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**REMEDIAL INVESTIGATION
LOPEZ VILLAGE MARKET
214 LOPEZ ROAD
LOPEZ ISLAND, WASHINGTON**

**FACILITY SITE ID# 87787992
VCP# NW2372**

prepared for:

Lopez Village Market
PO Box 99
Lopez, Washington 98261

September 23, 2011

nwhatcom
ENVIRONMENTAL

*soil | water | air
compliance consulting*

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P.O. Box 99
Lopez, WA 98261

Prepared by

Whatcom Environmental Services
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September 23, 2011


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The purpose of this document is to present the site information collected to date to Ecology. Based on the data collected from the site, additional Remedial Investigation work will be required prior to selecting a cleanup action.

2.0 SITE DESCRIPTION

The subject property (parcel #251544003000) is located at 214 Lopez Road on Lopez Island in San Juan County, Washington as shown on Figure 1. The property is situated in a Village Commercial Land Use District by San Juan County. The property is located in a predominantly commercial area mixed with residential housing. The property was the former location of the Lopez Village Market and is currently unoccupied. One vacant structure is located on the property and the entire property is paved with concrete/asphalt or covered by the building.

The subject property is located on the west side of Lopez Island approximately 0.1 miles northeast of the mouth of Fisherman Bay and 14 miles west of the city of Anacortes, Washington. The site has a median elevation of approximately 22 feet above mean sea level and the site topography generally slopes from the northeast to the southwest. The property is surrounded by public roadways on three sides; Eads Lane borders the northeast side, Tower Road borders the northwest side, and Lopez Road borders the southwest side of the property. A restaurant (Love Dog Café) is located immediately southeast of the subject property.

The subject property is listed in the Washington State UST Database and has an associated Facility Site Identification number of 87787992. The two USTs listed in the database were closed and removed from the ground in August 2010.

The 'site' is defined as the soil and groundwater located southwest of the building beneath the asphalt parking lot that contains gasoline range TPH and BTEX constituents at concentrations which exceed applicable cleanup levels. A map indicating the location of the site and other pertinent site features is provided as Figure 2.

3.0 RELEASE INFORMATION

The source of the release is the UST fueling system tanks and/or piping that leaked at some time in the past. The release discovery information is documented in the UST Site Assessment report previously submitted to Ecology (Whatcom Environmental Services, 2010) and included in Appendix A of this document.

4.0 PREVIOUS INVESTIGATIONS

The subject property is listed in the Washington State UST Database and has an associated Facility Site Identification #87787992. The two temporarily closed USTs listed in the database were closed and removed from the ground on August 8, 2010. Whatcom Environmental Services provided a registered UST Site Assessor to conduct a site assessment of each tank as it was closed and removed from the ground. Soil samples were collected per Washington State Department of Ecology (Ecology) UST Site Assessment guidance standards (Ecology, 2003).

A report documenting the UST Site Assessment, titled *Underground Storage Tank Site Assessment at Closure – Former Lopez Village Market, 214 Lopez Road, Lopez Island, Washington*, dated September 7, 2010 was submitted to Ecology UST Section (Whatcom Environmental Services, 2010). A site map indicating the location of each tank pit and the UST Site Assessment soil sample locations is provided as Figure 3. A copy of the UST Site Assessment report is included in Appendix A.

5.0 SELECTION OF SOIL CLEANUP STANDARDS

The soil cleanup levels for the site were established for unrestricted land use in accordance with WAC 173-340-740. There are two options for establishing soil cleanup levels for unrestricted land use under MTCA - Method A and Method B. Soil samples collected from the site were compared to both the MTCA Method A and Method B cleanup levels.

MTCA Method A cleanup levels are provided in WAC 173-340, Table 740-1. MTCA Method B cleanup levels are based on the reasonable maximum exposure expected to occur at the site and were developed to evaluate direct contact, leaching, and vapor pathways using equations provided in WAC 173-340. In order to develop Method B cleanup levels, Ecology has established the *MTCATPH Workbook for Calculating Cleanup Levels for a Petroleum Mixture* (Ecology, 2006). The MTCATPH workbook uses pre-established chemical and toxicity data, risk-based exposure assumptions, and user-defined site specific information to calculate the site risk under current conditions. In order to use the workbook, special sample analyses are required by WAC 173-340-900 and Table 830-1.

Soil at the site contains concentrations of gasoline range TPH and BTEX constituents at concentrations which exceed the MTCA Method A cleanup levels. Therefore, several soil samples were analyzed to obtain parameters for use in the Method B approach. The results of the MTCA Method B analysis are discussed in Section 9.5.

6.0 INTERIM ACTION

The Interim Action (PCS removal action) was initiated on January 13, 2011 when stockpiled PCS from the UST removal excavations was loaded for transportation offsite/off-island to a licensed disposal facility. The excavation of additional PCS surrounding the former tank pits was initiated on January 24, 2011. The additional excavation was conducted in an attempt to remove PCS from the suspected source areas at the site. Whatcom Environmental Services personnel were onsite during the PCS excavation work to field screen excavated soil and collect soil samples to document the success of the Interim Action.

Excavated soils were field screened for indications of petroleum contamination by conducting head space analyses for organic vapors using a photoionization detector (PID) and by conducting sheen tests. The organic vapor headspace analyses were conducted using a Thermo Environmental Model 580B PID equipped with a 10.6 eV lamp.

The PCS removal work began at the eastern tank pit excavation on January 24, 2011. Field screening analysis was used to guide the excavation of PCS from all areas where PID and sheen indications showed the presence of contamination. When field screening results indicated that a particular sidewall or section of an excavation floor appeared to be no longer impacted by petroleum compounds, clean confirmation soil samples were collected for laboratory analyses.

Twelve clean confirmation soil samples were collected from the floors and sidewalls of the eastern tank pit excavation to document the effectiveness of the remedial action. The clean confirmation soil samples were identified as CS-1 through CS-12. Two of the twelve sample locations were over-excavated and resampled when laboratory analysis showed that concentrations of contaminants in the soil at the original sample location exceeded the MTCA Method A cleanup levels. The remediation of the area surrounding the eastern tank pit excavation was completed on January 26, 2011. The clean confirmation soil sample laboratory analytical data results are discussed in Section 9.1. The clean confirmation soil sample locations and extent of the remedial excavation at the eastern tank pit area are shown on Figure 4.

PCS removal work began at the western tank pit excavation on January 26, 2011. The area was excavated to the proposed excavation extent when it became apparent based on field

screening evidence that soil in the area of the former western tank pit was not showing indications of decreasing contamination. Based on the field screening results, no clean confirmation soil samples were collected from the western tank-pit excavation.

Perched water was encountered in the relatively permeable UST tank-pit backfill material. The water had accumulated in the sandy backfill material above the relatively impermeable glaciomarine drift deposit. Marine Vacuum Services of Seattle, WA (MarVac) collected approximately 18,050 gallons of water and transported it off the island for treatment and disposal at their licensed water treatment and disposal facility in Seattle. MarVac load sheets are included in Appendix B.

Excavated PCS was temporarily stockpiled onsite and transported offsite for treatment via thermal desorption at Cemex in Everett, Washington. Cemex is a licensed PCS treatment and disposal facility. Approximately 805 tons of PCS were removed from the property as part of the Interim Action. A Cemex Certificate of Disposal documenting the treatment and disposal of the excavated PCS is provided in Appendix B.

7.0 REMEDIAL INVESTIGATION

The Remedial Investigation was initiated in January 2011. The Remedial Investigation consisted of excavating test pits, drilling soil borings, and installing groundwater monitoring wells.

7.1 Test Pit Investigation

Ten test pits were excavated on January 28, 2011 to assess the extent of impacted soil at the site. Test pit soil was field screened from the surface to an average depth of approximately 5 feet bgs. Only one of the ten excavated test pits did not show evidence of PCS based on field screening results. No soil samples were collected from the test pits excavated in January 2011. Based on the initial test pit field screening observations it became apparent that the site extended beneath a large portion of the asphalt parking lot. The test pit locations are shown on Figure 5.

Whatcom Environmental personnel returned to the subject property on February 18, 2011 to excavate deeper test pits and collect soil samples for laboratory analysis. An additional four test pit locations were excavated and three of the original ten pits were over-excavated and sampled to quantify the concentration of PCS remaining in the subsurface. Soil samples were collected from various depths ranging from 3 feet bgs to 13 feet bgs. Field screening showed that only one of the test pits excavated in February 2011 did not have indications of PCS. Test pit soil sample results are discussed in Section 9.2. The test pit locations are shown on Figure 5.

7.2 Soil Boring Investigation

Three soil borings were advanced at the subject property on June 8 - 9, 2011. Soil borings were cored by Environmental Drilling, Inc. using an 8-inch diameter hollow-stem auger. Soil samples were collected with a stainless-steel split spoon sampler. The sampling equipment was decontaminated prior to drilling each boring. Soil boring B-1 was drilled to a depth of 40 feet below grade. Borings B-2 and B-3 were drilled to a depth of 30 feet bgs. Soil cores were logged in the field and soil descriptions generally followed ASTM D 2487 'Unified Soil Classification System' procedures for description and identification of soils. Soil color, structure, texture, and moisture content are included in the description. The soil boring soil

sample analytical results are discussed in Section 9.3. The soil boring locations are shown on Figure 6.

At least one soil sample was collected from each boring for laboratory analyses. The soil samples were identified using the boring number (B-1 through B-3) and the depth of collection. The soil sample descriptions and soil sample collection depths are shown on the boring logs, included in Appendix C.

7.3 Groundwater Investigation

Groundwater monitoring wells were installed in each of the three soil borings. The wells were identified as MW-1 through MW-3 (Figure 6). The wells were constructed of 2-inch diameter PVC pipe. The wells are protected with flush mounted well monuments and the monitoring well design specification documents are included in Appendix C.

The groundwater monitoring wells were developed on June 9, 2011 using disposable bailers. Approximately 20 gallons of water were purged from each well during development. The wells were purged until most of the silt was removed and the water was clear or the well was bailed dry.

Groundwater samples were collected from each well for laboratory analysis on June 23 and August 18, 2011, using a low-flow sampling procedure (USEPA, 1998). Prior to sampling, the depth to water in each well was measured from the top of the PVC well casing with an electronic well probe and recorded in the field notebook. A YSI 556 water quality meter was used to monitor the groundwater chemistry during sample collection. Groundwater samples were collected when the groundwater chemistry parameters stabilized. Groundwater samples were collected in sample bottles provided by the lab and stored on ice in a cooler immediately after collection. All sample containers included a sample label which indicated the sample identification, the sampling date and time, the sampler's name, and the analysis requested. Standard industry protocols regarding sample preservation, chain-of-custody, and shipping were followed. The groundwater sample results are discussed in Section 9.4. The monitoring well locations are shown on Figure 6.

