobenzene						*94*	*101*	*68-124*		

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

NWTPH-Dx
QUALITY CONTROL
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	10-12-11	10-12-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	10-12-11	10-12-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*116*	*50-150*				

Analyte	Result		Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE							
Laboratory ID:	10-049-05						
	ORIG	DUP					
Mineral Oil	**1980**	**1970**			1	NA	
Surrogate:							
o-Terphenyl			*113* *122*	*50-150*			

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1013S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*43 - 109*				
Pyrene-d10	*94*	*38 - 128*				
Terphenyl-d14	*103*	*33 - 119*				

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-062-07										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.0622**	**0.0690**	0.0833	0.0833	ND	75	83	39 - 110	10	21	
Acenaphthylene	**0.0828**	**0.0896**	0.0833	0.0833	ND	99	108	47 - 124	8	21	
Acenaphthene	**0.0651**	**0.0716**	0.0833	0.0833	ND	78	86	50 - 120	10	20	
Fluorene	**0.0685**	**0.0762**	0.0833	0.0833	ND	82	91	52 - 126	11	21	
Phenanthrene	**0.0641**	**0.0711**	0.0833	0.0833	ND	77	85	41 - 130	10	22	
Anthracene	**0.0748**	**0.0835**	0.0833	0.0833	ND	90	100	48 - 124	11	23	
Fluoranthene	**0.0778**	**0.0860**	0.0833	0.0833	ND	93	103	40 - 137	10	23	
Pyrene	**0.0724**	**0.0797**	0.0833	0.0833	ND	87	96	36 - 139	10	23	
Benzo[a]anthracene	**0.0685**	**0.0749**	0.0833	0.0833	ND	82	90	43 - 127	9	21	
Chrysene	**0.0687**	**0.0751**	0.0833	0.0833	ND	82	90	41 - 133	9	19	
Benzo[b]fluoranthene	**0.0784**	**0.0856**	0.0833	0.0833	ND	94	103	40 - 132	9	25	
Benzo(j,k)fluoranthene	**0.0827**	**0.0869**	0.0833	0.0833	ND	99	104	35 - 132	5	25	
Benzo[a]pyrene	**0.0866**	**0.0833**	0.0833	0.0833	ND	104	100	37 - 131	4	26	
Indeno(1,2,3-c,d)pyrene	**0.0758**	**0.0806**	0.0833	0.0833	ND	91	97	39 - 134	6	23	
Dibenz[a,h]anthracene	**0.0751**	**0.0798**	0.0833	0.0833	ND	90	96	40 - 137	6	21	
Benzo[g,h,i]perylene	**0.0692**	**0.0777**	0.0833	0.0833	ND	83	93	35 - 135	12	22	
Surrogate:											
2-Fluorobiphenyl						*82*	*72*	*43 - 109*			
Pyrene-d10						*83*	*73*	*38 - 128*			
Terphenyl-d14						*93*	*78*	*33 - 119*			

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
METHOD BLANK QUALITY CONTROL

Date Extracted:	10-12-11
Date Analyzed:	10-12-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1012S2

Analyte	Method	Result	PQL
Lead	6010B	**ND**	5.0

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
DUPLICATE QUALITY CONTROL

Date Extracted: 10-12-11
Date Analyzed: 10-12-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-062-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**ND**	**ND**	NA	5.0	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
MS/MSD QUALITY CONTROL

Date Extracted: 10-12-11
Date Analyzed: 10-12-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-062-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	**232**	93	**245**	98	6	

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Date of Report: October 14, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062B
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-12-11

Client ID	Lab ID	% Moisture
A-1-117	10-062-04	23
A-3-119.5	10-062-06	21
A-4-119.5	10-062-07	19
A-5-119.5	10-062-08	14
A-6-119.5	10-062-09	23

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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

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
- [x] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days) (TPH analysis 5 Days)
- [ ] _____ (other)

Laboratory Number: 10-062

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B BENZENE ONLY	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead	ENDOSULFAN I (HOLD)	ENDOSULFAN II (HOLD)	ENDOSULFAN SULFATE (HOLD)	% Moisture
1	~~PCS-1.0~~ DB 3/13 PCS-12Φ	10/7/11	1230	Soil	4		X		X				X									X				78
2	PCS-2.0		1235		4																					
3	PCS-3.0		1240		3																					
4	~~A-1-4.0~~ A-1-117		1310		4		⊗		⊗				⊗									⊗				
5	~~A-2 4.5~~ A-2-116.5		1315		4					●												~~●~~ called DB	▲	▲	▲	
6	~~A-3 1.5~~ A-3-119.5		1500		4		⊗		⊗				⊗									⊗	●	●	●	
7	~~A-4-1.5~~ A-4-119.5		1510		4		⊗		⊗				⊗									⊗	●	●	●	
8	~~A-5-1.5~~ A-5-119.5		1515		4		⊗		⊗				⊗									⊗	●	●	●	
9	~~A-6-1.5~~ A-6-119.5		1520		4		⊗		⊗				⊗									⊗	●	●	●	
10	A-7-1.5		1525		1																					

	Signature	Company	Date	Time
Relinquished		GEI	10/7/11	1755
Received		CORE	10/7/11	1755
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Added 10/12/11 DB. 4:12 pm (2 day TAT)

● Added 10/17 lm. DB (2 day TAT) (HOLD ENDOSULFANS) DB

▲ Added 10/21/11 DB

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 14, 2012

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-062C

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2011.

Please note that this is a revised report due to revisions of the sample identifications, per a request by Abhijit Joshi. This replaces the original dated October 18, 2011.

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: October 18, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062C
Project: 5364-013-04

Case Narrative

Samples were collected on October 7, 2011 and received by the laboratory on October 7, 2011. 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.

Benzene by EPA 8260B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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: October 18, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062C
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A-2-116.5	10-062-05	Soil	10-7-11	11-7-11	

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: October 18, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062C
Project: 5364-013-04

BENZENE by EPA 8260B

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-2-116.5**					
Laboratory ID:	10-062-05					
Benzene	0.019	0.0013	EPA 8260	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*111*	*63-127*				
Toluene-d8	*106*	*65-129*				
4-Bromofluorobenzene	*105*	*55-121*				

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: October 18, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062C
Project: 5364-013-04

BENZENE by EPA 8260B
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
Benzene	ND	0.0010	EPA 8260	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*113*	*63-127*				
Toluene-d8	*109*	*65-129*				
4-Bromofluorobenzene	*109*	*55-121*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1017S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0640**	**0.0641**	0.0500	0.0500	128	128	70-130	0	19	
Benzene	**0.0572**	**0.0568**	0.0500	0.0500	114	114	70-125	1	15	
Trichloroethene	**0.0555**	**0.0558**	0.0500	0.0500	111	112	70-122	1	14	
Toluene	**0.0541**	**0.0541**	0.0500	0.0500	108	108	73-120	0	16	
Chlorobenzene	**0.0516**	**0.0523**	0.0500	0.0500	103	105	74-109	1	12	
Surrogate:										
Dibromofluoromethane					*112*	*109*	*63-127*			
Toluene-d8					*107*	*107*	*65-129*			
4-Bromofluorobenzene					*108*	*109*	*55-121*			

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: October 18, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062C
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-17-11

Client ID	Lab ID	% Moisture
A-2-116.5	10-062-05	22

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.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
- [x] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days) (TPH analysis 5 Days)
- [ ] _____ (other)

Laboratory Number: 10-062

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B BENZENE ONLY	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead	ENDOSULFAN I (HOLD)	ENDOSULFAN II (HOLD)	ENDOSULFAN SULFATE (HOLD)	% Moisture
1	~~PCS-1.0~~ DB 3/13 PCS-12Φ	10/7/11	1230	Soil	4		X		X				X									X				78
2	PCS-2.0		1235		4																					
3	PCS-3.0		1240		3																					
4	~~A-1-4.0~~ A-1-117		1310		4		⊗		⊗				⊗									⊗				
5	~~A-2 4.5~~ A-2-116.5		1315		4					●												~~●~~ called DB	▲	▲	▲	
6	~~A-3 1.5~~ A-3-119.5		1500		4		⊗		⊗				⊗									⊗	●	●	●	
7	~~A-4-1.5~~ A-4-119.5		1510		4		⊗		⊗				⊗									⊗	●	●	●	
8	~~A-5-1.5~~ A-5-119.5		1515		4		⊗		⊗				⊗									⊗	●	●	●	
9	~~A-6-1.5~~ A-6-119.5		1520		4		⊗		⊗				⊗									⊗	●	●	●	
10	A-7-1.5		1525		1																					

	Signature	Company	Date	Time
Relinquished		GEI	10/7/11	1755
Received		CORE	10/7/11	1755
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Added 10/12/11 DB. 4:12 pm (2 day TAT)

● Added 10/17 lm. DB (2 day TAT) (HOLD ENDOSULFANS) DB

▲ Added 10/21/11 DB

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 14, 2012

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-062

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 7, 2011.

Please note that this is a revised report due to revisions of the sample identifications, per a request by Abhijit Joshi. This replaces the original dated October 10, 2011.

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

Case Narrative

Samples were collected on October 7, 2011 and received by the laboratory on October 7, 2011. 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.

NWTPH Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Total Lead EPA 6010B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 110%.

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:
Samples Submitted:
Laboratory Reference:
Project:

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
PCS-120	10-062-01	Soil	10-7-11	10-7-11	

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

NWTPH-Gx/BTEX

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PCS-120**					
Laboratory ID:	10-062-01					
Benzene	**ND**	0.022	EPA 8021	10-7-11	10-8-11	
Toluene	**ND**	0.11	EPA 8021	10-7-11	10-8-11	
Ethyl Benzene	**0.45**	0.11	EPA 8021	10-7-11	10-8-11	
m,p-Xylene	**0.19**	0.11	EPA 8021	10-7-11	10-8-11	
o-Xylene	**ND**	0.55	EPA 8021	10-7-11	10-8-11	U1
Gasoline	**260**	11	NWTPH-Gx	10-7-11	10-8-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*68-124*				

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

NWTPH-Dx
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PCS-120**					
Laboratory ID:	10-062-01					
Diesel Range Organics	**310**	29	NWTPH-Dx	10-7-11	10-9-11	M
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	10-7-11	10-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

PAHs by EPA 8270D/SIM
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PCS-120**					
Laboratory ID:	10-062-01					
Naphthalene	**0.21**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
2-Methylnaphthalene	**2.5**	0.077	EPA 8270/SIM	10-8-11	10-10-11	
1-Methylnaphthalene	**0.93**	0.077	EPA 8270/SIM	10-8-11	10-10-11	
Acenaphthylene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Acenaphthene	**0.018**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Fluorene	**0.012**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Phenanthrene	**0.023**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Anthracene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Fluoranthene	**0.017**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Pyrene	**0.015**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[a]anthracene	**0.0093**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Chrysene	**0.0083**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[b]fluoranthene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Benzo(j,k)fluoranthene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[a]pyrene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Dibenz[a,h]anthracene	**ND**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[g,h,i]perylene	**0.0097**	0.0077	EPA 8270/SIM	10-8-11	10-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*43 - 109*				
Pyrene-d10	*61*	*38 - 128*				
Terphenyl-d14	*65*	*33 - 119*				

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

TOTAL LEAD
EPA 6010B

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-062-01					
Client ID:	**PCS-120**					
Lead	**ND**	5.8	6010B	10-10-11	10-10-11	

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

NWTPH-Gx/BTEX
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007S1					
Benzene	**ND**	0.020	EPA 8021	10-7-11	10-7-11	
Toluene	**ND**	0.050	EPA 8021	10-7-11	10-7-11	
Ethyl Benzene	**ND**	0.050	EPA 8021	10-7-11	10-7-11	
m,p-Xylene	**ND**	0.050	EPA 8021	10-7-11	10-7-11	
o-Xylene	**ND**	0.050	EPA 8021	10-7-11	10-7-11	
Gasoline	**ND**	5.0	NWTPH-Gx	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*68-124*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-038-01									
	ORIG	DUP								
Benzene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Toluene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Ethyl Benzene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
m,p-Xylene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
o-Xylene	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Gasoline	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						*102*	*91*	*68-124*		
SPIKE BLANKS										
Laboratory ID:	SB1007S1									
	SB	SBD	SB	SBD		SB	SBD			
Benzene	**0.983**	**1.04**	1.00	1.00		**98**	**104**	77-114	6	9
Toluene	**0.991**	**1.04**	1.00	1.00		**99**	**104**	80-115	5	9
Ethyl Benzene	**0.959**	**1.00**	1.00	1.00		**96**	**100**	80-118	4	9
m,p-Xylene	**0.958**	**1.00**	1.00	1.00		**96**	**100**	82-118	4	9
o-Xylene	**0.950**	**0.986**	1.00	1.00		**95**	**99**	82-116	4	9
Surrogate:										
Fluorobenzene						*103*	*105*	*68-124*		

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

NWTPH-Dx
QUALITY CONTROL
(with acid/silica gel clean-up)

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	10-7-11	10-7-11	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	10-7-11	10-7-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				

Analyte	Result		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-223-106							
	ORIG	DUP						
Diesel Range Organics	**33.8**	**33.0**				2	NA	
Lube Oil	**114**	**106**				7	NA	
Surrogate:								
o-Terphenyl			*97*	*107*	*50-150*			

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

PAHs by EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1008S1					
Naphthalene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Acenaphthylene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Acenaphthene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Fluorene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Phenanthrene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Anthracene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Pyrene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Chrysene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270/SIM	10-8-11	10-9-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*43 - 109*				
Pyrene-d10	*92*	*38 - 128*				
Terphenyl-d14	*92*	*33 - 119*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

PAHs by EPA 8270D/SIM
MS/MSD QUALITY CONTROL
(with silica gel clean-up)

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-062-01										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	**0.246**	**0.274**	0.0833	0.0833	0.185	73	107	39 - 110	11	21	
Acenaphthylene	**0.0635**	**0.0670**	0.0833	0.0833	ND	76	80	47 - 124	5	21	
Acenaphthene	**0.0724**	**0.0724**	0.0833	0.0833	0.0157	68	68	50 - 120	0	20	
Fluorene	**0.0701**	**0.0692**	0.0833	0.0833	0.0103	72	71	52 - 126	1	21	
Phenanthrene	**0.0858**	**0.0747**	0.0833	0.0833	0.0202	79	65	41 - 130	14	22	
Anthracene	**0.0662**	**0.0628**	0.0833	0.0833	ND	79	75	48 - 124	5	23	
Fluoranthene	**0.0942**	**0.0781**	0.0833	0.0833	0.0146	96	76	40 - 137	19	23	
Pyrene	**0.0838**	**0.0701**	0.0833	0.0833	0.0133	85	68	36 - 139	18	23	
Benzo[a]anthracene	**0.0673**	**0.0623**	0.0833	0.0833	0.00800	71	65	43 - 127	8	21	
Chrysene	**0.0683**	**0.0624**	0.0833	0.0833	0.00716	73	66	41 - 133	9	19	
Benzo[b]fluoranthene	**0.0701**	**0.0662**	0.0833	0.0833	ND	84	79	40 - 132	6	25	
Benzo(j,k)fluoranthene	**0.0720**	**0.0666**	0.0833	0.0833	ND	86	80	35 - 132	8	25	
Benzo[a]pyrene	**0.0723**	**0.0668**	0.0833	0.0833	ND	87	80	37 - 131	8	26	
Indeno(1,2,3-c,d)pyrene	**0.0708**	**0.0689**	0.0833	0.0833	ND	85	83	39 - 134	3	23	
Dibenz[a,h]anthracene	**0.0653**	**0.0618**	0.0833	0.0833	ND	78	74	40 - 137	6	21	
Benzo[g,h,i]perylene	**0.0703**	**0.0677**	0.0833	0.0833	0.00835	74	71	35 - 135	4	22	
Surrogate:											
2-Fluorobiphenyl						*72*	*68*	*43 - 109*			
Pyrene-d10						*77*	*75*	*38 - 128*			
Terphenyl-d14						*84*	*72*	*33 - 119*			

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: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
METHOD BLANK QUALITY CONTROL

Date Extracted:	10-10-11
Date Analyzed:	10-10-11
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB1010S1

Analyte	Method	Result	PQL
Lead	6010B	**ND**	5.0

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Date of Report: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
DUPLICATE QUALITY CONTROL

Date Extracted: 10-10-11
Date Analyzed: 10-10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	**125**	**123**	2	5.0	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

TOTAL LEAD
EPA 6010B
MS/MSD QUALITY CONTROL

Date Extracted: 10-10-11
Date Analyzed: 10-10-11

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-063-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	**446**	128	**419**	117	6	V

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Date of Report: October 10, 2011
Samples Submitted: October 7, 2011
Laboratory Reference: 1110-062
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-7-11

Client ID	Lab ID	% Moisture
PCS-120	10-062-01	14

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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

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
- [x] Same Day
- [ ] 1 Day
- [ ] 2 Days
- [ ] 3 Days
- [ ] Standard (7 Days) (TPH analysis 5 Days)
- [ ] _____ (other)

Laboratory Number: 10-062

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B BENZENE ONLY	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead	ENDOSULFAN I (HOLD)	ENDOSULFAN II (HOLD)	ENDOSULFAN SULFATE (HOLD)	% Moisture
1	~~PCS-1.0~~ DB 3/13 PCS-12Φ	10/7/11	1230	Soil	4		X		X				X									X				78
2	PCS-2.0		1235		4																					
3	PCS-3.0		1240		3																					
4	~~A-1-4.0~~ A-1-117		1310		4		⊗		⊗				⊗									⊗				
5	~~A-2 4.5~~ A-2-116.5		1315		4					●												~~●~~ called DB	▲	▲	▲	
6	~~A-3 1.5~~ A-3-119.5		1500		4		⊗		⊗				⊗									⊗	●	●	●	
7	~~A-4-1.5~~ A-4-119.5		1510		4		⊗		⊗				⊗									⊗	●	●	●	
8	~~A-5-1.5~~ A-5-119.5		1515		4		⊗		⊗				⊗									⊗	●	●	●	
9	~~A-6-1.5~~ A-6-119.5		1520		4		⊗		⊗				⊗									⊗	●	●	●	
10	A-7-1.5		1525		1																					

	Signature	Company	Date	Time
Relinquished		GEI	10/7/11	1755
Received		CORE	10/7/11	1755
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Added 10/12/11 DB. 4:12 pm (2 day TAT)

● Added 10/17 lm. DB (2 day TAT) (HOLD ENDOSULFANS) DB

▲ Added 10/21/11 DB

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 14, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-069

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 10, 2011.

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: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

Case Narrative

Samples were collected on October 10, 2011 and received by the laboratory on October 10, 2011. 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.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-90-120	10-069-01	Soil	10-10-11	10-10-11	
EX-91-120	10-069-02	Soil	10-10-11	10-10-11	
EX-92-120	10-069-03	Soil	10-10-11	10-10-11	
EX-93-120	10-069-04	Soil	10-10-11	10-10-11	
EX-94-120	10-069-05	Soil	10-10-11	10-10-11	
EX-95-120	10-069-06	Soil	10-10-11	10-10-11	
EX-96-120	10-069-07	Soil	10-10-11	10-10-11	
EX-97-120	10-069-08	Soil	10-10-11	10-10-11	
EX-98-120	10-069-09	Soil	10-10-11	10-10-11	
EX-99-120	10-069-10	Soil	10-10-11	10-10-11	
EX-100-120	10-069-11	Soil	10-10-11	10-10-11	
EX-101-120	10-069-12	Soil	10-10-11	10-10-11	
EX-102-120	10-069-13	Soil	10-10-11	10-10-11	
EX-103-120	10-069-14	Soil	10-10-11	10-10-11	
DUP-12	10-069-15	Soil	10-10-11	10-10-11	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-90-120**					
Laboratory ID:	10-069-01					
Endosulfan I	**ND**	6.2	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*85*	*33-119*				
Client ID:	**EX-91-120**					
Laboratory ID:	10-069-02					
Endosulfan I	**9.9**	6.5	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	13	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*87*	*33-119*				
Client ID:	**EX-92-120**					
Laboratory ID:	10-069-03					
Endosulfan I	**ND**	6.6	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	13	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*86*	*33-119*				
Client ID:	**EX-93-120**					
Laboratory ID:	10-069-04					
Endosulfan I	**ND**	6.0	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-111*				
DCB	*81*	*33-119*				
Client ID:	**EX-94-120**					
Laboratory ID:	10-069-05					
Endosulfan I	**ND**	5.9	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*75*	*33-119*				

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Date of Report: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-95-120**					
Laboratory ID:	10-069-06					
Endosulfan I	**ND**	5.8	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*79*	*33-119*				
Client ID:	**EX-96-120**					
Laboratory ID:	10-069-07					
Endosulfan I	**ND**	5.9	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*57*	*30-111*				
DCB	*69*	*33-119*				
Client ID:	**EX-97-120**					
Laboratory ID:	10-069-08					
Endosulfan I	**54**	6.1	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*75*	*33-119*				
Client ID:	**EX-98-120**					
Laboratory ID:	10-069-09					
Endosulfan I	**ND**	5.7	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	11	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-111*				
DCB	*84*	*33-119*				
Client ID:	**EX-99-120**					
Laboratory ID:	10-069-10					
Endosulfan I	**6.4**	5.6	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	11	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*89*	*30-111*				
DCB	*110*	*33-119*				

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Date of Report: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-100-120**					
Laboratory ID:	10-069-11					
Endosulfan I	**ND**	5.9	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*70*	*30-111*				
DCB	*86*	*33-119*				
Client ID:	**EX-101-120**					
Laboratory ID:	10-069-12					
Endosulfan I	**ND**	5.7	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	11	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-111*				
DCB	*72*	*33-119*				
Client ID:	**EX-102-120**					
Laboratory ID:	10-069-13					
Endosulfan I	**23**	6.3	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	13	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**17**	13	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*39*	*30-111*				
DCB	*44*	*33-119*				
Client ID:	**EX-103-120**					
Laboratory ID:	10-069-14					
Endosulfan I	**ND**	6.0	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*84*	*33-119*				
Client ID:	**DUP-12**					
Laboratory ID:	10-069-15					
Endosulfan I	**ND**	7.4	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	15	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	15	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*60*	*30-111*				
DCB	*73*	*33-119*				

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Date of Report: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

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:	MB1012S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-12-11	10-13-11	
Endosulfan II	**ND**	10	EPA 8081	10-12-11	10-13-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-12-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*79*	*30-111*				
DCB	*93*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-069-02										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**41.0**	**39.9**	50.0	50.0	ND	**82**	**80**	32-96	3	10	
Heptachlor	**41.5**	**40.3**	50.0	50.0	ND	**83**	**81**	29-101	3	13	
Aldrin	**41.7**	**40.9**	50.0	50.0	ND	**83**	**82**	27-99	2	10	
Dieldrin	**101**	**97.2**	125	125	ND	**80**	**78**	33-92	4	10	
Endrin	**105**	**101**	125	125	ND	**84**	**81**	29-101	4	11	
4,4'-DDT	**101**	**94.3**	125	125	ND	**81**	**75**	21-114	7	15	
Surrogate:											
TCMX						*80*	*80*	*30-111*			
DCB						*96*	*96*	*33-119*			

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: October 14, 2011
Samples Submitted: October 10, 2011
Laboratory Reference: 1110-069
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-12-11

Client ID	Lab ID	% Moisture
EX-90-120	10-069-01	20
EX-91-120	10-069-02	23
EX-92-120	10-069-03	24
EX-93-120	10-069-04	17
EX-94-120	10-069-05	15
EX-95-120	10-069-06	14
EX-96-120	10-069-07	15
EX-97-120	10-069-08	18
EX-98-120	10-069-09	12
EX-99-120	10-069-10	11
EX-100-120	10-069-11	16
EX-101-120	10-069-12	13
EX-102-120	10-069-13	20
EX-103-120	10-069-14	17
DUP-12	10-069-15	33

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: 9E1
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-069

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-90-120	10/10/11	0845	Soil	1																X	X	X				
2	EX-91-120		1020																								
3	EX-92-120		1120																								
4	EX-93-120		0850																								
5	EX-94-120		0925																								
6	EX-95-120		1125																								
7	EX-96-120		1130																								
8	EX-97-120		1400																								
9	EX-98-120		1405																								
10	EX-99-120		1410																								

	Signature	Company	Date	Time
Relinquished		9E1	10/10/11	1515
Received		Speedy	10-10-11	1520
Relinquished		Speedy	10-10-11	1640
Received		CBE	10/10/11	1640
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-069

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
11	EX-100-120	10/10/11	1415	Soil	1																X	X	X				8
12	EX-101-120		1435																								
13	EX-102-120		1440																								
14	EX-~~102~~-120 103 DUP		1445																								
15	DUP-12		1131																								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	10/10/11	1515	
Received		Speedy	10-10-11	1520	
Relinquished		Speedy	10-10-11	1640	
Received		OSE	10/10/11	1640	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 18, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-096

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 12, 2011.

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

Case Narrative

Samples were collected on October 11 and 12, 2011 and received by the laboratory on October 12, 2011. 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.

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-104-120	10-096-01	Soil	10-11-11	10-12-11	
EX-105-120	10-096-02	Soil	10-11-11	10-12-11	
EX-106-119	10-096-03	Soil	10-12-11	10-12-11	
EX-107-120	10-096-04	Soil	10-12-11	10-12-11	
EX-108-120	10-096-05	Soil	10-12-11	10-12-11	
EX-109-120	10-096-06	Soil	10-12-11	10-12-11	

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-104-120**					
Laboratory ID:	10-096-01					
Endosulfan I	**ND**	6.1	EPA 8081	10-13-11	10-13-11	
Endosulfan II	**ND**	12	EPA 8081	10-13-11	10-13-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*79*	*33-119*				
Client ID:	**EX-105-120**					
Laboratory ID:	10-096-02					
Endosulfan I	**ND**	6.4	EPA 8081	10-13-11	10-14-11	
Endosulfan II	**ND**	13	EPA 8081	10-13-11	10-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-13-11	10-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-106-119**					
Laboratory ID:	10-096-03					
Endosulfan I	**ND**	6.4	EPA 8081	10-13-11	10-14-11	
Endosulfan II	**ND**	13	EPA 8081	10-13-11	10-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-13-11	10-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*78*	*33-119*				
Client ID:	**EX-107-120**					
Laboratory ID:	10-096-04					
Endosulfan I	**ND**	6.2	EPA 8081	10-13-11	10-14-11	
Endosulfan II	**ND**	12	EPA 8081	10-13-11	10-14-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-13-11	10-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*60*	*30-111*				
DCB	*69*	*33-119*				
Client ID:	**EX-108-120**					
Laboratory ID:	10-096-05					
Endosulfan I	**ND**	6.9	EPA 8081	10-13-11	10-14-11	
Endosulfan II	**ND**	14	EPA 8081	10-13-11	10-14-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	10-13-11	10-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*58*	*30-111*				
DCB	*69*	*33-119*				

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-109-120**					
Laboratory ID:	10-096-06					
Endosulfan I	**ND**	6.5	EPA 8081	10-13-11	10-14-11	
Endosulfan II	**ND**	13	EPA 8081	10-13-11	10-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-13-11	10-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*61*	*30-111*				
DCB	*69*	*33-119*				

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013S2					
Endosulfan I	**ND**	5.0	EPA 8081	10-13-11	10-13-11	
Endosulfan II	**ND**	10	EPA 8081	10-13-11	10-13-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-13-11	10-13-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*76*	*30-111*				
DCB	*91*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1013S2										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**44.5**	**47.4**	50.0	50.0	N/A	**89**	**95**	51-103	6	6	
Heptachlor	**45.1**	**47.6**	50.0	50.0	N/A	**90**	**95**	51-108	5	7	
Aldrin	**46.8**	**49.4**	50.0	50.0	N/A	**94**	**99**	49-109	5	8	
Dieldrin	**113**	**119**	125	125	N/A	**91**	**95**	60-101	5	7	
Endrin	**115**	**121**	125	125	N/A	**92**	**96**	60-107	5	9	
4,4'-DDT	**110**	**114**	125	125	N/A	**88**	**91**	59-107	4	8	
Surrogate:											
TCMX						*77*	*80*	*30-111*			
DCB						*90*	*92*	*33-119*			

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: October 18, 2011
Samples Submitted: October 12, 2011
Laboratory Reference: 1110-096
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-13-11

Client ID	Lab ID	% Moisture
EX-104-120	10-096-01	19
EX-105-120	10-096-02	22
EX-106-119	10-096-03	22
EX-107-120	10-096-04	19
EX-108-120	10-096-05	27
EX-109-120	10-096-06	23

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-096

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-104-120	10/11/11	1025	SOIL	1																X	X	X				
2	EX-105-120	10/11/11	1405	SOIL	1																						
3	EX-106-119	10/12/11	0820																								
4	EX-107-120		0825																								
5	EX-108-120		1345																								
6	EX-109-120		1420																								

	Signature	Company	Date	Time
Relinquished		GEI	10/12/11	1540
Received		SPEEDY	"	"
Relinquished		"	"	515
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 20, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-113

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 14, 2011.

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: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

Case Narrative

Samples were collected on October 13 and 14, 2011 and received by the laboratory on October 14, 2011. 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.

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: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-113-120	10-113-01	Soil	10-14-11	10-14-11	
EX-114-120	10-113-02	Soil	10-14-11	10-14-11	
EX-115-120	10-113-03	Soil	10-14-11	10-14-11	
EX-116-120	10-113-04	Soil	10-14-11	10-14-11	
EX-117-120	10-113-05	Soil	10-14-11	10-14-11	
EX-118-120	10-113-06	Soil	10-14-11	10-14-11	
EX-119-120	10-113-07	Soil	10-14-11	10-14-11	
EX-120-120	10-113-08	Soil	10-14-11	10-14-11	
EX-121-120	10-113-09	Soil	10-14-11	10-14-11	
DUP-13	10-113-10	Soil	10-14-11	10-14-11	
EX-122-120	10-113-11	Soil	10-14-11	10-14-11	
EX-123-120	10-113-12	Soil	10-14-11	10-14-11	
EX-124-121	10-113-13	Soil	10-14-11	10-14-11	
DUP-14	10-113-14	Soil	10-14-11	10-14-11	
EX-125-121	10-113-15	Soil	10-14-11	10-14-11	
EX-126-121	10-113-16	Soil	10-14-11	10-14-11	
EX-127-121	10-113-17	Soil	10-14-11	10-14-11	
EX-128-120	10-113-18	Soil	10-14-11	10-14-11	
EX-129-120	10-113-19	Soil	10-14-11	10-14-11	
EX-110-120	10-113-20	Soil	10-13-11	10-14-11	
EX-111-120	10-113-21	Soil	10-13-11	10-14-11	
EX-112-120	10-113-22	Soil	10-13-11	10-14-11	

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: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-113-120**					
Laboratory ID:	10-113-01					
Endosulfan I	**ND**	5.7	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	11	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*82*	*33-119*				
Client ID:	**EX-114-120**					
Laboratory ID:	10-113-02					
Endosulfan I	**ND**	6.4	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-115-120**					
Laboratory ID:	10-113-03					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*81*	*33-119*				
Client ID:	**EX-116-120**					
Laboratory ID:	10-113-04					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*71*	*33-119*				
Client ID:	**EX-117-120**					
Laboratory ID:	10-113-05					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*62*	*30-111*				
DCB	*72*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-118-120**					
Laboratory ID:	10-113-06					
Endosulfan I	**ND**	6.7	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*72*	*33-119*				
Client ID:	**EX-119-120**					
Laboratory ID:	10-113-07					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*80*	*33-119*				
Client ID:	**EX-120-120**					
Laboratory ID:	10-113-08					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**EX-121-120**					
Laboratory ID:	10-113-09					
Endosulfan I	**ND**	6.4	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*60*	*30-111*				
DCB	*71*	*33-119*				
Client ID:	**DUP-13**					
Laboratory ID:	10-113-10					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*57*	*30-111*				
DCB	*68*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-122-120**					
Laboratory ID:	10-113-11					
Endosulfan I	**ND**	5.4	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	11	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-123-120**					
Laboratory ID:	10-113-12					
Endosulfan I	**ND**	6.4	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-124-121**					
Laboratory ID:	10-113-13					
Endosulfan I	**ND**	6.4	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*82*	*33-119*				
Client ID:	**DUP-14**					
Laboratory ID:	10-113-14					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-125-121**					
Laboratory ID:	10-113-15					
Endosulfan I	**ND**	5.8	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*78*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-126-121**					
Laboratory ID:	10-113-16					
Endosulfan I	**ND**	5.6	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	11	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	11	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-127-121**					
Laboratory ID:	10-113-17					
Endosulfan I	**ND**	6.3	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*75*	*33-119*				
Client ID:	**EX-128-120**					
Laboratory ID:	10-113-18					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*77*	*33-119*				
Client ID:	**EX-129-120**					
Laboratory ID:	10-113-19					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*79*	*33-119*				
Client ID:	**EX-110-120**					
Laboratory ID:	10-113-20					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*88*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-111-120**					
Laboratory ID:	10-113-21					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*87*	*33-119*				
Client ID:	**EX-112-120**					
Laboratory ID:	10-113-22					
Endosulfan I	**ND**	6.8	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	14	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*82*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A
METHOD BLANK QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	10	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*81*	*33-119*				
Laboratory ID:	MB1017S2					
Endosulfan I	**ND**	5.0	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	10	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*87*	*33-119*				

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Date of Report: October 20, 2011
Samples Submitted: October 14, 2011
Laboratory Reference: 1110-113
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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
Laboratory ID:	10-113-01										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**39.9**	**43.1**	50.0	50.0	ND	**80**	**86**	32-96	8	10	
Heptachlor	**38.0**	**41.9**	50.0	50.0	ND	**76**	**84**	29-101	10	13	
Aldrin	**38.5**	**42.6**	50.0	50.0	ND	**77**	**85**	27-99	10	10	
Dieldrin	**96.6**	**106**	125	125	ND	**77**	**85**	33-92	9	10	
Endrin	**98.7**	**108**	125	125	ND	**79**	**86**	29-101	9	11	
4,4'-DDT	**96.6**	**107**	125	125	ND	**77**	**86**	21-114	10	15	
Surrogate:											
TCMX						*68*	*69*	*30-111*			
DCB						*80*	*82*	*33-119*			
Laboratory ID:	10-113-22										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**42.4**	**41.8**	50.0	50.0	ND	**85**	**84**	32-96	1	10	
Heptachlor	**43.9**	**43.8**	50.0	50.0	ND	**88**	**88**	29-101	0	13	
Aldrin	**42.2**	**42.0**	50.0	50.0	ND	**84**	**84**	27-99	0	10	
Dieldrin	**103**	**103**	125	125	ND	**82**	**83**	33-92	0	10	
Endrin	**106**	**105**	125	125	ND	**84**	**84**	29-101	1	11	
4,4'-DDT	**107**	**107**	125	125	ND	**85**	**86**	21-114	0	15	
Surrogate:											
TCMX						*68*	*65*	*30-111*			
DCB						*81*	*79*	*33-119*			

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Laboratory Reference: 1110-113
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-17-11

Client ID	Lab ID	% Moisture
EX-113-120	10-113-01	12
EX-114-120	10-113-02	22
EX-115-120	10-113-03	18
EX-116-120	10-113-04	19
EX-117-120	10-113-05	18
EX-118-120	10-113-06	25
EX-119-120	10-113-07	19
EX-120-120	10-113-08	19
EX-121-120	10-113-09	21
DUP-13	10-113-10	19
EX-122-120	10-113-11	7
EX-123-120	10-113-12	22
EX-124-121	10-113-13	21
DUP-14	10-113-14	20
EX-125-121	10-113-15	14
EX-126-121	10-113-16	11
EX-127-121	10-113-17	21
EX-128-120	10-113-18	19
EX-129-120	10-113-19	19
EX-110-120	10-113-20	19
EX-111-120	10-113-21	19
EX-112-120	10-113-22	27

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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

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-113

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
1	EX-113-120	10/14/11	1015	Soil	1																X	X	X				
2	EX-114-120		1020																								
3	EX-115-120		1125																								
4	EX-116-120		1130																								
5	EX-117-120		1135																								
6	EX-118-120		1140																								
7	EX-119-120		1145																								
8	EX-120-120		1400																								
9	EX-121-120		1405																								
10	DUP-13		1406																								

	Signature	Company	Date	Time
Relinquished		GEI	10/14/11	1725
Received		OSE	10/14/11	1725
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-113

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
11	EX-122-120	10/14/11	1410	Soil	1																X	X	X				X
12	EX-123-120		1415																								
13	EX-124-121		1420																								
14	DUP-14		1421																								
15	EX-125-121		1425																								
16	EX-126-121		1430																								
17	EX-127-121		1435																								
18	EX-128-120		1440																								
19	EX-129-120		1445																								
20	EX-110-120	10/13/11	950																								

	Signature	Company	Date	Time
Relinquished		GEI	10/14/11	1725
Received		OSE	10/14/11	1725
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-113

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate				% Moisture
21	EX-111-120	10/13/11	1430	Soil	1																X	X	X				X
22	EX-112-120	↓	1010	↓	↓																X	X	X				↓

	Signature	Company	Date	Time
Relinquished		GEI	10/14/11	1725
Received		COE	10/14/11	1725
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 20, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-118

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 17, 2011.

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

Case Narrative

Samples were collected on October 17, 2011 and received by the laboratory on October 17, 2011. 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.

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-130-121	10-118-01	Soil	10-17-11	10-17-11	
EX-131-121	10-118-02	Soil	10-17-11	10-17-11	
EX-132-121	10-118-03	Soil	10-17-11	10-17-11	
EX-133-121	10-118-04	Soil	10-17-11	10-17-11	
EX-134-121	10-118-05	Soil	10-17-11	10-17-11	
EX-135-121	10-118-06	Soil	10-17-11	10-17-11	
EX-136-121	10-118-07	Soil	10-17-11	10-17-11	
DUP-15	10-118-08	Soil	10-17-11	10-17-11	

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-130-121**					
Laboratory ID:	10-118-01					
Endosulfan I	**ND**	6.4	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*76*	*33-119*				
Client ID:	**EX-131-121**					
Laboratory ID:	10-118-02					
Endosulfan I	**ND**	6.3	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	13	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*89*	*33-119*				
Client ID:	**EX-132-121**					
Laboratory ID:	10-118-03					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*81*	*33-119*				
Client ID:	**EX-133-121**					
Laboratory ID:	10-118-04					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-134-121**					
Laboratory ID:	10-118-05					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*92*	*33-119*				

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-135-121**					
Laboratory ID:	10-118-06					
Endosulfan I	**ND**	6.2	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*89*	*33-119*				
Client ID:	**EX-136-121**					
Laboratory ID:	10-118-07					
Endosulfan I	**ND**	6.0	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*82*	*33-119*				
Client ID:	**DUP-15**					
Laboratory ID:	10-118-08					
Endosulfan I	**ND**	6.1	EPA 8081	10-17-11	10-18-11	
Endosulfan II	**ND**	12	EPA 8081	10-17-11	10-18-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-17-11	10-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*87*	*33-119*				

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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:	MB1017S2					
Endosulfan I	**ND**	5.0	EPA 8081	10-17-11	10-17-11	
Endosulfan II	**ND**	10	EPA 8081	10-17-11	10-17-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-17-11	10-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*87*	*33-119*				

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) 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:	10-113-22										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**42.4**	**41.8**	50.0	50.0	ND	**85**	**84**	32-96	1	10	
Heptachlor	**43.9**	**43.8**	50.0	50.0	ND	**88**	**88**	29-101	0	13	
Aldrin	**42.2**	**42.0**	50.0	50.0	ND	**84**	**84**	27-99	0	10	
Dieldrin	**103**	**103**	125	125	ND	**82**	**83**	33-92	0	10	
Endrin	**106**	**105**	125	125	ND	**84**	**84**	29-101	1	11	
4,4'-DDT	**107**	**107**	125	125	ND	**85**	**86**	21-114	0	15	
Surrogate:											
TCMX						*68*	*65*	*30-111*			
DCB						*81*	*79*	*33-119*			

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: October 20, 2011
Samples Submitted: October 17, 2011
Laboratory Reference: 1110-118
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-17-11

Client ID	Lab ID	% Moisture
EX-130-121	10-118-01	21
EX-131-121	10-118-02	21
EX-132-121	10-118-03	20
EX-133-121	10-118-04	19
EX-134-121	10-118-05	19
EX-135-121	10-118-06	19
EX-136-121	10-118-07	16
DUP-15	10-118-08	18

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

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-118

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I.	Endosulfan II	Endosulfan Sulfate		% Moisture
1	EX-130-121	10/17/11	1230	Soil	1																	X	X	X		8
2	EX-131-121		1235																							
3	EX-132-121		1240																							
4	EX-133-121		1245																							
5	EX-134-121		1250																							
6	EX-135-121		1255																							
7	EX-136-121		1300																							
8	DUP-15		1256																							

	Signature	Company	Date	Time
Relinquished		GEI	10/17/11	1505
Received		OnSite Env.	10/17/11	1505
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 24, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-127

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 19, 2011.

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

Case Narrative

Samples were collected on October 18, 2011 and received by the laboratory on October 19, 2011. 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.

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-137-121	10-127-01	Soil	10-18-11	10-19-11	
EX-138-121	10-127-02	Soil	10-18-11	10-19-11	
EX-139-122	10-127-03	Soil	10-18-11	10-19-11	
EX-140-122	10-127-04	Soil	10-18-11	10-19-11	
EX-141-122	10-127-05	Soil	10-18-11	10-19-11	
EX-142-121	10-127-06	Soil	10-18-11	10-19-11	

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-137-121**					
Laboratory ID:	10-127-01					
Endosulfan I	**ND**	6.5	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	13	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**EX-138-121**					
Laboratory ID:	10-127-02					
Endosulfan I	**ND**	6.5	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	13	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*71*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**EX-139-122**					
Laboratory ID:	10-127-03					
Endosulfan I	**ND**	6.5	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	13	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*95*	*33-119*				
Client ID:	**EX-140-122**					
Laboratory ID:	10-127-04					
Endosulfan I	**ND**	6.4	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	13	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*85*	*33-119*				
Client ID:	**EX-141-122**					
Laboratory ID:	10-127-05					
Endosulfan I	**ND**	6.5	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	13	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*83*	*33-119*				

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-142-121**					
Laboratory ID:	10-127-06					
Endosulfan I	**ND**	6.0	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	12	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*94*	*33-119*				

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1019S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-19-11	10-20-11	
Endosulfan II	**ND**	10	EPA 8081	10-19-11	10-20-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-19-11	10-20-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*78*	*30-111*				
DCB	*101*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1019S1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**45.6**	**46.8**	50.0	50.0	N/A	**91**	**94**	51-103	3	6	
Heptachlor	**51.6**	**52.8**	50.0	50.0	N/A	**103**	**106**	51-108	2	7	
Aldrin	**46.8**	**48.4**	50.0	50.0	N/A	**94**	**97**	49-109	3	8	
Dieldrin	**117**	**119**	125	125	N/A	**94**	**95**	60-101	2	7	
Endrin	**126**	**127**	125	125	N/A	**100**	**102**	60-107	1	9	
4,4'-DDT	**99.8**	**102**	125	125	N/A	**80**	**82**	59-107	2	8	
Surrogate:											
TCMX						*74*	*73*	*30-111*			
DCB						*96*	*95*	*33-119*			

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: October 24, 2011
Samples Submitted: October 19, 2011
Laboratory Reference: 1110-127
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-19-11

Client ID	Lab ID	% Moisture
EX-137-121	10-127-01	23
EX-138-121	10-127-02	23
EX-139-122	10-127-03	22
EX-140-122	10-127-04	22
EX-141-122	10-127-05	23
EX-142-121	10-127-06	16

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: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 10-127

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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	X Endosulfan I	X Endosulfan II	X Endosulfan Sulfate				% Moisture
1	EX-137-121	10/18/11	840	Soil	1																X	X	X				
2	EX-138-121		845																								
3	EX-139-122		1420																								
4	EX-140-122		1425																								
5	EX-141-122		1430																								
6	EX-142-121		1435																								

	Signature	Company	Date	Time
Relinquished		GEI	10/18/11	1040
Received		GSE	10/19/11	1040
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 14, 2012

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-156

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 21, 2011.

Please note that this is a revised report due to a revision of the sample identification, per a request by Abhijit Joshi. This replaces the original dated October 26, 2011.

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-156
Project: 5364-013-04

Case Narrative

Samples were collected on October 21, 2011 and received by the laboratory on October 21, 2011. 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.

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-156
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A-2-116.5R	10-156-01	Soil	10-21-11	10-21-11	

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-156
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**A-2-116.5R**					
Laboratory ID:	10-156-01					
Endosulfan I	**ND**	6.0	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	12	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*92*	*33-119*				

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-156
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A
QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	10	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*96*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-157-01										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**42.1**	**38.9**	50.0	50.0	ND	**84**	**78**	32-96	8	10	
Heptachlor	**45.8**	**42.5**	50.0	50.0	ND	**92**	**85**	29-101	7	13	
Aldrin	**42.1**	**39.1**	50.0	50.0	ND	**84**	**78**	27-99	7	10	
Dieldrin	**105**	**97.7**	125	125	ND	**84**	**78**	33-92	7	10	
Endrin	**110**	**103**	125	125	ND	**88**	**82**	29-101	7	11	
4,4'-DDT	**88.0**	**81.7**	125	125	ND	**70**	**65**	21-114	7	15	
Surrogate:											
TCMX						*74*	*67*	*30-111*			
DCB						*95*	*86*	*33-119*			

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-156
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-24-11

Client ID	Lab ID	% Moisture
A-2-116.5R	10-156-01	17

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

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: TAXIWAY F SITE
Project Name: 5364-013-04
Project Manager: RST
Sampled by: AJ

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: 10-156

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate	% Moisture
1	~~A-2-4.5R~~ A-2-116.5R	10/21/11	1500	Soil	1																	X	X	X	X

	Signature	Company	Date	Time
Relinquished		GEI	10/21/11	1745
Received		OnSite Env	10/21/11	1745
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 26, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-157

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 21, 2011.

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-157
Project: 5364-013-04

Case Narrative

Samples were collected on October 21, 2011 and received by the laboratory on October 21, 2011. 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.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-157
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-143-121	10-157-01	Soil	10-21-11	10-21-11	
EX-144-121	10-157-02	Soil	10-21-11	10-21-11	
EX-145-121	10-157-03	Soil	10-21-11	10-21-11	

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-157
Project: 5364-013-04

ORGANOCHLORINE
PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-143-121**					
Laboratory ID:	10-157-01					
Endosulfan I	**ND**	6.1	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	12	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**EX-144-121**					
Laboratory ID:	10-157-02					
Endosulfan I	**ND**	6.3	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-145-121**					
Laboratory ID:	10-157-03					
Endosulfan I	**ND**	6.3	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*93*	*33-119*				

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-157
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1024S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-24-11	10-26-11	
Endosulfan II	**ND**	10	EPA 8081	10-24-11	10-26-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-24-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*96*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	10-157-01										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**42.1**	**38.9**	50.0	50.0	ND	**84**	**78**	32-96	8	10	
Heptachlor	**45.8**	**42.5**	50.0	50.0	ND	**92**	**85**	29-101	7	13	
Aldrin	**42.1**	**39.1**	50.0	50.0	ND	**84**	**78**	27-99	7	10	
Dieldrin	**105**	**97.7**	125	125	ND	**84**	**78**	33-92	7	10	
Endrin	**110**	**103**	125	125	ND	**88**	**82**	29-101	7	11	
4,4'-DDT	**88.0**	**81.7**	125	125	ND	**70**	**65**	21-114	7	15	
Surrogate:											
TCMX						*74*	*67*	*30-111*			
DCB						*95*	*86*	*33-119*			

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: October 26, 2011
Samples Submitted: October 21, 2011
Laboratory Reference: 1110-157
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-24-11

Client ID	Lab ID	% Moisture
EX-143-121	10-157-01	18
EX-144-121	10-157-02	21
EX-145-121	10-157-03	20

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

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: TAXIWAY F
Project Name: 5364-013-04
Project Manager: RST
Sampled by: AJ

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: 10-157

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.
1	EX-143-121	10/21/11	1420	Soil	1
2	EX-144-121	↓	1430	↓	↓
3	EX-145-121	↓	1435	↓	↓

Lab ID	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate	% Moisture
1																	X	X	X	X
2																	↓	↓	↓	↓
3																	↓	↓	↓	↓

	Signature	Company	Date	Time
Relinquished		GEI	10/21/11	1745
Received		GeoEngineers	10/21/11	1745
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 28, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1110-171

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on October 25, 2011.

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: October 28, 2011
Samples Submitted: October 25, 2011
Laboratory Reference: 1110-171
Project: 5364-013-04

Case Narrative

Samples were collected on October 25, 2011 and received by the laboratory on October 25, 2011. 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.

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: October 28, 2011
Samples Submitted: October 25, 2011
Laboratory Reference: 1110-171
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-146-120	10-171-01	Soil	10-25-11	10-25-11	
EX-147-120	10-171-02	Soil	10-25-11	10-25-11	
EX-148-120	10-171-03	Soil	10-25-11	10-25-11	
EX-149-120	10-171-04	Soil	10-25-11	10-25-11	
EX-150-120	10-171-05	Soil	10-25-11	10-25-11	

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: October 28, 2011
Samples Submitted: October 25, 2011
Laboratory Reference: 1110-171
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-146-120**					
Laboratory ID:	10-171-01					
Endosulfan I	**ND**	5.9	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	12	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*81*	*33-119*				
Client ID:	**EX-147-120**					
Laboratory ID:	10-171-02					
Endosulfan I	**ND**	6.3	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*65*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-148-120**					
Laboratory ID:	10-171-03					
Endosulfan I	**ND**	6.7	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*55*	*30-111*				
DCB	*68*	*33-119*				
Client ID:	**EX-149-120**					
Laboratory ID:	10-171-04					
Endosulfan I	**ND**	6.6	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*60*	*30-111*				
DCB	*78*	*33-119*				
Client ID:	**EX-150-120**					
Laboratory ID:	10-171-05					
Endosulfan I	**ND**	6.3	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	13	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*59*	*30-111*				
DCB	*73*	*33-119*				

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: October 28, 2011
Samples Submitted: October 25, 2011
Laboratory Reference: 1110-171
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1026S1					
Endosulfan I	**ND**	5.0	EPA 8081	10-26-11	10-26-11	
Endosulfan II	**ND**	10	EPA 8081	10-26-11	10-26-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	10-26-11	10-26-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*80*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1026S1										
	SB	SBD	SB	SBD		SB	SBD				
gamma-BHC	**41.1**	**39.5**	50.0	50.0	N/A	**82**	**79**	51-103	4	6	
Heptachlor	**45.4**	**43.7**	50.0	50.0	N/A	**91**	**87**	51-108	4	7	
Aldrin	**41.9**	**40.4**	50.0	50.0	N/A	**84**	**81**	49-109	4	8	
Dieldrin	**105**	**101**	125	125	N/A	**84**	**81**	60-101	4	7	
Endrin	**110**	**106**	125	125	N/A	**88**	**85**	60-107	4	9	
4,4'-DDT	**90.3**	**86.9**	125	125	N/A	**72**	**70**	59-107	4	8	
Surrogate:											
TCMX						*67*	*64*	*30-111*			
DCB						*86*	*84*	*33-119*			

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: October 28, 2011
Samples Submitted: October 25, 2011
Laboratory Reference: 1110-171
Project: 5364-013-04

% MOISTURE

Date Analyzed: 10-26-11

Client ID	Lab ID	% Moisture
EX-146-120	10-171-01	15
EX-147-120	10-171-02	21
EX-148-120	10-171-03	25
EX-149-120	10-171-04	24
EX-150-120	10-171-05	21

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

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 10-171

Company: GEI
Project Number: TAXIWAY F
Project Name: 5364-013-04
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☒ 3 Days
- ☐ Standard (7 Days) (TPH analysis 5 Days)
- ☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Enclosure Item I	Enclosure Item II	Enclosure Item III	% Moisture
1	EX-146-120	10/25/11	1030	Soil	1																	X	X	X	
2	EX-147-120		1130																						
3	EX-148-120		1135																						
4	EX-149-120		1230																						
5	EX-150-120		1315																						

	Signature	Company	Date	Time
Relinquished		GEI	10/25/11	1617
Received		GEI	10/25/11	1617
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 14, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1111-067

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on November 9, 2011.

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: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

Case Narrative

Samples were collected on November 9, 2011 and received by the laboratory on November 9, 2011. 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.

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: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EX-151-120	11-067-01	Soil	11-9-11	11-9-11	
EX-152-120	11-067-02	Soil	11-9-11	11-9-11	
EX-153-121	11-067-03	Soil	11-9-11	11-9-11	
EX-154-122	11-067-04	Soil	11-9-11	11-9-11	
EX-155-122	11-067-05	Soil	11-9-11	11-9-11	
EX-156-122	11-067-06	Soil	11-9-11	11-9-11	
EX-157-121	11-067-07	Soil	11-9-11	11-9-11	
EX-158-121	11-067-08	Soil	11-9-11	11-9-11	
EX-159-121	11-067-09	Soil	11-9-11	11-9-11	
EX-160-121	11-067-10	Soil	11-9-11	11-9-11	
EX-161-121	11-067-11	Soil	11-9-11	11-9-11	
DUP-16	11-067-12	Soil	11-9-11	11-9-11	
DUP-17	11-067-13	Soil	11-9-11	11-9-11	

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Date of Report: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-151-120**					
Laboratory ID:	11-067-01					
Endosulfan I	**ND**	6.1	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*99*	*33-119*				
Client ID:	**EX-152-120**					
Laboratory ID:	11-067-02					
Endosulfan I	**ND**	6.9	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	14	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-153-121**					
Laboratory ID:	11-067-03					
Endosulfan I	**ND**	6.2	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**EX-154-122**					
Laboratory ID:	11-067-04					
Endosulfan I	**ND**	6.5	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	13	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**EX-155-122**					
Laboratory ID:	11-067-05					
Endosulfan I	**ND**	6.8	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	14	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*90*	*33-119*				

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: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-156-122**					
Laboratory ID:	11-067-06					
Endosulfan I	**ND**	6.7	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	13	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*88*	*33-119*				
Client ID:	**EX-157-121**					
Laboratory ID:	11-067-07					
Endosulfan I	**ND**	6.3	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	13	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*66*	*30-111*				
DCB	*82*	*33-119*				
Client ID:	**EX-158-121**					
Laboratory ID:	11-067-08					
Endosulfan I	**ND**	6.2	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*83*	*33-119*				
Client ID:	**EX-159-121**					
Laboratory ID:	11-067-09					
Endosulfan I	**ND**	5.9	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*69*	*30-111*				
DCB	*85*	*33-119*				
Client ID:	**EX-160-121**					
Laboratory ID:	11-067-10					
Endosulfan I	**ND**	6.0	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*72*	*30-111*				
DCB	*90*	*33-119*				

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Date of Report: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EX-161-121**					
Laboratory ID:	11-067-11					
Endosulfan I	**ND**	6.1	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**DUP-16**					
Laboratory ID:	11-067-12					
Endosulfan I	**ND**	6.2	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	12	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*78*	*30-111*				
DCB	*99*	*33-119*				
Client ID:	**DUP-17**					
Laboratory ID:	11-067-13					
Endosulfan I	**ND**	6.5	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	13	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*75*	*30-111*				
DCB	*92*	*33-119*				

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: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES (ENDOSULFANS) by EPA 8081A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1110S1					
Endosulfan I	**ND**	5.0	EPA 8081	11-10-11	11-11-11	
Endosulfan II	**ND**	10	EPA 8081	11-10-11	11-11-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	11-10-11	11-11-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*84*	*30-111*				
DCB	*102*	*33-119*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	11-067-03										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**38.4**	**42.9**	50.0	50.0	ND	**77**	**86**	32-96	11	10	L
Heptachlor	**42.1**	**46.6**	50.0	50.0	ND	**84**	**93**	29-101	10	13	
Aldrin	**39.4**	**43.6**	50.0	50.0	ND	**79**	**87**	27-99	10	10	
Dieldrin	**96.7**	**107**	125	125	ND	**77**	**85**	33-92	10	10	
Endrin	**97.5**	**108**	125	125	ND	**78**	**86**	29-101	10	11	
4,4'-DDT	**97.1**	**108**	125	125	ND	**78**	**86**	21-114	11	15	
Surrogate:											
TCMX						*72*	*73*	*30-111*			
DCB						*89*	*92*	*33-119*			

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: November 14, 2011
Samples Submitted: November 9, 2011
Laboratory Reference: 1111-067
Project: 5364-013-04

% MOISTURE

Date Analyzed: 11-10-11

Client ID	Lab ID	% Moisture
EX-151-120	11-067-01	18
EX-152-120	11-067-02	27
EX-153-121	11-067-03	19
EX-154-122	11-067-04	23
EX-155-122	11-067-05	26
EX-156-122	11-067-06	25
EX-157-121	11-067-07	21
EX-158-121	11-067-08	20
EX-159-121	11-067-09	15
EX-160-121	11-067-10	17
EX-161-121	11-067-11	18
DUP-16	11-067-12	20
DUP-17	11-067-13	23

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.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 11-067

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Grab w/ Pan 1	Grab w/ Pan 11	Grab w/ Sulfate		% Moisture
1	EX-151-120	11/9/11	1125	S	1																	X	X	X		10
2	EX-152-120		1130																							
3	EX-153-121		1135																							
4	EX-154-122		1230																							
5	EX-155-122		1235																							
6	EX-156-122		1240																							
7	EX-157-121		1310																							
8	EX-158-121		1315																							
9	EX-159-121		1350																							
10	EX-160-121		1410																							

	Signature	Company	Date	Time
Relinquished		GEI	11/9/11	1710
Received		GEI	11/9/11	1710
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY 1=
Project Manager: RST
Sampled by: AJ

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: 11-067

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate		% Moisture
11	EX-161-121	11/9/11		S	1																	X	X	X		10
12	DUP-16	↓	1136	↓	↓																	↓	↓	↓		↓
13	DUP-17	↓	1236	↓	↓																	↓	↓	↓		↓

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	[signature]	GEI	11/9/11	1710	
Received	[signature]	GEI	11/9/11	1710	
Relinquished					
Received					
Relinquished					
Received					

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐ Electronic Data Deliverables (EDDs) ☐ _____

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 21, 2011

Robert Trahan
GeoEngineers, Inc.
600 Stewart, Suite 1700
Seattle, WA 98101-1233

Re: Analytical Data for Project 5364-013-04
Laboratory Reference No. 1111-090

Dear Robert:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2011.

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: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

Case Narrative

Samples were collected on November 11, 2011 and received by the laboratory on November 11, 2011. 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.

Chlorinated Acid Herbicides EPA 8151A Analysis

Sample SPO-7 had a low surrogate recovery of 28%, below the limits of 30-96%. The sample was re-extracted without improvement in the quality control values. Since all other quality control values were within quality control limits, 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.

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SPO-1	11-090-01	Soil	11-11-11	11-11-11	
SPO-2	11-090-02	Soil	11-11-11	11-11-11	
SPO-3	11-090-03	Soil	11-11-11	11-11-11	
SPO-4	11-090-04	Soil	11-11-11	11-11-11	
SPO-5	11-090-05	Soil	11-11-11	11-11-11	
SPO-6	11-090-06	Soil	11-11-11	11-11-11	
SPO-7	11-090-07	Soil	11-11-11	11-11-11	
SPO-8	11-090-08	Soil	11-11-11	11-11-11	
SPO-9	11-090-09	Soil	11-11-11	11-11-11	
SPO-10	11-090-10	Soil	11-11-11	11-11-11	
DUP-18	11-090-11	Soil	11-11-11	11-11-11	

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-1**					
Laboratory ID:	11-090-01					
Heptachlor	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	67	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*73*	*30-111*				
DCB	*92*	*33-119*				
Client ID:	**SPO-2**					
Laboratory ID:	11-090-02					
Heptachlor	**ND**	6.8	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.8	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.8	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	14	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.8	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	68	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*63*	*30-111*				
DCB	*83*	*33-119*				

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: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-3**					
Laboratory ID:	11-090-03					
Heptachlor	**ND**	6.5	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.5	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.5	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.5	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	65	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*62*	*30-111*				
DCB	*79*	*33-119*				
Client ID:	**SPO-4**					
Laboratory ID:	11-090-04					
Heptachlor	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	66	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*81*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-5**					
Laboratory ID:	11-090-05					
Heptachlor	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.7	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	67	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*74*	*30-111*				
DCB	*91*	*33-119*				
Client ID:	**SPO-6**					
Laboratory ID:	11-090-06					
Heptachlor	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	63	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*88*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-7**					
Laboratory ID:	11-090-07					
Heptachlor	**ND**	6.4	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.4	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.4	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.4	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	64	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*68*	*30-111*				
DCB	*87*	*33-119*				
Client ID:	**SPO-8**					
Laboratory ID:	11-090-08					
Heptachlor	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.3	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	63	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*67*	*30-111*				
DCB	*83*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-9**					
Laboratory ID:	11-090-09					
Heptachlor	**ND**	6.0	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.0	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.0	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	12	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	12	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	12	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.0	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	12	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	12	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	12	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	12	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	12	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	60	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*105*	*33-119*				
Client ID:	**SPO-10**					
Laboratory ID:	11-090-10					
Heptachlor	**ND**	6.9	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.9	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.9	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	14	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.9	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	14	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	14	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	14	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	69	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*77*	*30-111*				
DCB	*103*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

ORGANOCHLORINE PESTICIDES by EPA 8081A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-18**					
Laboratory ID:	11-090-11					
Heptachlor	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	6.6	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	13	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	13	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	13	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	66	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*64*	*30-111*				
DCB	*84*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-1**					
Laboratory ID:	11-090-01					
Pentachlorophenol	**ND**	1.3	EPA 8151	11-14-11	11-16-11	
Dinoseb	**ND**	13	EPA 8151	11-14-11	11-16-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*33*	*30-96*				
Client ID:	**SPO-2**					
Laboratory ID:	11-090-02					
Pentachlorophenol	**ND**	1.3	EPA 8151	11-14-11	11-16-11	
Dinoseb	**ND**	13	EPA 8151	11-14-11	11-16-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*30*	*30-96*				
Client ID:	**SPO-3**					
Laboratory ID:	11-090-03					
Pentachlorophenol	**ND**	1.2	EPA 8151	11-14-11	11-16-11	
Dinoseb	**ND**	12	EPA 8151	11-14-11	11-16-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*38*	*30-96*				
Client ID:	**SPO-4**					
Laboratory ID:	11-090-04					
Pentachlorophenol	**ND**	1.2	EPA 8151	11-14-11	11-17-11	
Dinoseb	**ND**	12	EPA 8151	11-14-11	11-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*31*	*30-96*				
Client ID:	**SPO-5**					
Laboratory ID:	11-090-05					
Pentachlorophenol	**ND**	1.3	EPA 8151	11-14-11	11-17-11	
Dinoseb	**ND**	13	EPA 8151	11-14-11	11-17-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*33*	*30-96*				
Client ID:	**SPO-6**					
Laboratory ID:	11-090-06					
Pentachlorophenol	**ND**	1.2	EPA 8151	11-14-11	11-18-11	
Dinoseb	**ND**	12	EPA 8151	11-14-11	11-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*51*	*30-96*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

CHLORINATED ACID HERBICIDES by EPA 8151A

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SPO-7**					
Laboratory ID:	11-090-07					
Pentachlorophenol	**ND**	1.2	EPA 8151	11-21-11	11-21-11	
Dinoseb	**ND**	12	EPA 8151	11-21-11	11-21-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*28*	*30-96*				Q
Client ID:	**SPO-8**					
Laboratory ID:	11-090-08					
Pentachlorophenol	**ND**	1.2	EPA 8151	11-14-11	11-18-11	
Dinoseb	**ND**	12	EPA 8151	11-14-11	11-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*46*	*30-96*				
Client ID:	**SPO-9**					
Laboratory ID:	11-090-09					
Pentachlorophenol	**ND**	1.1	EPA 8151	11-14-11	11-18-11	
Dinoseb	**ND**	11	EPA 8151	11-14-11	11-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*41*	*30-96*				
Client ID:	**SPO-10**					
Laboratory ID:	11-090-10					
Pentachlorophenol	**ND**	1.3	EPA 8151	11-21-11	11-21-11	
Dinoseb	**ND**	13	EPA 8151	11-21-11	11-21-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*32*	*30-96*				
Client ID:	**DUP-18**					
Laboratory ID:	11-090-11					
Pentachlorophenol	**ND**	1.3	EPA 8151	11-14-11	11-18-11	
Dinoseb	**ND**	13	EPA 8151	11-14-11	11-18-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*43*	*30-96*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

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:	MB1114S1					
Heptachlor	**ND**	5.0	EPA 8081	11-14-11	11-14-11	
Aldrin	**ND**	5.0	EPA 8081	11-14-11	11-14-11	
Heptachlor Epoxide	**ND**	5.0	EPA 8081	11-14-11	11-14-11	
gamma-Chlordane	**ND**	10	EPA 8081	11-14-11	11-14-11	
alpha-Chlordane	**ND**	10	EPA 8081	11-14-11	11-14-11	
4,4'-DDE	**ND**	10	EPA 8081	11-14-11	11-14-11	
Endosulfan I	**ND**	5.0	EPA 8081	11-14-11	11-14-11	
Dieldrin	**ND**	10	EPA 8081	11-14-11	11-14-11	
4,4'-DDD	**ND**	10	EPA 8081	11-14-11	11-14-11	
Endosulfan II	**ND**	10	EPA 8081	11-14-11	11-14-11	
4,4'-DDT	**ND**	10	EPA 8081	11-14-11	11-14-11	
Endosulfan Sulfate	**ND**	10	EPA 8081	11-14-11	11-14-11	
Toxaphene	**ND**	50	EPA 8081	11-14-11	11-14-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
TCMX	*81*	*30-111*				
DCB	*104*	*33-119*				

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

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:	11-090-05										
	MS	MSD	MS	MSD		MS	MSD				
gamma-BHC	**41.4**	**43.9**	50.0	50.0	ND	**83**	**88**	32-96	6	10	
Heptachlor	**40.9**	**45.0**	50.0	50.0	ND	**82**	**90**	29-101	10	13	
Aldrin	**43.2**	**45.0**	50.0	50.0	ND	**86**	**90**	27-99	4	10	
Dieldrin	**107**	**111**	125	125	ND	**86**	**89**	33-92	4	10	
Endrin	**106**	**112**	125	125	ND	**85**	**90**	29-101	6	11	
4,4'-DDT	**109**	**116**	125	125	ND	**87**	**93**	21-114	6	15	
Surrogate:											
TCMX						*76*	*75*	*30-111*			
DCB						*94*	*94*	*33-119*			

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

CHLORINATED ACID HERBICIDES by EPA 8151A QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114S1					
Pentachlorophenol	**ND**	0.95	EPA 8151	11-14-11	11-16-11	
Dinoseb	**ND**	9.5	EPA 8151	11-14-11	11-16-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*30*	*30-96*				
Laboratory ID:	MB1121S1					
Pentachlorophenol	**ND**	0.95	EPA 8151	11-21-11	11-21-11	
Dinoseb	**ND**	9.5	EPA 8151	11-21-11	11-21-11	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCAA	*41*	*30-96*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	11-090-02										
	MS	MSD	MS	MSD		MS	MSD				
Pentachlorophenol	**6.14**	**6.33**	10.0	10.0	ND	**61**	**63**	27-96	3	26	
Surrogate:											
DCAA						*63*	*59*	*30-96*			
Laboratory ID:	11-090-10										
	MS	MSD	MS	MSD		MS	MSD				
Pentachlorophenol	**7.02**	**6.51**	10.0	10.0	ND	**70**	**65**	27-96	8	26	
Surrogate:											
DCAA						*66*	*78*	*30-96*			

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Date of Report: November 21, 2011
Samples Submitted: November 11, 2011
Laboratory Reference: 1111-090
Project: 5364-013-04

% MOISTURE

Date Analyzed: 11-14-11

Client ID	Lab ID	% Moisture
SPO-1	11-090-01	26
SPO-2	11-090-02	26
SPO-3	11-090-03	24
SPO-4	11-090-04	24
SPO-5	11-090-05	25
SPO-6	11-090-06	21
SPO-7	11-090-07	22
SPO-8	11-090-08	21
SPO-9	11-090-09	16
SPO-10	11-090-10	27
DUP-18	11-090-11	24

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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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Pacific Agricultural Laboratory
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OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-1
Matrix: soil

PAL Sample ID: P111390-01
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 91 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-1
Matrix: soil

PAL Sample ID: P111390-01RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-2
Matrix: soil

PAL Sample ID: P111390-02
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 84 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Steve Thun, Laboratory Director

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Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-2
Matrix: soil

PAL Sample ID: P111390-02RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-3
Matrix: soil

PAL Sample ID: P111390-03
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 88 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-3
Matrix: soil

PAL Sample ID: P111390-03RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

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Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-4
Matrix: soil

PAL Sample ID: P111390-04
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 80 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-4
Matrix: soil

PAL Sample ID: P111390-04RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-5
Matrix: soil

PAL Sample ID: P111390-05
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 86 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

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Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-5
Matrix: soil

PAL Sample ID: P111390-05RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-6
Matrix: soil

PAL Sample ID: P111390-06
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 86 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	0.0080 mg/kg	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-6
Matrix: soil

PAL Sample ID: P111390-06RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

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Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-7
Matrix: soil

PAL Sample ID: P111390-07
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0066 mg/kg	
Surrogate Recovery: 89 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0066 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0066 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0066 mg/kg	

Client Sample ID: SPO-7
Matrix: soil

PAL Sample ID: P111390-07RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-8
Matrix: soil

PAL Sample ID: P111390-08
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 83 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

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Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-8
Matrix: soil

PAL Sample ID: P111390-08RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: SPO-9
Matrix: soil

PAL Sample ID: P111390-09
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 86 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-9
Matrix: soil

PAL Sample ID: P111390-09RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Steve Thun, Laboratory Director

Pacific Agricultural Laboratory
12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: SPO-10
Matrix: soil

PAL Sample ID: P111390-10
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 86 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

Client Sample ID: SPO-10
Matrix: soil

PAL Sample ID: P111390-10RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Client Sample ID: DUP-18
Matrix: soil

PAL Sample ID: P111390-11
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/16/11	11/17/11	Trifluralin	Not Detected	0.0067 mg/kg	
Surrogate Recovery: 85 %					
Surrogate Recovery Range: 54-139					
(DCBP used as Surrogate)					
Method: Modified EPA 8270D (GC-MS SIM)					
11/16/11	11/17/11	Atrazine	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Terbutryn	Not Detected	0.0067 mg/kg	
11/16/11	11/17/11	Vernolate	Not Detected	0.0067 mg/kg	

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14648 NE 95th Street
Redmond, WA 98052

Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Analytical Report

Client Sample ID: DUP-18
Matrix: soil

PAL Sample ID: P111390-11RE1
Sample Date: 11/11/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8081B (GC-ECD)					
11/18/11	11/18/11	Chlorothalonil	Not Detected	0.10 mg/kg	

Steve Thun, Laboratory Director

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OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P111390
Report Date: November 18, 2011
Client Project ID: 5364-013-04

Quality Assurance

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
11/16/11	11/17/11	1111605-BLK1	Atrazine	Not Detected	< 0.0067 mg/kg	
11/16/11	11/17/11	1111605-BLK1	Terbutryn	Not Detected	< 0.0067 mg/kg	
11/16/11	11/17/11	1111605-BLK1	Trifluralin	Not Detected	< 0.0067 mg/kg	
11/16/11	11/17/11	1111605-BLK1	Vernolate	Not Detected	< 0.0067 mg/kg	

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
11/18/11	11/18/11	1111802-BLK1	Chlorothalonil	Not Detected	< 0.10 mg/kg	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
11/16/11	11/17/11	1111605-MS1	Atrazine	94	60-121	
11/16/11	11/17/11	1111605-MSD1	Atrazine	92	60-121	
11/17/11	11/18/11	1111605-MS2	Terbutryn	88	40-120	
11/17/11	11/18/11	1111605-MSD2	Terbutryn	70	40-120	
11/16/11	11/17/11	1111605-MS1	Trifluralin	112	0-154	
11/16/11	11/17/11	1111605-MSD1	Trifluralin	130	0-154	
11/16/11	11/17/11	1111605-MS1	Vernolate	93	40-120	
11/16/11	11/17/11	1111605-MSD1	Vernolate	94	40-120	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
11/18/11	11/18/11	1111802-MS1	Chlorothalonil	133	40-120	R2
11/18/11	11/18/11	1111802-MSD1	Chlorothalonil	136	40-120	R2

Project Notes

Notes	Definition
R2	Spike recovery is outside of provisional control limits. Permanent control limits have not been established.