8.0 GEOLOGY/HYDROGEOLOGY

The subject property is located in the San Juan Island Archipelago which is situated in the northern portion of the Puget Sound Basin. The region is characterized by thick sequences of Pleistocene glacial advance outwash and meltwater deposits that settled on a basement of tectonically deformed sedimentary and ancient metamorphic bedrock. The glacial deposits have been reworked by more recent fluvial, lacustrine, and aeolian actions into the landforms present today.

Soils in the area of the subject property are described in the Soil Survey of San Juan County, Washington (USDA, 2009). Soils at the property are described as Mitchellbay gravelly sandy loam with slopes ranging from 0 to 5 percent. The Mitchellbay gravelly sandy loam is a somewhat poorly drained soil that formed in glacial drift over dense glaciomarine deposits.

The site is underlain by Bellingham Glaciomarine Drift (WADNR, 2000). The glaciomarine drift consists of sorted to unsorted diamicton with lenses and discontinuous beds of moderately to well-sorted gravel, sand, silt, and clay. Bedding is massive to poorly stratified. Color is blue-gray to olive-gray depending on oxidation state. The unit acts as an aquitard, impeding the vertical migration of contaminants.

Four soil samples were collected from the soil borings for geotechnical analysis. The samples were collected from borings B-1 at 8.0-8.5 and 33.0-33.5 feet bgs, B-2 at 13.0-13.5 feet bgs, and B-3 at 23-23.5 feet bgs. The samples were analyzed at PTS Laboratories for the New Mexico Risk Based Decision Making (RBDM) parameters including intrinsic permeability/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content, Fraction Organic Carbon (FOC) and grain size analysis. The three shallowest samples were determined to be silt, and the deepest sample (B-1 33.0-33.5) was determined to be fine sand. The Fraction Organic Carbon ranged from 5.90E-04 to 1.15E-03. The volumetric water content ranged from 0.232 to 0.429. The total measured porosity ranged from 0.359 to 0.587. The air filled porosity ranged from 0.082 to 0.275. The intrinsic permeability ranged from 1.69E-11 to 2.27E-11. The hydraulic conductivity ranged from 1.71E-06 cm/sec to 2.26E-06 cm/sec. The laboratory data report and grain size distribution curves are provided in Appendix D.

The Bellingham Glaciomarine Drift acts as an aquitard, impeding the vertical migration of contaminants. Perched water was encountered in the relatively permeable UST tank-pit

indicating the groundwater exists under confined or semi-confined conditions.

MW-3 was also drilled to 30 feet bgs and the well was installed using a 20 foot screen length (screened from 10 to 30 feet bgs). The well was checked for water for over 1 hour and remained dry until the geologist left the site. Two weeks later when the site was visited to develop the wells the depth-to-water in well MW-3 was 5.25 feet bgs, again indicating that groundwater exists under confined or semi-confined conditions at the site.

The groundwater monitoring wells were surveyed by a licensed surveyor. Groundwater elevations were measured in each monitoring well, and the potentiometric surface of the confined aquifer(s) was evaluated. The depth-to-water and groundwater elevation data are included on the well completion diagrams in Appendix C. Based on the data collected in 2011, the groundwater appears to flow to the east (Figure 6). Since the topography slopes downward to the southwest toward Fisherman's Cove, the calculated groundwater flow direction does not appear to be correct. The groundwater elevations measured in the monitoring wells represent a map of the hydraulic head of the confined aquifer(s).

9.0 SAMPLE ANALYTICAL RESULTS

All soil samples were collected as discrete samples using Method 5035A and placed in containers provided by the lab. The soil samples were collected using stainless steel sampling equipment. The tools were washed using Alconox detergent and rinsed with distilled water prior to sample collection in accordance with good industry practices. The samples were described in general accordance with ASTM D2487 and recorded in a field notebook. Each sample was placed in a sample container provided by the lab and stored in a cooler with ice prior to delivering to the analytical laboratory. Strict chain-of-custody and QA/QC protocols were followed for each sample.

Clean confirmation soil samples collected during the excavation efforts conducted in January 2011 were analyzed by Libby Environmental Laboratories in their mobile laboratory located onsite. Libby Environmental is accredited by Ecology. Test pit samples collected in February 2011 and soil boring samples collected in June 2011 were shipped to ALS Laboratory Group in Everett, Washington. ALS is accredited by Ecology.

9.1 Interim Action Clean Confirmation Soil Sample Analytical Results

Two PCS characterization samples (PCS-3 and PCS-4) were collected in January 2011. One sample was collected from each tank pit excavation. The PCS samples generally consisted of brown silty clay that was firm and dry to moist. Both PCS samples contained concentrations of gasoline range TPH and BTEX constituents which exceeded the MTCA Method A target cleanup levels. Soil sample descriptions, dates, depths of collection, and field screening results are summarized on Table 1. Soil sample analytical results are summarized on Table 2. The original soil sample analytical data reports are included in Appendix E.

Twelve clean confirmation soil samples were collected from the eastern tank pit excavation in January 2011. The soil samples generally consisted of brown silty clay that was firm and dry to moist. Two confirmation samples (CS-4 and CS-6) failed to meet the MTCA Method A cleanup level for benzene and were subsequently over excavated to remove remaining PCS surrounding the initial sample area. New samples were collected when field screening results indicated successful removal of the contaminated soil. All ten final clean confirmation soil samples met the applicable MTCA Method A cleanup levels. The Interim Action clean confirmation soil sample locations are shown on Figure 4.

9.2 Remedial Investigation Test Pit Soil Sample Analytical Results

Fourteen test pits were excavated at the subject property; ten in January 2011 and four in February 2011. The January 2011 test pits were excavated to depths no greater than 8 feet bgs and were only quickly field screened using the PID to gain some knowledge of the extent of PCS at the site. Four follow-up test pits were excavated in February 2011 to greater depths and soil samples were collected to quantify the extent of PCS remaining at the site. The test pit locations are shown on Figure 5.

PID readings from the screened soil in the original ten test pits indicated that soil in the five to six foot depth interval contained the highest concentrations of organic vapors. The PID readings at that interval averaged approximately 700 ppm. Field screening results were correlated to the field screening and associated analytical results from over-excavated clean confirmation samples CS-4 and CS-6, as well as the results the PCS samples (PCS-3 and PCS-4) collected from each tank pit excavation. The comparison showed that PID readings of greater than 2 ppm in soils at the subject property typically exceeded the MTCA Method A target cleanup levels for benzene. Therefore, only one original test pit, TP-10, was assumed to be free of contamination due to the non-detect PID readings obtained when screening soil in that pit.

Soil samples collected from the February 2011 test pit event indicated that gasoline range TPH and BTEX constituents were present in property soils at depths of up to 13 feet bgs at concentrations exceeding the MTCA Method A cleanup levels. Only one test pit location, TP-14, excavated in the southeast portion of the property, did not contain soil which exceeded the MTCA Method A cleanup criteria. The test pit soil sample analytical data are summarized in Table 2.

9.3 Remedial Investigation Soil Boring Sample Analytical Results

Soil samples collected from the June 2011 soil borings indicated that gasoline range TPH and benzene were present in site soil at concentrations exceeding the MTCA Method A cleanup levels at boring locations B-1 and B-3. The soil boring locations are shown on Figure 6. Borings B-1 and B-3 both contained concentrations of gasoline range TPH and benzene at 9 feet bgs which exceeded the MTCA Method A target cleanup levels. Boring B-1 contained concentrations of benzene at 29 feet bgs and boring B-3 contained concentrations of benzene at 14 feet bgs which exceeded the MTCA Method A cleanup criteria. Boring B-2, advanced in the southeast portion of the property, did not contain soil which exhibited field indications of

petroleum contamination. Soil samples collected from 14 and 29 feet bgs did not contain detectable concentration of gasoline range TPH or benzene. The analytical data are summarized in Table 2.

9.4 Groundwater Sample Analytical Results

Groundwater samples were collected from each well for laboratory analysis on June 23 and August 18, 2011, using a low-flow sampling procedure (USEPA, 1998). A YSI 556 water quality meter was used to monitor the groundwater chemistry during sample collection. Groundwater samples were collected when the groundwater chemistry parameters stabilized. The groundwater chemistry parameters recorded at stabilization are included in Table 3. The samples were analyzed gasoline range TPH and BTEX constituents and for methyl tert-butyl ether (MTBE) via EPA Method 8260; 1,2-Dichloroethane (EDC) and 1,2-Dibromoethane (EDB) via EPA Method 8260SIM; Naphthalenes via EPA Method 8270SIM; and dissolved lead via EPA Method 6020. Groundwater sample analytical results were compared to MTCA Method A cleanup levels presented in Table 720-1 (Ecology, 2001).

Laboratory analytical results indicate that groundwater in the vicinity of monitoring wells MW-1 and MW-3 has been impacted by gasoline range TPH, benzene, and EDC at concentrations exceeding the MTCA Method A cleanup levels for groundwater. The groundwater in the vicinity of monitoring well MW-2 did not contain detectable concentrations of any of the analyzed substances listed above. The laboratory analytical results are summarized in Table 4. The monitoring well locations are shown on Figure 6. The original laboratory analytical data are included in Appendix F.

9.5 MTCA Method B Analytical Results

Five soil samples were analyzed by Methods VPH/EPH for use in the *MTCATPH Workbook for Calculating Cleanup Levels for a Petroleum Mixture*. The MTCA Method B analysis indicated that the petroleum constituents remaining in the soil at the site may pose a threat to human health via direct contact at some locations and to groundwater via leaching pathways at all sampled locations. The soil sample analytical data and MTCA Method B criteria are summarized in Table 5. Fraction organic carbon data collected from clean samples are summarized in Table 6. The MTCA Method B workbook data entry and calculation output worksheets are provided in Appendix G.

10.0 SIMPLIFIED TERRESTRIAL ECOLOGICAL EVALUATION

In order to confirm the site is not a threat to the environment, a terrestrial ecological evaluation (TEE) was conducted at the subject property in accordance with WAC 173-340-7490. The goal of the TEE is to determine if contaminants detected at the site pose a threat to terrestrial ecological receptors.

The site does not qualify for a primary exclusion from the TEE requirements because there is more than 1.5 acres of contiguous undeveloped land on the site or within 500 feet of any area of the site (WAC 173-340-7491 (1) (c) (i)). Therefore, a simplified evaluation was conducted and it was determined that the values for the TEE Contaminants of Ecological Concern shown in WAC 173-340-900, Table 749-2 would be the applicable cleanup levels for the simplified TEE. The completed TEE documentation form is included in Appendix H. The TEE Contaminants of Ecological Concern are shown on Table 2.

11.0 CONCEPTUAL MODEL

The data indicate that soil in the vicinity of the western gasoline UST and product piping system has been impacted by a release of gasoline range petroleum product. A gasoline range TPH concentration map based on soil analytical data collected from 6-9 feet bgs is provided in Figure 7. A benzene concentration map based on soil analytical data collected from 6-9 feet bgs is provided in Figure 8. The contour maps were created using data which included several soil sample locations that have been over-excavated during the PCS removal action completed at the eastern UST. The 6-9 foot depth data were used to create the maps because of the relatively large number of data points collected in that depth range.