Steve Thun, Laboratory Director

111390

Page 1 of 2

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 11-090

Subcontract Laboratory: PACIFIC AG LAB

Contact Person: Steve Thun

Address:

Phone Number:

Date/Time:

Turnaround Request:

1 Day 2 Day 3 Day

Standard

Other: ASAP

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 5364-013-04

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
390-01	SPO-1	11/11/11	0920	S	1	Atrazine, chlorothalonil, Terbuthryn, trifluralin, Vernolate
-02	SPO-2		0935			
-03	SPO-3		0950			
-04	SPO-4		1005			
-05	SPO-5		1020			
-06	SPO-6		1035			
-07	SPO-7		1050			
-08	SPO-8		1105			
-09	SPO-9		1120			
-10	SPO-10		1135			

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSR	11/14/11	3:00pm	~~RUSH~~ EQuIS EDDs - with REPORT
Received by: Wesley Marquis	PAL	11/15/11	1030	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

111390

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 11-090

Subcontract Laboratory: PACIFIC AG. LAB

Contact Person: Steve Thun

Address:

Phone Number:

Date/Time:

Turnaround Request:

1 Day 2 Day 3 Day Standard

Other: ASAP

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 5364-613-04

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
390-11	DUP-18	11/11/11	1106	S	1	Atrazine, Chlorothalonil, Terbuthylazine, Trifluralin, Vermiculite

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:		OSE	11/14/11	3:00p	~~RUSH~~ EQUIS
Received by:	Lesley Marquez	PAL	11/15/11	1030	EDDs WITH REPORT
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 11-090

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☒ 3 Days
☐ Standard (7 Days) (TPH analysis 5 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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 + Limited List - See page 2	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A Limited List - See page 2	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Analysis on Page 2	% Moisture
1	SPO-1	11/11/11	0920	Soil	1										X		X								X	X
2	SPO-2		0935												X		X									
3	SPO-3		0950												X		X									
4	SPO-4		1005												X		X									
5	SPO-5		1020												X		X									
6	SPO-6		1035												X		X									
7	SPO-7		1050												X		X									
8	SPO-8		1105												X		X									
9	SPO-9		1120												X		X									
10	SPO-10		1135												X		X									

	Signature	Company	Date	Time
Relinquished		GEI	11/11/11	1530
Received		Onsite	11/11/11	1530
Relinquished				
Received				
Relinquished				
Received				

Comments/Special Instructions

Reviewed/Date

Reviewed/Date

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: GEI
Project Number: 5364-013-04
Project Name: TAXIWAY F
Project Manager: RST
Sampled by: AJ

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: 11-090

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	No. of Cont.	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 + Limited list	Organophosphorus Pesticides 8270D/SIM ~~Limited list~~	Chlorinated Acid Herbicides 8151A * Limited list	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Endrin, Endrin Aldehyde, Endosulfan I, Endosulfan II, Endosulfan Sulfate	Analyze as listed below	% Moisture
11	DUP-~~[illegible]~~18	11/11/11	1106	Soil	1										X		X						X	X

	Signature	Company	Date	Time
Relinquished	[signature]	GEI	11/11/11	1530
Received	[signature]	On Site	11-11-11	1550
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

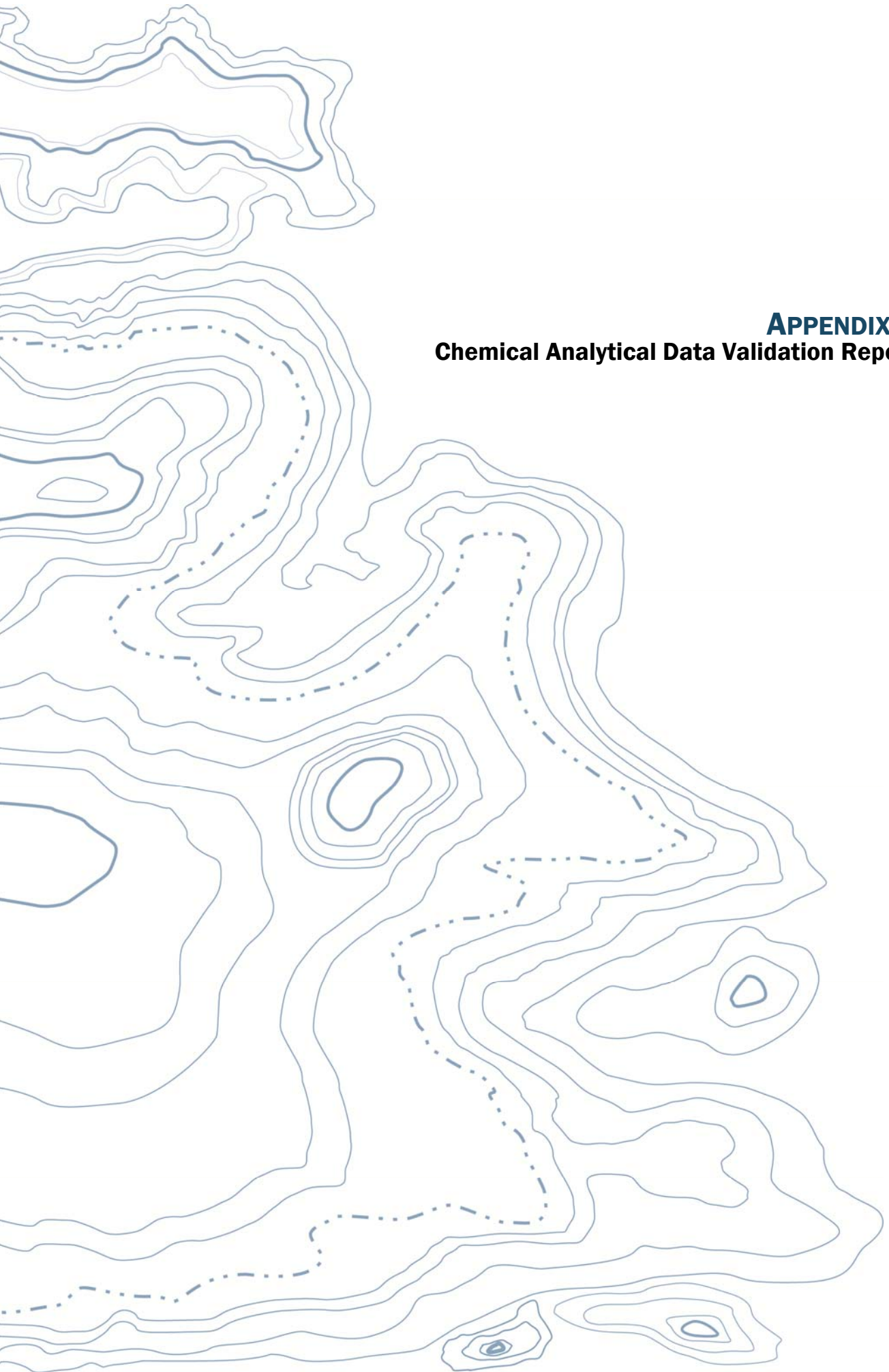
Comments/Special Instructions

(+ Aldrin, ~~BHC~~, 4,4-DDT, 4,4-DDE, 4,4-DDD, Alpha-Chlordane, Gamma-Chlordane, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Heptachlor, Heptachlor Epoxide, Toxaphene) atrazine chlorothalonil [* dinoseb, * pentachlorophenol] Terbutryn, Trifluralin, vernolate.

Chromatograms with final report ☐

Data Package: Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____



APPENDIX E
Chemical Analytical Data Validation Report

GeoEngineers

Plaza 600 Building, 600 Stewart Street, Suite 1700, Seattle, WA 98101, Telephone: 206.728.2674, Fax: 206.728.2732 www.geoengineers.com

Data Validation Report

Project:	Taxiway F Site – Soil Investigation
GEI File No:	5364-013-04
Date:	March 31, 2012

GENERAL

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2B validation (USEPA Document 540-R-08-005; USEPA, 2009) of chemical analytical data of soil samples obtained during the cleanup action at Taxiway F Site located in Burlington, Washington.

Objective and Quality Control (QC) Elements

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. In accordance with Quality Assurance Project Plan (QAPP; GeoEngineers, 2011), the laboratory data was reviewed for following QC elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates (MS/MSD) Analyses
- Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analyses
- Surrogate Spikes
- Field Duplicates
- Column Confirmation %D Values
- Sample Results

Chemical Analysis Performed:

Samples obtained during the cleanup action were submitted to a Department of Ecology (Ecology)-certified laboratory - OnSite Environmental, Inc. (OnSite) of Redmond, Washington for one or more of the following analyses:

- Selected Pesticides and Herbicides by EPA Methods 8081A, 8151A, 8081B or 8270D.
- Gasoline-Range Hydrocarbons by NWTPH-Gx
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) compounds by EPA Method 8021.
- Diesel- and Lube Oil-Range Hydrocarbons by NWTPH-Dx.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D/SIM.
- Total Lead by EPA Method 6010B.

OnSite Sample Data Groups (SDGs):

Following laboratory SDGs were delivered by OnSite and were reviewed by GeoEngineers for QC elements listed above:

- 1110-013
- 1110-019
- 1110-039
- 1110-061
- 1111-047
- 1110-062 (including "B" and "C" follow up)
- 1110-069
- 1110-096
- 1110-113
- 1110-118
- 1110-127
- 1110-156
- 1110-157
- 1110-171
- 1111-067
- 1111-090

DATA QUALITY ASSESSMENT SUMMARY

The data quality assessment 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, 2004) 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 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.

MS/MSD Analyses

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. The %R and RPD values for all target analytes in the MS/MSD analyses were within the laboratory control limits with the following exceptions:

- SDG 1110-062: (Metals) One matrix spike/matrix spike duplicate sample pair was performed on a sample from a different SDG. The %R value for lead in the matrix spike exceeded the control limit of 120%; however, the corresponding %R value for the matrix spike duplicate was within the control limits in the same sample set. No action was required in this situation.
- SDG 1111-067: (Herbicides) One matrix spike/matrix spike duplicate sample pair was performed on Sample EX-153-121. The RPD value of gamma-BHC exceeded the control limit of 10%; however, there was no positive result for this target analyte in the parent sample. No action was required in this situation.

LCS/LCSD Analyses

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.

Surrogate Spikes

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.

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.

Field duplicate results were within control limits, except where noted below.

- SDG 1110-039: Three field duplicate sample pairs were analyzed: EX-26-113/DUP-1, EX-31-112.5/ DUP-2, and EX-38-113/DUP-3. In the third sample pair (EX-38-113/DUP-3), the pesticide precision criteria were exceeded for endosulfan I and the endosulfan (total). For this reason, the positive results for this compound are qualified as estimated (J) in both samples.
- SDG 1110-047: Six field duplicate sample pairs were analyzed: EX-50-114.5/ DUP-4, EX-53-114.5/ DUP-5, EX-58-115.5/DUP-6, EX-61-116/DUP-7, EX-64-116/DUP-8, and EX-75-117/DUP-9. In the second sample pair (EX-53-114.5/DUP-5), the precision criterion was exceeded for endosulfan I, endosulfan sulfate, and the endosulfan (total). For this reason, the positive results for these compounds are qualified as estimated (J) in both samples.

Column Confirmation %D Values

The laboratory analyzed several samples for analysis by SW8081A. This method requires 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). All RPD values were less than 40% or not detected.

Overall Assessment

The results of this Stage 2B 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, and MS/MSD %R values. The precision of the data also is acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and field duplicate, with the following exception. Selected data (noted above) were qualified as estimated (J) because of field duplicate precision. However, based on the data quality review, it is our opinion that the analytical data, including data qualified as noted above, are of acceptable quality for their intended use.

References

GeoEngineers, Inc. (2011), "Final Draft Quality Assurance Project Plan (QAPP), Taxiway F Site, Port of Skagit County, Burlington, Washington," GEI File No. 5364-013-03, July 13, 2011

U.S. Environmental Protection Agency (USEPA). “Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,” OSWER 9240.1-45, EPA 540-R-04-004. October 2004.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

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

APPENDIX F
Landfill Certificates of Disposal

ALLIED WASTE SERVICES

Certificate of Disposal

March 26, 2012

Port of Skagit
12005 Farm to Market Road
Burlington, WA

Job # LW-11354 and LW-11355

This is to certify that 6612.02 tons of soil with Pesticides was shipped from jobsite 12005 Farm to Market Road, Burlington WA by the Port of Skagit and received by Regional Disposal Company. The waste was shipped by rail to Roosevelt Regional Landfill, 500 Roosevelt Grade Road, Roosevelt WA 98356 for final disposal. The above-described NON-DANGEROUS WASTE was managed in compliance with all Permits and Laws Regulating this Facility. The material was not used as daily cover, it was buried upon receipt at the landfill.

Final Disposition: **Subtitle D and WAC 173-351 MSW Landfill**

Leslie Whiteman
Signature

For Regional Disposal Company

54 S. Dawson Street
Seattle, WA 98134
206.332.7700 / FAX 206.764.1234
www.disposal.com

Activity By Job ID

Report period October 2011

Job ID: LW-11354 **14,755 Clearcreek Contractors Inc.**

Date	Ticket #	Rail Car/Train Address		Container	Material Code/Desc		Gross	Tare	Net	Tons	Origin/Facility	Dispatch Date
10/8/11 11:40 an	512,973	BNSF230068	6033	GCEU432020	66	Cont Soil	94,580	38,420	56,160	28.08	Everett Incl. Snohomish County	10/06/11
10/8/11 11:46 an	512,976	BNSF230068	303	GCEU426728	66	Cont Soil	97,320	40,900	56,420	28.21	Everett Incl. Snohomish County	10/06/11
10/8/11 11:53 an	512,983	BNSF230068	1564	TOLU424496	66	Cont Soil	97,600	43,560	54,040	27.02	Everett Incl. Snohomish County	10/06/11
10/8/11 11:59 an	512,989	BNSF230068	2364	TRLU902911	66	Cont Soil	95,500	39,740	55,760	27.88	Everett Incl. Snohomish County	10/06/11
10/8/11 12:03 pn	512,991	BNSF230068	8647	GCEU435291	66	Cont Soil	99,140	41,200	57,940	28.97	Everett Incl. Snohomish County	10/06/11
10/8/11 12:17 pn	512,999	BNSF230068	121	GCEU425103	66	Cont Soil	93,260	37,760	55,500	27.75	Everett Incl. Snohomish County	10/06/11
10/10/11 4:11 pn	513,286	BNSF203012	7328	GCEU435548	66	Cont Soil	102,300	45,960	56,340	28.17	Everett Incl. Snohomish County	10/07/11
10/10/11 4:13 pn	513,289	BNSF203012	9949	GCEU431027	66	Cont Soil	103,840	47,360	56,480	28.24	Everett Incl. Snohomish County	10/07/11
10/10/11 4:23 pn	513,294	BNSF230016	6811	TOLU456860	66	Cont Soil	108,960	46,660	62,300	31.15	Everett Incl. Snohomish County	10/07/11
10/10/11 4:26 pn	513,295	BNSF230016	1565	TOLU469316	66	Cont Soil	101,880	45,640	56,240	28.12	Everett Incl. Snohomish County	10/07/11
10/12/11 1:49 pn	513,694	BNSF230082	1565	TOLU472418	66	Cont Soil	114,840	45,540	69,300	34.65	Everett Incl. Snohomish County	10/10/11
10/12/11 1:49 pn	513,696	BNSF230082	7331	GCEU435582	66	Cont Soil	118,520	47,840	70,680	35.34	Everett Incl. Snohomish County	10/10/11
10/12/11 1:51 pn	513,697	BNSF230082	6811	GCEU420163	66	Cont Soil	117,040	45,560	71,480	35.74	Everett Incl. Snohomish County	10/10/11
10/12/11 1:53 pn	513,703	BNSF230082	9949	TOLU453437	66	Cont Soil	108,340	45,540	62,800	31.40	Everett Incl. Snohomish County	10/10/11
10/12/11 2:15 pn	513,716	BNSF230082	3450	GCEU426815	66	Cont Soil	102,160	41,620	60,540	30.27	Everett Incl. Snohomish County	10/10/11
10/14/11 12:05 p	514,312	BNSF230068	3449	TOLU466648	66	Cont Soil	89,480	40,080	49,400	24.70	Everett Incl. Snohomish County	10/11/11
10/14/11 12:06 p	514,316	BNSF230068	10	TRLU902653	66	Cont Soil	89,100	41,440	47,660	23.83	Everett Incl. Snohomish County	10/11/11
10/14/11 12:32 p	514,328	BNSF230068	12	TOLU466596	66	Cont Soil	106,180	40,780	65,400	32.70	Everett Incl. Snohomish County	10/11/11
10/14/11 2:02 pn	514,359	BNSF230068	123	TOLU457743	66	Cont Soil	93,960	36,940	57,020	28.51	Everett Incl. Snohomish County	10/11/11
10/14/11 2:57 pn	514,381	BNSF230098	12	TOLU458045	66	Cont Soil	100,740	42,700	58,040	29.02	Everett Incl. Snohomish County	10/08/11
10/14/11 2:53 pn	514,384	BNSF230068	121	UPCU411516	66	Cont Soil	95,440	38,620	56,820	28.41	Everett Incl. Snohomish County	10/11/11
10/14/11 2:59 pn	514,385	BNSF230082	2364	GCEU431179	66	Cont Soil	99,120	38,240	60,880	30.44	Everett Incl. Snohomish County	10/10/11
10/14/11 3:01 pn	514,386	BNSF230098	2783	TOLU468701	66	Cont Soil	99,360	39,780	59,580	29.79	Everett Incl. Snohomish County	10/08/11
10/14/11 3:02 pn	514,387	BNSF230098	1563	TRLU900382	66	Cont Soil	102,560	40,580	61,980	30.99	Everett Incl. Snohomish County	10/08/11
10/14/11 3:04 pn	514,388	BNSF230098	303	TOLU467248	66	Cont Soil	99,240	40,900	58,340	29.17	Everett Incl. Snohomish County	10/08/11
10/14/11 3:19 pn	514,392	BNSF231051	3449	GCEU440070	66	Cont Soil	94,200	39,900	54,300	27.15	Everett Incl. Snohomish County	10/08/11
10/14/11 3:23 pn	514,394	BNSF230098	2784	TOLU467744	66	Cont Soil	94,320	39,680	54,640	27.32	Everett Incl. Snohomish County	10/08/11

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10/14/11	3:22 pı	514,397	BNSF230098	123	GCEU426509	66	Cont Soil	93,840	38,900	54,940	27.47	Everett Incl. Snohomish County	10/08/11
10/14/11	3:41 pı	514,401	BNSF231051	1567	GCEU425090	66	Cont Soil	99,960	40,540	59,420	29.71	Everett Incl. Snohomish County	10/08/11
10/14/11	3:48 pı	514,402	BNSF231051	12	GCEU425621	66	Cont Soil	98,760	43,420	55,340	27.67	Everett Incl. Snohomish County	10/08/11
10/14/11	3:51 pı	514,405	BNSF231051	121	GCEU440046	66	Cont Soil	89,540	38,420	51,120	25.56	Everett Incl. Snohomish County	10/08/11
10/14/11	3:53 pı	514,407	BNSF231051	2364	TOLU452789	66	Cont Soil	97,660	40,360	57,300	28.65	Everett Incl. Snohomish County	10/08/11
10/14/11	3:54 pı	514,409	BNSF231051	1563	TPHU252576	66	Cont Soil	97,260	40,180	57,080	28.54	Everett Incl. Snohomish County	10/08/11
10/15/11	8:22 aı	514,440	BNSF203012	3450	TOLU466601	66	Cont Soil	106,300	50,560	55,740	27.87	Everett Incl. Snohomish County	10/12/11
10/15/11	8:27 aı	514,446	BNSF203012	7330	TOLU456419	66	Cont Soil	100,500	47,380	53,120	26.56	Everett Incl. Snohomish County	10/12/11
10/15/11	8:52 aı	514,463	BNSF231098	6180	TOLU468947	66	Cont Soil	117,740	46,920	70,820	35.41	Everett Incl. Snohomish County	10/11/11
10/15/11	8:51 aı	514,464	DTTX427026	7327	TRLU901527	66	Cont Soil	110,740	41,140	69,600	34.80	Skagit Intermodal / Burlington	10/10/11
10/15/11	11:09 a	514,514	BNSF230121	7330	TOLU456368	66	Cont Soil	109,740	47,140	62,600	31.30	Everett Incl. Snohomish County	10/12/11
10/15/11	11:20 a	514,517	BNSF230121	3450	TOLU456462	66	Cont Soil	107,480	47,880	59,600	29.80	Everett Incl. Snohomish County	10/12/11
10/15/11	12:27 p	514,531	BNSF231160	6181	ICSU464480	66	Cont Soil	101,180	46,180	55,000	27.50	Everett Incl. Snohomish County	10/12/11
10/15/11	1:40 pı	514,534	BNSF231160	3450	GCEU425341	66	Cont Soil	99,140	48,440	50,700	25.35	Everett Incl. Snohomish County	10/12/11
10/17/11	8:45 aı	514,692	BNSF230016	6180	TOLU456137	66	Cont Soil	103,840	46,980	56,860	28.43	Everett Incl. Snohomish County	10/12/11
10/17/11	8:48 aı	514,698	BNSF230016	7327	TOLU459498	66	Cont Soil	97,020	43,280	53,740	26.87	Everett Incl. Snohomish County	10/12/11
10/19/11	12:31 p	515,436	BNSF231130	9951	TOLU425576	66	Cont Soil	104,760	44,760	60,000	30.00	Everett Incl. Snohomish County	10/10/11
10/19/11	12:32 p	515,439	BNSF231130	3450	GCEU425060	66	Cont Soil	105,500	45,860	59,640	29.82	Everett Incl. Snohomish County	10/10/11
10/19/11	1:35 pı	515,454	BNSF231130	7330	GCEU425046	66	Cont Soil	107,200	45,260	61,940	30.97	Everett Incl. Snohomish County	10/10/11
10/19/11	1:36 pı	515,459	BNSF231130	6181	TOLU458292	66	Cont Soil	115,760	45,980	69,780	34.89	Everett Incl. Snohomish County	10/10/11
10/19/11	1:59 pı	515,469	BNSF231130	7331	GCEU425293	66	Cont Soil	118,840	45,820	73,020	36.51	Everett Incl. Snohomish County	10/10/11
10/20/11	8:12 aı	515,592	BNSF231029	6811	TOLU452741	66	Cont Soil	104,020	45,920	58,100	29.05	Everett Incl. Snohomish County	10/17/11
10/20/11	8:10 aı	515,598	BNSF231029	1565	TOLU452043	66	Cont Soil	110,800	45,480	65,320	32.66	Everett Incl. Snohomish County	10/17/11
10/20/11	8:10 aı	515,599	BNSF231029	8648	TOLU466932	66	Cont Soil	93,480	43,340	50,140	25.07	Everett Incl. Snohomish County	10/17/11
10/20/11	8:10 aı	515,602	BNSF231029	9951	TOLU469912	66	Cont Soil	96,440	45,860	50,580	25.29	Everett Incl. Snohomish County	10/17/11
10/20/11	9:13 aı	515,632	BNSF231005	6181	GCEU425648	66	Cont Soil	115,600	47,820	67,780	33.89	Everett Incl. Snohomish County	10/18/11
10/20/11	9:18 aı	515,637	BNSF203012	1565	EGTU420206	66	Cont Soil	96,120	46,220	49,900	24.95	Everett Incl. Snohomish County	10/18/11
10/20/11	3:04 pı	515,819	BNSF231029	7327	GCEU426141	66	Cont Soil	95,360	44,440	50,920	25.46	Everett Incl. Snohomish County	10/17/11

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10/20/11	2:59 pı	515,820	BNSF231029	2363	TOLU460437	66	Cont Soil	93,600	38,900	54,700	27.35	Everett Incl. Snohomish County	10/17/11
10/21/11	1:58 pı	516,134	BNSF203006	7328	GCEU435399	66	Cont Soil	96,220	46,200	50,020	25.01	Everett Incl. Snohomish County	10/17/11
10/21/11	2:00 pı	516,138	BNSF203006	6182	TOLU422644	66	Cont Soil	101,600	42,260	59,340	29.67	Everett Incl. Snohomish County	10/17/11
10/21/11	3:35 pı	516,202	BNSF230068	8647	TOLU466638	66	Cont Soil	86,360	39,000	47,360	23.68	Everett Incl. Snohomish County	10/15/11
10/21/11	3:39 pı	516,203	BNSF230068	3450	GCEU435548	66	Cont Soil	95,920	41,520	54,400	27.20	Everett Incl. Snohomish County	10/15/11
10/21/11	3:47 pı	516,204	BNSF230068	9949	GCEU435209	66	Cont Soil	104,860	45,140	59,720	29.86	Everett Incl. Snohomish County	10/15/11
10/21/11	3:42 pı	516,205	BNSF230068	2783	TOLU469316	66	Cont Soil	97,760	38,520	59,240	29.62	Everett Incl. Snohomish County	10/15/11
10/21/11	3:50 pı	516,207	BNSF230068	7328	TOLU468710	66	Cont Soil	112,940	45,640	67,300	33.65	Everett Incl. Snohomish County	10/15/11
10/21/11	3:53 pı	516,210	BNSF230002	2785	TOLU457079	66	Cont Soil	94,340	39,620	54,720	27.36	Everett Incl. Snohomish County	10/17/11
10/21/11	3:52 pı	516,214	BNSF230002	6181	EGTU420553	66	Cont Soil	102,660	45,740	56,920	28.46	Everett Incl. Snohomish County	10/17/11
10/21/11	3:57 pı	516,220	BNSF230002	6182	TOLU467872	66	Cont Soil	98,360	39,300	59,060	29.53	Everett Incl. Snohomish County	10/17/11
10/21/11	3:48 pı	516,225	BNSF230068	7327	EGTU420664	66	Cont Soil	110,700	49,400	61,300	30.65	Everett Incl. Snohomish County	10/15/11
10/25/11	10:20 a	516,985	BNSF231156	1566	TOLU457860	66	Cont Soil	96,660	38,840	57,820	28.91	Everett Incl. Snohomish County	10/22/11
10/25/11	10:30 a	516,995	BNSF231156	8647	TRLU900441	66	Cont Soil	105,080	39,800	65,280	32.64	Everett Incl. Snohomish County	10/22/11
10/25/11	11:01 a	517,008	BNSF231156	6812	TRLU900472	66	Cont Soil	97,320	39,780	57,540	28.77	Everett Incl. Snohomish County	10/22/11
10/25/11	12:16 p	517,070	BNSF230115	7330	UPCU411451	66	Cont Soil	97,540	46,440	51,100	25.55	Everett Incl. Snohomish County	10/22/11
10/25/11	12:33 p	517,078	BNSF230115	6181	TPHU252136	66	Cont Soil	110,280	46,320	63,960	31.98	Everett Incl. Snohomish County	10/22/11
10/25/11	12:34 p	517,080	BNSF230115	9951	TRLU901658	66	Cont Soil	100,220	46,440	53,780	26.89	Everett Incl. Snohomish County	10/22/11
10/31/11	10:16 a	902,496	LINERS	75JL		LI	Liners	73	0	73	0.04	Seattle 20 - 48 Ft	
11/1/11	11:46 an	518,913	BNSF231078	7327	GCEU425410	66	Cont Soil	92,920	41,140	51,780	25.89	Everett Incl. Snohomish County	10/29/11
11/1/11	11:56 an	518,917	BNSF231078	7330	TOLU457661	66	Cont Soil	103,520	46,160	57,360	28.68	Everett Incl. Snohomish County	10/29/11
11/1/11	11:57 an	518,918	BNSF231078	6811	TOLU422610	66	Cont Soil	98,540	46,540	52,000	26.00	Everett Incl. Snohomish County	10/29/11
11/2/11	9:31 am	519,140	BNSF230048	7330	TOLU458292	66	Cont Soil	105,160	47,040	58,120	29.06	Everett Incl. Snohomish County	10/29/11
11/2/11	9:45 am	519,143	BNSF230048	7328	GCEU425154	66	Cont Soil	101,620	45,820	55,800	27.90	Everett Incl. Snohomish County	10/29/11
11/2/11	9:27 am	519,145	BNSF231083	9949	EGTU420002	66	Cont Soil	100,180	46,200	53,980	26.99	Everett Incl. Snohomish County	10/29/11
11/2/11	10:09 an	519,155	BNSF230048	6181	GCEU425060	66	Cont Soil	117,040	45,200	71,840	35.92	Everett Incl. Snohomish County	10/29/11
11/2/11	10:12 an	519,159	BNSF230048	3450	TOLU425576	66	Cont Soil	114,500	45,160	69,340	34.67	Everett Incl. Snohomish County	10/29/11
11/2/11	10:19 an	519,162	BNSF230048	6180	GCEU426548	66	Cont Soil	113,460	47,780	65,680	32.84	Everett Incl. Snohomish County	10/29/11

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11/2/11 10:23 an	519,165	BNSF230048	6811	GCEU425109	66	Cont Soil	108,860	47,140	61,720	30.86	Everett Incl. Snohomish County	10/29/11
11/3/11 9:29 am	519,462	BNSF230125	9949	UPCU411408	66	Cont Soil	102,200	45,800	56,400	28.20	Everett Incl. Snohomish County	10/29/11
11/30/11 12:33 p	902,532	LINER	RAB		LI	Liners	22	0	22	0.01	Seattle 20 - 48 Ft	
Total For Job			LW-11354				86 Loads			2456.91 TN		
Grand Total							86 Loads			2456.91 TN		

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Job ID: LW-11355 14,755 **Clearcreek Contractors Inc.**

Date	Ticket #	Rail Car/Train	Address	Container	Material Code/Desc	Gross	Tare	Net	Tons	Origin/Facility	Dispatch Date
10/8/11 8:24 am	512,844	BNSF230099	303	GCEU425180	66 Cont Soil	96,660	40,620	56,040	28.02	Skagit Intermodal / Burlington	10/05/11
10/8/11 8:44 am	512,853	BNSF230099	8647	TOLU456879	66 Cont Soil	100,560	40,120	60,440	30.22	Skagit Intermodal / Burlington	10/05/11
10/8/11 8:49 am	512,856	BNSF230099	121	GCEU440133	66 Cont Soil	97,880	40,180	57,700	28.85	Skagit Intermodal / Burlington	10/05/11
10/8/11 8:52 am	512,861	DTTX27081	6033	GCEU420249	66 Cont Soil	92,400	39,520	52,880	26.44	Skagit Intermodal / Burlington	10/05/11
10/8/11 8:53 am	512,872	DTTX27081	1567	GCEU431710	66 Cont Soil	92,600	39,920	52,680	26.34	Skagit Intermodal / Burlington	10/05/11
10/8/11 8:58 am	512,874	DTTX27081	1564	GCEU426819	66 Cont Soil	90,560	41,680	48,880	24.44	Skagit Intermodal / Burlington	10/05/11
10/8/11 9:12 am	512,879	DTTX27081	303	TPHU252352	66 Cont Soil	93,140	39,620	53,520	26.76	Skagit Intermodal / Burlington	10/05/11
10/8/11 9:16 am	512,883	DTTX432093	2364	TOLU457498	66 Cont Soil	95,460	38,940	56,520	28.26	Skagit Intermodal / Burlington	10/05/11
10/8/11 9:30 am	512,886	DTTX432093	8647	GCEU432123	66 Cont Soil	90,460	40,360	50,100	25.05	Skagit Intermodal / Burlington	10/05/11
10/10/11 3:14 pm	513,259	BNSF231068	6181	TOLU457714	66 Cont Soil	105,660	49,300	56,360	28.18	Skagit Intermodal / Burlington	10/06/11
10/10/11 3:20 pm	513,260	BNSF231188	7328	GCEU431575	66 Cont Soil	103,740	48,160	55,580	27.79	Skagit Intermodal / Burlington	10/06/11
10/10/11 3:17 pm	513,261	BNSF231068	9949	GCEU435248	66 Cont Soil	101,820	47,240	54,580	27.29	Skagit Intermodal / Burlington	10/06/11
10/10/11 3:22 pm	513,262	BNSF231188	9951	TOLU458697	66 Cont Soil	103,660	47,480	56,180	28.09	Skagit Intermodal / Burlington	10/06/11
10/10/11 3:29 pm	513,265	DTTX54296	6811	TOLU452520	66 Cont Soil	80,580	45,340	35,240	17.62	Skagit Intermodal / Burlington	10/06/11
10/10/11 4:07 pm	513,285	DTTX54296	6181	TRLU901658	66 Cont Soil	102,340	46,100	56,240	28.12	Skagit Intermodal / Burlington	10/06/11
10/12/11 9:35 am	513,584	BNSF231043	9949	TOLU461796	66 Cont Soil	105,700	46,100	59,600	29.80	Skagit Intermodal / Burlington	10/06/11
10/12/11 9:40 am	513,593	BNSF231043	6811	GCEU440063	66 Cont Soil	102,660	47,180	55,480	27.74	Skagit Intermodal / Burlington	10/06/11
10/15/11 8:39 am	514,448	DTTX27581	7328	GCEU430732	66 Cont Soil	103,020	48,080	54,940	27.47	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:35 am	514,453	DTTX56680	9949	GCEU431837	66 Cont Soil	108,040	46,920	61,120	30.56	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:33 am	514,454	DTTX56680	7331	TOLU469190	66 Cont Soil	102,380	45,860	56,520	28.26	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:37 am	514,455	DTTX27581	6181	GCEU431889	66 Cont Soil	106,380	46,840	59,540	29.77	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:42 am	514,458	DTTX427026	1565	GCEU425056	66 Cont Soil	114,020	47,140	66,880	33.44	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:43 am	514,461	DTTX427026	8648	GCEU420191	66 Cont Soil	97,860	43,200	54,660	27.33	Skagit Intermodal / Burlington	10/10/11
10/15/11 8:49 am	514,469	DTTX427026	6182	TOLU459289	66 Cont Soil	104,660	43,860	60,800	30.40	Skagit Intermodal / Burlington	10/10/11
10/15/11 1:50 pm	514,540	DTTX27081	7328	GCEU426213	66 Cont Soil	118,060	46,600	71,460	35.73	Skagit Intermodal / Burlington	10/11/11
10/15/11 1:47 pm	514,544	DTTX27731	7331	TRLU900179	66 Cont Soil	116,480	46,560	69,920	34.96	Skagit Intermodal / Burlington	10/11/11
10/15/11 1:51 pm	514,545	DTTX27081	6811	GCEU425935	66 Cont Soil	113,380	46,180	67,200	33.60	Skagit Intermodal / Burlington	10/11/11

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10/15/11	1:52 pm	514,547	BNSF230099	6180	TOLU458606	66	Cont Soil	107,780	46,100	61,680	30.84	Skagit Intermodal / Burlington	10/11/11
10/15/11	1:47 pm	514,549	DTTX27731	8648	TOLU456617	66	Cont Soil	122,220	43,760	78,460	39.23	Skagit Intermodal / Burlington	10/11/11
10/15/11	2:01 pm	514,558	BNSF230099	7327	TOLU457858	66	Cont Soil	115,160	44,060	71,100	35.55	Skagit Intermodal / Burlington	10/11/11
10/17/11	8:39 am	514,687	BNSF230126	9951	TOLU453771	66	Cont Soil	118,720	46,700	72,020	36.01	Skagit Intermodal / Burlington	10/12/11
10/17/11	8:43 am	514,689	BNSF230126	7330	TOLU456844	66	Cont Soil	119,520	46,580	72,940	36.47	Skagit Intermodal / Burlington	10/12/11
10/18/11	8:26 am	514,989	BNSF231188	303	TPHU252450	66	Cont Soil	101,860	42,060	59,800	29.90	Skagit Intermodal / Burlington	10/13/11
10/18/11	8:32 am	514,992	BNSF231188	2785	TOLU468551	66	Cont Soil	98,660	38,700	59,960	29.98	Skagit Intermodal / Burlington	10/13/11
10/18/11	8:50 am	514,998	DTTX27539	1563	RBDU201057	66	Cont Soil	92,860	40,820	52,040	26.02	Skagit Intermodal / Burlington	10/13/11
10/18/11	8:53 am	515,003	DTTX27539	1564	GCEU435248	66	Cont Soil	100,160	41,220	58,940	29.47	Skagit Intermodal / Burlington	10/13/11
10/18/11	8:55 am	515,005	DTTX54296	8647	GCEU431430	66	Cont Soil	106,880	39,820	67,060	33.53	Skagit Intermodal / Burlington	10/13/11
10/18/11	9:13 am	515,011	DTTX54296	303	TOLU458697	66	Cont Soil	107,160	41,040	66,120	33.06	Skagit Intermodal / Burlington	10/13/11
10/19/11	1:37 pm	515,460	BNSF231130	1565	GCEU425154	66	Cont Soil	112,760	46,460	66,300	33.15	Everett Incl. Snohomish County	10/10/11
10/21/11	8:28 am	515,956	DTTX27081	9949	GCEU425731	66	Cont Soil	107,440	48,780	58,660	29.33	Skagit Intermodal / Burlington	10/18/11
10/21/11	8:31 am	515,959	DTTX27081	6181	TOLU456589	66	Cont Soil	108,700	45,040	63,660	31.83	Skagit Intermodal / Burlington	10/18/11
10/22/11	8:45 am	516,307	DTTX56680	3450	GCEU425860	66	Cont Soil	112,400	47,780	64,620	32.31	Skagit Intermodal / Burlington	10/19/11
10/22/11	8:41 am	516,310	DTTX56680	9949	TPHU252282	66	Cont Soil	116,500	47,600	68,900	34.45	Skagit Intermodal / Burlington	10/19/11
10/22/11	9:03 am	516,316	BNSF231100	9951	GCEU425978	66	Cont Soil	107,040	45,840	61,200	30.60	Skagit Intermodal / Burlington	10/19/11
10/22/11	9:23 am	516,321	BNSF231100	1565	TOLU453190	66	Cont Soil	109,300	46,620	62,680	31.34	Skagit Intermodal / Burlington	10/19/11
10/22/11	9:42 am	516,335	DTTX427026	7331	GCEU445033	66	Cont Soil	102,020	46,940	55,080	27.54	Skagit Intermodal / Burlington	10/19/11
10/22/11	9:43 am	516,338	DTTX427026	3450	TOLU458928	66	Cont Soil	101,820	46,620	55,200	27.60	Skagit Intermodal / Burlington	10/19/11
10/24/11	9:17 am	516,612	BNSF231121	3450	GCEU426670	66	Cont Soil	110,600	46,380	64,220	32.11	Skagit Intermodal / Burlington	10/20/11
10/24/11	9:25 am	516,614	BNSF231121	6181	TOLU456661	66	Cont Soil	119,320	47,280	72,040	36.02	Skagit Intermodal / Burlington	10/20/11
10/24/11	9:28 am	516,616	BNSF230126	9949	TOLU456879	66	Cont Soil	109,420	45,480	63,940	31.97	Skagit Intermodal / Burlington	10/20/11
10/24/11	9:42 am	516,620	BNSF230126	7328	TOLU466762	66	Cont Soil	106,920	47,860	59,060	29.53	Skagit Intermodal / Burlington	10/20/11
10/26/11	12:08 pm	517,384	DTTX27731	3450	TOLU467941	66	Cont Soil	105,120	47,420	57,700	28.85	Skagit Intermodal / Burlington	10/21/11
10/26/11	12:10 pm	517,386	DTTX27731	6180	TOLU457766	66	Cont Soil	112,980	45,620	67,360	33.68	Skagit Intermodal / Burlington	10/21/11
10/26/11	12:09 pm	517,389	DTTX27731	8648	TOLU422388	66	Cont Soil	100,680	44,240	56,440	28.22	Skagit Intermodal / Burlington	10/21/11
10/26/11	12:13 pm	517,390	DTTX27731	6182	TRLU900179	66	Cont Soil	94,380	43,280	51,100	25.55	Skagit Intermodal / Burlington	10/21/11