Based on the soil data collected to date, it appears that the gasoline range TPH and benzene concentrations are highest near the western (older) UST and the product piping. The gasoline range TPH and benzene concentration contours may be skewed by the limited number of data points used to create the contours; however it appears that gasoline constituent concentrations are highest in the northeast portion of the site and diminish to the southwest.

The soil field screening results and laboratory analytical data indicate that gasoline range petroleum contamination in soil extends to a depth of approximately 12 feet bgs (SS-4) and benzene contamination exists to a minimum depth of 29 feet bgs (B-1) at the site. A cross-section showing the interpreted geologic units at the site observed during the groundwater monitoring well installation is shown in Figure 9. The cross-section shows the soil data collected from the soil borings and the depth-to-water measured in the wells in June 2011.

The data indicate that groundwater located beneath the former gasoline product piping (MW-1) and southwest of the western UST (MW-3) has been impacted by dissolved gasoline range TPH and BTEX constituents at concentrations that exceed the MTCA Method A cleanup levels. No free product was observed at the boring locations during the investigation.

12.0 CONCLUSIONS

A PCS removal Interim Action has been completed and a Remedial Investigation has been initiated at the Lopez Village Market located at 214 Lopez Road on Lopez Island in San Juan County, Washington. The site is currently enrolled in the Voluntary Cleanup Program (VCP # NW2372).

The Interim Action and Remedial Investigation were initiated following the discovery of a release of gasoline range TPH to soil at the site on August 8, 2010, during the UST site assessment at closure. Evidence of a release to soil was observed using field screening methods during the tank removal, and the release was confirmed by laboratory analytical data.

PCS removal work was conducted as an Interim Action between January 12th and February 28th, 2010. Approximately 805 tons of PCS were excavated and removed from the property for offsite treatment and disposal.

A Remedial Investigation was initiated in January 2011. Ten test pits were excavated to depths of 3 to 7 feet bgs at the site on January 28, 2011 to evaluate subsurface soil conditions at the site. An additional four test pits were excavated on February 18, 2011 to evaluate deeper soil and to collect soil samples for laboratory analysis.

The Remedial Investigation continued in June 2011. Three soil borings were advanced at the subject property on June 8 and 9, 2011 to depths ranging from 30 to 40 feet bgs. Three groundwater monitoring wells were installed at the site. The groundwater monitoring wells were developed on June 9, 2011 and groundwater was sampled on June 23 and August 18, 2011 using a low-flow sample collection method.

The purpose of this document is to present the site information collected to date to Ecology. Based on the data collected from the site, additional Remedial Investigation work will be required prior to selecting a cleanup action.

Five soil samples were analyzed by Methods VPH/EPH for use in the *MTCATPH Workbook for Calculating Cleanup Levels for a Petroleum Mixture*. The MTCA Method B analysis indicated that the petroleum constituents remaining in the soil at the site may pose a threat to human health via direct contact at some locations and to groundwater via leaching pathways at all sampled locations.

The site is defined as the soil and groundwater located southwest of the building beneath the asphalt parking lot that contains gasoline range TPH and BTEX constituents at concentrations which exceed applicable cleanup levels. The site has not been delineated and further investigation is necessary to determine the extent of the site. The Remedial Investigation will be continued to collect and develop sufficient information to select a cleanup action per WAC 173-340-350.

13.0 LIMITATIONS

No site investigation can wholly eliminate uncertainty regarding the potential for contamination in connection with a property. Documentation of the soil remediation by Whatcom Environmental Services is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental contamination in connection with the subject property.

The interpretation of subsurface soil and groundwater conditions is based on Whatcom Environmental's field observations and chemical analytical data collected from relatively widely spaced sampling locations at the site. It is possible that contamination exists beneath portions of the site that were not explored, sampled, or analyzed. No warranty, express or implied, is given regarding the presence of hidden or unidentified sources of contamination of the subject property. In addition, no warranty, express or implied is given regarding geotechnical or geologic hazards.

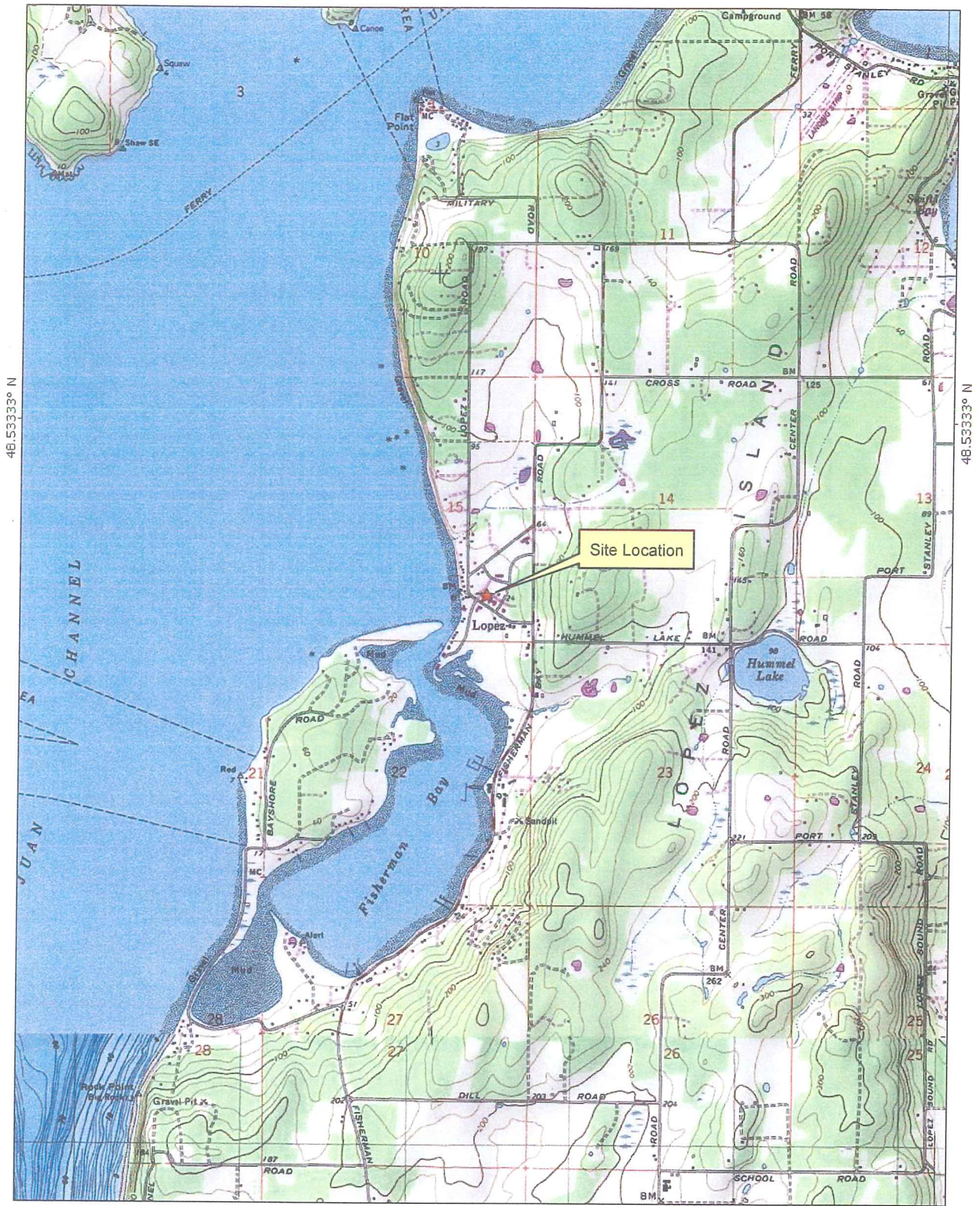
This environmental report is based on conditions that existed at the time the investigation was performed and samples collected. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, ground instability, or groundwater fluctuations.

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

This report has been prepared for use by Lopez Village Market. Whatcom Environmental prepares a report for the client's exclusive use for a particular project and in accordance with generally accepted practices at the time of investigation. This report was prepared for exclusive use by the client and its authorized agents and may not be used, relied upon, or assigned to a third party without written consent from Whatcom Environmental Services. This report is not intended for use by others, and the information contained herein is not applicable to other sites. This report may be made available to regulatory agencies.

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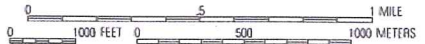
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- Whatcom Environmental Services, Inc. September 7, 2010. Underground Storage Tank Site Assessment at Closure – Former Lopez Village Market, 214 Lopez Road, Lopez Island, Washington. Prepared for: Aaron Dye.



48.53333° N

48.53333° N

TN MN
18°



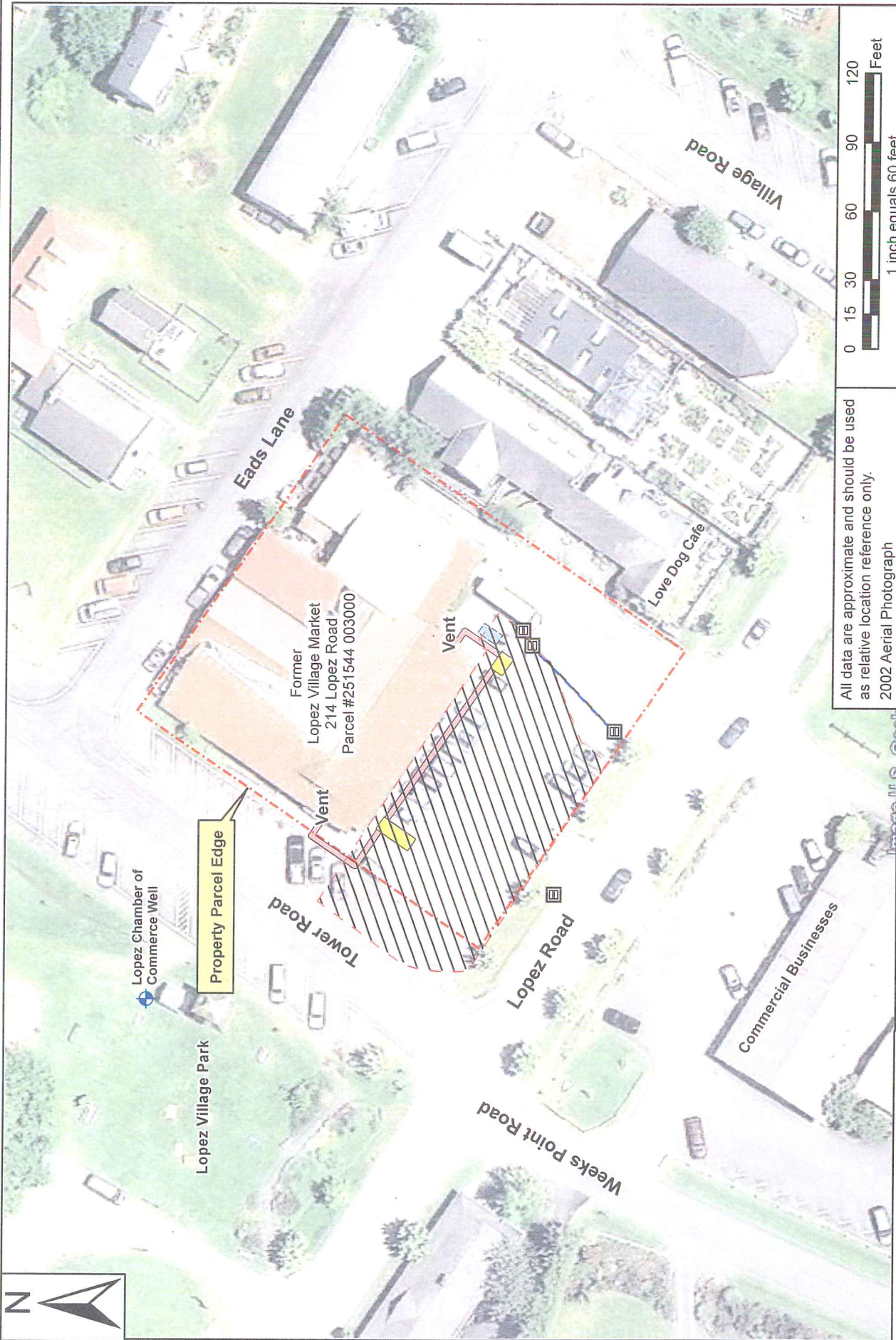
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Prepared for:
Lopez Village Market

Prepared by:
nwhatcom
 ENVIRONMENTAL

Site Location Map
 Lopez Village Market UST
 8/26/10

Figure 1



All data are approximate and should be used as relative location reference only.
2002 Aerial Photograph

Prepared for:
Lopez Village Market

Prepared by:
whatcom ENVIRONMENTAL

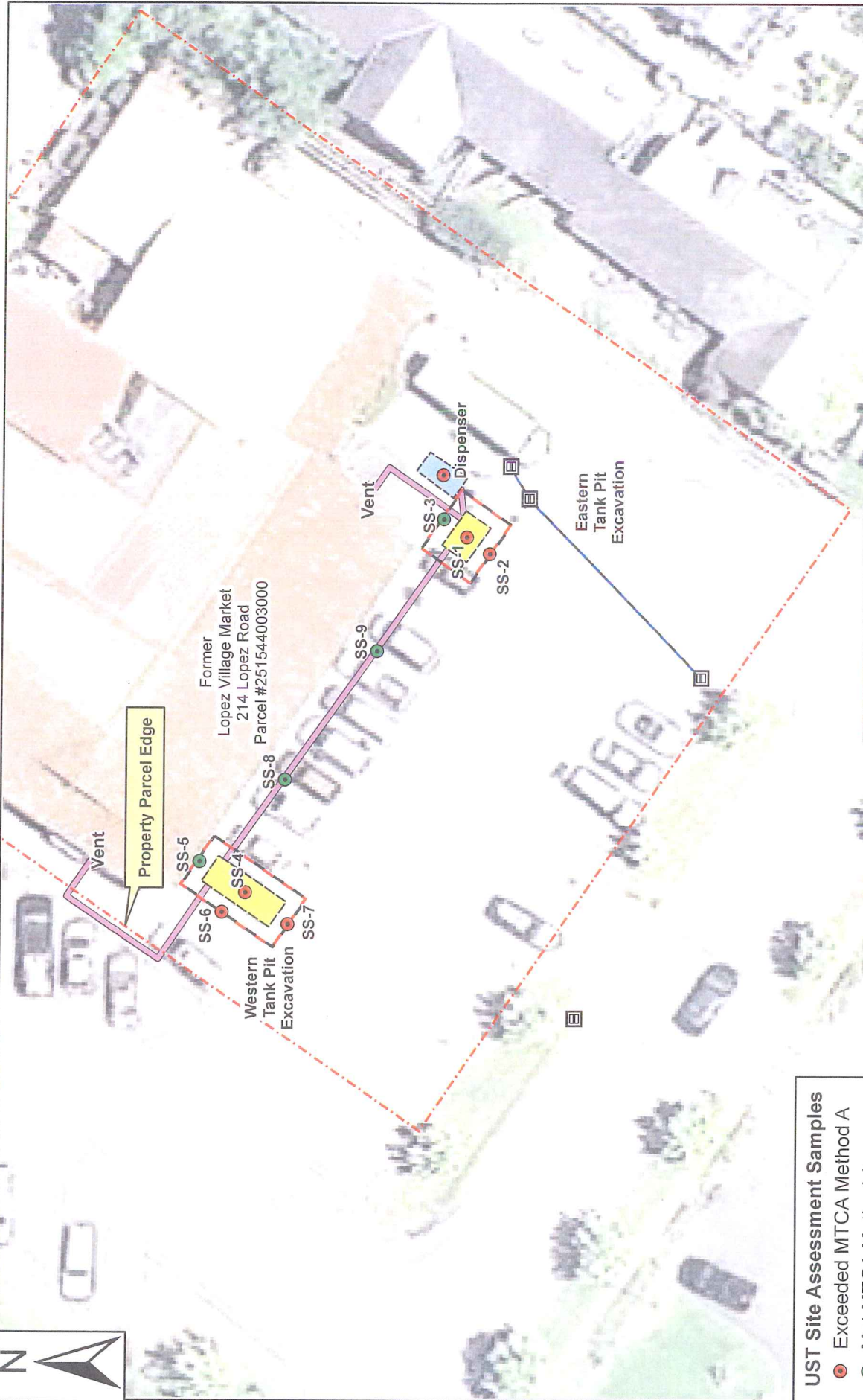
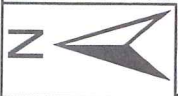
177/09

Site Overview Map

Prepared for:
Lopez Village Market

- Estimated Site
- Lopez Market Tanks
- Tank (Removed)
- Dispenser (Removed)
- Catch Basins
- Storm Lines
- Tank Piping

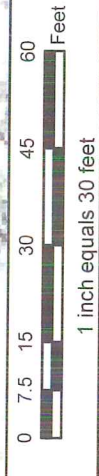
Figure 2



UST Site Assessment Samples

- Exceeded MTCA Method A
- Met MTCA Method A
- Catchbasins
- Storm Lines
- UST System**
- Removed Tanks
- Removed Dispenser
- UST Piping

All data are approximate and should be used as relative location reference only.
2009 Aerial Photograph (GoogleEarth)



Prepared for:

Lopez Village Market

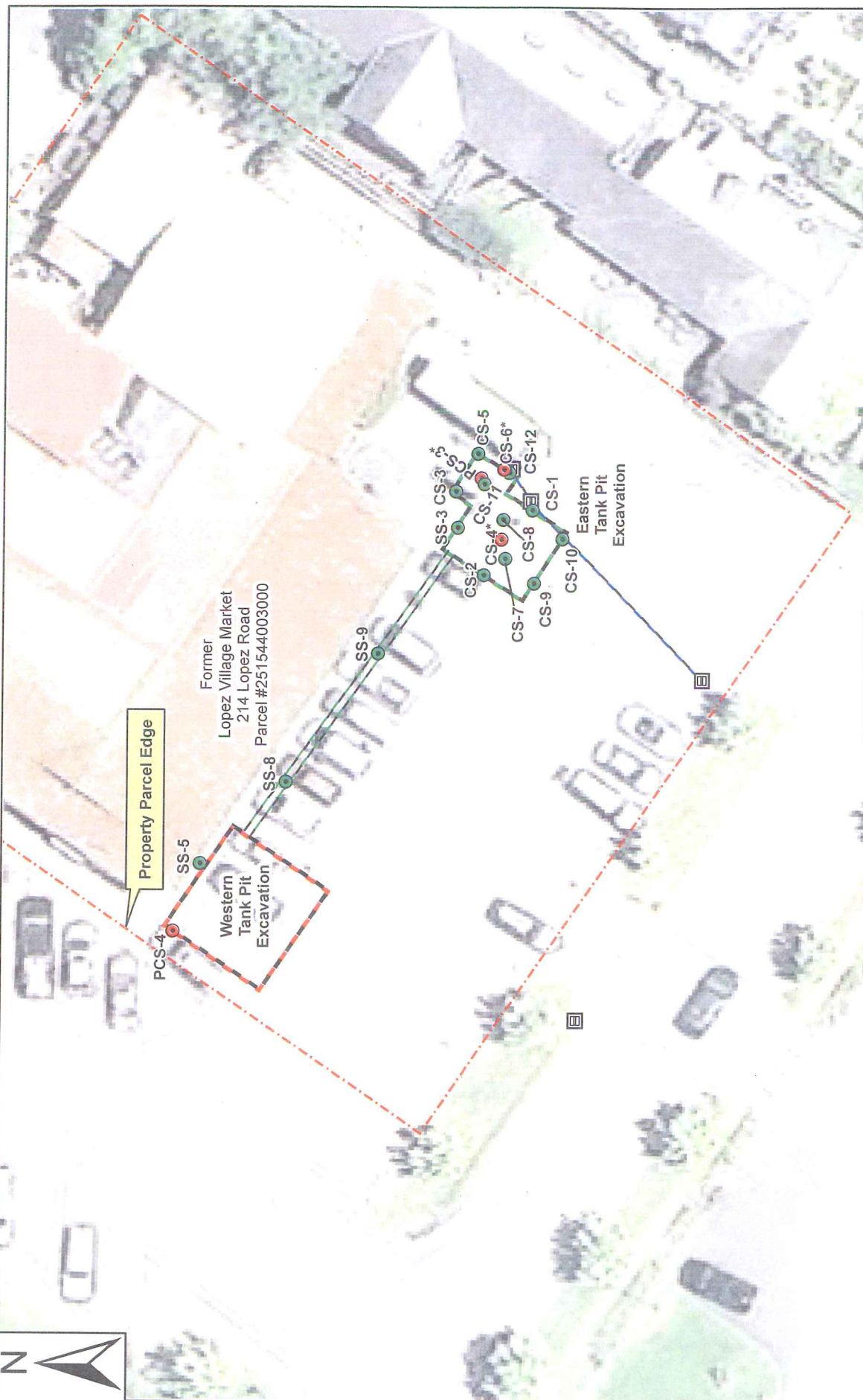
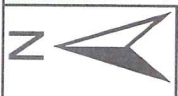
Prepared by:



**UST Site Assessment
Soil Sample Location Map**

Lopez Village Market
8/26/11

Figure 3



All data are approximate and should be used as relative location reference only.
 2009 Aerial Photograph (GoogleEarth)

Prepared by:
awhatcom
 ENVIRONMENTAL

PCS Removal - Excavation Extent and Soil Sample Locations

Lopez Village Market
 8/26/11

* - indicates that the soil sample location was over-excavated and resampled.