Activity By Job ID

Report period October 2011

10/26/11	12:18 p	517,392	DTTX27539	9951	GCEU435248	66	Cont Soil	103,700	47,220	56,480	28.24	Skagit Intermodal / Burlington	10/21/11
10/26/11	2:00 pi	517,400	DTTX54296	0353	GCEU426879	66	Cont Soil	116,180	43,880	72,300	36.15	Skagit Intermodal / Burlington	10/21/11
10/26/11	1:59 pi	517,401	DTTX27539	7328	TRLU900517	66	Cont Soil	104,800	46,260	58,540	29.27	Skagit Intermodal / Burlington	10/21/11
10/26/11	1:59 pi	517,403	DTTX27539	8647	GCEU431430	66	Cont Soil	102,020	40,120	61,900	30.95	Skagit Intermodal / Burlington	10/21/11
10/26/11	1:56 pi	517,405	DTTX27539	7331	GCEU431482	66	Cont Soil	100,220	49,060	51,160	25.58	Skagit Intermodal / Burlington	10/21/11
10/26/11	2:58 pi	517,430	DTTX54296	7327	TOLU442464	66	Cont Soil	116,700	43,000	73,700	36.85	Skagit Intermodal / Burlington	10/21/11
10/27/11	8:42 ai	517,567	DTTX27081	7330	TOLU459386	66	Cont Soil	91,260	48,020	43,240	21.62	Skagit Intermodal / Burlington	10/24/11
10/27/11	8:40 ai	517,571	DTTX27081	8648	TRLU902653	66	Cont Soil	100,200	45,180	55,020	27.51	Skagit Intermodal / Burlington	10/24/11
10/27/11	8:54 ai	517,577	DTTX27081	7328	TOLU458697	66	Cont Soil	106,760	47,900	58,860	29.43	Skagit Intermodal / Burlington	10/24/11
10/27/11	8:54 ai	517,579	DTTX27081	6182	TPHU252450	66	Cont Soil	102,480	44,840	57,640	28.82	Skagit Intermodal / Burlington	10/24/11
10/28/11	11:36 a	518,000	BNSF230099	6811	TOLU466526	66	Cont Soil	114,600	47,120	67,480	33.74	Skagit Intermodal / Burlington	10/25/11
10/28/11	11:38 a	518,012	BNSF230099	1565	TOLU457858	66	Cont Soil	113,180	48,120	65,060	32.53	Skagit Intermodal / Burlington	10/25/11
10/28/11	11:41 a	518,014	DTTX655855	7328	GCEU440180	66	Cont Soil	103,840	48,840	55,000	27.50	Skagit Intermodal / Burlington	10/25/11
10/28/11	12:06 p	518,020	DTTX655855	9951	GCEU435366	66	Cont Soil	102,340	45,460	56,880	28.44	Skagit Intermodal / Burlington	10/25/11
10/28/11	12:22 p	518,032	BNSF231068	6181	TOLU456589	66	Cont Soil	106,680	45,060	61,620	30.81	Skagit Intermodal / Burlington	10/25/11
10/28/11	12:28 p	518,040	BNSF231068	3450	GCEU425731	66	Cont Soil	103,020	49,320	53,700	26.85	Skagit Intermodal / Burlington	10/25/11
10/29/11	12:27 p	518,326	DTTX56680	1565	TOLU458591	66	Cont Soil	102,400	45,080	57,320	28.66	Skagit Intermodal / Burlington	10/26/11
10/29/11	12:33 p	518,331	BNSF231100	9951	TOLU460811	66	Cont Soil	116,940	45,500	71,440	35.72	Skagit Intermodal / Burlington	10/26/11
10/29/11	12:31 p	518,333	DTTX56680	7331	GCEU431468	66	Cont Soil	114,780	48,420	66,360	33.18	Skagit Intermodal / Burlington	10/26/11
10/29/11	12:34 p	518,335	BNSF231100	8648	TOLU467491	66	Cont Soil	113,180	44,440	68,740	34.37	Skagit Intermodal / Burlington	10/26/11
10/29/11	5:16 pi	518,459	BNSF231100	3450	GCEU425341	66	Cont Soil	103,760	47,580	56,180	28.09	Skagit Intermodal / Burlington	10/26/11
10/31/11	12:12 p	518,607	BNSF231100	6811	TOLU468551	66	Cont Soil	100,060	45,280	54,780	27.39	Skagit Intermodal / Burlington	10/26/11
10/31/11	3:58 pi	518,703	BNSF230126	7329	ICSU464480	66	Cont Soil	100,920	41,760	59,160	29.58	Skagit Intermodal / Burlington	10/27/11
10/31/11	3:56 pi	518,706	BNSF230126	6811	GCEU445165	66	Cont Soil	115,260	46,620	68,640	34.32	Skagit Intermodal / Burlington	10/27/11
10/31/11	4:03 pi	518,708	BNSF230126	9951	TOLU458915	66	Cont Soil	104,440	45,320	59,120	29.56	Skagit Intermodal / Burlington	10/27/11
10/31/11	4:02 pi	518,710	BNSF230126	1565	GCEU432088	66	Cont Soil	116,620	47,060	69,560	34.78	Skagit Intermodal / Burlington	10/27/11
10/31/11	10:18 a	902,497	LINERS	75JL		LI	Liners	81	0	81	0.04	Seattle 20 - 48 Ft	
11/1/11	12:07 pn	518,924	DTTX427139	6181	TOLU422268	66	Cont Soil	104,080	46,760	57,320	28.66	Skagit Intermodal / Burlington	10/28/11

Activity By Job ID

Report period November 2011

11/1/11	12:25 pm	518,931	DTTX427139	7329	GCEU425851	66	Cont Soil	117,420	41,580	75,840	37.92	Skagit Intermodal / Burlington	10/28/11
11/1/11	12:26 pm	518,934	BNSF231043	3450	TOLU422718	66	Cont Soil	91,480	49,300	42,180	21.09	Skagit Intermodal / Burlington	10/28/11
11/1/11	12:26 pm	518,935	BNSF231043	6182	TOLU468313	66	Cont Soil	94,160	41,700	52,460	26.23	Skagit Intermodal / Burlington	10/28/11
11/3/11	9:04 am	519,444	DTTX432093	9951	TOLU422004	66	Cont Soil	102,060	46,280	55,780	27.89	Skagit Intermodal / Burlington	10/31/11
11/3/11	9:00 am	519,445	DTTX432093	7328	GCEU425116	66	Cont Soil	103,140	46,760	56,380	28.19	Skagit Intermodal / Burlington	10/31/11
11/3/11	9:19 am	519,452	DTTX27571	6811	TOLU453771	66	Cont Soil	103,880	46,980	56,900	28.45	Skagit Intermodal / Burlington	10/31/11
11/3/11	9:27 am	519,455	DTTX27571	3450	TOLU422275	66	Cont Soil	107,580	47,380	60,200	30.10	Skagit Intermodal / Burlington	10/31/11
11/5/11	8:31 am	519,971	DTTX56680	6811	GCEU431575	66	Cont Soil	108,580	47,860	60,720	30.36	Skagit Intermodal / Burlington	11/01/11
11/5/11	8:33 am	519,973	DTTX56680	6181	TOLU459456	66	Cont Soil	106,800	46,900	59,900	29.95	Skagit Intermodal / Burlington	11/01/11
11/5/11	9:37 am	520,004	BNSF231100	9949	TOLU457714	66	Cont Soil	112,040	48,380	63,660	31.83	Skagit Intermodal / Burlington	11/01/11
11/5/11	9:39 am	520,019	BNSF231100	0353	TOLU456634	66	Cont Soil	115,240	44,260	70,980	35.49	Skagit Intermodal / Burlington	11/01/11
11/12/11	3:48 pm	521,866	DTTX427139	7329	TOLU425177	66	Cont Soil	90,200	42,040	48,160	24.08	Skagit Intermodal / Burlington	11/09/11
11/12/11	3:54 pm	521,869	BNSF231043	6180	GCEU435150	66	Cont Soil	99,580	47,160	52,420	26.21	Skagit Intermodal / Burlington	11/09/11
11/12/11	3:50 pm	521,870	DTTX427139	9951	TOLU456277	66	Cont Soil	107,680	47,060	60,620	30.31	Skagit Intermodal / Burlington	11/09/11
11/12/11	3:57 pm	521,872	BNSF231043	7327	TRLU900194	66	Cont Soil	114,160	46,900	67,260	33.63	Skagit Intermodal / Burlington	11/09/11
11/12/11	4:08 pm	521,879	DTTX27081	3450	GCEU430744	66	Cont Soil	111,480	47,960	63,520	31.76	Skagit Intermodal / Burlington	11/09/11
11/12/11	4:06 pm	521,882	DTTX54296	7330	TOLU456216	66	Cont Soil	112,980	48,720	64,260	32.13	Skagit Intermodal / Burlington	11/09/11
11/12/11	4:00 pm	521,886	DTTX54296	9949	EGTU420050	66	Cont Soil	118,520	45,600	72,920	36.46	Skagit Intermodal / Burlington	11/09/11
11/12/11	4:28 pm	521,890	DTTX27081	7331	TOLU451989	66	Cont Soil	101,780	47,700	54,080	27.04	Skagit Intermodal / Burlington	11/09/11
11/30/11	12:31 p	902,531	LINERS	RAB		LI	Liners	203	0	203	0.10	Seattle 20 - 48 Ft	
12/1/11	10:11 am	525,651	DTTX432093	9951	TRLU900194	66	Cont Soil	115,460	47,020	68,440	34.22	Skagit Intermodal / Burlington	11/28/11
12/3/11	10:51 am	526,089	BNSF231068	9949	GCEU425860	66	Cont Soil	108,180	47,080	61,100	30.55	Skagit Intermodal / Burlington	11/29/11
12/3/11	11:20 am	526,101	BNSF230126	9951	TOLU459866	66	Cont Soil	109,300	45,900	63,400	31.70	Skagit Intermodal / Burlington	11/29/11
12/3/11	11:31 am	526,107	BNSF230126	3450	GCEU420246	66	Cont Soil	100,800	45,620	55,180	27.59	Skagit Intermodal / Burlington	11/29/11
12/6/11	10:42 am	526,591	DTTX427139	9951	GCEU445033	66	Cont Soil	103,280	47,200	56,080	28.04	Skagit Intermodal / Burlington	11/30/11
12/6/11	10:43 am	526,598	DTTX427139	9949	TOLU458928	66	Cont Soil	106,640	46,140	60,500	30.25	Skagit Intermodal / Burlington	11/30/11
12/9/11	2:53 pm	527,403	DTTX456143	6181	RBDU201061	66	Cont Soil	101,680	47,240	54,440	27.22	Skagit Intermodal / Burlington	12/06/11
12/9/11	3:06 pm	527,420	DTTX27571	7330	TOLU466718	66	Cont Soil	110,760	48,100	62,660	31.33	Skagit Intermodal / Burlington	12/06/11

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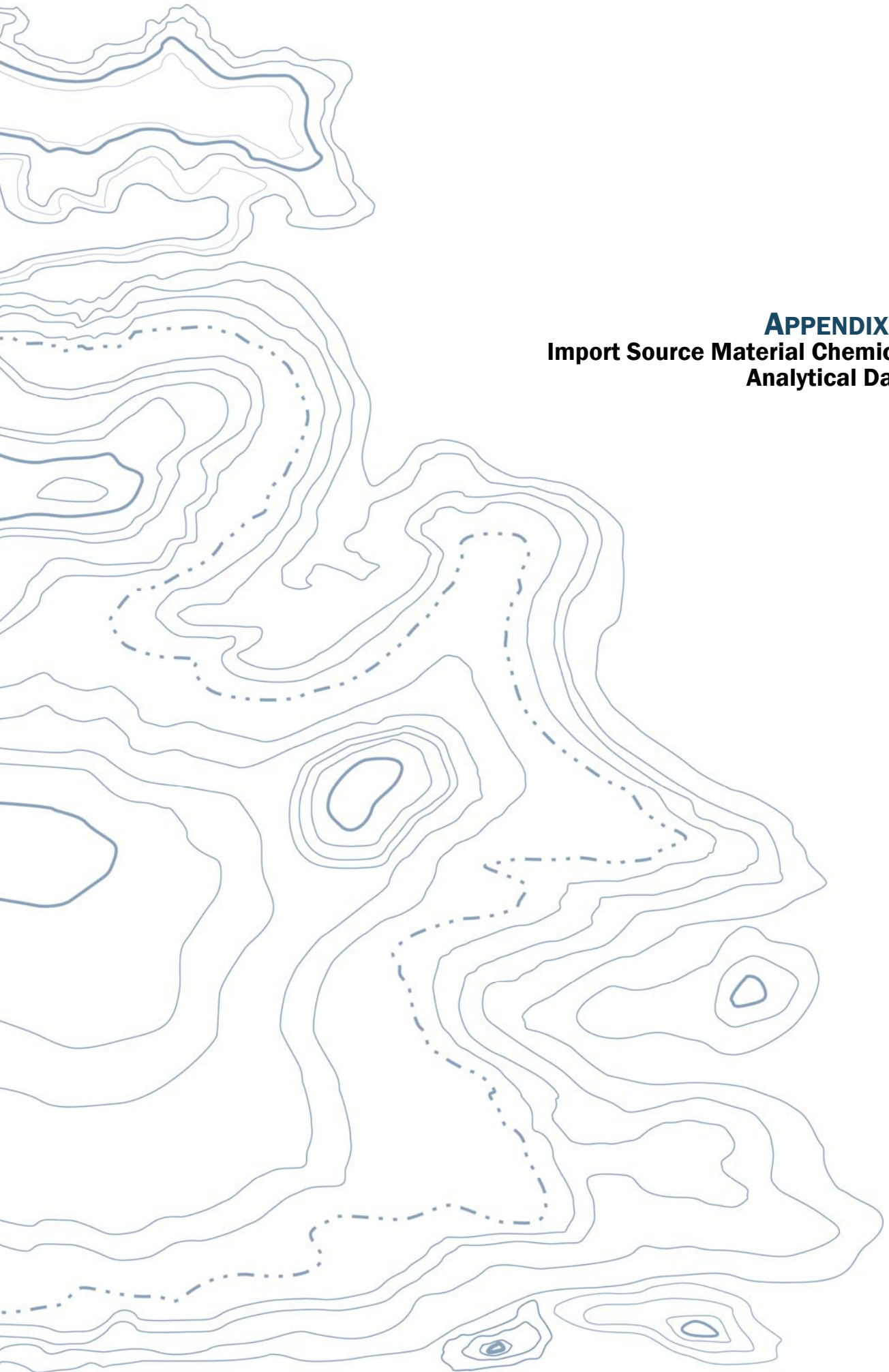
12/9/11 3:48 pm	527,433	DTTX27571	9951	GCEU430744	66	Cont Soil	116,120	47,700	68,420	34.21	Skagit Intermodal / Burlington	12/06/11
12/12/11 9:52 ai	527,854	BNSF230126	6182	GCEU440046	66	Cont Soil	111,800	43,880	67,920	33.96	Skagit Intermodal / Burlington	12/08/11
12/12/11 9:58 ai	527,859	BNSF230126	1565	TOLU466887	66	Cont Soil	120,300	48,240	72,060	36.03	Skagit Intermodal / Burlington	12/08/11
12/13/11 9:20 ai	528,057	DTTX427139	3450	TOLU458591	66	Cont Soil	114,920	46,160	68,760	34.38	Skagit Intermodal / Burlington	12/09/11
12/13/11 9:22 ai	528,065	DTTX427139	6181	UPCU411572	66	Cont Soil	110,520	46,880	63,640	31.82	Skagit Intermodal / Burlington	12/09/11
12/16/11 11:47 a	528,859	DTTX427026	8648	TOLU457858	66	Cont Soil	122,120	43,440	78,680	39.34	Skagit Intermodal / Burlington	12/13/11
12/16/11 11:49 a	528,864	DTTX427026	6182	GCEU440180	66	Cont Soil	108,920	44,660	64,260	32.13	Skagit Intermodal / Burlington	12/13/11
12/16/11 12:14 p	528,873	BNSF231188	6180	GCEU432093	66	Cont Soil	110,040	45,400	64,640	32.32	Skagit Intermodal / Burlington	12/13/11
12/16/11 12:08 p	528,876	BNSF231188	6811	UPCU411575	66	Cont Soil	107,920	45,600	62,320	31.16	Skagit Intermodal / Burlington	12/13/11
12/20/11 10:18 a	529,334	DTTX427139	6811	TOLU467102	66	Cont Soil	120,420	46,480	73,940	36.97	Skagit Intermodal / Burlington	12/16/11
12/20/11 10:30 a	529,338	DTTX427139	6181	TOLU460811	66	Cont Soil	124,560	45,560	79,000	39.50	Skagit Intermodal / Burlington	12/16/11
12/20/11 10:39 a	529,341	DTTX427139	9951	TOLU459163	66	Cont Soil	112,660	44,920	67,740	33.87	Skagit Intermodal / Burlington	12/16/11
12/20/11 10:28 a	529,343	DTTX427139	3450	GCEU425880	66	Cont Soil	120,040	49,020	71,020	35.51	Skagit Intermodal / Burlington	12/16/11
12/20/11 10:58 a	529,353	DTTX27571	7328	TOLU456579	66	Cont Soil	107,100	43,120	63,980	31.99	Skagit Intermodal / Burlington	12/14/11
12/20/11 11:02 a	529,357	DTTX27571	7330	TRLU900070	66	Cont Soil	106,620	47,780	58,840	29.42	Skagit Intermodal / Burlington	12/14/11
12/20/11 4:10 pi	529,490	BNSF231121	6182	TOLU458045	66	Cont Soil	106,600	43,000	63,600	31.80	Skagit Intermodal / Burlington	12/15/11
12/22/11 9:52 ai	529,876	DTTX456604	7330	TRLU901573	66	Cont Soil	118,660	48,180	70,480	35.24	Skagit Intermodal / Burlington	12/19/11
12/22/11 9:53 ai	529,879	DTTX456604	7331	TOLU466596	66	Cont Soil	109,980	43,620	66,360	33.18	Skagit Intermodal / Burlington	12/19/11
12/29/11 10:48 a	531,341	BNSF231044	7331	TOLU458869	66	Cont Soil	100,180	44,860	55,320	27.66	Skagit Intermodal / Burlington	12/23/11
12/29/11 10:49 a	531,344	BNSF231044	9949	GCEU420249	66	Cont Soil	101,880	48,260	53,620	26.81	Skagit Intermodal / Burlington	12/23/11
12/29/11 10:52 a	531,350	DTTX427139	3450	TOLU461796	66	Cont Soil	110,520	47,240	63,280	31.64	Skagit Intermodal / Burlington	12/23/11
12/29/11 11:01 a	531,351	DTTX427139	9951	GCEU445181	66	Cont Soil	98,560	43,280	55,280	27.64	Skagit Intermodal / Burlington	12/23/11
12/29/11 11:06 a	531,355	DTTX427139	6182	TOLU469363	66	Cont Soil	100,380	45,280	55,100	27.55	Skagit Intermodal / Burlington	12/23/11
12/29/11 11:25 a	531,359	DTTX427139	1565	GCEU431710	66	Cont Soil	106,680	47,580	59,100	29.55	Skagit Intermodal / Burlington	12/23/11
12/29/11 11:30 a	531,362	DTTX427139	6180	GCEU420227	66	Cont Soil	112,360	48,840	63,520	31.76	Skagit Intermodal / Burlington	12/23/11
12/29/11 11:38 a	531,370	DTTX427139	7330	GCEU425180	66	Cont Soil	106,340	48,120	58,220	29.11	Skagit Intermodal / Burlington	12/23/11
12/30/11 9:27 ai	531,579	BNSF231121	7327	GCEU440133	66	Cont Soil	103,680	49,460	54,220	27.11	Skagit Intermodal / Burlington	12/27/11
12/31/11 1:14 pi	902,557	LINERS	75JL		LI	Liners	35	0	35	0.02	Seattle 20 - 48 Ft	

Activity By Job ID

Report period December 2011

Total For Job	LW-11355	139 Loads	4155.11 TN
	Grand Total	139 Loads	4155.11 TN



APPENDIX G
Import Source Material Chemical Analytical Data

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS JOB#:	1109082
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	Gravel Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/20/2011	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	09/20/2011	DLC
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	09/20/2011	DLC
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	Gravel Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	09/26/2011	LAP

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CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -01
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CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	Gravel Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
EPTC	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	U	10	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	U	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Mercury	EPA-7471	**0.028**	0.020	1	MG/KG	09/21/2011	RAL
Arsenic	EPA-6020	**3.4**	0.62	5	MG/KG	09/20/2011	RAL
Barium	EPA-6020	**48**	0.52	5	MG/KG	09/20/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	09/20/2011	RAL
Chromium	EPA-6020	**27**	0.61	5	MG/KG	09/20/2011	RAL
Lead	EPA-6020	**4.9**	0.60	5	MG/KG	09/20/2011	RAL
Selenium	EPA-6020	U	0.92	5	MG/KG	09/20/2011	RAL
Silver	EPA-6020	U	0.20	5	MG/KG	09/20/2011	RAL
Zinc	EPA-6020	**41**	1.3	5	MG/KG	09/20/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**87.2**	09/20/2011	DLC
C25	NWTPH-DX	**88.5**	09/20/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	**141 GS1**	09/21/2011	GAP
Toluene-d8	EPA-8260	**86.5**	09/21/2011	GAP
4-Bromofluorobenzene	EPA-8260	**107**	09/21/2011	GAP
Terphenyl-d14	EPA-8270 SIM	**59.7 GS1**	09/26/2011	LAP
2-Fluorophenol	EPA-8270M	**91.9**	10/13/2011	LAP
Phenol-d5	EPA-8270M	**87.6**	10/13/2011	LAP
Nitrobenzene-d5	EPA-8270M	**80.3**	10/13/2011	LAP

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CERTIFICATE OF ANALYSIS

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CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	Gravel Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorobiphenyl	EPA-8270M	**95.8**	10/13/2011	LAP
2,4,6-Tribromophenol	EPA-8270M	**56.7**	10/13/2011	LAP
Terphenyl-d14	EPA-8270M	**99.1**	10/13/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -02
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
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CLIENT SAMPLE ID	Select Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/20/2011	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	09/20/2011	DLC
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	09/20/2011	DLC
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CLIENT SAMPLE ID	Select Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	09/26/2011	LAP

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DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
EPTC	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	U	10	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	U	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Mercury	EPA-7471	**0.023**	0.020	1	MG/KG	09/21/2011	RAL
Arsenic	EPA-6020	**3.6**	0.62	5	MG/KG	09/20/2011	RAL
Barium	EPA-6020	**37**	0.52	5	MG/KG	09/20/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	09/20/2011	RAL
Chromium	EPA-6020	**36**	0.61	5	MG/KG	09/20/2011	RAL
Lead	EPA-6020	**4.3**	0.60	5	MG/KG	09/20/2011	RAL
Selenium	EPA-6020	U	0.93	5	MG/KG	09/20/2011	RAL
Silver	EPA-6020	U	0.20	5	MG/KG	09/20/2011	RAL
Zinc	EPA-6020	**38**	1.3	5	MG/KG	09/20/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**78.3**	09/20/2011	DLC
C25	NWTPH-DX	**113**	09/20/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	**145 GS1**	09/21/2011	GAP
Toluene-d8	EPA-8260	**86.8**	09/21/2011	GAP
4-Bromofluorobenzene	EPA-8260	**104**	09/21/2011	GAP
Terphenyl-d14	EPA-8270 SIM	**63.6**	09/26/2011	LAP
2-Fluorophenol	EPA-8270M	**91.8**	10/13/2011	LAP
Phenol-d5	EPA-8270M	**89.0**	10/13/2011	LAP
Nitrobenzene-d5	EPA-8270M	**84.2**	10/13/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -02
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	Select Borrow	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorobiphenyl	EPA-8270M	**91.3**	10/13/2011	LAP
2,4,6-Tribromophenol	EPA-8270M	**50.2**	10/13/2011	LAP
Terphenyl-d14	EPA-8270M	**88.1**	10/13/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -03
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	5/8" Top Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/20/2011	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	09/20/2011	DLC
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	09/20/2011	DLC
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -03
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	5/8" Top Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	09/26/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -03
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	5/8" Top Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
EPTC	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	U	10	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	U	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	09/21/2011	RAL
Arsenic	EPA-6020	**2.9**	0.61	5	MG/KG	09/20/2011	RAL
Barium	EPA-6020	**50**	0.52	5	MG/KG	09/20/2011	RAL
Cadmium	EPA-6020	U	1.0	5	MG/KG	09/20/2011	RAL
Chromium	EPA-6020	**23**	0.60	5	MG/KG	09/20/2011	RAL
Lead	EPA-6020	**4.4**	0.59	5	MG/KG	09/20/2011	RAL
Selenium	EPA-6020	U	0.91	5	MG/KG	09/20/2011	RAL
Silver	EPA-6020	U	0.19	5	MG/KG	09/20/2011	RAL
Zinc	EPA-6020	**39**	1.3	5	MG/KG	09/20/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**89.9**	09/20/2011	DLC
C25	NWTPH-DX	**103**	09/20/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	**145 GS1**	09/21/2011	GAP
Toluene-d8	EPA-8260	**83.3**	09/21/2011	GAP
4-Bromofluorobenzene	EPA-8260	**106**	09/21/2011	GAP
Terphenyl-d14	EPA-8270 SIM	**71.0**	09/26/2011	LAP
2-Fluorophenol	EPA-8270M	**86.6**	10/13/2011	LAP
Phenol-d5	EPA-8270M	**82.5**	10/13/2011	LAP
Nitrobenzene-d5	EPA-8270M	**77.6**	10/13/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -03
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	5/8" Top Course	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorobiphenyl	EPA-8270M	**84.9**	10/13/2011	LAP
2,4,6-Tribromophenol	EPA-8270M	**52.3**	10/13/2011	LAP
Terphenyl-d14	EPA-8270M	**89.5**	10/13/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -04
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	1-1/4" Base Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/20/2011	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	09/20/2011	DLC
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	09/20/2011	DLC
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -04
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	1-1/4" Base Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	09/26/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -04
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	1-1/4" Base Course	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/26/2011	LAP
EPTC	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	U	10	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	U	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	09/21/2011	RAL
Arsenic	EPA-6020	**2.1**	0.64	5	MG/KG	09/20/2011	RAL
Barium	EPA-6020	**37**	0.54	5	MG/KG	09/20/2011	RAL
Cadmium	EPA-6020	U	1.1	5	MG/KG	09/20/2011	RAL
Chromium	EPA-6020	**16**	0.63	5	MG/KG	09/20/2011	RAL
Lead	EPA-6020	**3.6**	0.62	5	MG/KG	09/20/2011	RAL
Selenium	EPA-6020	U	0.96	5	MG/KG	09/20/2011	RAL
Silver	EPA-6020	U	0.20	5	MG/KG	09/20/2011	RAL
Zinc	EPA-6020	**33**	1.4	5	MG/KG	09/20/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**74.9**	09/20/2011	DLC
C25	NWTPH-DX	**104**	09/20/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	**148 GS1**	09/21/2011	GAP
Toluene-d8	EPA-8260	**86.2**	09/21/2011	GAP
4-Bromofluorobenzene	EPA-8260	**97.5**	09/21/2011	GAP
Terphenyl-d14	EPA-8270 SIM	**56.6 GS1**	09/26/2011	LAP
2-Fluorophenol	EPA-8270M	**79.6**	10/13/2011	LAP
Phenol-d5	EPA-8270M	**76.7**	10/13/2011	LAP
Nitrobenzene-d5	EPA-8270M	**68.6**	10/13/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/20/2011 1109082 -04
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	9/19/2011
CLIENT PROJECT:	211106 - Taxiway F	COLLECTION DATE:	9/19/2011 13:05
CLIENT SAMPLE ID	1-1/4" Base Course	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorobiphenyl	EPA-8270M	**70.4**	10/13/2011	LAP
2,4,6-Tribromophenol	EPA-8270M	**33.4 GS1**	10/13/2011	LAP
Terphenyl-d14	EPA-8270M	**79.7**	10/13/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS SDG#:	1109082
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY BLANK RESULTS

MBG-091511S2 - Batch 2110 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	09/16/2011	DLC

MB-092011S - Batch 2116 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	09/20/2011	DLC
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	09/20/2011	DLC

MB-092111S - Batch 2114 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS SDG#:	1109082
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY BLANK RESULTS

MB-092111S - Batch 2114 - Soil by EPA-8260

Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/21/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/21/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/21/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/21/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS SDG#:	1109082
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY BLANK RESULTS

MB-091411S - Batch 2099 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	09/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	09/14/2011	LAP

MBLK-09202011 - Batch R75040 - Soil by EPA-8270M

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
EPTC	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	U	10	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	U	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	U	20	1	MG/KG	10/13/2011	LAP

MBLK-9212011 - Batch R74785 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	09/21/2011	RAL

MB-092011S - Batch 2111 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.12	1	MG/KG	09/20/2011	RAL

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CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS SDG#:	1109082
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY BLANK RESULTS

MB-092011S - Batch 2111 - Soil by EPA-6020

Barium	EPA-6020	U	0.16	1	MG/KG	09/20/2011	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	09/20/2011	RAL
Chromium	EPA-6020	U	0.12	1	MG/KG	09/20/2011	RAL
Lead	EPA-6020	U	0.12	1	MG/KG	09/20/2011	RAL
Selenium	EPA-6020	U	0.69	1	MG/KG	09/20/2011	RAL
Silver	EPA-6020	U	0.063	1	MG/KG	09/20/2011	RAL
Zinc	EPA-6020	U	0.28	1	MG/KG	09/20/2011	RAL

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CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2110 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**81.6**			09/16/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**78.3**	**4**		09/16/2011	DLC

ALS Test Batch ID: 2116 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**101**			09/20/2011	DLC
TPH-Diesel Range - BSD	NWTPH-DX	**96.4**	**5**		09/21/2011	DLC

ALS Test Batch ID: 2114 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**111**			09/21/2011	GAP
1,1-Dichloroethene - BSD	EPA-8260	**110**	**1**		09/21/2011	GAP
Benzene - BS	EPA-8260	**122**			09/21/2011	GAP
Benzene - BSD	EPA-8260	**118**	**3**		09/21/2011	GAP
Trichloroethene - BS	EPA-8260	**120**			09/21/2011	GAP
Trichloroethene - BSD	EPA-8260	**115**	**4**		09/21/2011	GAP
Toluene - BS	EPA-8260	**120**			09/21/2011	GAP
Toluene - BSD	EPA-8260	**115**	**4**		09/21/2011	GAP
Chlorobenzene - BS	EPA-8260	**102**			09/21/2011	GAP
Chlorobenzene - BSD	EPA-8260	**100**	**2**		09/21/2011	GAP

ALS Test Batch ID: 2099 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	**95.7**			09/14/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	**82.5**	**15**		09/15/2011	LAP
Acenaphthene - BS	EPA-8270 SIM	**93.7**			09/14/2011	LAP
Acenaphthene - BSD	EPA-8270 SIM	**85.5**	**9**		09/15/2011	LAP
Pentachlorophenol - BS	EPA-8270 SIM	**73.8**			09/28/2011	LAP
Pentachlorophenol - BSD	EPA-8270 SIM	**77.3**	**5**		09/28/2011	LAP
Pyrene - BS	EPA-8270 SIM	**118**			09/14/2011	LAP
Pyrene - BSD	EPA-8270 SIM	**97.7**	**19**		09/15/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	**82.7**			09/14/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	**70.7**	**16**		09/15/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/20/2011
		ALS SDG#:	1109082
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	211106 - Taxiway F		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R74785 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**108**			09/21/2011	RAL
Mercury - BSD	EPA-7471	**109**	**1**		09/21/2011	RAL

ALS Test Batch ID: 2111 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**91.1**			09/20/2011	RAL
Arsenic - BSD	EPA-6020	**93.8**	**3**		09/20/2011	RAL
Barium - BS	EPA-6020	**92.0**			09/20/2011	RAL
Barium - BSD	EPA-6020	**93.4**	**2**		09/20/2011	RAL
Cadmium - BS	EPA-6020	**90.5**			09/20/2011	RAL
Cadmium - BSD	EPA-6020	**91.4**	**1**		09/20/2011	RAL
Chromium - BS	EPA-6020	**96.2**			09/20/2011	RAL
Chromium - BSD	EPA-6020	**98.6**	**2**		09/20/2011	RAL
Lead - BS	EPA-6020	**92.8**			09/20/2011	RAL
Lead - BSD	EPA-6020	**93.8**	**1**		09/20/2011	RAL
Selenium - BS	EPA-6020	**89.8**			09/20/2011	RAL
Selenium - BSD	EPA-6020	**91.8**	**2**		09/20/2011	RAL
Silver - BS	EPA-6020	**99.4**			09/20/2011	RAL
Silver - BSD	EPA-6020	**101**	**2**		09/20/2011	RAL
Zinc - BS	EPA-6020	**91.8**			09/20/2011	RAL
Zinc - BSD	EPA-6020	**92.9**	**1**		09/20/2011	RAL

APPROVED BY

Laboratory Director

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ALS Laboratory Group
8620 Holly Dr. #100
Everett, WA 98208

Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Analytical Report

Client Sample ID: 1109082-1
Matrix: soil

PAL Sample ID: P111107-01
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 8151A (GC-MS)					
9/28/11	10/3/11	2,4,5-T	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	2,4,5-TP	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	2,4-D	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	2,4-DB	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Acifluorfen	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Bentazon	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Clopyralid	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Dicamba	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Dichlorprop	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Dinoseb	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	MCPA	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	MCPP	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Picloram	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Quinclorac	Not Detected	0.010 mg/kg	
9/28/11	10/3/11	Triclopyr	Not Detected	0.010 mg/kg	

Surrogate Recovery: 79 %
Surrogate Recovery Range: 57-142
(DCPAA used as Surrogate)

Rick Jordan, Laboratory Manager

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Analytical Report

Client Sample ID: 1109082-2
Matrix: soil

PAL Sample ID: P111107-02
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 8151A (GC-MS)					
9/28/11	10/3/11	2,4,5-T	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4,5-TP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4-D	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4-DB	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Acifluorfen	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Bentazon	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Clopyralid	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dicamba	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dichlorprop	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dinoseb	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPA	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Picloram	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Quinclorac	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Triclopyr	Not Detected	0.015 mg/kg	

Surrogate Recovery: 81 %
Surrogate Recovery Range: 57-142
(DCPAA used as Surrogate)

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Analytical Report

Client Sample ID: 1109082-3
Matrix: soil

PAL Sample ID: P111107-03
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 8151A (GC-MS)					
9/28/11	10/3/11	2,4,5-T	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4,5-TP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4-D	0.022 mg/kg	0.015 mg/kg	
9/28/11	10/3/11	2,4-DB	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Acifluorfen	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Bentazon	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Clopyralid	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dicamba	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dichlorprop	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dinoseb	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPA	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Picloram	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Quinclorac	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Triclopyr	Not Detected	0.015 mg/kg	

Surrogate Recovery: 77 %
Surrogate Recovery Range: 57-142
(DCPAA used as Surrogate)

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Analytical Report

Client Sample ID: 1109082-4
Matrix: soil

PAL Sample ID: P111107-04
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 8151A (GC-MS)					
9/28/11	10/3/11	2,4,5-T	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4,5-TP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4-D	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	2,4-DB	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Acifluorfen	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Bentazon	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Clopyralid	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dicamba	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dichlorprop	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Dinoseb	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPA	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	MCPP	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Picloram	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Quinclorac	Not Detected	0.015 mg/kg	
9/28/11	10/3/11	Triclopyr	Not Detected	0.015 mg/kg	

Surrogate Recovery: 82 %
Surrogate Recovery Range: 57-142
(DCPAA used as Surrogate)

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Quality Assurance

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/28/11	10/3/11	1092801-BLK1	2,4,5-T	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	2,4,5-TP	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	2,4-D	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	2,4-DB	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Acifluorfen	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Bentazon	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Clopyralid	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Dicamba	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Dichlorprop	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Dinoseb	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	MCPA	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	MCPP	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Picloram	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Quinclorac	Not Detected	< 0.010 mg/kg	
9/28/11	10/3/11	1092801-BLK1	Triclopyr	Not Detected	< 0.010 mg/kg	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/28/11	10/3/11	1092801-MS1	2,4-D	80	57-144	
9/28/11	10/3/11	1092801-MSD1	2,4-D	90	57-144	
9/28/11	10/3/11	1092801-MS1	Dicamba	69	40-126	
9/28/11	10/3/11	1092801-MSD1	Dicamba	71	40-126	
9/28/11	10/3/11	1092801-MS1	Triclopyr	82	51-132	
9/28/11	10/3/11	1092801-MSD1	Triclopyr	83	51-132	

Analyte Information

Method: EPA 8151A (GC-MS)

Chlorinated acids were converted to free acids. Residues were quantitated as free acids.