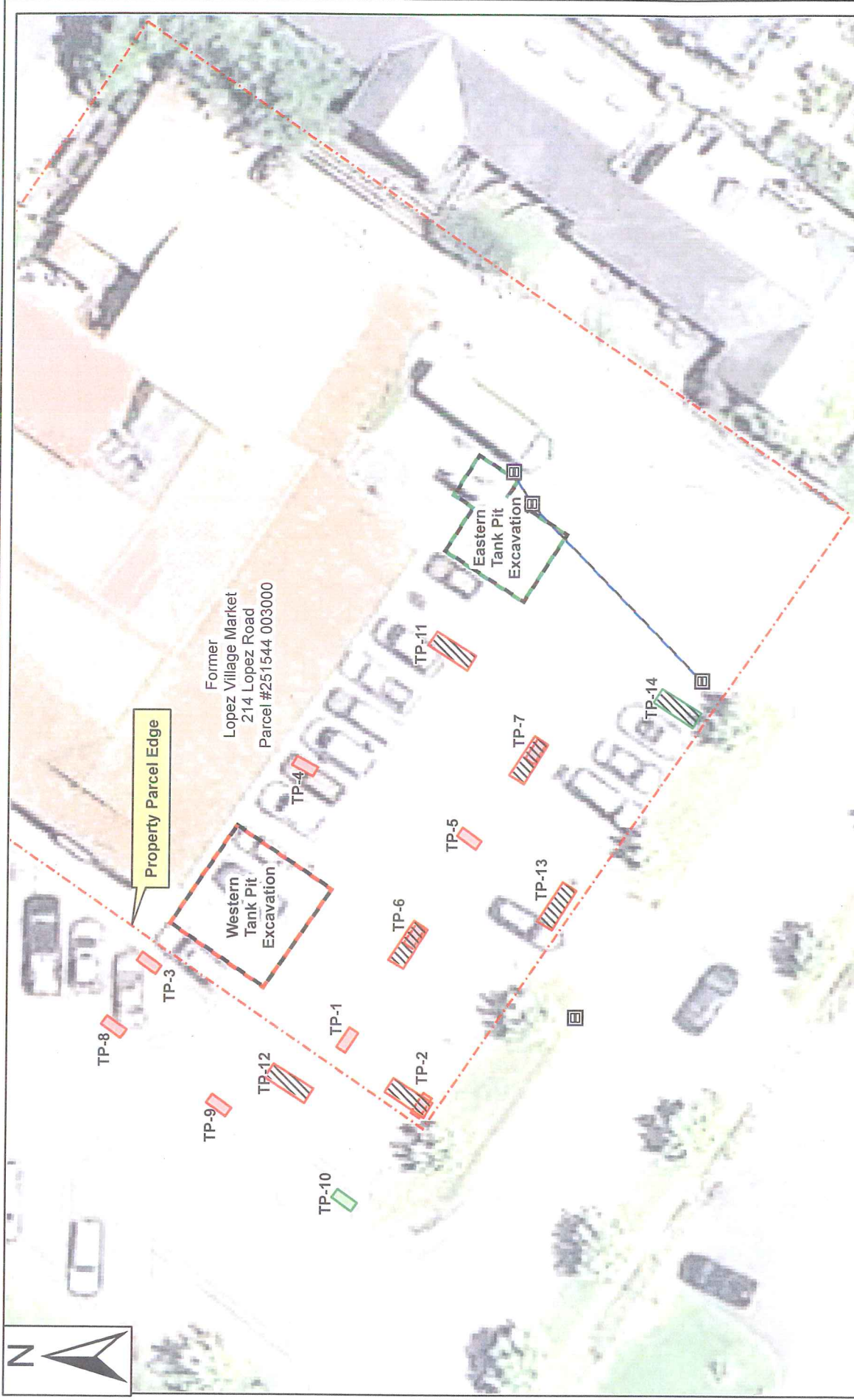
Prepared for:
 Lopez Village Market

Clean Confirmation Soil Samples

- Met MTCA Method A
- Exceeded MTCA Method A
- UST Piping Trench
- Catchbasins
- Storm Lines

0 7.5 15 30 45 60 Feet
 1 inch equals 30 feet

Figure 4



All data are approximate and should be used as relative location reference only.
 2009 Aerial Photograph (GoogleEarth)

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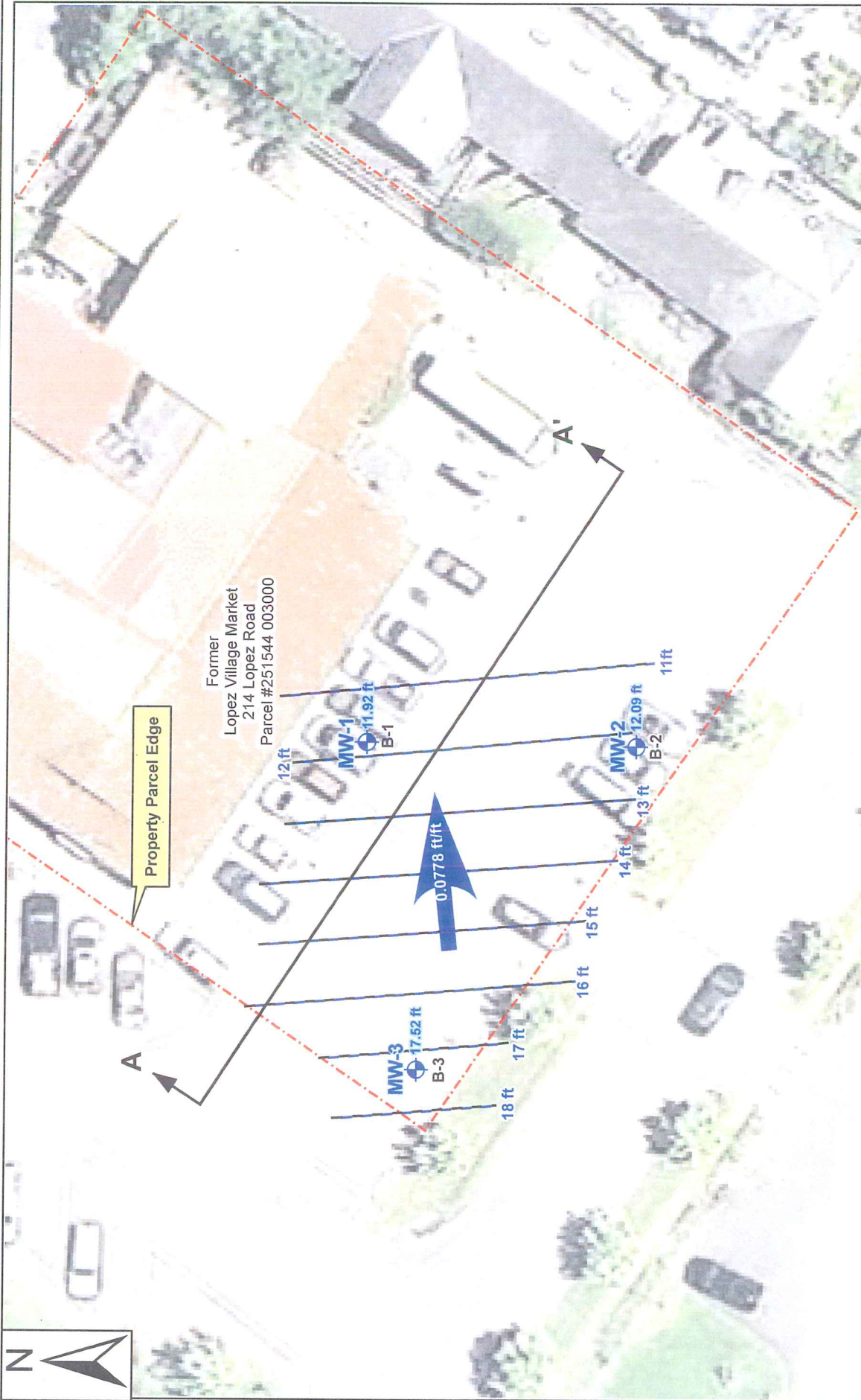
Prepared for:
 Lopez Village Market

Soil Sampled Test Pits (2/18/2011)
 Met MTCA Method A
 Exceeded MTCA Method A
Field Screened Test Pits (1/28/2011)
 Field Screened Positive
 Field Screened Negative

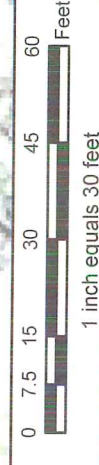
Test Pit Location Map

Figure 5

Lopez Village Market
 8/26/11



All data are approximate and should be used as relative location reference only.
2009 Aerial Photograph (GoogleEarth)



Groundwater Monitoring Well
Location Map

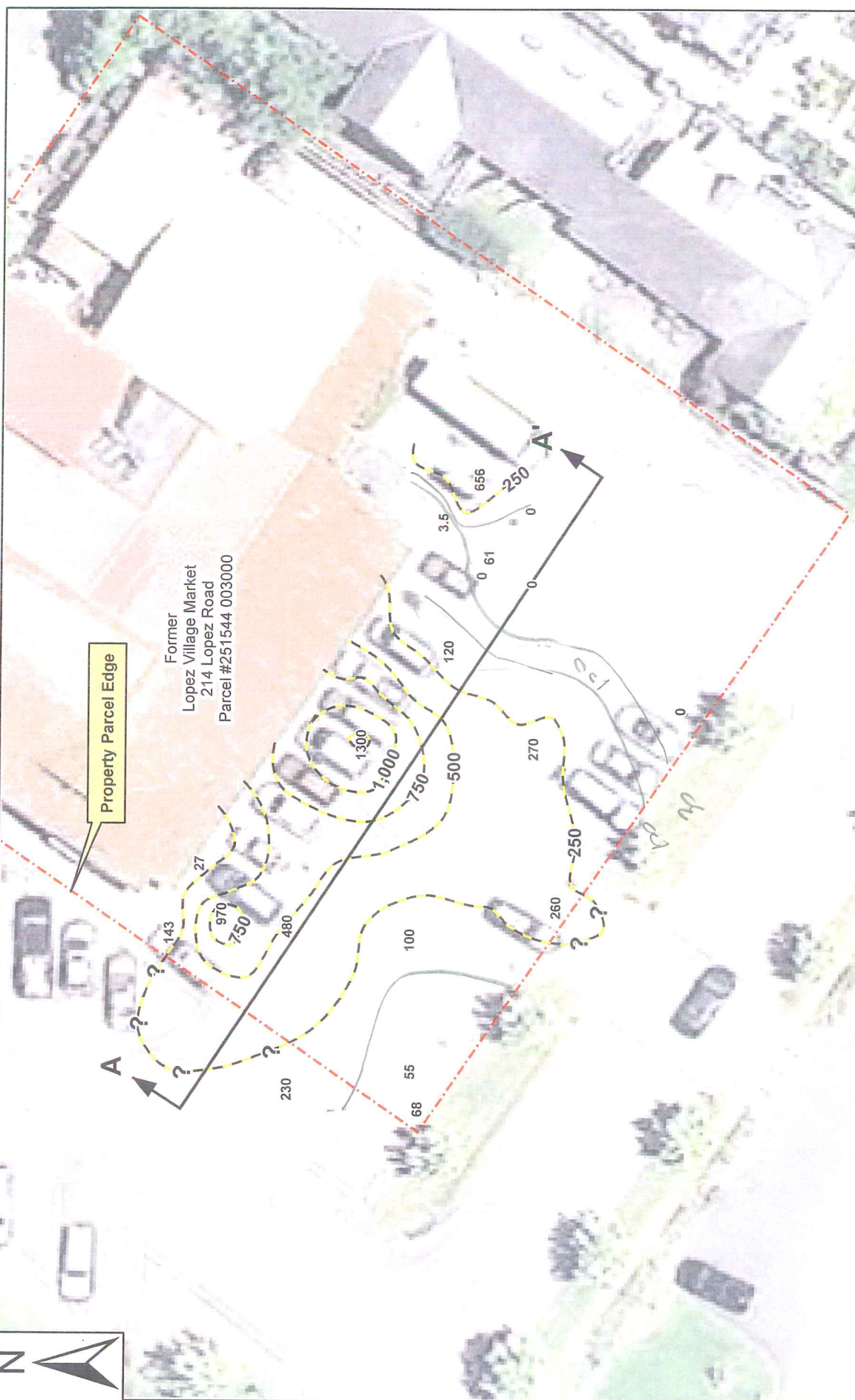
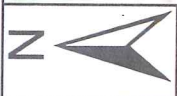
Lopez Village Market
8/26/11

Prepared by:
awhatcom
ENVIRONMENTAL

Prepared for:
Lopez Village Market

— Groundwater Surface - 6/23/2011
 GW Monitoring Wells
 17.52 ft Measured GW Elevation at Well

Figure 6



Former
Lopez Village Market
214 Lopez Road
Parcel #251544 003000

Property Parcel Edge

All data are approximate and should be used as relative location reference only.
2009 Aerial Photograph (GoogleEarth)

TPH Gx Concentrations
Concentrations @ 6 to 9 feet bgs.
The smaller numbers indicate the location and concentration of the samples used to create the contours.
Concentrations are in mg/kg (ppm).
Question marks indicate unknown concentration boundary.

Prepared by:



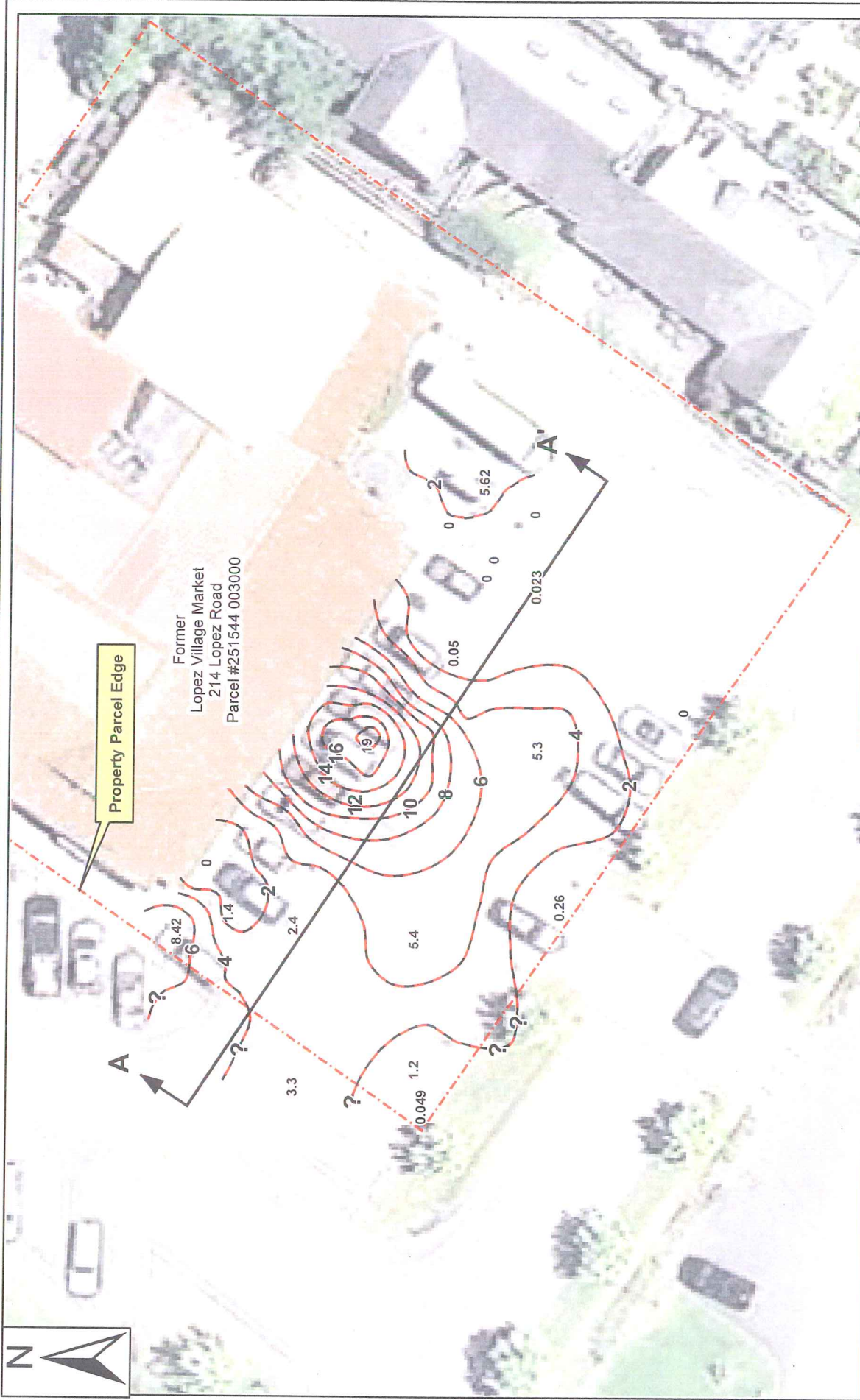
Prepared for:

Lopez Village Market

Contaminant Concentration
Contour Map - Gasoline Range

Lopez Village Market
9/16/11

Figure 7



— Benzene Concentrations
 Concentrations @ 6 to 9 feet bgs.
 The smaller numbers indicate the
 location and concentration of the
 samples used to create the contours.
 Concentrations are in mg/kg (ppm).
 Question marks indicate unknown
 concentration boundary.

All data are approximate and should be used
 as relative location reference only.
 2009 Aerial Photograph (GoogleEarth)

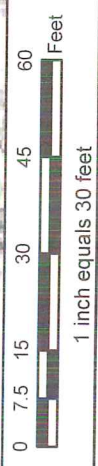
Prepared for:
**Lopez Village
 Market**

Prepared by:
whatcom
 ENVIRONMENTAL

Contaminant Concentration
 Contour Map - Benzene

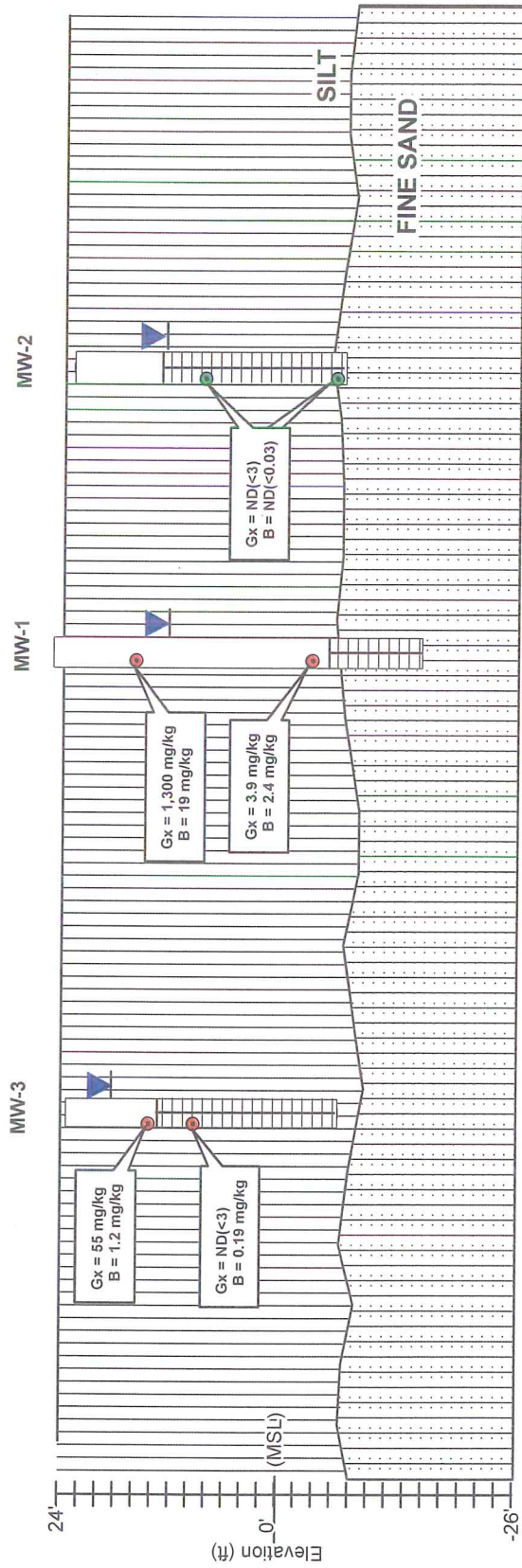
Lopez Village
 Market
 9/16/11

Figure 8





A' A



All data are approximate and should be used as relative location reference only.