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Analytical Report

Client Sample ID: 1109082-1
Matrix: soil
PAL Sample ID: P111107-01
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Multiresidue Profile					
9/29/11	10/7/11	MR Pesticides	Not Detected	See Analyte List	

Client Sample ID: 1109082-2
Matrix: soil
PAL Sample ID: P111107-02
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Multiresidue Profile					
9/29/11	10/7/11	MR Pesticides	Not Detected	See Analyte List	

Client Sample ID: 1109082-3
Matrix: soil
PAL Sample ID: P111107-03
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Multiresidue Profile					
9/29/11	10/7/11	MR Pesticides	Not Detected	See Analyte List	

Client Sample ID: 1109082-4
Matrix: soil
PAL Sample ID: P111107-04
Sample Date: 9/19/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Multiresidue Profile					
9/29/11	10/7/11	MR Pesticides	Not Detected	See Analyte List	

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Quality Assurance

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
Method: Multiresidue Profile						
9/29/11	10/6/11	1092907-BLK1	MR Pesticides	Not Detected	< Reporting Limits	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/29/11	9/30/11	1092907-MS1	Diazinon	138	36-152	
9/29/11	9/30/11	1092907-MSD1	Diazinon	132	36-152	
9/29/11	10/2/11	1092907-MS1	Dieldrin	141	53-148	
9/29/11	10/2/11	1092907-MSD1	Dieldrin	145	53-148	
9/29/11	10/2/11	1092907-MS1	Endrin	99	53-129	
9/29/11	10/2/11	1092907-MSD1	Endrin	101	53-129	
9/29/11	9/30/11	1092907-MS1	Ethoprop	133	47-142	
9/29/11	9/30/11	1092907-MSD1	Ethoprop	131	47-142	
9/29/11	10/2/11	1092907-MS1	g-BHC	102	68-133	
9/29/11	10/2/11	1092907-MSD1	g-BHC	99	68-133	
9/29/11	10/2/11	1092907-MS1	Heptachlor	91	66-130	
9/29/11	10/2/11	1092907-MSD1	Heptachlor	94	66-130	
9/29/11	10/2/11	1092907-MS1	p,p'-DDT	96	29-182	
9/29/11	10/2/11	1092907-MSD1	p,p'-DDT	97	29-182	

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Project Information

Methodology Employed

Modified EPA 8081B (GC-ECD)
Modified EPA 8141B (GC-FPD)
Modified EPA 8270D (GC-MS SIM)
Modified EPA 8321B (HPLC-MS)

Analyte Information

Method: Modified EPA 8321B (HPLC-MS)
DCPMU is the primary breakdown product of Diuron.

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Report Date: October 10, 2011
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Multiresidue Analyte List

Organophosphorous and Organosulfur Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Aspon	0.025 mg/kg	Azinphos-methyl	0.025 mg/kg
Carbofenothion	0.025 mg/kg	Chlorfenvinphos	0.025 mg/kg
Chlorpyrifos-methyl	0.025 mg/kg	Coumaphos	0.025 mg/kg
Demeton	0.025 mg/kg	Diazinon	0.025 mg/kg
Dichlorofenthion	0.025 mg/kg	Dichlorvos	0.025 mg/kg
Dicrotophos	0.025 mg/kg	Dimethoate	0.025 mg/kg
Disulfoton	0.025 mg/kg	EPN	0.025 mg/kg
Ethion	0.025 mg/kg	Ethoprop	0.025 mg/kg
Famphur	0.025 mg/kg	Fenamiphos	0.025 mg/kg
Fenitrothion	0.025 mg/kg	Fensulfothion	0.025 mg/kg
Fenthion	0.025 mg/kg	Malathion	0.025 mg/kg
Merphos	0.025 mg/kg	Methidathion	0.025 mg/kg
Mevinphos	0.025 mg/kg	Monocrotophos	0.025 mg/kg
Parathion	0.025 mg/kg	Parathion methyl	0.025 mg/kg
Phorate	0.025 mg/kg	Phosmet	0.025 mg/kg
Phosphamidon	0.025 mg/kg	Pirimiphos-methyl	0.025 mg/kg
Ronnel	0.025 mg/kg	Sulprofos	0.025 mg/kg
Terbufos	0.025 mg/kg	Tetrachlorvinphos	0.025 mg/kg
Tokuthion	0.025 mg/kg	Trichloronate	0.025 mg/kg
Chlorpyrifos	0.0099 mg/kg	Propargite	0.049 mg/kg

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Halogenated Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Acetochlor	0.025 mg/kg	Alachlor	0.025 mg/kg
Aldrin	0.0099 mg/kg	Benfluralin	0.0099 mg/kg
Bifenthrin	0.0099 mg/kg	a-BHC	0.0099 mg/kg
b-BHC	0.0099 mg/kg	d-BHC	0.0099 mg/kg
g-BHC	0.0099 mg/kg	Captafol	0.0099 mg/kg
Captan	0.025 mg/kg	Chlordane	0.049 mg/kg
Chlorobenzilate	0.025 mg/kg	Chloroneb	0.025 mg/kg
Chlorothalonil	0.0099 mg/kg	Cyfluthrin	0.049 mg/kg
Cyhalothrin	0.049 mg/kg	Cypermethrin	0.049 mg/kg
p,p'-DDD	0.0099 mg/kg	p,p'-DDE	0.0099 mg/kg
p,p'-DDT	0.0099 mg/kg	Dacthal	0.0099 mg/kg
Deltamethrin	0.049 mg/kg	Dichlobenil	0.0099 mg/kg
Dicloran	0.0099 mg/kg	Dicofol	0.025 mg/kg
Dieldrin	0.0099 mg/kg	Dithiopyr	0.0099 mg/kg
Endosulfan I	0.0099 mg/kg	Endosulfan II	0.0099 mg/kg
Endosulfan sulfate	0.0099 mg/kg	Endrin	0.0099 mg/kg
Endrin aldehyde	0.0099 mg/kg	Endrin ketone	0.0099 mg/kg
Esfenvalerate	0.0099 mg/kg	Ethalfluralin	0.0099 mg/kg
Etridiazole	0.0099 mg/kg	Fenarimol	0.0099 mg/kg
Fenvalerate	0.0099 mg/kg	Flutolanil	0.099 mg/kg
Folpet	0.025 mg/kg	Heptachlor	0.0099 mg/kg
Heptachlor epoxide	0.0099 mg/kg	Hexachlorobenzene	0.0099 mg/kg
Iprodione	0.0099 mg/kg	Methoxychlor	0.0099 mg/kg
Metolachlor	0.025 mg/kg	Mirex	0.0099 mg/kg
Norflurazon	0.0099 mg/kg	Ovex	0.0099 mg/kg
Oxadiazon	0.0099 mg/kg	Oxyfluorfen	0.0099 mg/kg
PCNB	0.0099 mg/kg	Permethrin	0.049 mg/kg
Prodiamine	0.0099 mg/kg	Pronamide	0.0099 mg/kg
Propachlor	0.025 mg/kg	Propanil	0.0099 mg/kg
Propiconazole	0.025 mg/kg	Terbacil	0.0099 mg/kg
Trifloxystrobin	0.0099 mg/kg	Triflumizole	0.0099 mg/kg
Trifluralin	0.0099 mg/kg	Vinclozalin	0.0099 mg/kg

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Report Number: P111107
Report Date: October 10, 2011
Client Project ID: 1109082

Organonitrogen Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Ametryn	0.025 mg/kg	Amitraz	0.049 mg/kg
Atrazine	0.025 mg/kg	Azoxystrobin	0.025 mg/kg
Bensulide	0.025 mg/kg	Boscalid	0.025 mg/kg
Bromacil	0.025 mg/kg	Bromopropylate	0.049 mg/kg
Carfentrazone-ethyl	0.025 mg/kg	Clothianidin	0.025 mg/kg
Cyanazine	0.049 mg/kg	Diclofop-methyl	0.049 mg/kg
Dimethenamid	0.025 mg/kg	Diphenylamine	0.025 mg/kg
Ethofumesate	0.025 mg/kg	Fenbuconazole	0.049 mg/kg
Fenoxaprop-ethyl	0.049 mg/kg	Fipronil	0.049 mg/kg
Fluazifop-p-butyl	0.049 mg/kg	Fludioxonil	0.049 mg/kg
Flumioxazin	0.025 mg/kg	Fluometuron	0.025 mg/kg
Fluroxypyr-meptyl	0.025 mg/kg	Hexazinone	0.025 mg/kg
Imidacloprid	0.025 mg/kg	Isoxaben	0.025 mg/kg
Mefenoxam	0.025 mg/kg	Metalaxyl	0.025 mg/kg
Metribuzin	0.049 mg/kg	Myclobutanil	0.049 mg/kg
Napropamide	0.049 mg/kg	Pendimethalin	0.0099 mg/kg
Pirimicarb	0.025 mg/kg	Prometon	0.049 mg/kg
Prometryn	0.025 mg/kg	Propazine	0.025 mg/kg
Pyraclostrobin	0.025 mg/kg	Pyridaben	0.049 mg/kg
Pyrimethanil	0.025 mg/kg	Sethoxydim	0.25 mg/kg
Simazine	0.049 mg/kg	Simetryn	0.025 mg/kg
Sulfentrazone	0.025 mg/kg	Tebuconazole	0.049 mg/kg
Tebuthiuron	0.049 mg/kg	Thiabendazole	0.025 mg/kg
Triadimefon	0.049 mg/kg		

Phenylurea Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
DCPMU	0.025 mg/kg	Diuron	0.025 mg/kg
Fenuron	0.025 mg/kg	Linuron	0.025 mg/kg
Monuron	0.025 mg/kg	Neburon	0.025 mg/kg
Siduron	0.025 mg/kg		

Carbamate Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
3-Hydroxycarbofuran	0.025 mg/kg	Aldicarb	0.025 mg/kg
Aldicarb Sulfone	0.025 mg/kg	Aldicarb sulfoxide	0.025 mg/kg
Bendiocarb	0.025 mg/kg	Carbaryl	0.025 mg/kg
Carbofuran	0.025 mg/kg	Fenobucarb	0.025 mg/kg
Methiocarb	0.025 mg/kg	Methomyl	0.025 mg/kg
Oxamyl	0.025 mg/kg	Propoxur	0.025 mg/kg
Thiobencarb	0.025 mg/kg		

Rick Jordan, Laboratory Manager

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): 1109082

Date _____ Page _____ Of _____

PROJECT ID: 211106 - TAXIWAY F
REPORT TO COMPANY: CLEARCREEK CONTRACTORS
PROJECT MANAGER: DARREN NESS
ADDRESS: 3203 15TH STREET
EVERETT, WA 98201
PHONE: 425-252-5800 FAX: 425-252-1093
P.O. NUMBER: 211106 E-MAIL: darrenn@clearcreekcon.com
INVOICE TO COMPANY:
ATTENTION: SAME AS ABOVE
ADDRESS:

ANALYSIS REQUESTED (X) + PCP

OTHER (Specify)

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides X by EPA 8081/8082	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify) 9 PER LIST	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	PEST - ORTHO PHOSPHATE	HERBICIDES					NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. GRAVEL BORROW	9/19/11	1:05	SOIL	1		X	X				X				X	X		X		X	X					2	
2. SELECT BORROW	9/19/11	1:05	SOIL	2		X	X				X				X	X		X		X	X					2	
3. 5/8" TOP COURSE	9/19/11	1:05	SOIL	3		X	X				X				X	X		X		X	X					2	
4. 1 1/4" BASE COURSE	9/19/11	1:05	SOIL	4		X	X				X				X	X		X		X	X					2	
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [signature] CCC 9/19/11, 4:45 pm
Received By: Shawn Robinson ALS 9/19/11 4:45

2. Relinquished By: _____
Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | X | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify: X Added PCP 9/27/11

* Turnaround request less than standard may incur Rush Charges

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS JOB#:	1108136
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	8/30/2011
CLIENT PROJECT:	Taxiway F	COLLECTION DATE:	8/30/2011 09:00
CLIENT SAMPLE ID	Topsoil	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	08/31/2011	DLC
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/30/2011	EBS
TPH-Oil Range	NWTPH-DX	**58**	50	1	MG/KG	08/30/2011	EBS
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/06/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/06/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS JOB#:	1108136
		ALS SAMPLE#:	-01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	8/30/2011
CLIENT PROJECT:	Taxiway F	COLLECTION DATE:	8/30/2011 09:00
CLIENT SAMPLE ID	Topsoil	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/06/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/06/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	08/31/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/13/2011 1108136 -01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	8/30/2011
CLIENT PROJECT:	Taxiway F	COLLECTION DATE:	8/30/2011 09:00
CLIENT SAMPLE ID	Topsoil	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Fluoranthene	EPA-8270 SIM	**0.053**	0.020	1	MG/KG	08/31/2011	LAP
Pyrene	EPA-8270 SIM	**0.047**	0.020	1	MG/KG	08/31/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Chrysene	EPA-8270 SIM	**0.023**	0.020	1	MG/KG	08/31/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	08/31/2011	LAP
EPTC	EPA-8270M	ND- H	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	ND- H	20	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	ND- H	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	ND- H	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	ND- H	20	1	MG/KG	10/13/2011	LAP
Mercury	EPA-7471	**0.029**	0.020	1	MG/KG	09/01/2011	RAL
Arsenic	EPA-6020	**3.4**	0.70	5	MG/KG	09/13/2011	RAL
Barium	EPA-6020	**40**	0.59	5	MG/KG	09/13/2011	RAL
Cadmium	EPA-6020	U	1.2	5	MG/KG	09/13/2011	RAL
Chromium	EPA-6020	**44**	0.69	5	MG/KG	09/13/2011	RAL
Lead	EPA-6020	**5.4**	0.68	5	MG/KG	09/13/2011	RAL
Selenium	EPA-6020	**1.2**	1.0	5	MG/KG	09/13/2011	RAL
Silver	EPA-6020	U	0.22	5	MG/KG	09/13/2011	RAL
Zinc	EPA-6020	**54**	1.5	5	MG/KG	09/13/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	**81.0**	08/31/2011	DLC
C25	NWTPH-DX	**79.2**	08/30/2011	EBS
1,2-Dichloroethane-d4	EPA-8260	**86.1**	09/06/2011	GAP
Toluene-d8	EPA-8260	**97.3**	09/06/2011	GAP
4-Bromofluorobenzene	EPA-8260	**118**	09/06/2011	GAP
Terphenyl-d14	EPA-8270 SIM	**128**	08/31/2011	LAP
2-Fluorophenol	EPA-8270M	**121**	10/13/2011	LAP
Phenol-d5	EPA-8270M	**130**	10/13/2011	LAP
Nitrobenzene-d5	EPA-8270M	**116**	10/13/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE: ALS JOB#: ALS SAMPLE#:	10/13/2011 1108136 -01
CLIENT CONTACT:	Darren Ness	DATE RECEIVED:	8/30/2011
CLIENT PROJECT:	Taxiway F	COLLECTION DATE:	8/30/2011 09:00
CLIENT SAMPLE ID	Topsoil	WDOE ACCREDITATION:	C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorobiphenyl	EPA-8270M	**131**	10/13/2011	LAP
2,4,6-Tribromophenol	EPA-8270M	**116**	10/13/2011	LAP
Terphenyl-d14	EPA-8270M	**136**	10/13/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
H - Sample analyzed outside of hold time.
Chromatogram indicates that it is likely that sample contains lube oil.

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS SDG#:	1108136
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	Taxiway F		

LABORATORY BLANK RESULTS

MBG-083111S - Batch 2065 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	08/31/2011	DLC

MB-082311S - Batch 2037 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/23/2011	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	08/23/2011	EBS

MB-090511S - Batch 2072 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Acetone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	09/06/2011	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	09/06/2011	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS SDG#:	1108136
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	Taxiway F		

LABORATORY BLANK RESULTS

MB-090511S - Batch 2072 - Soil by EPA-8260

Bromodichloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
Toluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	09/06/2011	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	09/06/2011	GAP
Styrene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	09/06/2011	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	09/06/2011	GAP

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CERTIFICATE OF ANALYSIS

CLIENT: Clearcreek Contractors
3203 15th St.
Everett, WA 98201

CLIENT CONTACT: Darren Ness
CLIENT PROJECT: Taxiway F

DATE: 10/13/2011
ALS SDG#: 1108136
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-082611S - Batch 2055 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Pentachlorophenol	EPA-8270 SIM	U	0.10	1	MG/KG	08/29/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	08/29/2011	LAP

MBLK-08302011 - Batch R75040 - Soil by EPA-8270M

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
EPTC	EPA-8270M	**H**	20	1	MG/KG	10/13/2011	LAP
Vernolate	EPA-8270M	**H**	20	1	MG/KG	10/13/2011	LAP
Chlorpropham	EPA-8270M	**H**	20	1	MG/KG	10/13/2011	LAP
Chloramben	EPA-8270M	**H**	100	1	MG/KG	10/13/2011	LAP
Terbutryn	EPA-8270M	**H**	20	1	MG/KG	10/13/2011	LAP

H - Sample analyzed outside of hold time.

MBLK-912011 - Batch R74639 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	09/01/2011	RAL

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS SDG#:	1108136
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	Taxiway F		

LABORATORY BLANK RESULTS

MB-090911S - Batch 2082 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.12	1	MG/KG	09/13/2011	RAL
Barium	EPA-6020	U	0.16	1	MG/KG	09/13/2011	RAL
Cadmium	EPA-6020	U	0.20	1	MG/KG	09/13/2011	RAL
Chromium	EPA-6020	U	0.12	1	MG/KG	09/13/2011	RAL
Lead	EPA-6020	U	0.12	1	MG/KG	09/13/2011	RAL
Selenium	EPA-6020	U	0.69	1	MG/KG	09/13/2011	RAL
Silver	EPA-6020	U	0.063	1	MG/KG	09/13/2011	RAL
Zinc	EPA-6020	U	0.28	1	MG/KG	09/13/2011	RAL

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CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS SDG#:	1108136
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	Taxiway F		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2065 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	**89.8**			08/31/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	**86.1**	**4**		08/31/2011	DLC

ALS Test Batch ID: 2037 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	**93.5**			08/23/2011	EBS
TPH-Diesel Range - BSD	NWTPH-DX	**87.2**	**7**		08/23/2011	EBS

ALS Test Batch ID: 2072 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	**115**			09/06/2011	GAP
1,1-Dichloroethene - BSD	EPA-8260	**117**	**2**		09/06/2011	GAP
Benzene - BS	EPA-8260	**108**			09/06/2011	GAP
Benzene - BSD	EPA-8260	**115**	**6**		09/06/2011	GAP
Trichloroethene - BS	EPA-8260	**116**			09/06/2011	GAP
Trichloroethene - BSD	EPA-8260	**116**	**0**		09/06/2011	GAP
Toluene - BS	EPA-8260	**109**			09/06/2011	GAP
Toluene - BSD	EPA-8260	**116**	**6**		09/06/2011	GAP
Chlorobenzene - BS	EPA-8260	**106**			09/06/2011	GAP
Chlorobenzene - BSD	EPA-8260	**107**	**1**		09/06/2011	GAP

ALS Test Batch ID: 2055 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	**82.4**			08/29/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	**101**	**20**		08/29/2011	LAP
Acenaphthene - BS	EPA-8270 SIM	**80.1**			08/29/2011	LAP
Acenaphthene - BSD	EPA-8270 SIM	**98.8**	**21**		08/29/2011	LAP
Pentachlorophenol - BS	EPA-8270 SIM	**65.6**			08/29/2011	LAP
Pentachlorophenol - BSD	EPA-8270 SIM	**73.4**	**11**		08/29/2011	LAP
Pyrene - BS	EPA-8270 SIM	**78.3**			08/29/2011	LAP
Pyrene - BSD	EPA-8270 SIM	**92.4**	**16**		08/29/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	**70.5**			08/29/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	**85.5**	**19**		08/29/2011	LAP

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CERTIFICATE OF ANALYSIS

CLIENT:	Clearcreek Contractors 3203 15th St. Everett, WA 98201	DATE:	10/13/2011
		ALS SDG#:	1108136
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Darren Ness		
CLIENT PROJECT:	Taxiway F		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R74639 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	**101**			09/01/2011	RAL
Mercury - BSD	EPA-7471	**96.0**	**5**		09/01/2011	RAL

ALS Test Batch ID: 2082 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	**87.0**			09/13/2011	RAL
Arsenic - BSD	EPA-6020	**85.7**	**2**		09/13/2011	RAL
Barium - BS	EPA-6020	**86.8**			09/13/2011	RAL
Barium - BSD	EPA-6020	**84.8**	**2**		09/13/2011	RAL
Cadmium - BS	EPA-6020	**84.3**			09/13/2011	RAL
Cadmium - BSD	EPA-6020	**82.6**	**2**		09/13/2011	RAL
Chromium - BS	EPA-6020	**89.6**			09/13/2011	RAL
Chromium - BSD	EPA-6020	**87.4**	**3**		09/13/2011	RAL
Lead - BS	EPA-6020	**86.4**			09/13/2011	RAL
Lead - BSD	EPA-6020	**83.8**	**3**		09/13/2011	RAL
Selenium - BS	EPA-6020	**88.8**			09/13/2011	RAL
Selenium - BSD	EPA-6020	**86.6**	**2**		09/13/2011	RAL
Silver - BS	EPA-6020	**92.9**			09/13/2011	RAL
Silver - BSD	EPA-6020	**90.4**	**3**		09/13/2011	RAL
Zinc - BS	EPA-6020	**86.0**			09/13/2011	RAL
Zinc - BSD	EPA-6020	**83.4**	**3**		09/13/2011	RAL

APPROVED BY

Laboratory Director

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ALS Laboratory Group
8620 Holly Dr. #100
Everett, WA 98208

Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Analytical Report

Client Sample ID: 1108136-1
Matrix: soil

PAL Sample ID: P110956-01
Sample Date: 8/30/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 8151A (GC-MS)					
9/13/11	9/15/11	2,4,5-T	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	2,4,5-TP	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	2,4-D	0.18 mg/kg	0.010 mg/kg	
9/13/11	9/15/11	2,4-DB	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Acifluorfen	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Bentazon	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Clopyralid	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Dicamba	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Dichlorprop	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Dinoseb	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	MCPA	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	MCPP	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Picloram	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Quinclorac	Not Detected	0.010 mg/kg	
9/13/11	9/15/11	Triclopyr	0.15 mg/kg	0.010 mg/kg	

Surrogate Recovery: 70 %
Surrogate Recovery Range: 57-142
(DCPAA used as Surrogate)

Steve Thun For Rick Jordan, Laboratory Manager

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ALS Laboratory Group
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Everett, WA 98208

Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Quality Assurance

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/13/11	9/15/11	1091301-BLK1	2,4,5-T	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	2,4,5-TP	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	2,4-D	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	2,4-DB	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Acifluorfen	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Bentazon	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Clopyralid	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Dicamba	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Dichlorprop	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Dinoseb	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	MCPA	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	MCPP	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Picloram	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Quinclorac	Not Detected	< 0.010 mg/kg	
9/13/11	9/15/11	1091301-BLK1	Triclopyr	Not Detected	< 0.010 mg/kg	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/13/11	9/15/11	1091301-MS1	2,4-D	89	57-144	
9/13/11	9/15/11	1091301-MSD1	2,4-D	91	57-144	
9/13/11	9/15/11	1091301-MS1	Dicamba	70	40-126	
9/13/11	9/15/11	1091301-MSD1	Dicamba	80	40-126	
9/13/11	9/15/11	1091301-MS1	Triclopyr	92	51-132	
9/13/11	9/15/11	1091301-MSD1	Triclopyr	92	51-132	

Analyte Information

Method: EPA 8151A (GC-MS)

Chlorinated acids were converted to free acids. Residues were quantitated as free acids.

Steve Thun For Rick Jordan, Laboratory Manager

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Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Analytical Report

Client Sample ID: 1108136-1
Matrix: soil

PAL Sample ID: P110956-01
Sample Date: 8/30/11

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Multiresidue Profile					
9/12/11	9/15/11	MR Pesticides	Not Detected	See Analyte List	

Surrogate Recovery: 118 %
Surrogate Recovery Range: 54-139
(DCBP used as Surrogate)

Steve Thun For Rick Jordan, Laboratory Manager

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Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Quality Assurance

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
Method: Multiresidue Profile						
9/12/11	9/15/11	1091204-BLK1	MR Pesticides	Not Detected	< Reporting Limits	

Matrix Spike Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
9/12/11	9/13/11	1091204-MS1	Atrazine	76	60-121	
9/12/11	9/13/11	1091204-MSD1	Atrazine	77	60-121	
9/12/11	9/15/11	1091204-MS1	Bendiocarb	68	40-120	
9/12/11	9/15/11	1091204-MSD1	Bendiocarb	71	40-120	
9/12/11	9/14/11	1091204-MS1	Diazinon	103	36-152	
9/12/11	9/14/11	1091204-MSD1	Diazinon	106	36-152	
9/12/11	9/15/11	1091204-MS1	Dieldrin	70	53-148	
9/12/11	9/15/11	1091204-MSD1	Dieldrin	72	53-148	
9/12/11	9/13/11	1091204-MS1	Ethofumesate	73	24-153	
9/12/11	9/13/11	1091204-MSD1	Ethofumesate	72	24-153	
9/12/11	9/14/11	1091204-MS1	Ethoprop	91	47-142	
9/12/11	9/14/11	1091204-MSD1	Ethoprop	92	47-142	
9/12/11	9/15/11	1091204-MS1	Monuron	61	40-120	
9/12/11	9/15/11	1091204-MSD1	Monuron	59	40-120	
9/12/11	9/15/11	1091204-MS1	Oxadiazon	101	51-156	
9/12/11	9/15/11	1091204-MSD1	Oxadiazon	97	51-156	

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Project Information

Methodology Employed

Modified EPA 8081B (GC-ECD)
Modified EPA 8141B (GC-FPD)
Modified EPA 8270D (GC-MS SIM)
Modified EPA 8321B (HPLC-MS)

Analyte Information

Method: Modified EPA 8321B (HPLC-MS)
DCPMU is the primary breakdown product of Diuron.

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Multiresidue Analyte List

Organophosphorous and Organosulfur Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Aspon	0.017 mg/kg	Azinphos-methyl	0.017 mg/kg
Carbofenothion	0.017 mg/kg	Chlorfenvinphos	0.017 mg/kg
Chlorpyrifos-methyl	0.017 mg/kg	Coumaphos	0.017 mg/kg
Demeton	0.017 mg/kg	Diazinon	0.017 mg/kg
Dichlorofenthion	0.017 mg/kg	Dichlorvos	0.017 mg/kg
Dicrotophos	0.017 mg/kg	Dimethoate	0.017 mg/kg
Disulfoton	0.017 mg/kg	EPN	0.017 mg/kg
Ethion	0.017 mg/kg	Ethoprop	0.017 mg/kg
Famphur	0.017 mg/kg	Fenamiphos	0.017 mg/kg
Fenitrothion	0.017 mg/kg	Fensulfothion	0.017 mg/kg
Fenthion	0.017 mg/kg	Malathion	0.017 mg/kg
Merphos	0.017 mg/kg	Methidathion	0.017 mg/kg
Mevinphos	0.017 mg/kg	Monocrotophos	0.017 mg/kg
Parathion	0.017 mg/kg	Parathion methyl	0.017 mg/kg
Phorate	0.017 mg/kg	Phosmet	0.017 mg/kg
Phosphamidon	0.017 mg/kg	Pirimiphos-methyl	0.017 mg/kg
Ronnel	0.017 mg/kg	Sulprofos	0.017 mg/kg
Terbufos	0.017 mg/kg	Tetrachlorvinphos	0.017 mg/kg
Tokuthion	0.017 mg/kg	Trichloronate	0.017 mg/kg
Chlorpyrifos	0.0067 mg/kg	Propargite	0.033 mg/kg

Steve Thun For Rick Jordan, Laboratory Manager

Pacific Agricultural Laboratory
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ALS Laboratory Group
8620 Holly Dr. #100
Everett, WA 98208

Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Halogenated Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Acetochlor	0.017 mg/kg	Alachlor	0.017 mg/kg
Aldrin	0.0067 mg/kg	Benfluralin	0.0067 mg/kg
Bifenthrin	0.0067 mg/kg	a-BHC	0.0067 mg/kg
b-BHC	0.0067 mg/kg	d-BHC	0.0067 mg/kg
g-BHC	0.0067 mg/kg	Captafol	0.0067 mg/kg
Captan	0.017 mg/kg	Chlordane	0.033 mg/kg
Chlorobenzilate	0.017 mg/kg	Chloroneb	0.017 mg/kg
Chlorothalonil	0.0067 mg/kg	Cyfluthrin	0.033 mg/kg
Cyhalothrin	0.033 mg/kg	Cypermethrin	0.033 mg/kg
p,p'-DDD	0.0067 mg/kg	p,p'-DDE	0.0067 mg/kg
p,p'-DDT	0.0067 mg/kg	Dacthal	0.0067 mg/kg
Deltamethrin	0.033 mg/kg	Dichlobenil	0.0067 mg/kg
Dicloran	0.0067 mg/kg	Dicofol	0.017 mg/kg
Dieldrin	0.0067 mg/kg	Dithiopyr	0.0067 mg/kg
Endosulfan I	0.0067 mg/kg	Endosulfan II	0.0067 mg/kg
Endosulfan sulfate	0.0067 mg/kg	Endrin	0.0067 mg/kg
Endrin aldehyde	0.0067 mg/kg	Endrin ketone	0.0067 mg/kg
Esfenvalerate	0.0067 mg/kg	Ethalfluralin	0.0067 mg/kg
Etridiazole	0.0067 mg/kg	Fenarimol	0.0067 mg/kg
Fenvalerate	0.0067 mg/kg	Flutolanil	0.067 mg/kg
Folpet	0.017 mg/kg	Heptachlor	0.0067 mg/kg
Heptachlor epoxide	0.0067 mg/kg	Hexachlorobenzene	0.0067 mg/kg
Iprodione	0.0067 mg/kg	Methoxychlor	0.0067 mg/kg
Metolachlor	0.017 mg/kg	Mirex	0.0067 mg/kg
Norflurazon	0.0067 mg/kg	Ovex	0.0067 mg/kg
Oxadiazon	0.0067 mg/kg	Oxyfluorfen	0.0067 mg/kg
PCNB	0.0067 mg/kg	Permethrin	0.033 mg/kg
Prodiamine	0.0067 mg/kg	Pronamide	0.0067 mg/kg
Propachlor	0.017 mg/kg	Propanil	0.0067 mg/kg
Propiconazole	0.017 mg/kg	Terbacil	0.0067 mg/kg
Trifloxystrobin	0.0067 mg/kg	Triflumizole	0.0067 mg/kg
Trifluralin	0.0067 mg/kg	Vinclozalin	0.0067 mg/kg

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8620 Holly Dr. #100
Everett, WA 98208

Report Number: P110956
Report Date: September 16, 2011
Client Project ID: 1108136

Organonitrogen Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
Ametryn	0.017 mg/kg	Amitraz	0.033 mg/kg
Atrazine	0.017 mg/kg	Azoxystrobin	0.017 mg/kg
Bensulide	0.017 mg/kg	Boscalid	0.017 mg/kg
Bromacil	0.017 mg/kg	Bromopropylate	0.033 mg/kg
Carfentrazone-ethyl	0.017 mg/kg	Clothianidin	0.017 mg/kg
Cyanazine	0.033 mg/kg	Diclofop-methyl	0.033 mg/kg
Dimethenamid	0.017 mg/kg	Diphenylamine	0.017 mg/kg
Ethofumesate	0.017 mg/kg	Fenbuconazole	0.033 mg/kg
Fenoxaprop-ethyl	0.033 mg/kg	Fipronil	0.033 mg/kg
Fluazifop-p-butyl	0.033 mg/kg	Fludioxonil	0.033 mg/kg
Flumioxazin	0.017 mg/kg	Fluometuron	0.017 mg/kg
Fluroxypyr-meptyl	0.017 mg/kg	Hexazinone	0.017 mg/kg
Imidacloprid	0.017 mg/kg	Isoxaben	0.017 mg/kg
Mefenoxam	0.017 mg/kg	Metalaxyl	0.017 mg/kg
Metribuzin	0.033 mg/kg	Myclobutanil	0.033 mg/kg
Napropamide	0.033 mg/kg	Pendimethalin	0.0067 mg/kg
Pirimicarb	0.017 mg/kg	Prometon	0.033 mg/kg
Prometryn	0.017 mg/kg	Propazine	0.017 mg/kg
Pyraclostrobin	0.017 mg/kg	Pyridaben	0.033 mg/kg
Pyrimethanil	0.017 mg/kg	Sethoxydim	0.17 mg/kg
Simazine	0.033 mg/kg	Simetryn	0.017 mg/kg
Sulfentrazone	0.017 mg/kg	Tebuconazole	0.033 mg/kg
Tebuthiuron	0.033 mg/kg	Thiabendazole	0.017 mg/kg
Triadimefon	0.033 mg/kg		

Phenylurea Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
DCPMU	0.017 mg/kg	Diuron	0.017 mg/kg
Fenuron	0.017 mg/kg	Linuron	0.017 mg/kg
Monuron	0.017 mg/kg	Neburon	0.017 mg/kg
Siduron	0.017 mg/kg		

Carbamate Pesticides

Analyte	Reporting Limit	Analyte	Reporting Limit
3-Hydroxycarbofuran	0.017 mg/kg	Aldicarb	0.017 mg/kg
Aldicarb Sulfone	0.017 mg/kg	Aldicarb sulfoxide	0.017 mg/kg
Bendiocarb	0.017 mg/kg	Carbaryl	0.017 mg/kg
Carbofuran	0.017 mg/kg	Fenobucarb	0.017 mg/kg
Methiocarb	0.017 mg/kg	Methomyl	0.017 mg/kg
Oxamyl	0.017 mg/kg	Propoxur	0.017 mg/kg
Thiobencarb	0.017 mg/kg		

Steve Thun For Rick Jordan, Laboratory Manager

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http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only) 1108136

Date 8.30.11 Page 1 Of 1

PROJECT ID: TAXIWAY F
REPORT TO COMPANY: CLEARCREEK CONTRACTORS
PROJECT MANAGER: DARREN NESS
ADDRESS: 3105 15TH STREET EVERETT, WA 98201
PHONE: 425.257.5800 FAX: 425.252.1093
P.O. NUMBER: 211104 E-MAIL: DarrenN@clearcreekllc.com

INVOICE TO COMPANY:
ATTENTION: SAME AS ABOVE
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021	MTBE by EPA-8021 EPA-8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB by EPA 8081/8082 Pesticides	Metals-MTCA-5 RCRA-8 Pri Pol TAL	Metals Other (Specify) 9 PETR LIST	TCLP-Metals VOA Semi-Vol Pest Herbs	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. TOPSOIL	8/30/11	0900	Soil	1		X	X	X			X				X	X		X		X	3	Y
2.																						
3.																						
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

Pest - Organo Chlorine Herbicides

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: CCC 8/30/11 10:55
   Received By: ALS 8/30/11 10:55
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: X 10 Standard | 5 | 3 | 2 | 1 SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 SAME DAY

OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges

Department of Ecology

Request to Waive Required Use of Accredited Lab

Use form ECY 070-152a. for a waiver for Microbial Source Tracing (MST)

Reference: Executive Policy 1-22

Date: October 14, 2011 **Program:** TCP

Name of Requester: David L. South **Work Phone:** 425-649-7200

Project Name: Skagit County Port (a.k.a. Taxiway F) FSID 64457634 DLS 10/20/2011

Test(s) for which a waiver is requested:
(Analyte/matrix/method; for example, Dieldrin by HR-GC/MS)

Chloramben, Terbutryn, Vernolate, Chlorpropham, and EPTC/Soil/ Method 8270

Justification for Request:
(Some of the possible reasons for requesting to waive the requirement to use an accredited lab are listed...mark as many as apply and explain in the narrative)

- ☐ Data quality goal does not warrant accreditation[1]
- ☑ There is no lab accredited to do the test(s)[2]
- ☐ EAP Lab Accreditation Section cannot accredit for test(s)[3]
- ☐ There is no accredited lab in a reasonable distance[4]
- ☑ No lab can be accredited in time to meet the need[4]
- ☐ Other (explain in narrative)

Narrative (Explain the above checked boxes):

Skagit County Port is performing a pesticide cleanup at Taxiway F of the Skagit Regional Airport, Burlington. We have accredited laboratories for all of the pesticides found at the site but four that were found during the remedial investigation. We have accredited laboratories for all indicator chemicals for which the Performance Samples are being tested.

Backfill will be placed after excavation of contaminated soil. All imported material is being tested for pesticides found at the site to ensure it is clean. We have accredited laboratories for all but five of the pesticides to be tested. These are: Chloramben, Terbutryn, Vernolate, Chlorpropham, and EPTC. The labororatory is accredited for Method 8270, but not for these five pesticides compounds.

Time is of the essence because remedial excavation is underway and backfilling is scheduled to start in a couple of weeks. It is important to not hold up the construction schedule. ALS Laboratory can do the work, but cannot obtain accreditation in time to meet the construction schedule. Hence, I am requesting a waiver of laboratory accredition for the five listed pesticides only, and only for testing material to be imported to the Skagit County Port cleanup site (a.k.a. Taxiway F).

---

1 Screening data, for example may not necessitate use of an accredited lab.
2 Check the Lab Accreditation website or Contact the EAP Lab Accreditation Unit, or both.
3 Contact the EAP Lab Accreditation Unit
4 Check the Lab Accreditation website or Contact the EAP Lab Accreditation Unit, or both.