- Soil Sample Met MTCAA
- Soil Sample Exceeded MTCAA
- ||| Silt
- Fine Sand
- ▲ Groundwater Surface (6/23/2011)

Prepared for:
Lopez Village Market

Prepared by:
whatcom ENVIRONMENTAL

Cross-Section A - A'
Lopez Village Market
177/09

Figure 9

Table 1. Soil Sample Descriptions - Lopez Village Market

Sample ID	Date	Depth (ft)	Location and Description	Sheen Test*	PID (ppm)
UST Site Assessment Soil Samples					
Dispenser	8/25/10	3	Collected 2 ft. beneath former fuel dispenser Clayey silt, brown with orange mottling, firm, slightly moist	NS	7.0
PCS-1	8/25/10	--	Collected from excavated material adjacent to Tank #2 Silty sand, brown, loose, slightly moist	MS	887
PCS-2	8/25/10	--	Collected from excavated material adjacent to the southeast side of Tank #1 Silty sand, brown and gray, loose, moist	SS	1073
SS-1	8/25/10	14	From below center of Tank #2, beneath backfill sand Clayey silt, brown, firm, slightly moist	NS	2.0
SS-2	8/25/10	7	From southwest sidewall in native material just outside backfill of Tank #2 Clayey silt, brown and gray mottled, firm, dry	NS	270
SS-3	8/25/10	7	From northeast sidewall in native material just outside backfill of Tank #2 Clayey silt, brown, firm, dry	NS	2.0
SS-4	8/25/10	12	From below center of Tank #1, beneath thin backfill Silty clay, brown, firm, slightly moist	VSS (weathered)	154
SS-5	8/25/10	6	From northeast sidewall, approx. 3 ft. beneath sidewalk toward the building Gravelly sand, gray, loose, slightly moist	VSS (weathered)	162
SS-6	8/25/10	7	From northwest sidewall, adjacent to Tank #1 side Silty clay, gray, minor dark brown color along fractures (possibly rootlets), firm, slightly moist	SS	575
SS-7	8/25/10	6	From southwest sidewall of Tank #1 excavation Silty clay, brown, firm, dry	VSS (weathered)	1175
SS-8	1/24/2011	3.5	Collected approximately 1 foot below product line, 20 feet southeast of tank #1 excavation. Clayey silt, olive, firm, dry	NS	0.0
SS-9	1/24/2011	3.5	Collected approximately 0.5 foot below product line, 50 feet southeast of tank #1 excavation. Clayey silt, olive brown, firm, dry	NS	0.0

Table 1. Soil Sample Descriptions - Lopez Village Market

Sample ID	Date	Depth (ft)	Location and Description	Sheen Test*	PID (ppm)
Interim Action Clean Confirmation Soil Samples					
CS-1 8.5ft	1/25/2011	8.5	Collected from center of east sidewall of east tank pit. Silty clay, brown with minor orange mottling, drop stones, firm, dry	NS	0.2
CS-2 8ft	1/25/2011	8	Collected from center of west sidewall of east tank pit. Silty clay, brown, firm, dry	NS	0.0
CS-3 4.5ft	1/25/2011	5	Collected beneath drain line at northwest corner of dispenser area. Clayey silt, brown, firm, moist	NS	0
CS-4 15ft	1/25/2011	15	Collected from center of east test pit floor. Silty clay, brown, firm, dry	NS	3.4
CS-5 4ft	1/26/2011	4	Collected from northeast corner of dispenser area. Clayey silt, brown, firm, moist	NS	1.0
CS-6 5ft	1/26/2011	5	Collected from east sidewall of dispenser area, in front of catch basin. Clayey silt, brown, firm, moist	NS	1.2
PCS-3	1/26/2011	7	Collected at 7 feet below dispenser location. Silty clay, brown with magnesium deposits in fractures, firm, moist	MS	1,163
CS-7 15ft	1/26/2011	15	Collected from east test pit, on east side of floor. Silty clay, brown, firm, moist	NS	0.4
CS-8 15ft	1/26/2011	15	Collected from east test pit, on west side of floor. Silty clay, brown, firm, moist	NS	0.0
CS-9 9ft	1/26/2011	9	Collected from west side of south sidewall. Silty clay, brown, firm, moist	NS	1.7
CS-10 10ft	1/26/2011	10	Collected at southeast corner of east tank pit, below PVC line with drain rock. Silty clay, brown, firm, moist	NS	1.7
CS-11 10 ft	1/26/2011	10	Collected from east test pit floor, beneath old dispenser. Silty clay, brown, firm, moist	NS	0.4
CS-12 5ft	1/26/2011	2	Collected at location of over-excavated CS-6. Over-excavated by 1.5 feet to catch basin. Clayey silt, brown, firm, moist	NS	1.8
PCS-4	1/27/2011	8	Collected at northwest corner of west tank pit in line with west side of former market building. Silty clay, gray and brown, firm, dry (moist in fractures)	VSS	1,252

Table 1. Soil Sample Descriptions - Lopez Village Market

Sample ID	Date	Depth (ft)	Location and Description	Sheen Test*	PID (ppm)
Remedial Investigation Test Pit Soil Samples					
TP-1	1/28/2011	4	Field screened soil at various depths in test pit south of west tank pit.	NA	500
	1/28/2011	5		NA	1,000
	1/28/2011	6		NA	1,000
TP-2	1/28/2011	4	Field screened soil at various depths in test pit 19 feet south of TP-1.	NA	250
	1/28/2011	5		NA	500
	1/28/2011	6		NA	100
TP-2 7 ft	2/18/2011	7	Collected at 7 ft bgs in TP-2 Silty clay, brown, hard, dry	SS	612
TP-3	1/28/2011	3	Field screened soil at various depths in test pit approximately 10 feet west of PCS-4 sample location.	NA	400
	1/28/2011	4		NA	700
	1/28/2011	5		NA	900
	1/28/2011	6		NA	800
TP-4	1/28/2011	4	Field screened soil at various depths in test pit excavated to the east of the northeast corner of the western tank pit excavation. The north edge of Test Pit 4 was dug through product piping trench.	NA	200
	1/28/2011	5		NA	400
	1/28/2011	6		NA	600
	1/28/2011	7		NA	600
TP-5	1/28/2011	NA	Encountered Sewer Line in pit at ~1 to 2 feet bgs	NA	NA
TP-6	1/28/2011	3	Field screened soil at various depths in test pit approximately 23 feet south of southeast excavation corner.	NA	300
	1/28/2011	4		NA	400
	1/28/2011	5		NA	500
TP-6 8ft	2/18/2011	8	Collected at extent of reach in Test Pit 6. Silty clay, angular pebbles, brown, hard, dry	VSS	890
TP-7	1/28/2011	3	Field screened soil at various depths in test pit.	NA	200
	1/28/2011	4		NA	400
	1/28/2011	5		NA	500
TP-7 8ft	2/18/2011	8	Collected in Test Pit 7 at 8 feet below ground surface. Laminated silt and clay, brown, hard, dry	SS	798
TP-8	1/28/2011	3	Field screened soil in Test Pit approximately 25 feet west of southwest building corner located in right-of-way.	NA	401
TP-9	1/28/2011	3	Field screened soil in Test Pit located in right-of-way, approximately 25 feet south of Test Pit 8.	NA	736
TP-10	1/28/2011	5	Field screened soil in Test Pit located in right-of-way, approximately 25 feet south of Test Pit 9.	NA	1.5
TP-11	2/18/2011	4	Field screened soil at various depths in Test Pit approximately 15 feet west of southeast building corner and 15 south of building.	NA	65
		6		NA	475
		8		NA	550
TP-11 6ft	2/18/2011	6	Collected in Test Pit 11 at 6 feet below ground surface. Fine sandy clay, brown, firm, moist	SS	475
TP-11 8ft	2/18/2011	8	Collected in Test Pit 11 at 8 feet below ground surface. Silty clay, brown, firm, moist	NS	550
TP-11 12ft	2/18/2011	12	Collected from Test Pit 11 at depth near boulder. Fine sandy clay, brown, hard, dry	NS	95

Table 1. Soil Sample Descriptions - Lopez Village Market

Sample ID	Date	Depth (ft)	Location and Description	Sheen Test*	PID (ppm)
TP-12 3ft	2/18/2011	3	Collected in Test Pit 12 (approximately 15 feet west of southwest corner of western tank pit). Clayey silt, brown, firm, moist	VSS	878
TP-12 8ft	2/18/2011	8	Collected in Test Pit 12 at 8 feet below ground surface. Fine sandy silt, brown, firm, moist	VSS	938
TP-12 13ft	2/18/2011	13	Collected in Test Pit 12 at 13 feet below ground surface. Silty clay, brown and gray, hard, dry	NS	434
TP-13 8ft	2/18/2011	8	Collected at mini-excavator depth of 8 feet. Silty clay, brown, hard, dry	VSS	702
TP-13 11ft	2/18/2011	11	Collected in Test Pit 13 at 11 feet below ground surface. Silty clay, brown, hard, dry	NS	165
TP-14 8ft	2/18/2011	8	Collected from southeast corner of property in Test Pit 14. Clayey silt, brown, firm, moist	NS	0.4
<u>Remedial Investigation Soil Boring Soil Samples</u>					
B-1 9ft	6/8/2011	9	Collected from Boring 1 at 9 feet below ground surface. Clayey silt, brown, firm, slightly moist	SS	509
B-1 29ft	6/8/2011	29	Collected from Boring 1 at 29 feet below ground surface. Silty clay, gray, abundant fine sand, brown, firm, slightly moist	NS	34
B-2 14ft	6/8/2011	14	Collected from Boring 2 at 14 feet below ground surface. Silty clay, brown, minor gravel to 2", firm, moist	NS	0.0
B-2 29ft	6/8/2011	29	Collected from Boring 2 at 29 feet below ground surface. Silty fine sand, brown, firm, minor gravel moist	NS	0.0
B-3 9ft	6/9/2011	9	Collected from Boring 3 at 9 feet below ground surface. Clayey silt, brown, minor gravel, firm, dry	VSS	149
B-3 14ft	6/9/2011	14	Collected from Boring 3 at 14 feet below ground surface. Silty clay, brown, firm, slightly moist	NS	0.0

All samples collected using EPA Method 5035A

* NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

NA - indicates that the sample was 'Not Analyzed' for the specified parameter

Table 2. Soil Sample Analytical Results - Lopez Village Market

Sample ID	Date	Depth ft bgs	Field Screening PID ppm	Sheen	NWTPH-Gx Gasoline Range mg/kg	EPA-8021 Benzene mg/kg	EPA-8021 Toluene mg/kg	EPA-8021 Ethylbenzene mg/kg	EPA-8021 Xylenes mg/kg
MTCA Method A Cleanup Levels									
		30/100*				0.03	7	6	9
TEE Priority Contaminants of Ecological Concern (Table 749-2)									
				200		--	--	--	--
UST Site Assessment Soil Samples									
PCS-1**	8/30/2010	3	7	NS	820	ND(<0.15)	3.5	8.1	56
PCS-2**	8/30/2010	--	887	MS	750	0.9	1.6	4.8	18
Dispenser**	8/30/2010	--	1,073	SS	ND(<3.0)	0.046	ND(<0.05)	ND(<0.05)	ND(<0.20)
SS-1**	8/30/2010	14	2	NS	ND(<3.0)	0.031	ND(<0.05)	0.21	ND(<0.20)
SS-2**	8/30/2010	7	270	NS	61	ND(<0.03)	0.31	1.5	8.5
SS-3	8/30/2010	7	2	NS	3.5	ND(<0.03)	ND(<0.05)	0.059	ND(<0.20)
SS-4**	8/30/2010	12	154	VSS	82	0.93	0.5	2.0	6.0
SS-5	8/30/2010	6	162	VSS	27	ND(<0.03)	0.09	0.16	0.47
SS-6**	8/30/2010	7	575	SS	970	1.4	ND(<1.0)	9.2	16
SS-7**	8/30/2010	6	1,175	VSS	480	2.4	13	6.6	36
SS-8	1/24/2011	3.5	0.0	NS	ND(<10)	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
SS-9	1/24/2011	3.5	0.0	NS	ND(<10)	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)