Associated Quality Control Tests - Exemption from the requirement to use an accredited lab does not relieve the data user from the requirement to assure lab data meets quality objectives. Reviewing quality control (QC) test results, routinely performed as part of the lab accreditation process, becomes an especially important issue for the user of data coming from a non-accredited lab. Mark below the QC tests the lab will be required to report along with the environmental data. Refer to this description of QC tests, if needed, to determine the significance of each test.

- ☐ Check standards
- ☒ Method Blanks
- ☐ Matrix Spikes
- ☐ Matrix Spike Duplicates
- ☐ Duplicates
- ☒ Surrogates
- ☐ Laboratory Splits
- ☒ Standard/Certified Reference Materials

When completed, save the request and submit it to the Agency QA Officer by e-mail.

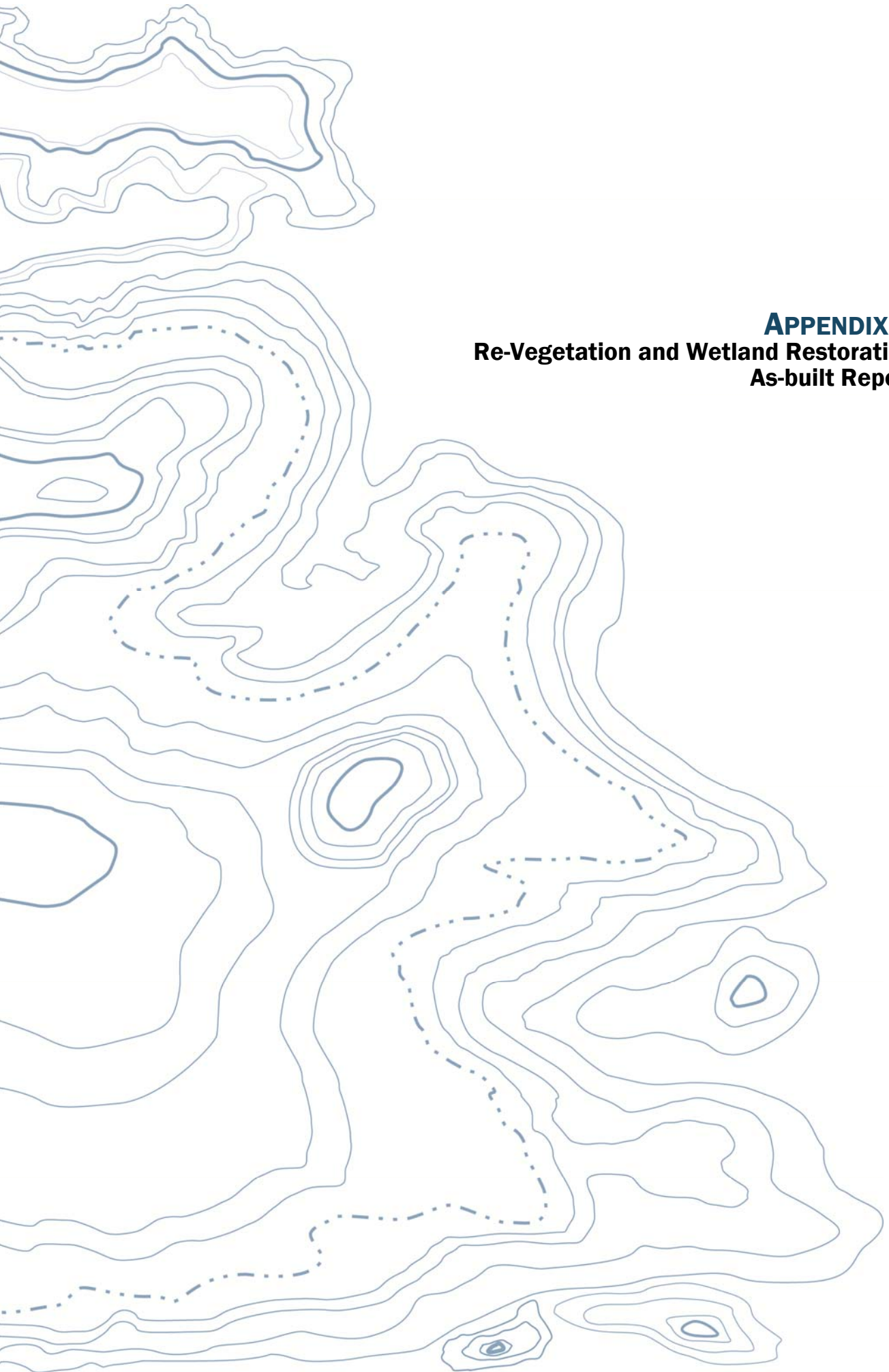
Approval Signatures:

William R Kuhn 10/17/11

Ecology Quality Assurance Officer/Date

10/17/11

Environmental Assessment Program Manager or Ecology Deputy Director/Date



APPENDIX H
Re-Vegetation and Wetland Restoration As-built Report

Re-Vegetation and Wetland Restoration As-Built Report

Taxiway F Cleanup Action Project
Burlington, Washington
USACE Permit No. NWS-2008019

for
Department of the Army

December 17, 2012

GeoEngineers
Earth Science + Technology

Re-Vegetation and Wetland Restoration As-Built Report

Taxiway F Cleanup Action Project
Burlington, Washington
USACE Permit No. NWS-2008019

for
Department of the Army

December 17, 2012

GeoEngineers

Plaza 600 Building
600 Stewart Street, Suite 1700
Seattle, Washington 98101
206.728.2674

Re-Vegetation and Wetland Restoration
As-Built Report

Taxiway F Cleanup Action Project
Burlington, Washington
USACE Permit No. NWS-2008-19

File No. 5364-013-04

December 17, 2012

Prepared for:

Department of the Army
Seattle District, Corps of Engineers
PO Box 3755
Seattle, Washington 98124-3755

Attention: Erin Leggi

Prepared by:

GeoEngineers, Inc.
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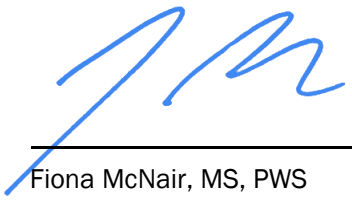

Fiona McNair, MS, PWS
Wetland Scientist

John M. Herzog, PhD
Principal

AJ:FMM:JMH:csv

cc: Sara Young/Port of Skagit

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GeoEngineers

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APPENDICES

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Appendix B. Certificate of Compliance with Department of Army Permit
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1.0 INTRODUCTION

On behalf of Port of Skagit County (Port), this report has been prepared to document the as-built condition of the wetlands at the Taxiway F Cleanup Action Project Site (Site) located near the western edge of the Skagit Regional Airport in Burlington, Washington (Figure 1 – Vicinity Map). This as-built report is being submitted to the US Army Corps of Engineers (USACE) pursuant to Nationwide Permit 38 No. NWS-2008-19. Restoration of the wetlands has been completed as part of the Port's cleanup actions at the Site as required under a Consent Decree with the Washington State Department of Ecology. The wetland restoration activities are described in the USACE – approved Updated Wetland Restoration Plan (WRP) (GeoEngineers, 2011a). This as-built report also includes a summary of the wetland restoration observations made during the as-built monitoring event, which was completed at the Site on September 25, 2012.

2.0 INITIAL SITE CONDITIONS

The Site contains four wetlands. The Wetlands are designated as A, B, C, and D as shown on Figure 2. A fenced area at the Site contains the entirety of Wetlands B and C and portions of Wetlands A and D. A Hangar building, asphalt and gravel areas and grass upland areas are also present within the fenced area. Wetland D extends north of the fenced area and Wetland A extends north, east and south of the fenced area.

Wetlands B, C and D are small Category IV wetlands. Vegetation in Wetlands C and D consist primarily of emergent plants while the dominant vegetation in Wetland B consists of shrubs. Wetland A is a Category III wetland and contains both emergent (northern portion) and forested (southern portion) plant communities. The detailed information about the Site wetlands including wetland delineation, classification, functional analysis, and dominant vegetation species is presented in the Critical Areas Report (Hart Crowser, 2007). As described in the Critical Areas Report, the dominant vegetation at the Site consists of a mix of upland and wetland vegetation including Western redcedar (*Thuja plicata*), red alder (*Alnus rubra*), big-leaf maple (*Acer macrophyllum*), black cottonwood (*Populus balsamifera*), hardhack (*Spiraea douglasii*), Scouler's willow (*Salix scoulerana*), salmonberry (*Rubus spectabilis*), vine maple (*Acer circinatum*), Indian plum (*Oemleria cerasiformis*), swamp gooseberry (*Ribes lacustre*), red elderberry (*Sambucus racemosa*), Himalayan blackberry (*Rubus armeniacus*), evergreen blackberry (*Rubus lacinatus*), poison-hemlock (*Conium maculatum*), sword fern (*Polystichum munitum*), lady fern (*Athyrium filix-femina*), stinging nettle (*Urtica dioica*), soft rush (*Juncus effusus*), slough sedge (*Carex obnupta*), piggy-back plant (*Tolmiea menziesii*), large-leaf avens (*Geum macrophyllum*), trailing blackberry (*Rubus ursinus*), false lily-of-the-valley (*Maianthemum dilatatum*), reed canarygrass (*Phalaris arundinacea*), and a variety of native and non-native grasses.

3.0 WETLAND, BUFFER AND UPLAND IMPACTS AND RESTORATION

The cleanup action is described in the Ecology – approved Cleanup Action Plan (CAP) (GeoEngineers, 2011b) and Engineering Design Report (EDR) (GeoEngineers, 2011c) and was completed to remove soil that had been contaminated with pesticides and herbicides. The cleanup action involved remedial excavation within wetlands areas, buffer area, and paved (asphalt,

concrete and gravel) uplands areas. The limit of the remedial excavation is also the restoration boundary as shown relative to the Site on Figure 2. Pre-existing mature coniferous trees identified in Figure 2 were preserved during cleanup action activities.

The wetlands, buffer and grass/herb upland areas that were impacted due to cleanup action activities and restored are summarized below.

- The combined wetland areas that were excavated and restored include Forested Wetland area of Wetland A, Emergent Wetland areas of Wetland A, C and D, and Scrub-Shrub Wetland area of Wetland B. The combined wetland areas that were excavated and restored measured approximately 31,464 square feet in size. Table 1 provides a detailed summary of the wetland impact/restoration areas.

TABLE 1. WETLAND IMPACTS AND RESTORATION AREAS

Wetland	Cowardin Vegetation Class[1] Impacted	Plant Communities Restored	Wetland Impact and Restoration Areas (square feet)
Wetland A	Forested	Tree and shrub	25,519
	Emergent	Grass and emergent	3,897
Wetland B	Scrub-Shrub	Shrub	229
Wetland C	Emergent	Grass and emergent	73
Wetland D	Emergent	Grass and emergent	1,746
		Total	**31,464**

Note:

[1] Cowardin vegetation class assigned based on Classification of Wetland and Deep Water Habitats of the United States (Cowardin et al 1979), as reported in the Hart Crowser Critical Areas Report (Hart Crowser, 2007).

- The buffer area that was excavated and restored includes Forested Buffer of Wetland A. This area measured approximately 21,888 square feet in size and was restored with native plant communities including a mix of trees and shrubs.
- The Grass/Herb Upland area that was excavated and restored totaled approximately 24,454 square feet. This area was restored with grass and emergent plant communities.

As-built conditions, documenting restoration and re-vegetation activities completed within Forested Wetland, Emergent Wetland, Scrub-Shrub Wetland, Forested Buffer and Grass/Herb Upland areas following the completion of remedial excavation activities, are described in Section 4 below and shown on Figure 2.

4.0 RE-VEGEATION AND WETLAND RESTORATION AS-BUILT CONDITIONS

Re-vegetation and wetland restoration activities were completed in compliance with the WRP and USACE approved Nationwide Permit 38 No. NWS-2008-19 with the exceptions noted below in Section 4.3 and 4.5. Copies of USACE approved nationwide permit documents are included in

Appendix A. A certificate of compliance with Permit NWS-2008-19 is included in Appendix B. Restoration activities including backfilling, grading, planting, mulching and seeding activities are summarized below. Observations made during as-built monitoring event are summarized in Section 6.

Restoration activities were partly completed by Dariotis Construction Co. Inc. of Mt. Vernon, Washington and partly by Lovins Landscape, Inc. of Arlington, Washington both under subcontract to Clearcreek contractors, the Port's general contractor for the cleanup action.

4.1 Backfilling and Grading

Following remedial excavation activities the wetlands (Forested Wetland area of Wetland A, Emergent Wetland areas of Wetland A, C and D, and Scrub-Shrub Wetland area of Wetland B), wetlands buffer (Forested Buffer of Wetland A), and Grass/Herb Uplands areas were backfilled with clean imported topsoil material to meet the specified design grades, and to restore preexisting wetland function and rainwater runoff drainage flow at the Site. Topsoil material that met project specifications requirement and/or as approved by the Port was used for backfilling activities. Backfilling and grading activities were completed in general accordance with the project design drawings and specifications.

4.2 Topsoil Planting Mounds

Topsoil planting mounds were constructed on top of the finished backfill surface at the planting locations of western red cedar and big leaf maple for the purpose of elevating the root balls above the saturated soils. Topsoil planting mounds construction activities were completed prior to plant installation activities as generally described in the project design drawings and specifications. Topsoil planting mounds measured approximately 6 feet in diameter and 1 foot tall, and were constructed using topsoil material that met project specifications requirement and/or as approved by the Port.

4.3 Plant Installation

Following the completion of backfill placement and final grading, plant installation was completed within the Forested Wetland and Forested Buffer area of Wetland A, and Scrub-Shrub Wetland area of Wetland B.

The plant quantities installed at the Site are summarized below and are compared to plant quantities required as per the WRP in Table 2.

- The Forested Wetland area of Wetland A was planted with 330 trees, including black cottonwood and western redcedar and 1,295 shrubs, including twinberry (*Lonicera involucrata*), salmonberry and hardhack (*Spiraea douglasii*).
- The Scrub-Shrub Wetland area of Wetland B was planted with 12 hardhack shrubs.
- The Forested Buffer area of Wetland A was planted with 279 trees, including black cottonwood, western redcedar and bigleaf maple and 1,095 shrubs, including vine maple, lady fern *(Athyrium filix-femina*), and red elderberry.

Plant counts were completed after delivery to the Site and/or verified using purchase records to confirm that the quantity of plant material purchased and imported to the Site met the quantities specified in the WRP. The average plant spacing generally conformed to the plant spacing required as per the WRP.

Plant installation activities were completed in general accordance with the WRP, and USACE approved Nationwide Permit 38 No. NWS-2008-19 with the following exceptions:

- Within the Forested Wetland portion of Wetland A, additional western red cedar (10 additional plants), twinberry (5 additional plants), and hardhack (15 additional plants) were planted as compared to number required per the WRP.
- Within the Forested Buffer for Wetland A, additional western red cedar (5 additional plants) were planted, as compared to number required per the WRP.

4.4 Mulch Placement

To provide erosion and weed control within Forested Wetland and Forested Buffer areas of Wetland A, mulch rings were created around each of the installed plants. Mulch rings were created as generally described in the project design drawings and project specifications. An approximately 4-inch thick mulch ring was placed within a 1-foot radius of plants while ensuring that mulch did not touch the trunk or stem of the plant.

TABLE 2. NUMBER OF PLANTS INSTALLED AT THE SITE

Vegetation Strata	Species	Plant Quantities Required as per the WRP			Plant Quantities Installed		
		Forested Wetland (Wetland A)	Scrub-Shrub Wetland (Wetland B)	Forested Buffer (Wetland A Buffer)	Forested Wetland (Wetland A)	Scrub-Shrub Wetland (Wetland B)	Forested Buffer (Wetland A Buffer)
Trees	Black cottonwood *(Populus balsamifera)*	120	--	75	120	--	75
	Western red cedar *(Thuja plicata)*	200	--	125	210	--	130
	Bigleaf maple *(Acer macrophyllum)*	--	--	74	--	--	74
	Totals	**320**	**--**	**274**	**330**	**--**	**279**
Shrub	Twinberry *(Lonicera involucrata)*	425	--	--	430	--	--
	Salmonberry *(Rubus spectabilis)*	425	--	--	425	--	--
	Hardhack *(Spiraea douglasii)*	425	12	--	440	12	--

Vegetation Strata	Species	Plant Quantities Required as per the WRP			Plant Quantities Installed		
		Forested Wetland (Wetland A)	Scrub-Shrub Wetland (Wetland B)	Forested Buffer (Wetland A Buffer)	Forested Wetland (Wetland A)	Scrub-Shrub Wetland (Wetland B)	Forested Buffer (Wetland A Buffer)
Shrub	Vine maple *(Acer circinatum)*	--	--	365	--	--	365
	Lady fern *(Athyrium filix femina)*	--	--	365	--	--	365
	Red elderberry *(Sambucus racemosa)*	--	--	365	--	--	365
Totals		**1,275**	**12**	**1,095**	**1,295**	**12**	**1,095**

Notes:
-- Plant species not specified for that planting area.

4.5 Seeding

To provide erosion control and habitat value within the Scrub-Shrub Wetland area of Wetland B, Emergent Wetland area of Wetland A, C and D, and Grass/Herb Upland areas, seed mixes were applied on finished surfaces of these areas following the completion of backfilling and grading activities.

Seeding activities were completed in general accordance with the WRP, and USACE approved Nationwide Permit 38 No. NWS-2008-19 with the following exception:

- Velvet grass (*Holcus lanatus*), which was a specified component of the Wetland/Emergent Seed Mix (GeoEngineers, 2011a), was substituted by Redtop Bentgrass (*Agrostic alba [gigantean])* due to the commercial unavailability of velvet grass.

The Emergent Wetland areas of Wetland A, C and D was seeded with Wetland/Emergent Seed Mix (Table 3) and Grass-Herb Upland area was seeded with Erosion Control Upland Seed Mix (Table 4). Purchase records provided by the contractor were reviewed to confirm that the seed mixes purchased for the Site complied with the seed mix requirements listed in Table 3 and Table 4.

TABLE 3. WETLAND/EMERGENT SEED MIX

Species Common Name	Species Scientific Name	Percent by Weight
Slender rush	*Juncus tenuis*	15
Colonial bentgrass	*Agrostis tenuis*	30
Redtop Bentgrass	*Agrostic alba (gigantean)*	30
Kentucky bluegrass	*Poa pratensis*	25

TABLE 4. EROSION CONTROL UPLAND SEED MIX

Species Common Name	Species Scientific Name	Percent by Weight
White clover	*Trifolium repens*	20
Annual ryegrass	*Lolium perenne*	20
Creeping red fescue	*Festuca rubra*	60

5.0 MONITORING REQUIREMENTS AND PERFORMANCE STANDARDS

This report satisfies the first monitoring requirement for the site by documenting the as-built condition of the site and the results of the initial wetland monitoring event. Subsequent monitoring events are to be conducted annually at the end of the growing season for Years 1, 2, 3, 4, and 5, and yearly monitoring reports will be generated for each of the monitoring events. Annual monitoring reports will be completed within four weeks of each monitoring event. Performance standards, monitoring methods and maintenance and contingency procedures outlined in the WRP are summarized in the following sections.

5.1 Performance Standards

The following performance standards have been established for use in comparing the monitoring results for the Years 1 through 5. The performance standards do not apply however, to the results of the as-built monitoring event.

- Acceptable cover standards for native plants, summed across vegetation classes (native trees, shrubs, and/or native grasses/emergent vegetation), will be as follows:
  - 1st Year Monitoring Event: Minimum of 20 percent cover
  - 2nd Year Monitoring Event: Minimum of 40 percent cover
  - 3rd Year Monitoring Event: Minimum of 60 percent cover
  - 4th Year Monitoring Event: Minimum of 60 percent cover
  - 5th Year Monitoring Event: Minimum of 80 percent cover
- Invasive, exotic and undesirable species areal coverage shall be 10 percent or less after 5 years.
  - Years 1 through 5: 10 percent or less coverage of invasive, exotic or undesirable species

5.2 Monitoring Methods

Restoration area monitoring will include quantitative and qualitative data collection to measure the success of the restoration activities. A qualified biologist or restoration specialist will complete the Site monitoring.

A biologist or restoration specialist will make general observations on the condition of the Site (e.g., plant cover, density, survival and presence of naturally colonizing plants). In addition, wildlife sightings (e.g., bird, amphibian, reptile, and/or mammal) or signs of habitat use (e.g., scat, burrows, woodpecker damage, beaver sign) will be recorded during each monitoring event.

Restoration plant communities will be sampled along permanent vegetation transects. A minimum of two transects shall be established in Wetland A, and a minimum of one transect will be established in Wetlands B, C, and D. Transect locations and length were established during the as-built monitoring event as described in Section 6.0. For each subsequent monitoring event, restoration plantings will be visually evaluated to determine survival rate, health, and vigor along each of the established transects. Plants will be recorded as live, stressed, or dead/dying. Plant survival will be calculated in Years 1-5 by dividing the number of installed living plants by the number of initially installed plants (from this As-built Report).

Vegetation percent cover estimates will be made within circular quadrats (1-meter radius), along each transect. A minimum of 3 permanent quadrats will be established along each transect. The biologist will make visual estimates of percent cover of individual plant species present within each quadrat. Percent cover data shall be collected for installed native plants, volunteer plants (naturally recruited) and invasive species (e.g., Himalayan blackberry, reed canarygrass, Scot's broom, English ivy). Species coverage values will be summed to determine the total areal coverage in each quadrat.

5.3 Maintenance and Contingency Procedures

Maintenance and contingency actions shall include, but are not limited to irrigation, removal of noxious and invasive weeds, replacement of dead/dying plants or undesirable volunteer species, plant species substitution, application of repellents or browse control, addition of mulch, and weeding. Application of fertilizers after plant installation is not anticipated. If during a monitoring event, plants are observed to be stressed from lack of water, irrigation may be necessary.

6.0 AS-BUILT VEGETATION MONITORING RESULTS

An as-built monitoring event was completed at the Site on September 25, 2012 to establish monitoring locations and to record the baseline vegetation inventory data for use in future monitoring of the Site. In accordance with the WRP, the as-built monitoring event was completed within two weeks of completion of re-vegetation and wetland restoration activities at the Site.

6.1 Performance Monitoring Locations

Two transects, A1 and A2, measuring approximately 100 feet in length were established within Wetland A. Transects B1, C1 and D1, measuring approximately 32 feet, 20 feet and 67 feet in length were established in Wetland B, C and D respectively. The approximate location of the established transects is shown on Figure 3 and 4. The percent cover of emergent vegetation within Wetland C and Wetland D was estimated visually along each transect at transition points between species. For the as-built monitoring event, estimation of the percent plant cover within Wetland A and Wetland B was not required. Subsequent monitoring events will document the percent cover

of trees and shrubs along A1 and A2 and percent cover of shrubs along B1 by measurement of the average canopy diameter of each plant as it is inventoried.

To establish a baseline inventory for subsequent monitoring events, along transects A1, A2 and B1 a GeoEngineers biologist counted the installed native plants (trees/shrubs) and documented the approximate location of each plant along the transect. In addition, along transects C1 and D1 the biologist estimated percentage cover of emergent and herbaceous vegetation. A photographic record of as-built vegetation conditions at each transect is included in Appendix C.

The results of the 2012 baseline inventory are presented below in Table 5 and 6.

TABLE 5. BASELINE VEGETATION INVENTORY FOR WETLAND A & B TRANSECTS

Transect	Count of Installed Plants	Count of Dead Plants	Count of Stressed Plants	Number of Plants Replaced
A1	44	2	6	2
A2	47	1	3	1
B1	8	8	0	8

Along transect A1, of the 44 native plants observed, two were dead (salmonberry) and six were stressed (salmonberry and vine maple). The stressed plants were characterized by broken or browsed tops with regrowth at the base. Along transect A2, of the 47 plants observed, one was dead (twinberry) and three were stressed (twinberry and hardhack). Stressed plants had moderately desiccated leaves and some broken/browsed branches. Along transect B1, of the 8 native plants observed, eight were dead (hardhack) as evidenced by the presence of dry stems.

All dead plants observed at the Site during the as-built monitoring event were flagged and recorded. The flagged plants were replaced by Lovins Landscape, Inc. within four weeks of the as-built monitoring event. No species substitutions were made. A follow-up inspection by a GeoEngineers confirmed that the dead plants had been replaced and that the replacement plants were in satisfactory condition.

TABLE 6. BASELINE VEGETATION INVENTORY FOR WETLAND C & D TRANSECTS

Transect	Percent Cover of Emergent/ Herbaceous Species (%)	Percent Cover of Bluegrass/ Ryegrass (%)	Percent Cover of Clover (%)	Percent Cover of Reed Canary Grass (%)
C1	100	27	93	0
D1	100	94	2	3

Percent cover of emergent/herbaceous plant species along transects C1 and D1 is 100 percent. Apart from Kentucky bluegrass (*Poa pratensis*), plant species observed within Wetlands C and D

were not consistent with species specified in the wetland seed mix (Table 3). In addition, ryegrass (*Lolium perenne*) and clover (*Trifolium repens*), which were observed within Wetland C and D, were species specified in the upland seed mix (Table 4). Adjacent wetland areas to the north of the Site contain wetland emergent species such as soft rush (*Juncus effusus*) and small-fruit bulrush (*Scirpus microcarpus*). These species are expected to naturally spread into Wetlands C and D via seed dispersal and spreading rhizomes.

7.0 CONCLUSIONS

The wetlands area, buffer area, and grass/herb upland area impacted as the result of the completed cleanup actions at the Site were successfully restored as required by the WRP (GeoEngineers, 2011a) and USACE Nationwide Permit 38 No. NWS-2008-19 with the minor exceptions noted above. Multiple transects were established on Site in accordance the WRP (GeoEngineers, 2011a). An as-built monitoring event was completed to collect baseline data that will be used to determine compliance with the established performance standards throughout the monitoring period. All dead plants observed at the site during the as-built monitoring event were replaced.

8.0 LIMITATIONS

We have prepared this report for U.S. Army Corps of Engineers, and Port of Skagit and their authorized agents to document as-built re-vegetation and wetland restoration conditions at the Taxiway F Cleanup Action Project. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices for restoration as-built documentation in this area at the time this letter was prepared. The conclusions, recommendations, and opinions presented in this letter are based on our professional knowledge, judgment and experience. No warranty or other conditions, express or implied, should be understood.

9.0 REFERENCES

Cowardin LM, Carter V, Golet FC, and LaRoe ET, (1979). Classification of Wetland and Deep Water Habitats of the United States. Performed for Office of Biological Services, Fish and Wildlife Service, U.S. Department of the Interior, Washington, D.C.

GeoEngineers, Inc., (2011a), "Updated Wetland Restoration Plan, Port of Skagit County - Taxiway F Site, Skagit County, Washington." GEI File No. 5364-013-02, January 27, 2011.

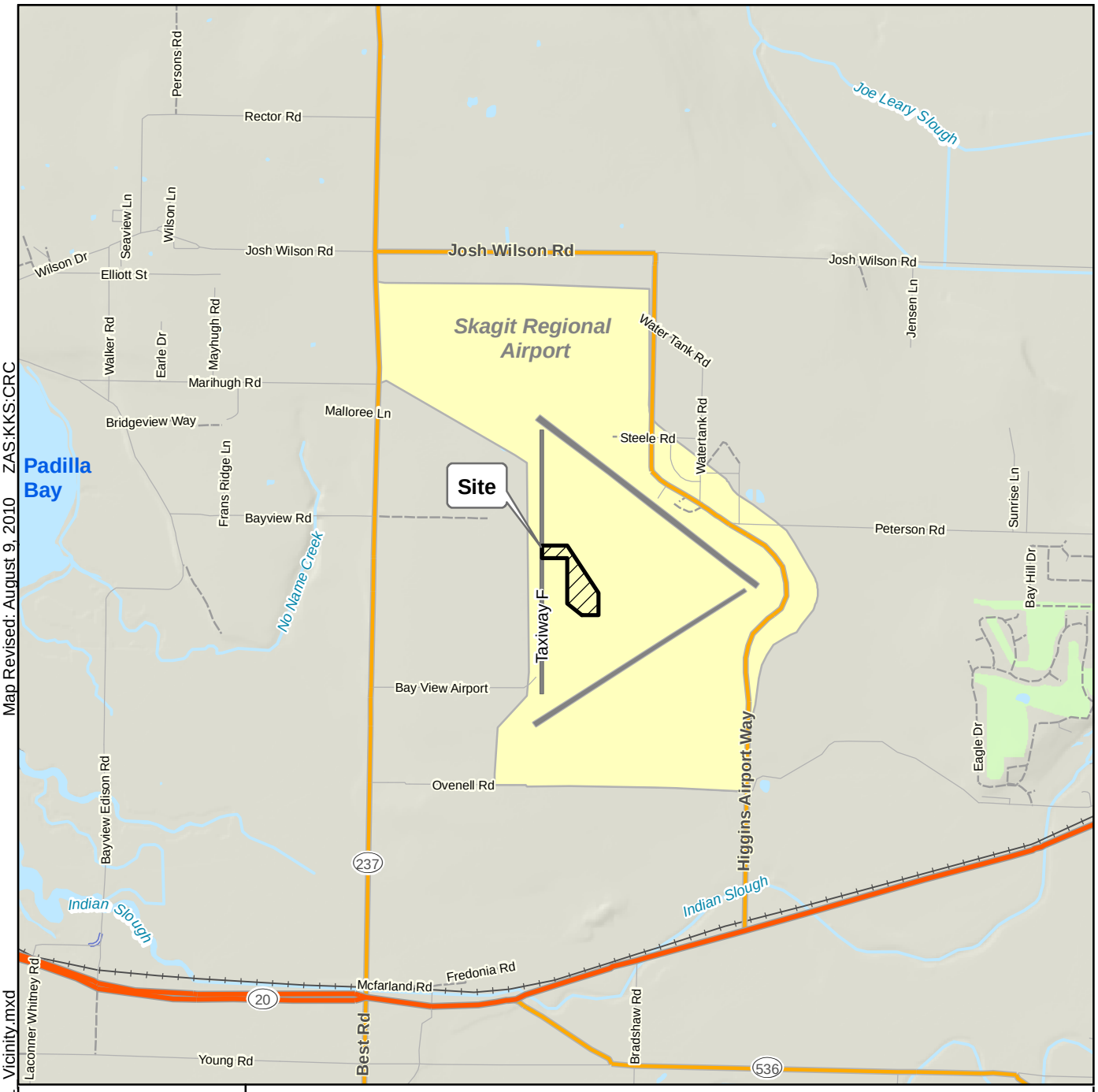
GeoEngineers, Inc., (2011b). "Cleanup Action Plan, Taxiway F Site, Skagit Regional Airport, Burlington, Washington." GEI File No. 5364-013-02, March 16, 2011.

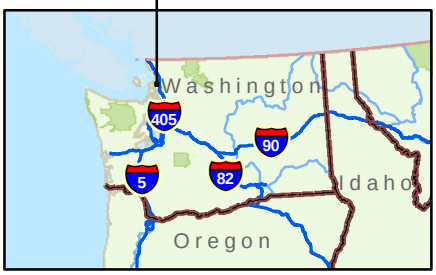
GeoEngineers, Inc., (2011c). "Final Engineering Design Report, Taxiway F Site, Skagit Regional Airport, Burlington, Washington." GEI File No. 5364-013-03, July 13, 2011.

Hart Crowser. 2007. Critical Areas Report – Wetlands. Port of Skagit County Farmers Supply/Tronsdale Site. Skagit County, Washington. Prepared for Port of Skagit County. Hart Crowser Project # 12053-18.

FIGURES

GeoEngineers





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Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. 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.
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Data Sources: ESRI Data & Maps, Street Maps 2005

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

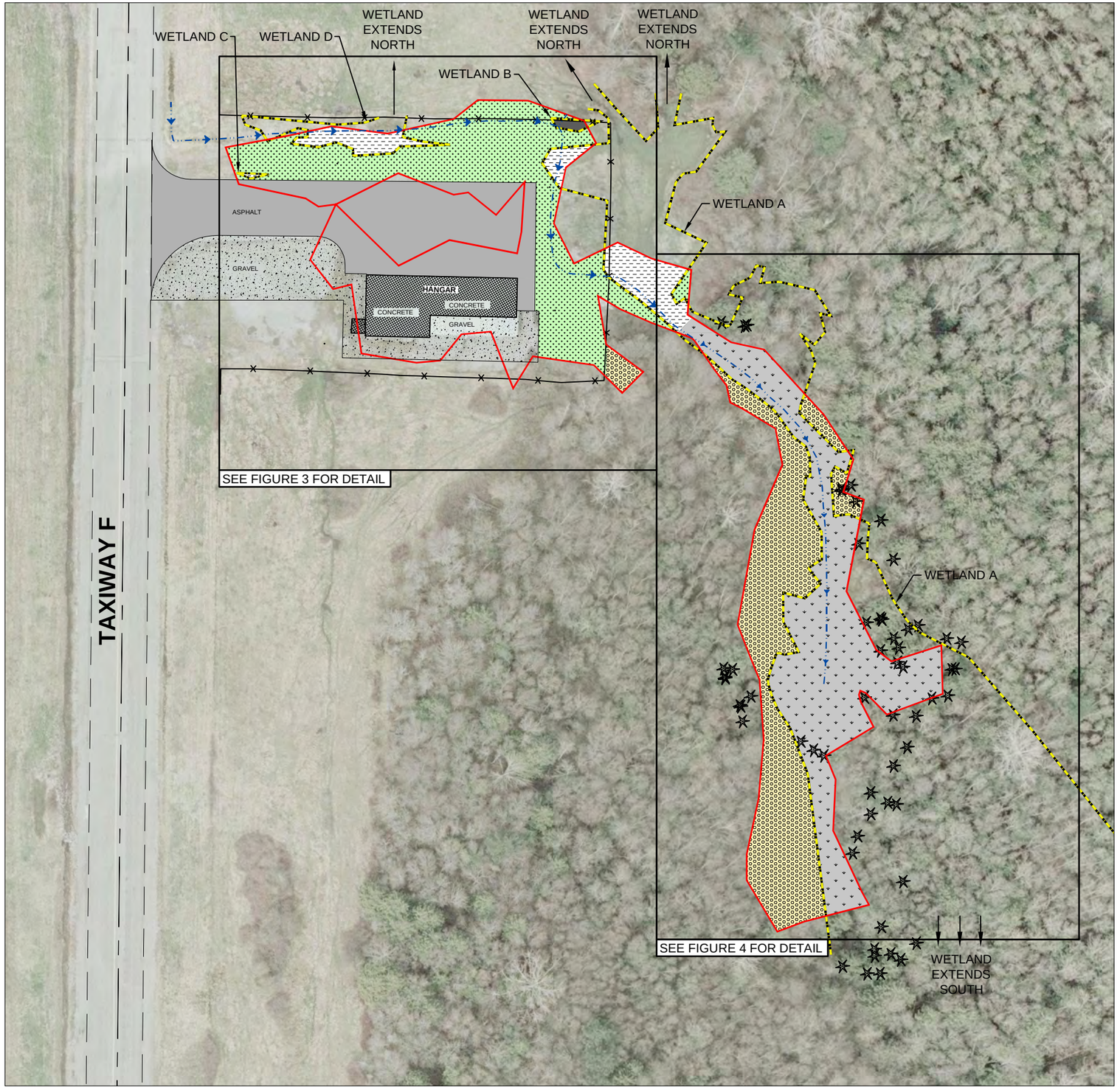
Vicinity Map

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



Legend

- Approximate Limits of Remedial Excavation and Restoration
- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Pre-Existing Mature Coniferous Trees (Preserved during cleanup action activities)
- Fence Line
- Drainage Channel (Approximate Rainwater Runoff Flow Direction)

Restoration Area

- Forested Wetland (25,519 sq ft)
- Emergent Wetland (5,716 sq ft)
- Scrub-Shrub Wetland (229 sq ft)
- Forested Buffer (21,888 sq ft)
- Grass / Herb Upland (Buffer and Non-Buffer) (24,454 sq ft)

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Notes

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

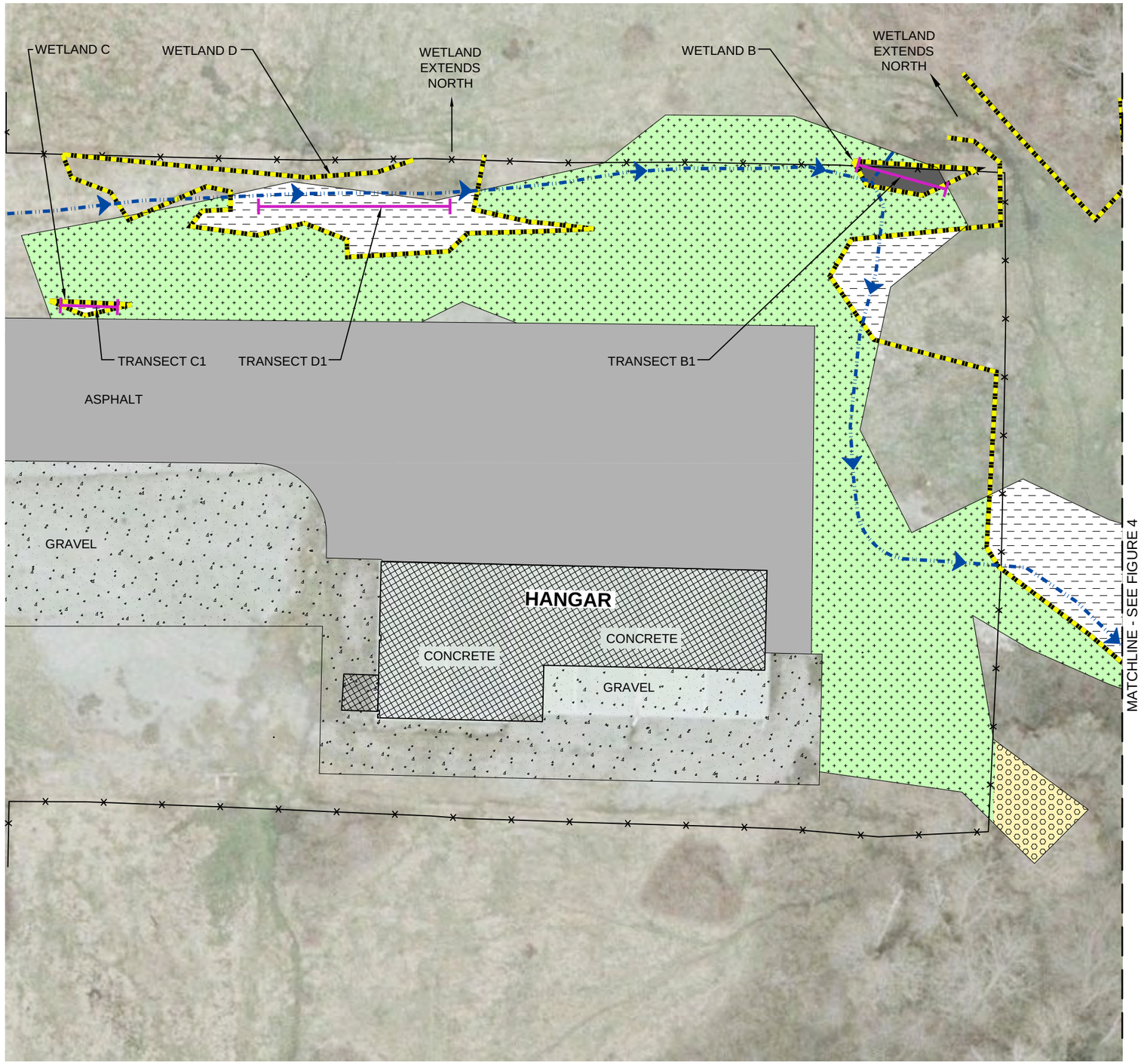
Re-Vegetation and Wetland Restoration As-Built Conditions

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 2

P:\15\53640\13\04\CAD\Wetland As-Built Report\53640304 Fig 2 Wetland Asbuilt.dwg\TAB:Fig 2 modified by THICHAUD on Nov 14, 2012 - 18:17



Legend

- Approximate Limits of Wetland Areas (Based on Hart Crowser 2007 Survey)
- Pre-Existing Mature Coniferous Trees (Preserved during cleanup action activities)
- Fence Line
- Drainage Channel (Approximate Rainwater Runoff Flow Direction)

Restoration Area

- Emergent Wetland
- Scrub-Shrub Wetland
- Forested Buffer
- Grass / Herb Upland (Buffer and Non-Buffer)

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Notes

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

Monitoring Locations - Wetlands B, C and D

Taxiway F Site
Burlington, Washington

GeoEngineers

Figure 3

P:\15\15364013\04\CAD\Wetland As-Built Report\15364013O4 Fig 3-4 Wetland Asbuilt.dwg\TAB:Fig 3 modified by TMichaud on Nov 14, 2012 - 18:16

MATCHLINE - SEE FIGURE 3

Legend

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

Pre-Existing Mature Coniferous Trees
(Preserved during cleanup action activities)

Drainage Channel
(Approximate Rainwater Runoff Flow Direction)

Restoration Area

Forested Wetland

Emergent Wetland

Forested Buffer

Grass / Herb Upland (Buffer and Non-Buffer)

TRANSECT A1

TRANSECT A2

WETLAND A

WETLAND
EXTENDS
SOUTH

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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. 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.

Monitoring Locations - Wetland A

Taxiway F Site
Burlington, Washington

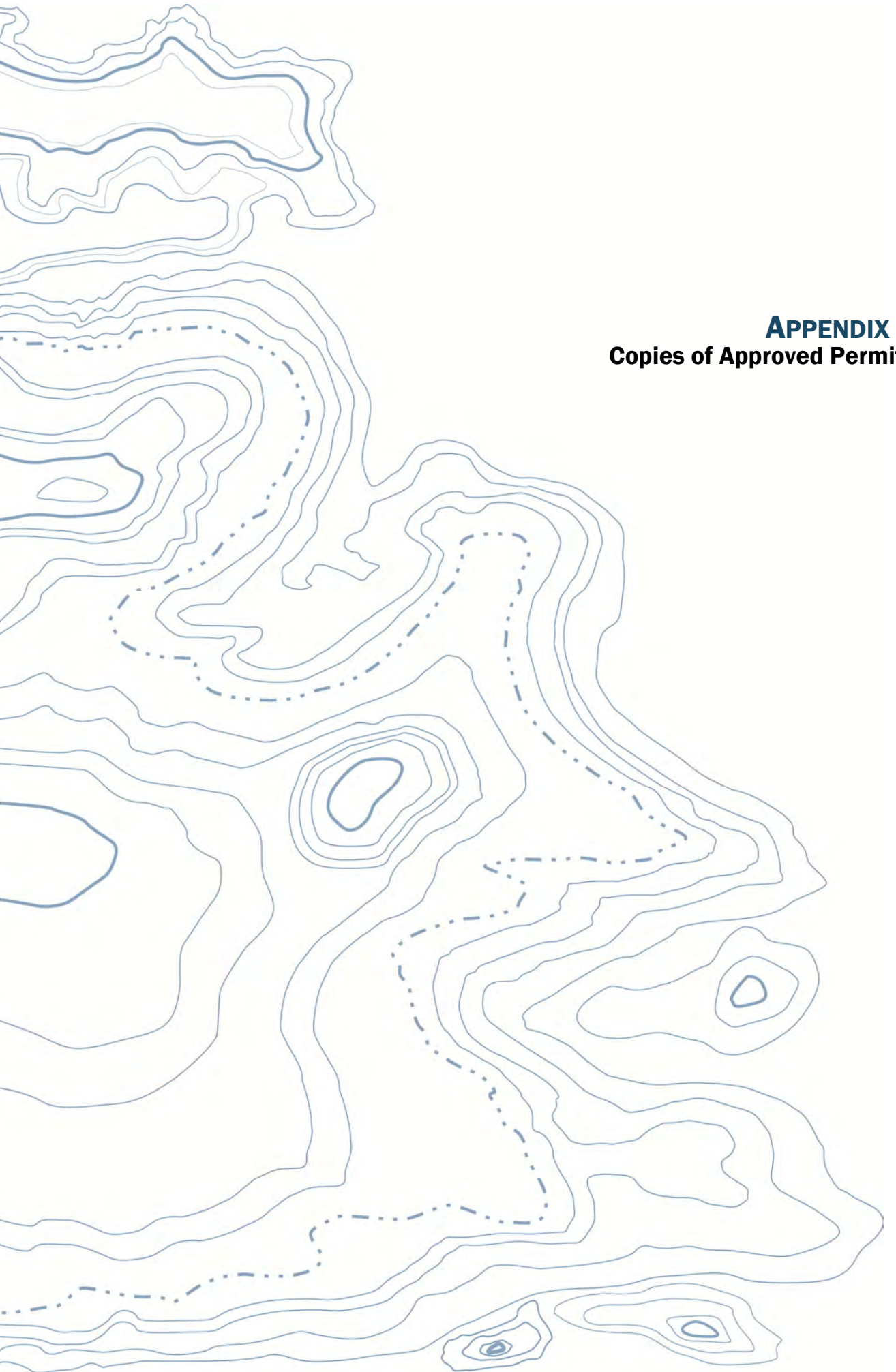
GeoEngineers

Figure 4

P:\1\15364013\04\CAD\Wetland As-built Report\15364013O4 Fig 3-4 Wetland Asbuilt.dwg\TAB:Fig 4 modified by tmichaud on Nov 14, 2012 - 18:13

APPENDICES

GeoEngineers



APPENDIX A
Copies of Approved Permits

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

REPLY TO
ATTENTION OF

JUL 17 2008

RECEIVED
JUL 21 2008
PORT OF SKAGIT COUNTY

Regulatory Branch

Port of Skagit County
Ms. Sara Young
Post office Box 348
Burlington, Washington 98233

Reference: NWS-2008-19-NO
Skagit County, Port of

Dear Ms. Young:

We have reviewed your application to excavate and place fill in wetlands near Burlington, Skagit County, Washington. Based on the information you provided to us, Nationwide Permit 38, *Cleanup of Hazardous and Toxic Waste* (Federal Register, March 12, 2007 Vol. 72, No. 47), authorizes your proposal to clean up contaminated sediments as depicted on the enclosed drawings dated June 2008. In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the enclosed *Nationwide Permit 38, Terms and Conditions* and the following special conditions:

a. The permittee must install and maintain sediment and erosion control during construction at the site and until the disturbed soil has been stabilized.

b. The permittee must implement the provisions of the document titled, "*Wetland Restoration Plan, Port of Skagit County Farmer's Supply/Tronsdale Site, Skagit County, Washington*," dated June 24, 2008 and the addendum (planting plan) dated July 7, 2008 in their entirety.

c. A status reports on the wetland and buffer remediation (restoration), including photos, must be submitted to the Corps, Seattle District, Regulatory Branch, 13 months from the date of permit issuance. All reports must be submitted to the Corps, Seattle District, Regulatory Branch and must prominently display the reference number NWS-2008-19-NO.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification and the Coastal Zone Management Act requirements for this NWP. No further coordination with Ecology is required for these requirements.

We have reviewed your project pursuant to the requirements of the Endangered Species Act (ESA) and the Magnuson-Stevens Fishery Conservation and Management Act in regards to Essential Fish Habitat (EFH). We have determined that this project complies with the requirements of NWP National General Condition regarding ESA and will not adversely affect EFH.

We have completed an approved jurisdictional determination for your project area which can be found on our website at http://www.nws.usace.army.mil/ click on Regulatory, Regulatory/Permits, Recent Jurisdictional Determinations. If you object to this determination, you may request an administrative appeal under our regulations 33 CFR 331 as described in the enclosed *Appeal Process Fact Sheet* and the *Notification of Administrative Appeal Options and Process and Request for Appeal* form.

Our verification of this NWP authorization is valid for 2 years from the date of this letter unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date, please contact us to discuss the status of your authorization. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act and/or Section 10 of the 1899 Rivers and Harbors Act. Also, you must obtain all State and local permits that apply to this project.

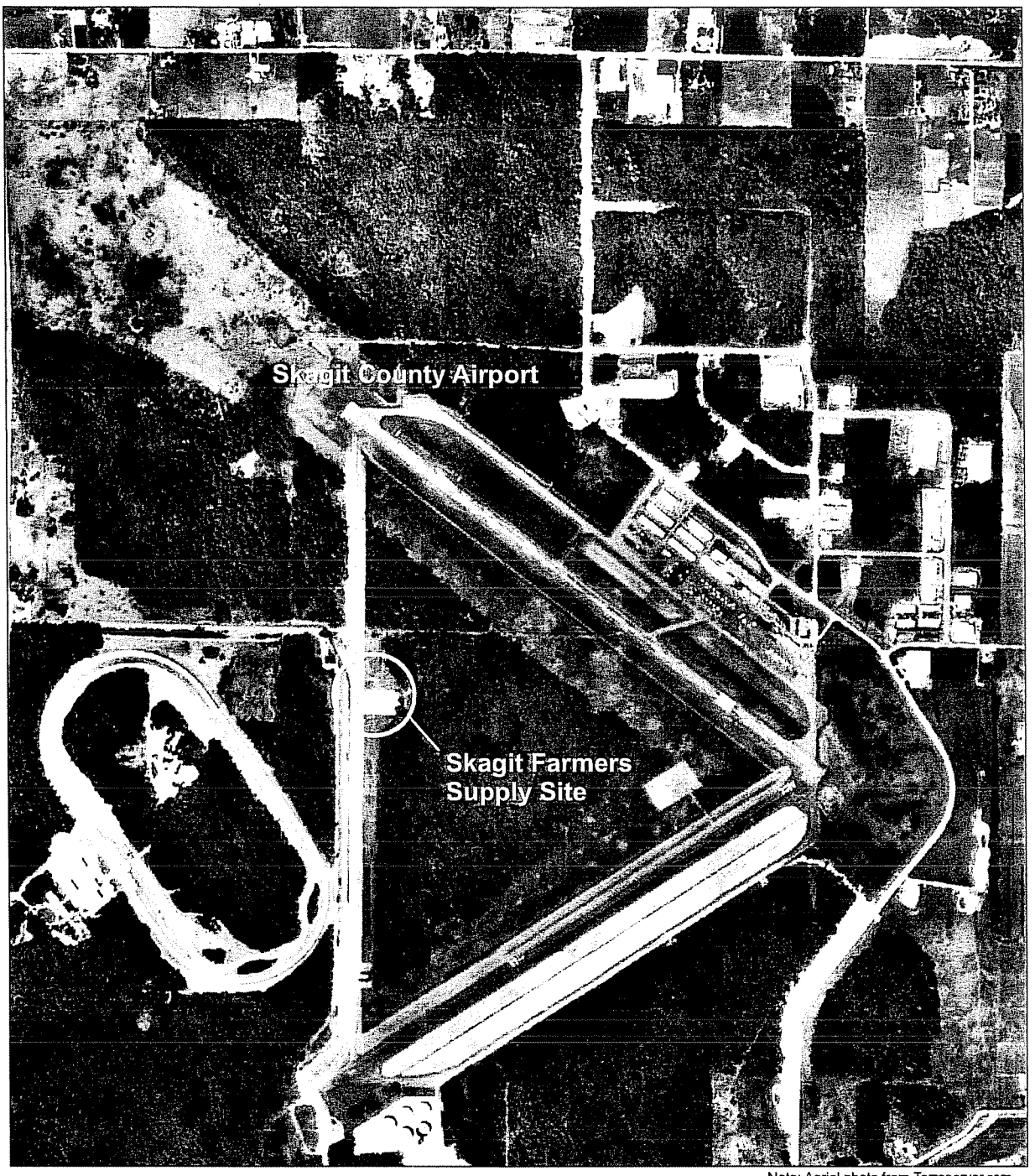
Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form. Thank you for your cooperation during the permit process. We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website.

A copy of this letter with enclosure will be furnished to Celina Abercrombie of Hart Crowser, Inc. at 120 3rd Avenue South, Suite 110, Edmonds, Washington 98020. If you have any questions about this letter, please contact me at (206) 764-6985 or via email at randel.j.perry@usace.army.mil.

Sincerely,

Randel Perry, Project Manager
Regulatory Branch

Enclosures



Note: Aerial photo from Terraserver.com

48° 28' 13.88"
122° 25' 46.55"

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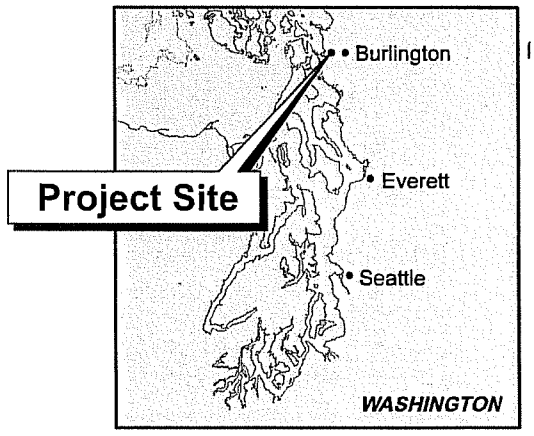
Approximate Scale in Feet



Former Skagit Farmers Supply Site
Burlington, Washington

Vicinity Map

12053-18 Corps Ref# NWS-2008-19-NO 6/08

HARTCROWSER

Figure 1 of 2

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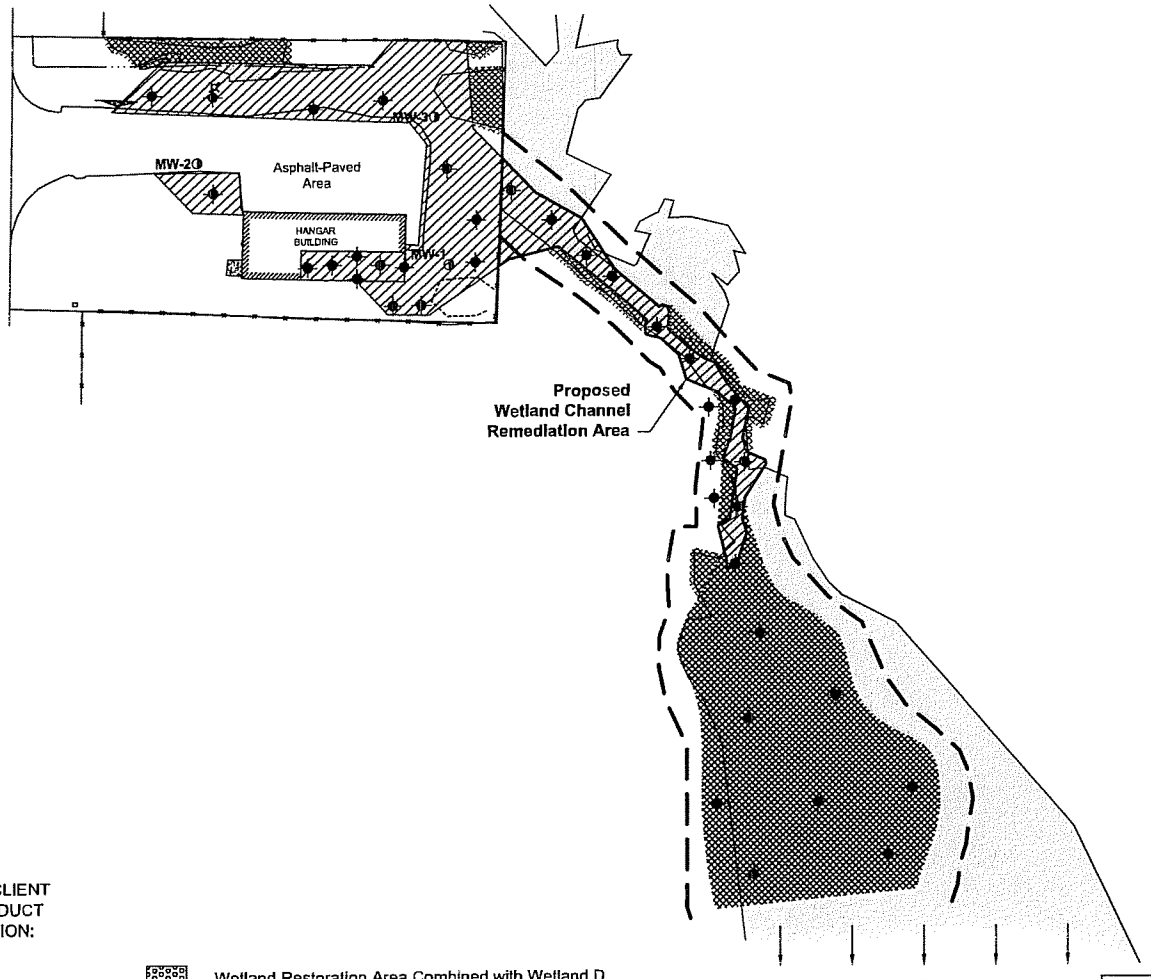


CONFIDENTIAL: PRIVILEGED ATTORNEY-CLIENT COMMUNICATION ATTORNEY WORK PRODUCT PREPARED IN ANTICIPATION OF LITIGATION: RESTRICTED DISTRIBUTION

MW-1 2004 Groundwater Monitoring Well Location and Number

Proposed Verification Sample Location

Additional Verification Sample Location

Wetland Restoration Area Combined with Wetland D

Original Planned Remediation Area

Additional Remediation Area

Wetland Area (Based on July 2007 Survey)

Expanded Remediation Area (to improve access and reduce risk)

Remediation Contingency Area

Note:

1. Refer to the Wetland Restoration Plan (Hart Crowser 2007) for additional wetland delineation information.
2. Monitoring wells MW-1, MW-2, and MW-3 to be abandoned.

Former Skagit Farmers Supply Site
Burlington, Washington

Facility Remediation Areas and Verification Sample Location Plan

12053-18 NWJ-7008-19-NO 6/08

HART CROWSER

Figure 2 of 2

EAL 06/23/08 1205318-023.dwg

US Army Corps
of Engineers
Seattle District

NATIONWIDE PERMIT 38
Terms and Conditions

Effective Date: September 10, 2007

A. Description of Authorized Activities

B. Corps National General Conditions for all NWPs

C. Corps Seattle District Regional General Conditions

D. Corps Regional Specific Conditions for this NWP

E. State 401 Certification General Conditions

F. State 401 Certification Specific Conditions for this NWP

G. EPA 401 Certification General Conditions

H. EPA 401 Certification Specific Conditions for this NWP

I. Spokane Tribe of Indians 401 Certification General Conditions

J. Tribal 401 Certification Specific Conditions for this NWP

K. CZM Consistency Response Specific Conditions for this NWP

L. Additional Limitations on the Use of NWPs

In addition to any special condition that may be required on a case-by-case basis by the District Engineer, the following terms and conditions must be met, as applicable, for a Nationwide Permit 38 authorization to be valid in Washington State.

A. DESCRIPTION OF AUTHORIZED ACTIVITIES

38. Cleanup of Hazardous and Toxic Waste. Specific activities required to effect the containment, stabilization, or removal of hazardous or toxic waste materials that are performed, ordered, or sponsored by a government agency with established legal or regulatory authority. Court ordered remedial action plans or related settlements are also authorized by this NWP. This NWP does not authorize the establishment of new disposal sites or the expansion of existing sites used for the disposal of hazardous or toxic waste.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity. (See general condition 27.) (Sections 10 and 404)

Note: Activities undertaken entirely on a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site by authority of CERCLA as approved or required by EPA, are not required to obtain permits under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act.

B. CORPS NATIONAL GENERAL CONDITIONS FOR ALL NWPs

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation. (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States. (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable

date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety.

15. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

16. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

17. Endangered Species. (a) No activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. (c) Non-federal permittees shall notify the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that may be affected by the proposed work or that utilize the designated critical habitat that may be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs. (e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their World Wide Web pages at *http://www.fws.gov/* and *http://www.noaa.gov/fisheries.html* respectively.

18. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied. (b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed, determined to be eligible for listing on, or potentially eligible for listing on the National Register of

Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed. (d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. (e) Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, explaining the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

19. Designated Critical Resource Waters. Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the district engineer after notice and opportunity for public comment. The district engineer may also designate additional critical resource waters after notice and opportunity for comment. (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, and 50 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. (b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 27, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

20. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal: (a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site). (b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal. (c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10 acre and require pre-construction notification, unless the district engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. For wetland losses of 1/10 acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, wetland restoration should be the first compensatory mitigation option considered. (d) For losses of streams or other

open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream restoration, to ensure that the activity results in minimal adverse effects on the aquatic environment. (e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2 acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2 acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs. (f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses. (g) Permittees may propose the use of mitigation banks, in-lieu fee arrangements or separate activity-specific compensatory mitigation. In all cases, the mitigation provisions will specify the party responsible for accomplishing and/or complying with the mitigation plan. (h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

21. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

22. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

23. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

24. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

25. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated

liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)

(Date)

26. Compliance Certification. Each permittee who received an NWP verification from the Corps must submit a signed certification regarding the completed work and any required mitigation. The certification form must be forwarded by the Corps with the NWP verification letter and will include: (a) A statement that the authorized work was done in accordance with the NWP authorization, including any general or specific conditions; (b) A statement that any required mitigation was completed in accordance with the permit conditions; and (c) The signature of the permittee certifying the completion of the work and mitigation.

27. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, as a general rule, will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity: (1) Until notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or (2) If 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 17 that listed species or critical habitat might affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 18 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) is completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee cannot begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information: (1) Name, address and telephone numbers of the prospective permittee; (2) Location of the proposed project; (3) A description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the project and when provided result in a quicker decision.); (4) The PCN must include a delineation of special aquatic sites and other waters of the United States on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters of the United States, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, where appropriate; (5) If the proposed activity will result in the loss of greater than 1/10 acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan. (6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the

PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and (7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level. (2) For all NWP 48 activities requiring pre-construction notification and for other NWP activities requiring pre-construction notification to the district engineer that result in the loss of greater than 1/2-acre of waters of the United States, the district engineer will immediately provide (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy of the PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (3) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (4) Applicants are encouraged to provide the Corps multiple copies of pre-construction notifications to expedite agency coordination. (5) For NWP 48 activities that require reporting, the district engineer will provide a copy of each report within 10 calendar days of receipt to the appropriate regional office of the NMFS.

(e) District Engineer's Decision: In reviewing the PCN for the proposed activity, the district engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. If the proposed activity requires a PCN and will result in a loss of greater than 1/10 acre of wetlands, the prospective permittee should submit a mitigation proposal with the PCN. Applicants may also propose compensatory mitigation for projects with smaller impacts. The district engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. The compensatory mitigation proposal may be either conceptual or detailed. If the district engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the district engineer will notify the permittee and include any conditions the district engineer deems necessary. The district engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the district engineer will expeditiously review the proposed compensatory mitigation plan. The district engineer must review the plan within 45 calendar days of receiving a complete PCN and determine whether the proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the district engineer to be minimal, the district engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP.

If the district engineer determines that the adverse effects of the proposed work are more than minimal, then the district engineer will notify the applicant either: (1) That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an individual permit; (2) that the project is authorized under the NWP subject to the applicant's submission of a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level; or (3) that the project is authorized under the NWP with specific modifications or conditions. Where the district engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period. The authorization will include the necessary conceptual or specific mitigation or a requirement that the applicant submit a mitigation plan that would reduce the adverse effects on the aquatic environment to the minimal level. When mitigation is required, no work in waters of the United States may occur until the district engineer has approved a specific mitigation plan.

28. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

C. Corps Seattle District Regional General Conditions

1. Aquatic Resources Requiring Special Protection. The following restrictions apply to activities in Washington State requiring Department of the Army authorization:

(a) Activities resulting in a loss of waters of the United States in a mature forested wetland, bog, bog-like wetland, aspen-dominated wetland, or alkali wetland are not authorized by NWP, except the following NWPs:

NWP 3 – Maintenance
NWP 20 – Oil Spill Cleanup
NWP 32 – Completed Enforcement Actions
NWP 38 – Cleanup of Hazardous and Toxic Waste
NWP 47 – Pipeline Safety Program Designated Time Sensitive Inspections and Repairs

(b) For activities in or affecting a mature forested wetland, bog, bog-like wetland, wetland in a dunal system along the Washington coast, vernal pool, aspen-dominated wetland, alkali wetland, camas prairie wetland, or marine water with eelgrass beds (except for NWP 48) *and not prohibited by the preceding general regional condition 1.a.*, the permittee must submit a pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 27 (Pre-Construction Notification).

2. Access. You must allow representatives of this office to inspect the authorized activity at any time deemed necessary to ensure that the work is being, or has been, accomplished in accordance with the terms and conditions of your permit.

3. Commencement Bay. Activities requiring Department of the Army authorization and located in the Commencement Bay Study Area are not authorized by the following NWPs:

NWP 12 – Utility Line Activities (substations)
NWP 13 – Bank Stabilization
NWP 14 – Linear Transportation Projects
NWP 23 – Approved Categorical Exclusions
NWP 29 – Residential Developments
NWP 39 – Commercial and Institutional Developments
NWP 40 – Agricultural Activities
NWP 41 – Reshaping Existing Drainage Ditches
NWP 42 – Recreational Facilities
NWP 43 – Stormwater Management Facilities

4. Bank Stabilization. All bank stabilization projects require pre-construction notification to the District Engineer in accordance with Nationwide Permit General Condition 27 (Pre-Construction Notification). Each notification must include a planting plan using native riparian plant species unless the applicant demonstrates that a planting plan is

not appropriate or not practicable. Each notification must also include the following information, except as waived by the District Engineer:

(a) Need for the work, including the cause of the erosion and the threat posed to structures, infrastructure, and/or public safety.

(b) Current and expected post-project sediment movement and deposition patterns in and near the project area.

(c) Current and expected post-project habitat conditions, including the presence of fish, wildlife and plant species in the project area.

(d) Demonstration that the proposed project incorporates the least environmentally damaging practicable bank protection methods. These methods include, but are not limited to, the use of bioengineering, biotechnical design, root wads, large woody debris, native plantings, and beach nourishment in certain circumstances. If rock must be used due to site erosion conditions, explain how the bank stabilization structure incorporates elements beneficial to fish.

(e) Assessment of the likely impact of the proposed work on upstream, downstream and cross-stream properties (at a minimum the area assessed should extend from the nearest upstream bend to the nearest downstream bend of the watercourse). Discuss the methodology used for determining effects.

NOTE: Information on designing bank stabilization projects can be found in the Washington Department of Fish and Wildlife's *Integrated Streambank Protection Guidelines* (*http://www.wdfw.wa.gov/hab/ahg/ispgdoc.htm*); King County's *Reconnaissance Assessment of the State of the Nearshore Ecosystem* (*http://dnr.metrokc.gov/wlr/watersheds/puget/nearshore/sonr.htm*); and three technical (white) papers – *Marine and Estuarine Shoreline Modification Issues*, *Ecological Issues in Floodplains and Riparian Corridors*, and *Over-Water Structures: Marine, Freshwater, and Treated Wood Issues* (*http://wdfw.wa.gov/hab/ahg/ahgwhite.htm*).

5. Cultural Resources and Human Burials. Permittees must immediately stop work and notify the District Engineer within 24 hours if, during the course of conducting authorized work, human burials, cultural resources, or historic properties, as identified by the National Historic Preservation Act, are discovered and may be affected by the work. Failure to stop work in the area of discovery until the Corps can comply with the provisions of 33 CFR 325 Appendix C, the National Historic Preservation Act, and other pertinent laws and regulations could result in a violation of state and federal laws. Violators are subject to civil and criminal penalties.

6. Essential Fish Habitat. An activity which may adversely affect essential fish habitat, as identified under the Magnuson-Stevens Fishery Conservation and Management Act (MSA), may not be authorized by NWP until essential fish habitat requirements have been met by the applicant and the Corps. Non-federal permittees shall notify the District Engineer if essential fish habitat may be affected by, or is in the vicinity of, a proposed activity and shall not begin work until notified by the District Engineer that the requirements of the essential fish habitat provisions of the MSA have been satisfied and the activity is authorized. The notification must identify the type(s) of essential fish habitat (i.e., Pacific salmon, groundfish, and/or coastal-pelagic species) managed by a Fishery Management Plan that may be affected. Information about essential fish habitat is available at *http://www.nwr.noaa.gov/*

7. Vegetation Protection and Restoration. Permittees must clearly mark all construction area boundaries before beginning work and minimize the removal of native vegetation in riparian areas and wetlands to the maximum extent practicable. Areas subject to temporary vegetation removal in wetlands or riparian areas during construction shall be replanted with appropriate native species by the end of the first planting season following the disturbance except as waived by the District Engineer.

D. Corps Regional Specific Conditions for this NWP: None

E. State 401 Certification General Conditions

1. For in-water construction activities. Individual 401 review is required under this condition for projects or activities authorized under NWPs that will cause, or be likely to cause or contribute to an exceedence of a State water quality standard (WAC 173-201A) or sediment management standard (WAC 173-204).
State water quality standards can be located on Ecology's website: http://www.ecy.wa.gov/programs/wq/swqs/.

Sediment management standards can be located on Ecology's website:
http://www.ecy.wa.gov/biblio/wac173204.html
Information is also available by contacting Ecology's Federal Permit staff.

2. Projects or Activities Discharging to Impaired Waters. Individual 401 review is required by this condition for projects or activities authorized under NWPs if the project or activity may result in further exceedences of a specific parameter the waterbody is listed for on the state's list of impaired waterbodies (the 303(d) list).
The current 303(d) listed waterbodies can be identified using search tools available on Ecology's website: *http://www.ecy.wa.gov/programs/wq/303d/2002/2002-index.html* or by contacting Ecology's Federal Permit staff.

3. Notification. For projects or activities that will require individual 401 review, applicants must provide Ecology with the written documentation provided to the Corps (as described in Corps Nationwide Permit General Condition 27, Pre-Construction Notification), including, when applicable:

(a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, any other Department of the Army permits used or intended to be used to authorize any part of the proposed project or any related activity.

(b) Delineation of special aquatic sites and other waters of the United States. Wetland delineations must be prepared in accordance with the current method required by the Corps and shall include Ecology's Wetland Rating form. *Note: Forms are available at Ecology's Wetlands website:*
http://www.ecy.wa.gov/programs/sea/wetlands/index.html or by contacting Ecology's Federal Permit staff.

(c) Coastal Zone Management Program "Certification of Consistency" Form if the project is located within a coastal county (Clallam, Grays Harbor, Island, Jefferson, King, Kitsap, Mason, Pacific, Pierce, San Juan, Skagit, Snohomish, Thurston, Wahkiakum, and Whatcom counties).
Note: Forms are available at the Army Corps of Engineers website: http://www.nws.usace.army.mil
or by contacting Ecology's Federal Permit staff.

(d) Other applicable requirements of Corps Nationwide Permit General Condition 27, Corps Regional Conditions, or notification conditions of the applicable NWP.

Ecology's review time shall not begin until the applicable documents noted above have been provided to Ecology and Ecology has received a copy of the final Nationwide Permit verification letter from the Corps.

4. Aquatic resources requiring special protection. Certain aquatic resources are unique, difficult-to-replace components of the aquatic environment in Washington State. Activities that would affect these resources must be avoided to the greatest extent possible. Compensating for adverse impacts to high value aquatic resources is typically difficult, prohibitively expensive, and may not be possible in some landscape settings.
Individual 401 review is required for activities in or affecting the following aquatic resources (and not prohibited by Regional Condition 1), except for:

NWP 20 – Oil Spill Cleanup
NWP 32 – Completed Enforcement Actions
NWP 38 – Cleanup of Hazardous Waste
NWP 47 – Pipeline Safety Program Repair

(a) Wetlands with special characteristics (as defined in the Washington State Wetland Rating Systems for western and eastern Washington, Ecology Publication #s04-06-025 and #04-06-015):

- estuarine wetlands
- Natural Heritage wetlands
- Bogs
- old-growth and mature forested wetlands
- wetlands in coastal lagoons
- interdunal wetlands
- vernal pools
- alkali wetlands

(b) Bog-like wetlands, aspen-dominated wetlands, camas prairie wetlands, and marine water with eelgrass beds (except for NWP 48).

(c) Category I wetlands

(d) Category II wetlands with a habitat score >29 points.

5. Mitigation. 401 Certification is based on adequate compensatory mitigation being provided for wetland and other water quality-related impacts of projects or activities authorized under the NWP Program.
Mitigation plans submitted for Ecology review and approval shall be based on the guidance provided in Wetland Mitigation in Washington State, Parts 1 and 2 (Ecology Publication #s06-06-011a and #06-06-011b) and shall, at a minimum, include the following:

(a) A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.

(b) The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded)

(c) The rationale for the mitigation site that was selected

(d) The goals and objectives of the compensatory mitigation project

(e) How the mitigation project will be accomplished, including proposed performance standards for measuring success and the proposed buffer widths

(f) How it will be maintained and monitored to assess progress towards goals and objectives. Monitoring will generally be required for a minimum of five years. For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.

(g) How the compensatory mitigation site will be legally protected for the long-term.

Refer to Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Ecology Publication #06-06-011b) for guidance on developing mitigation plans.
Ecology encourages the use of alternative mitigation approaches, including advance mitigation and other programmatic approaches, such as mitigation banks and programmatic mitigation areas at the local level. If you are interested in proposing use of an alternative mitigation approach, consult with the appropriate Ecology regional staff person. (see *http://www.ecy.wa.gov/programs/sea/wetlands/contacts.htm*)
For information on the state wetland mitigation banking program go to:
http://www.ecy.wa.gov/programs/sea/wetlands/mitigation/banking/index.html

6. Temporary Fills. Individual 401 review is required for any project or activity with temporary fill in wetlands or other waters of the State for more than 90 days, unless the applicant has received written approval from Ecology.

7. Mill Creek Special Area Management Plan. This condition applies to all NWPs within the boundaries described in the Mill Creek Special Area Management Plan (SAMP), King County, Washington, dated April 2000 (SAMP). The boundaries of the SAMP encompass all sub-basins and tributaries drained by Algona Creek, Auburn Creek, Bingaman Creek, Midway Creek, Mill Creek, and Mullen Slough. The area is bounded roughly on the south by 8th Avenue N in Algona and 4th Street NE in Auburn, on the east and north by the Ordinary High Water Mark of the Green River, and on the west by the plateau that parallels Interstate 5 above the Green River valley.

Individual 401 review is required for projects or activities authorized under the NWPs unless:

(a) The project or activity will result in fill-related impacts to only wetlands designated as developable under Alternative #8, as shown on Figure 4-8 of the SAMP.

(b) Compensatory mitigation for such impacts is onsite and/or within the areas designated on Figure 3-3, "Maximum Areas for Restoration by Target Habitat Type," in the SAMP Aquatic Resources Restoration Plan (April 2000).

(c) Mitigation plans comply with the requirements of the SAMP and, in general, with the guidance in the interagency Wetland Mitigation in Washington State (March 2006; Ecology publications #06-06-011a and #06-06-011b). Note: You can download the SAMP and Aquatic Resources Restoration Plan at *http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&pagename=Mill_Creek_SAMP*.

8. State Certification for PCNs not receiving 45-day response. In the event the U.S. Army Corps of Engineers does not respond to a complete pre-construction notification within 45 days, the applicant must contact Ecology for Individual 401 review.

F. State 401 Certification Specific Conditions for this NWP

Certified, subject to conditions. Individual 401 review is required for projects or activities authorized under this NWP if the project or activity is not authorized though a Model Toxics Control Act (MTCA) order or a Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) order.

G. EPA 401 Certification General Conditions

In order for any NWP authorization to be valid in Washington State, permittees must comply with all applicable 401 Certification general conditions. EPA 401 Certification general conditions apply to all NWP authorizations involving Section 404 activities on Native American Indian Tribal lands (excluding the tribal lands of the Chehalis Tribes, Port Gamble S'Klallum Tribe, Kalispel Tribe, Makah Indian Tribe, Puyallup Tribe, Spokane Tribe, and Tulalip Tribe) and Federal land with exclusive jurisdiction within Washington State.

A. Special Aquatic Sites. Any activities in the following types of wetlands and waters of the U.S. will need to apply for an individual 401 certification: Mature forested wetlands; bogs; bog-like wetlands; wetlands in dunal systems along the Washington coast; vernal pools; aspen-dominated wetlands; alkali wetlands; camas prairie wetlands; salt marshes; or marine water with eelgrass beds.

B. Soil Erosion and Sediment Controls. An individual 401 certification is based on the project or activity meeting established turbidity levels. EPA will be using as guidance the state of Washington's water quality standards [WAC 173-201a] and sediment quality standards [WAC 173-204]. Projects or activities that are expected to exceed these levels or that do exceed these levels will require an individual 401 certification.

C. Compliance with Stormwater Provisions. Individual 401 certification is required for projects or activities not designed in accordance with Ecology's most recent stormwater manual or Ecology approved equivalent manual.

D. Compliance with requirements of the National Pollutant Discharge Elimination System. For projects and activities requiring coverage under an NPDES permit, certification is based on compliance with the requirements of that permit. Projects and activities not in compliance with NPDES requirements will require individual 401 certification.

E. Projects or Activities Discharging to Impaired Waters. Individual 401 certification is required for projects or activities authorized under NWPs if the project will discharge to a waterbody on the list of impaired waterbodies (the 303(d) List) *and* the discharge may result in further exceedence of a specific parameter the waterbody is listed for.

EPA may issue 401 certification for projects or activities that would result in further exceedence or impairment if mitigation is provided that would result in a net decrease in listed contaminants or less impairment in the waterbody. This determination would be made during individual 401 certification review.

F. Notification. For projects requiring individual 401 certification, applicants must provide EPA with the same documentation provided to the Corps (as described in Corps National General Condition 27, Pre-Construction Notification), including, when applicable:

(a) A description of the project, including site plans, project purpose, direct and indirect adverse environmental effects the project would cause, any other U.S. Department of the Army permits used or intended to be used to authorize any part of the proposed project or any related activity.

(b) Delineation of special aquatic sites and other waters of the United States. Wetland delineations must be prepared in accordance with the current method required by the Corps.

(c) A statement describing how the mitigation requirement will be satisfied. A conceptual or detailed mitigation or restoration plan may be submitted.

(d) Other applicable requirements of Corps National General Condition 27, Corps Regional Conditions, or notification conditions of the applicable NWP.

A request for individual 401 review is not complete until EPA receives the applicable documents noted above and EPA has received a copy of the final authorization letter from the Corps providing coverage for a proposed project or activity under the NWP Program.

G. Mitigation. An individual 401 certification is based on adequate compensatory mitigation being provided for wetland and other water quality-related impacts of projects or activities authorized under the NWP Program. Mitigation plans submitted shall be based on the Joint Agency guidance provided in *Wetland Mitigation in Washington State, Parts 1 and 2* (Ecology Publication #06-06-011a and #06-06-011b) and shall, at a minimum, include the following:

1. A description of the measures taken to avoid and minimize impacts to wetlands and other waters of the U.S.
2. The nature of the proposed impacts (i.e., acreage of wetlands and functions lost or degraded).
3. The rationale for the mitigation site that was selected.
4. The goals and objectives of the compensatory mitigation project.
5. How the mitigation project will be accomplished, including proposed performance standards for measuring success and the proposed buffer widths.
6. How it will be maintained and monitored to assess progress towards goals and objectives. Monitoring will generally be required for a minimum of five years. For forested and scrub-shrub wetlands, 10 years of monitoring will often be necessary.
7. How the compensatory mitigation site will be legally protected for the long-term.

H. Temporary Fills. An individual 401 certification is required for any activity where temporary fill will remain in wetlands or other waterbodies for more than 90 days. The 90 day period begins when filling activity starts in the wetland or other waterbody.

H. EPA 401 Certification Specific Conditions for this NWP

Partially denied without prejudice. Individual 401 review is required for projects authorized under this NWP if the project or activities are not part of an EPA ordered cleanup.

I. Spokane Tribe of Indians 401 Certification General Conditions

Specific to the Reservation and the Tribal Water Quality Standards, the applicant must comply with the following when there could be a discharge to waters of the Spokane Indian Reservation:

1. The applicant shall be responsible for achieving compliance with the Spokane Tribal Water Quality Standards.

2. The applicant shall submit copies of applications materials to the Spokane Tribal Water Control Board for review and approval at the same time they are submitted to Army Corps of Engineers and prior to any disturbance activities.

3. The applicant shall comply with all Spokane Tribal Integrated Resource Management Plan (IRMP) guidelines for land use activities and disturbances.

4. The applicant shall allow the Tribal Water Control board and Interdisciplinary Team to inspect the area in question and adopt recommendations made throughout its operation.

5. Monitoring of the discharge shall occur at a level indicated by EPA and the Tribe, are subject to change, and shall be submitted to both entities.

J. Tribal 401 Certification Specific Conditions for this NWP

Denied without prejudice by the Chehalis, Kalispel, Makah, Port Gamble S'Klallum, Puyallup, and Tulalip tribes. Certified subject to general conditions by the Spokane Tribe.

K. CZM Consistency Response Specific Conditions for this NWP

Concur, subject to the following condition:

1. Where individual 401 review is triggered, an individual CZM Consistency Response must be obtained for projects located within the 15 coastal counties. A "Certification of Consistency" form must be submitted in accordance with State General Condition 3 (Notification).

L. ADDITIONAL LIMITATIONS ON THE USE OF NWPs

1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.

2. NWPs do not obviate the need to obtain other Federal, state, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project.

US Army Corps
of Engineers ®
Seattle District

Appeal Process Fact Sheet

27 April 2006

Our letter cites a Department of the Army administrative appeal rule for permit decisions and approved jurisdictional determinations that went into effect March 9, 1999. In accordance with this rule, we have included a *Notification of Administrative Appeal Options and Process and Request for Appeal* form of which Section I is the Notification of Appeal Process (NAP) fact sheet and Section II is the Request for Appeal (RFA) form.

If a permit decision was made, you may decline to accept a permit if you object to any of the terms or conditions, ***and*** you believe that these terms or conditions are based on procedural errors; incorrect data; omission of fact; incorrect application of current Federal manual or guidance associated with wetlands; or incorrect application of a law, regulation, or policy that governs our permit program. Once you accept the permit, you waive the right to further appeal unless we later modify the permit.

If you object to this permit decision or jurisdictional determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. As stated previously, enclosed you will find a *Notification of Appeal Options and Process and Request for Appeal* form. If you request to appeal this determination, you must submit a completed RFA form to the Division Engineer at the following address:

Division Engineer
U.S. Army Corps of Engineers, Northwest Division
Karen Kochenbach, Regulatory Program Manager
Post Office Box 2870
Portland, Oregon 97208-2870
Telephone: (503) 808-3888

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by the 60th day. "Day 1" is designated as the date of the NAP form. "Day 60" is designated as the 60th calendar day after the date of the NAP form, with the official counting of calendar days beginning on "Day 1" as designated above. When "Day 60" is a traditional non-working day (e.g., a holiday or a weekend), the 60 day timeframe is extended to the next business day. Our Division Office has 90 days to resolve the appeal with you once your completed and acceptable NAO-RFA form has been received.

It is not necessary to submit an RFA form to the Division office if you do not object to the decision or determination in our letter.

If you have any questions about your options or the appeal process in general, please contact the project manager indicated on the form.

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Port of Skagit County	File Number: NWS-2008-19-NO	Date: JUL 17 2008
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
x	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
Randel Perry, Project Manager U.S. Army Corps of Engineers, Seattle District Post Office Box 3755 Seattle, Washington 98124-3755 Telephone: (206) 764-6985	Division Engineer U.S. Army Corps of Engineers, Northwest Division Karen Kochenbach, Regulatory Program Manager Post Office Box 2870 Portland, Oregon 97208-2870 Telephone: (503) 808-3888

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

REPLY TO
ATTENTION OF

Regulatory Branch

RECEIVED
JUL 22 2010
PORT OF SKAGIT COUNTY

July 20, 2010

Ms. Sara Young
Port of Skagit County
Post office Box 348
Burlington, Washington 98233

Reference: NWS-2008-19
Skagit County, Port of

Dear Ms. Young:

In your correspondence dated July 15, 2010, you requested a time extension to the referenced Nationwide Permit (NWP) 38 verification issued to you on July 17, 2008. The work authorized by NWP 38 involves excavation and the placement of fill in wetlands to clean up contaminated sediments. The work will occur in wetlands near Burlington, Skagit County, Washington.

We have reviewed your time extension request and verified that NWP 38 authorizes this project under current regulations. In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the previously approved plans dated June 2008. You are cautioned that any change in project plans will require that you submit a copy of the revised plans to this office and obtain our approval before you begin work.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 18, 2012. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before March 18, 2012, you will have until March 18, 2013 to complete the activity under the present terms and conditions of this NWP.

Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. Also, you must obtain all State and local permits that apply to this project. All other terms and conditions contained in the original NWP verification remain in full force and effect.

If you have any questions about this letter, please contact me at (360) 734-3156 or via email at randel.j.perry@usace.army.mil.

Sincerely,

Randel J. Perry

Randel Perry, Project Manager
Regulatory Branch

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

REPLY TO
ATTENTION OF

Regulatory Branch

February 15, 2011

Port of Skagit County
Ms. Sara Young
Post office Box 348
Burlington, Washington 98233

Reference: NWS-2008-19
Skagit County, Port of

Dear Ms. Young:

In correspondence dated January 27, 2011, your agent, Ms. Fiona McNair, requested a modification to the referenced Nationwide Permit (NWP) 38 verification issued to you on July 17, 2008 and re-verified on July 20, 2010. The work authorized by NWP 38 involves excavation and the placement of fill in wetlands to clean up contaminated sediments. The work will occur in wetlands near Burlington, Skagit County, Washington.

We have reviewed your request and verified that NWP 38 authorizes this project under current regulations. In order for this NWP authorization to be valid, you must ensure that the work is performed in accordance with the enclosed approved modified plans dated January 14, 2011 and in accordance with the following modified special conditions "b" and "c":

b. The permittee must implement the provisions of the document titled, "*Updated Wetland Restoration Plan, Port of Skagit County – Taxiway F Site, Skagit County, WA*," dated January 27, 2011 in their entirety.

c. A status reports on the wetland and buffer remediation (restoration), including photos, must be submitted to the Corps, Seattle District, Regulatory Branch, 13 months from the date of this reverification. All reports must be submitted to the Corps, Seattle District, Regulatory Branch and must prominently display the reference number NWS-2008-19.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 18, 2012. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before March 18, 2012, you will have until March 18, 2013 to complete the activity under the present terms and conditions of this NWP.

Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. Also, you must obtain all State and local permits that apply to this project. All other terms and conditions contained in the original NWP verification remain in full force and effect.

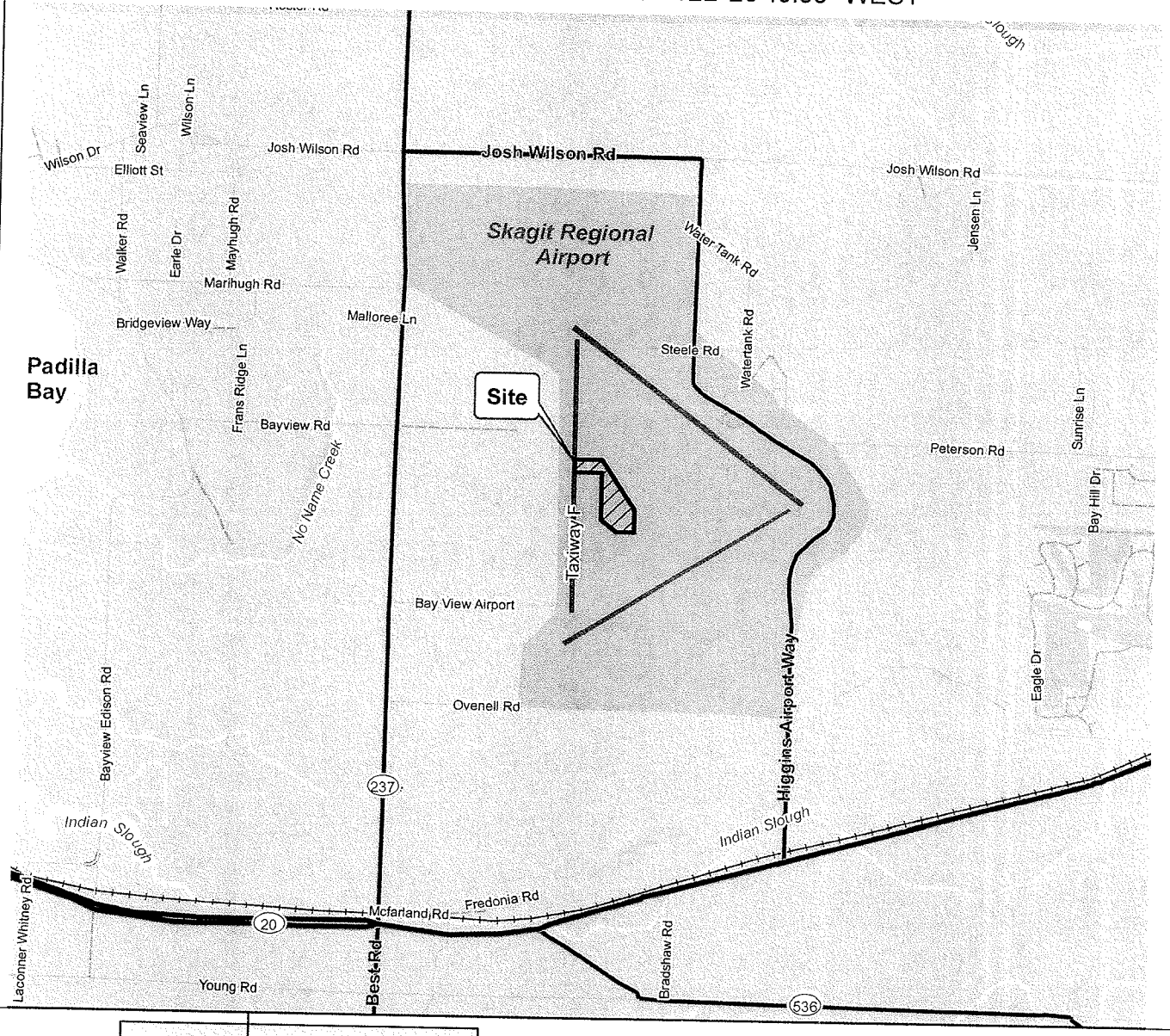
A copy of this correspondence with enclosures will be provided to Ms. Fiona McNair of GeoEngineers, Inc. at 600 Stewart Street, Suite 1700, Seattle, WA 98101. If you have any questions about this letter, please contact me at (360) 734-3156 or via email at randel.j.perry@usace.army.mil.

Sincerely,

Randel Perry, Project Manager
Regulatory Branch

SEC. 4, T34N, R03E, W.M.

LOG.: 48°28'13.85" NORTH - LAT.: 122°25'46.38" WEST



REFERENCE: ESRI DATA & MPAS, STREET MAPS 2005

P:\15538401302\CAD\JARPA\538401302 JARPA Figs.dwg\TAB:VM modified by tmichaud on Jan 13, 2011 - 10:18

OFFICE.SEA

PURPOSE:

REMOVE CONTAMINATED SOIL, PLACE BACKFILL AND RESTORE. REVERIFICATION OF PERMIT (NWS-2008-19-~~NE~~)

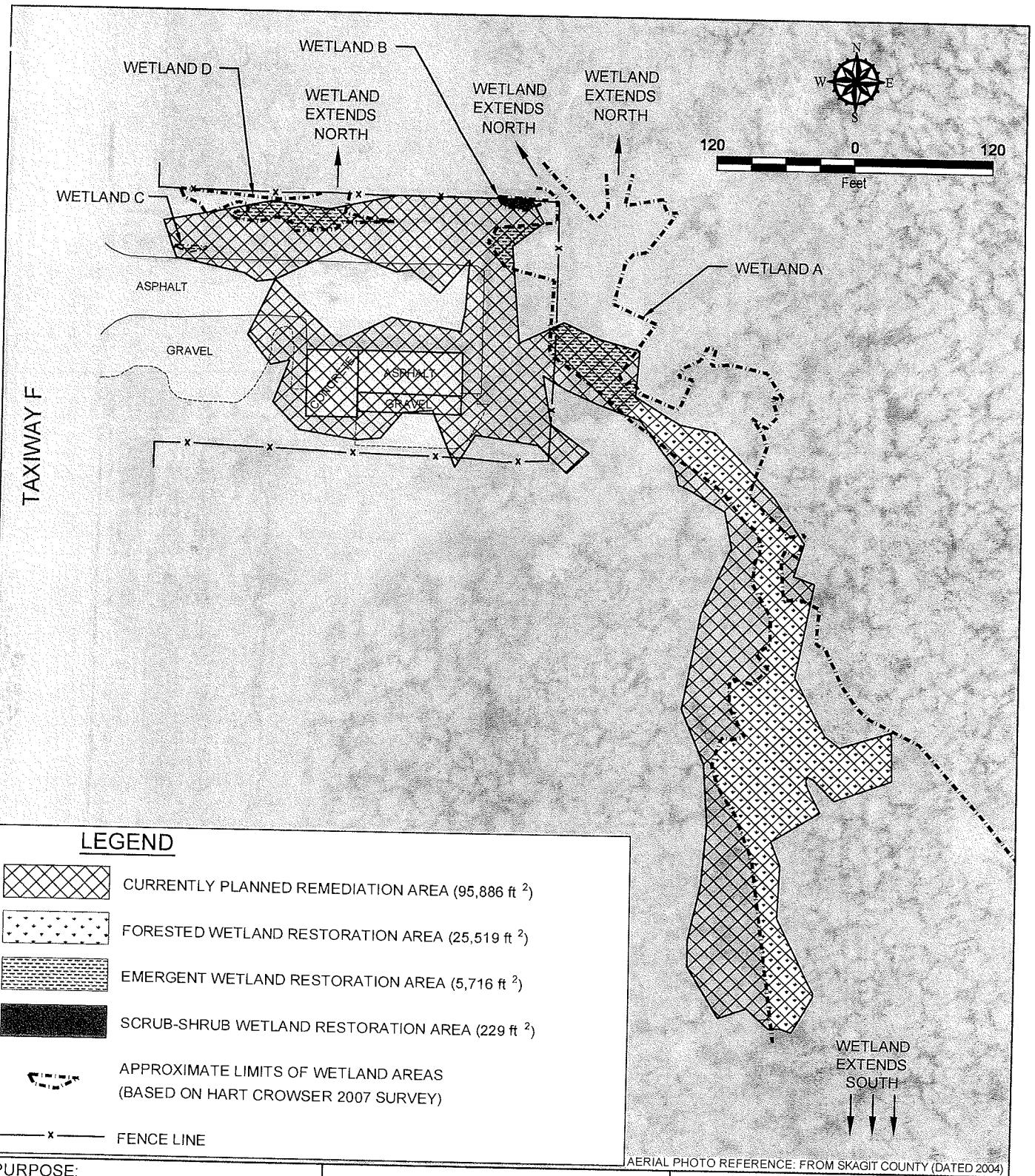
ADJACENT PROPERTY OWNERS:

1. PORT OF SKAGIT COUNTY

VICINITY MAP

TAXIWAY F SITE
SKAGIT COUNTY, WA

IN: SKAGIT COUNTY
COUNTY OF: SKAGIT
STATE OF: WASHINGTON
APPLICATION BY:
PORT OF SKAGIT COUNTY
SHEET: 1 of 3
DATE: 01/14/11
CREATED BY: GEOENGINEERS, INC.



AERIAL PHOTO REFERENCE: FROM SKAGIT COUNTY (DATED 2004)

P:\153640131021CAD\JARPA\53640131302 JARPA Sheet 3.dwg\TAB:Site Plan modified by cvanslyke on Jan 18, 2011 - 12:04

OFFICE:SEA

PURPOSE:

REMOVE CONTAMINATED SOIL, PLACE BACKFILL AND RESTORE. REVERIFICATION OF PERMIT (NWS-2008-19-[illegible])

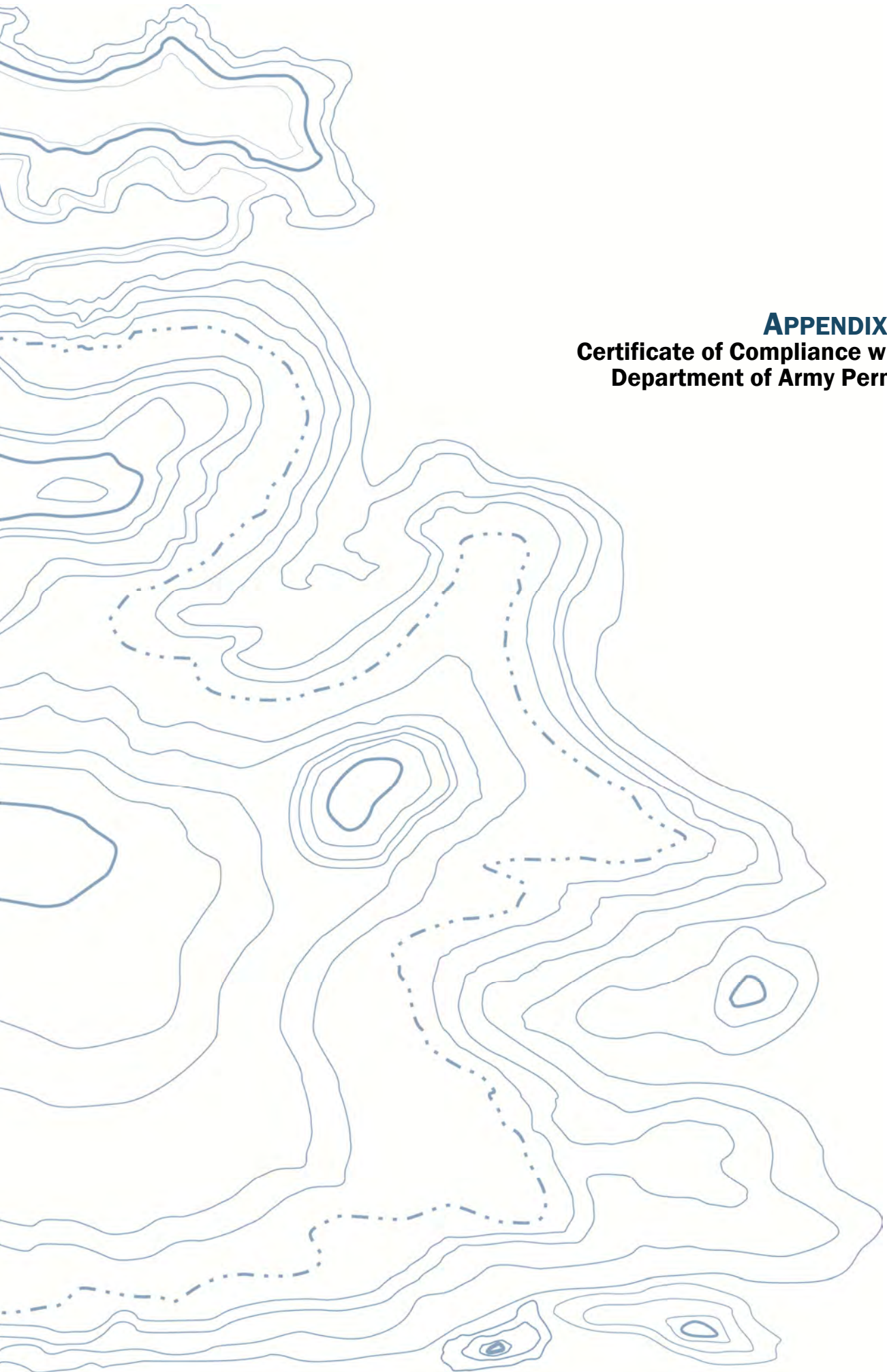
ADJACENT PROPERTY OWNERS:

1. PORT OF SKAGIT COUNTY

SITE PLAN
WETLAND RESTORATION AREAS

TAXIWAY F SITE
SKAGIT COUNTY, WA

IN: SKAGIT COUNTY
COUNTY OF: SKAGIT
STATE OF: WASHINGTON
APPLICATION BY:
PORT OF SKAGIT COUNTY
SHEET: 3 of 3
DATE: 01/14/11
CREATED BY: GEOENGINEERS, INC.



APPENDIX B
Certificate of Compliance with Department of Army Permit

US Army Corps
of Engineers
Seattle District

CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT

Permit Number: NWS-2008-19-NO

Name of Permittee: Port of Skagit County

Date of Issuance: Letter acknowledging coverage under Nationwide Permit 38 issued on July 17, 2008. Permit extension letter issued on July 20, 2010. Permit re-verification letter issued on February 15, 2011.

Upon completion of the activity authorized by this permit, please check the applicable boxes below, sign this certification, and return it to the following address:

Department of the Army
U.S. Army Corps of Engineers
Seattle District, Regulatory Branch
Post Office Box 3755
Seattle, Washington 98125-3755

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of your authorization, your project is subject to suspension, modification, or revocation.

☐ The work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.

☑ The mitigation required (not including monitoring) by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.

Signature of Permittee

APPENDIX C
Photographic Record

Photograph 1 – As-built vegetation condition at Transect A1

Photograph 2 – As-built vegetation condition at Transect A2

Photograph 3 – As-built vegetation condition at Transect B1

Photograph 4 – As-built vegetation condition at Transect C1

Photograph 5 – As-built vegetation condition at Transect D1

ATTACHMENT 1
Construction Stormwater General Permit Documents

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

COPY

September 28, 2011

Darren Ness
Clearcreek Contractors Inc
3203 15th St
Everett, WA 98201

RE: Transfer of coverage under the Construction Stormwater General Permit

Permit number:	**WAR-124975**
Site Name:	**Taxiway F Site Skagit Regional Airport EAO 6158**
Location:	**3200 East of Farm-to-Market Rd**
	Burlington Skagit
Disturbed Acres:	**2.2**

Dear Mr. Ness:

The Washington Department of Ecology (Ecology) received your Transfer of Coverage form for coverage under the Construction Stormwater General Permit. This letter notifies you that our records have been updated to show Clearcreek Contractors Inc as responsible for permit coverage effective September 19, 2011. **Please retain this transfer of permit coverage letter with your permit (enclosed), stormwater pollution prevention plan (SWPPP), and site log book. These materials are the official record of permit coverage for your site.**

Please take time to read the entire permit and contact Ecology if you have any questions.

Appeal Process
You have a right to appeal coverage under the general permit to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this letter. This appeal is limited to the general permit's applicability or non-applicability to a specific discharger. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal, you must do the following within 30 days of the date of receipt of this letter:

- File your appeal and a copy of the permit cover page with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and the permit cover page on Ecology in paper form - by mail or in person (see addresses below). E-mail is not accepted.

You must also comply with other applicable requirements in chapter 43.21B RCW and chapter 371-08 WAC.

Address and Location Information:

Street Addresses:	**Mailing Addresses:**
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	Department of Ecology Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board (PCHB) 1111 Israel Road SW, Suite 301 Tumwater, WA 98501	Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903

Electronic Discharge Monitoring Reports (WAWebDMR)
This permit requires that Permittees submit monthly discharge monitoring reports (DMRs) electronically using Ecology's secure online system, WAWebDMR. To sign up for WAWebDMR go to: www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html. If you have questions, contact Tonya Wolfe at (360) 407-7097 (locally), or (800) 633-6193/option 3, or email WAWebDMR@ecy.wa.gov.

Ecology Field Inspector Assistance
If you have questions regarding stormwater management at your construction site, please contact Kurt Baumgarten of Ecology's Bellingham Field Office at (360) 715-5210, or kurt.baumgarten@ecy.wa.gov.

Questions or Additional Information
Ecology is committed to providing assistance. Please review our web page at: www.ecy.wa.gov/programs/wq/stormwater/construction/. If you have questions about the construction stormwater general permit, please contact Shawn Hopkins at (360) 407-6442, or shawn.hopkins@ecy.wa.gov.

Sincerely,

Bill Moore, P.E.
Program Development Services, Section Manager
Water Quality Program

Enclosure

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

RECEIVED
NOV 13 2012
By

November 8, 2012

Darren Ness
Clearcreek Contractors, Inc.
3203 - 15th Street
Everett, WA 98201

Dear Mr. Ness:

RE: **Notice of Termination of Coverage under the Stormwater General Permit for Construction Activity**

Permit Number:	**WAR124975**
Site Name:	Taxiway F Skagit Regional Airport EAO 6158
Location:	3200 East of Farm to Market Road Burlington, WA (Skagit County)
Disturbed Acres:	2.2

The Washington Department of Ecology has reviewed your Notice of Termination (NOT) of coverage under the Construction Stormwater General Permit for the construction site shown above. Based upon the NOT, we are terminating your coverage under the permit as of October 3, 2012, the date we received the NOT, for the following reason:

> *The site has undergone final stabilization, all temporary BMPs have been removed, and all stormwater discharges associated with construction activity have been eliminated. (Section S10-A1)*

Please ensure that you retain the Stormwater Pollution Prevention Plan (SWPPP) and copies of the application, inspection reports, and all other reports required by this permit for at least three years after the date of final stabilization of the construction site. These documents need to be available to Ecology and to the local government agencies with jurisdiction, upon request.

As required by State law (RCW 90.48.465), Ecology charges a fee for its discharge permits. Although your permit coverage is terminated, you will receive a bill for the period the permit was effective.

If you would like more information on the fee process, please contact Bev Poston at (360) 407-6425 or send email to bpos461@ecy.wa.gov.

If you have any questions regarding the termination process, please contact Shawn Hopkins at (360) 407-6442 or send email to shop461@ecy.wa.gov.

Sincerely,

Dewey Weaver (Acting for Bill Moore)

Bill Moore, P.E., Manager
Program Development Services Section
Water Quality Program

cc: Bev Poston, Ecology/Water Quality Program/Fees
Shawn Hopkins, Ecology/Water Quality Program

ATTACHMENT 2
Road Access Permit

RD #31010

AC# 11-0051 Access Fee 397.69 Address Fee ___ Rcvd By CT Paid 397.69 Credit Card

Access and Address Application

RETURN FORMS TO: Skagit County Planning & Development Services
1800 Continental Place• Mount Vernon, WA 98273
Phone: (360) 336-9410 • Fax: (360) 336-9416

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SEP 17 2010
Planning & Development Services
Skagit County

Parcel ID #: 21099 21100 Lot #: ~ Assessor Tax #: 340304 - 0 - 003 - 0000

City: Mount Vernon & Burlington Plat #: ~ Section 4 Township 34N Range 03E

Applicant
This is the person who is submitting application.

Clearcreek Contractors, Inc.
Name
3203 15th Street — Address — Everett, — City — WA — State — 98201 — Zip Code
425.252.5800 — Phone (Required) — 425.252.1093 — Fax — DarrenN@clearcreekcon.com — e-mail address

Owner
This is the person who is the current owner of record.

Port of Skagit
Name
15400 Airport Drive — Address — Burlington, — City — WA — State — 98233 — Zip Code
360.757.0011 — Phone (Required) — 360.757.0014 — Fax — sara@portofskagit.com — e-mail address

COUNTY ROAD ACCESS

Access from: ☒ County - # 31010 ☐ State - #_____ ☐ Private*

If your access has already been approved, please attach a copy

Requesting access for: ☐ Single Family Residence ☐ Multi-Family ☐ Commercial ☐ Temporary ☐ Double
☐ Short Plat ☐ Plat ☐ Common Approach ☐ Access Change** ☒ Other: Improvements to existing paved access

Requesting an access from *(County Road Name)*: Farm to Market Road

County road is accessed from the (Circle one): (N) (S) (E) (W) side of the road. Flagged access: ☒ Yes ☐ No

If this access is in conjunction with a building or grading permit: Permit #: ~ Permit Type: ~

Access permits are not required on private roads** ** **A change in access may require a change in address

ADDRESS

Existing

Does your property have multiple or abandoned driveways? ☐ Yes (indicate on site plan) ☐ No

Requesting an address on *(Road Name)*: _____

List existing addresses: _____

Purpose for this address (check all that apply): ☐ New House ☐ New Manufactured Home ☐ Shop ☐ Barn
☐ Duplex/Triplex ☐ Special Use Residence ☐ Accessory Dwelling ☐ Utility (electric, communication tower, etc.)
☐ Storage Building ☐ Commercial Building ☐ Multi-Building Complex ☐ Multi-Family Dwelling ☐ Multi-Level
☐ Recreational Lot ☐ Access Change ☐ Additional Address ☐ Other_____

Number of existing structures (please describe): _____

Reviewed by Addressing: _____ Date Rcvd: _____ Is address assignment required? Yes ☐ No ☐

ASSIGNED ADDRESS NUMBER (applicant should contact Postmaster to verify City and Zip)

_____
(Street Address)

Fire District_____ Road Number_____ Zip _____

Comments_____

Applicant: Do not write on this page. For office use only.

Skagit County Road Access
Supervisor's/Inspector's Report:

A) Maintenance District_____ Inspection date: 9/12/11 Inspector: R.A

Recommended Access Permit Be: (X) Granted ( ) Denied

B) ( ) Single Family ( ) Multi-Family ( ) Short Plat ( ) Plat ( ) Commercial ( ) Temporary

C) Install: ( ) Single ( ) Double ( ) Common Approach Mile Post _____ Address:_____

( ) Private road designated as:_____ * Reason for Denial:_____

SUBJECT TO ALL THE TERMS, CONDITIONS AND PROVISIONS WRITTEN OR PRINTED BELOW OR ON ANY PART OF THIS FORM. ACCESS TO BE INSTALLED PER COUNTY STANDARDS AND ALL PERMIT CONDITIONS SUBJECT TO THE FOLLOWING:

( ) ___ feet of ____ inch culvert is required. (16 ga. CMP, concrete, N-12 poly)
( ) 20' flatout with a grade not to exceed 2% is required.
( ) A 6" swale, *8' from the edge of pavement is required for drainage.
( ) Existing access is approved as constructed.
( ) Surface with crushed rock.
( ) Surface with asphalt concrete pavement.
( ) Sight distance of 100' per 10 mph of posted speed limit is required.
( ) Vegetation must be trimmed and maintained by the applicant to provide adequate sight distance.
( ) Ditch must be cleaned of debris and culvert set at proper gradient.
( ) Stop sign required, set outside of county right-of-way.
( ) Prior to placing asphalt or concrete driveway, contact_____.
( ) Grading permit is required from the Planning and Development Services.
( ) Drainage plan is needed.
( ) Catch basin is needed, see attached diagram.
( ) An:_____

APPROVED AS per plans

A bond in the amount of _____ is required to insure compliance with the above conditions, said bond to be kept in full force and effect for a period of _____ years following completion of work authorized by this permit.

No work shall be done under this permit until the party or parties to whom it is granted have communicated with and received instructions from:

Name:_____ Phone:_____

Approved by: Ronny S. Audette Date: 9/12/11 Phone: 770·5752

It is the responsibility of the owner to notify all utilities and private property owners when such property is subject to injury or damage through the performance of the above work and the applicant shall make all necessary arrangements relative to the protection of such property and/or utilities.

1979 Revised Code of Washington Title 36, Chapter 75

Section. 130 No person, firm or corporation shall be permitted to build or construct any approach to any county road without first obtaining permission therefore from the Board of County Commissioners of said county.

Section. 140 The Board of County Commissioners of the several counties of the state are hereby empowered and authorized to adopt reasonable rules and regulations for the construction of such approaches which, when complied with, shall entitle such person, firm or corporation to build or construct an approach from any abutting property to any county road. Such regulations may include provisions for the construction of culverts under such approaches, the depth of fills over said culverts and for such other drainage facilities as may be required, shall be under the supervision of the Boards of County Commissioners or their agents and all such construction shall be at the expense of the person, firm or corporation benefited by the construction of said approach.

Section. 150 Any person, firm or corporation violating any of the provisions of this act shall be guilty of a misdemeanor.

UTILITY DAMAGE IS COSTLY, CALL BEFORE YOU DIG 1-800-424-5555.

Have we delivered World Class Client Service?
Please let us know by visiting **www. geoengineers.com/feedback**.

GeoEngineers