Table 2. Soil Sample Analytical Results - Lopez Village Market

Sample ID	Date	Depth ft bgs	Field Screening PID ppm	NWTPH-Gx Gasoline Range mg/kg	EPA-8021 Benzene mg/kg	EPA-8021 Toluene mg/kg	EPA-8021 Ethylbenzene mg/kg	EPA-8021 Xylenes mg/kg
MTCA Method A Cleanup Levels								
				30/100*	0.03	7	6	9
TEE Priority Contaminants of Ecological Concern (Table 749-2)								
				200	--	--	--	--
Interim Action Clean Confirmation Soil Samples								
CS-1 8.5 ft	1/25/2011	8.5	0.2	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-2 8 ft	1/25/2011	8.0	0.0	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-3 4.5 ft	1/25/2011	4.5	0.0	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-3 4.5 ft Dup	1/25/2011	4.5	0.0	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-4 15 ft**	1/25/2011	15.0	3.4	NS	0.04	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-5 4ft	1/26/2011	4.0	1.0	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-6 5ft**	1/26/2011	5.0	1.2	NS	0.066	0.32	0.096	0.73
PCS-3**	1/26/2011	7.0	1,163	MS	5.62	36	12.4	89
CS-7 15ft	1/26/2011	15.0	0.4	NS	0.026	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-8 15ft	1/26/2011	15.0	0.0	NS	0.026	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-9 9ft	1/26/2011	9.0	1.7	NS	0.023	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-10 10ft	1/26/2011	10.0	1.7	NS	0.022	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-11 10ft	1/26/2011	10.0	0.4	NS	0.021	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-12 5ft	1/26/2011	5.0	1.8	NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
CS-12 5ft Dup	1/26/2011			NS	ND(<0.02)	ND(<0.1)	ND(<0.05)	ND(<0.15)
PCS-4	1/27/2011	8.0	1,252	VSS	8.42	11.1	2.71	15.8
PCS-4 Dup	1/27/2011	--	--	--	7.94	10.9	2.69	15.7

Table 2. Soil Sample Analytical Results - Lopez Village Market

Sample ID	Date	Depth ft bgs	Field Screening PID ppm	NWTPH-Gx Gasoline Range mg/kg	EPA-8021 Benzene mg/kg	EPA-8021 Toluene mg/kg	EPA-8021 Ethylbenzene mg/kg	EPA-8021 Xylenes mg/kg
MTC Method A Cleanup Levels								
				30/100*	0.03	7	6	9
TEE Priority Contaminants of Ecological Concern (Table 749-2)								
				200	--	--	--	--
Remedial Investigation Test Pit Soil Samples								
TP-2 7ft	2/18/2011	7	612	SS	0.049	ND(<0.05)	0.57	0.44
TP-6 8ft	2/18/2011	8	890	VSS	5.4	4.3	1.8	11
TP-7 8ft	2/18/2011	8	798	SS	5.3	1.5	5.1	29
TP-11 6ft	2/18/2011	6	475	SS	0.10	ND(<0.05)	0.72	0.54
TP-11 8ft	2/18/2011	8	550	NS	ND(<0.03)	ND(<0.05)	0.51	1.1
TP-11 12ft	2/18/2011	12	95	NS	0.048	ND(<0.05)	0.077	ND(<0.20)
TP-12 3ft	2/18/2011	3	878	VSS	5.6	8.6	7.80	38
TP-12 8ft	2/18/2011	8	938	VSS	3.3	2.8	3.1	20
TP-12 13ft	2/19/2011	13	434	NS	3.2	ND(<0.05)	0.24	ND(<0.20)
TP-13 8ft	2/18/2011	8	702	VSS	0.26	ND(<0.20)	3.8	9
TP-13 11ft	2/18/2011	11	165	NS	1.2	0.10	0.74	1.1
TP-14 8ft	2/18/2011	8	0.4	NS	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.20)

Table 2. Soil Sample Analytical Results - Lopez Village Market

Sample ID	Date	Depth ft bgs	Field Screening PID ppm	NWTPH-Gx Gasoline Range mg/kg	EPA-8021 Benzene mg/kg	EPA-8021 Toluene mg/kg	EPA-8021 Ethylbenzene mg/kg	EPA-8021 Xylenes mg/kg
MTCA Method A Cleanup Levels								
				30/100*	0.03	7	6	9
TEE Priority Contaminants of Ecological Concern (Table 749-2)				200	--	--	--	--
Remedial Investigation Soil Boring Soil Samples								
B-1 9ft	6/8/2011	9	509	SS	1,300	5.9	27	150
B-1 29ft	6/8/2011	29	34	NS	2.4	ND(<0.05)	0.35	ND(<0.20)
B-2 14ft	6/8/2011	14	0.0	NS	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.20)
B-2 29ft	6/8/2011	29	0.0	NS	ND(<0.03)	ND(<0.05)	ND(<0.05)	ND(<0.20)
B-3 9ft	6/9/2011	9	149	VSS	1.2	0.16	1.5	6.6
B-3 14ft	6/9/2011	14	17	VSS	0.19	ND(<0.05)	ND(<0.05)	ND(<0.20)

* cleanup level depends on BTEX concentration

** - indicates that the specified soil sample was over-excavated and the location was re-sampled

Bold - Sample exceeded the MTCA Method A target cleanup level

ND- indicates analyte was not detected at level above reporting limit (shown in parentheses)

NA- indicates that the sample was not analyzed for the specified parameter

* NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Table 3. Groundwater Chemistry Parameters - Lopez Village Market

Well ID units:	Date	Temp °C	EC mS/cm ²	TDS	Sal ppt	DO mg/L	pH	ORP
MW-1	6/23/2011	14.98	2.569	1.669	1.34	0.11	7.07	39.7
	8/18/2011	14.23	2.504	1.627	1.3	0.04	7.1	-20.6
MW-2	6/23/2011	13.14	1.192	0.775	0.60	0.60	6.94	60.2
	8/18/2011	13.53	1.126	0.731	0.56	0.14	6.97	89.2
MW-3	6/23/2011	13.59	0.996	0.647	0.50	0.64	7.55	14.1
	8/18/2011	14.3	1.242	0.808	0.62	0.21	7.23	5.5

Parameters measured using YSI 556 Multi Probe System and recorded after parameter stabilization.

Table 5. Soil Sample MTCA Method B Analytical Results (VPH/EPH) - Lopez Village Market

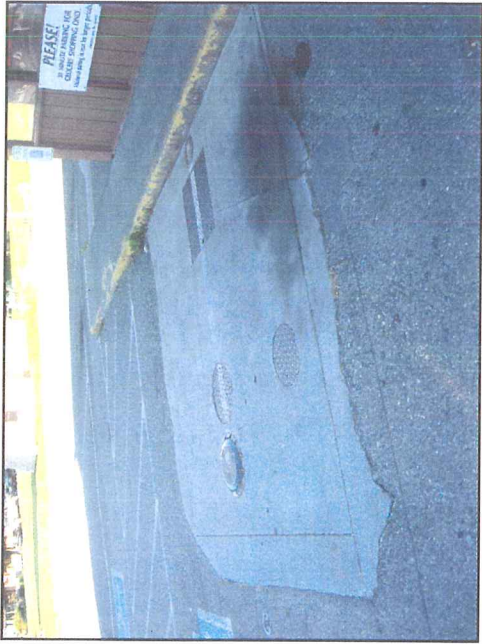
Analyte	Sample ID	TP-6 8ft (mg/kg)	TP-7 8ft (mg/kg)	TP-13 8ft (mg/kg)	B-1 9ft (mg/kg)	B-3 9ft (mg/kg)	Method B Criteria
Aliphatics							
C5-C6		ND	18.3	8.4	40	ND	
>C6-C8		22	72	41	240	9.5	
>C8-C10		ND	10	7	ND	ND	
>C10-C12		11	44	40	130	6	
>C12-C16		ND	ND	ND	12	ND	
>C16-C21		ND	ND	ND	ND	ND	
>C21-C34		ND	ND	ND	ND	ND	
Aromatics							
>C8-C10		21.2	65.9	63.2	293	14.9	
>C10-C12		28.32	85.43	109.28	308.7	15.62	
>C12-C16		14.43	47.63	67.02	155.1	7.2	
>C16-C21		ND	ND	ND	ND	ND	
>C21-C34		ND	ND	ND	ND	ND	
BTEX							
Benzene		5.4	5.3	0.26	19	1.2	
Toluene		4.3	1.5	ND	5.9	0.16	
Ethylbenzene		1.8	5.1	3.8	27	1.5	
Xylenes		11	29	9	150	6.6	
MTBE		NA	NA	NA	NA	NA	
n-Hexane		0.76	5.7	2.6	14	0.37	
EDB/EDC							
1,2-Dichloroethane (EDC)		NA	NA	NA	0.25	0.027	
1,2-Dibromoethane (EDB)		NA	NA	NA	ND	ND	
Polynuclear Aromatic Hydrocarbons							
Naphthalene		0.68	0.57	0.72	1.3	0.38	
1-Methylnaphthalene		0.47	0.41	0.58	1.5	0.16	
2-Methylnaphthalene		1.1	0.96	1.4	3.4	0.44	
Benzo(a)anthracene		ND	ND	ND	ND	ND	
Benzo(a)pyrene		ND	ND	ND	ND	ND	
Benzo(b)fluoranthene		ND	ND	ND	ND	ND	
Benzo(k)fluoranthene		ND	ND	ND	ND	ND	
Chrysene		ND	ND	ND	ND	ND	
Dibenz(a,h)anthracene		ND	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene		ND	ND	ND	ND	ND	
Calculated TPH Concentration (mg/kg)		139.2	393.05	366.86	1,413.653	81.192	
							Criteria
Method B Hazard Index		0.0606	0.134	0.14	0.466	0.0293	1
Method C Hazard Index		0.00319	0.00717	0.00801	0.0251	0.00165	1
Method B Potable GW Hazard Index		13.5	13.5	2.76	31.2	3.33	1
Method B Risk		4.57E-07	4.59E-07	1.74E-07	2.42E-05	4.01E-06	0.00001
Method C Risk		7.94E-08	8.05E-08	4.15E-08	4.07E-06	7.91E-07	0.00001
Method B Potable GW Risk		0.000495	0.000457	2.27E-05	0.0218	0.00387	0.00001
Method B - Protective Soil TPH Conc. (mg/kg)		468	1,347	2,302	61	33	
Method C - Protective Soil TPH Conc. (mg/kg)		17,537	48,844	45,778	3,472	1,026	<i>see Calculated TPH Conc.</i>
Method B Potable GW - Protective Soil TPH Conc. (mg/kg)		2	5	97	0	0	

ND indicates that sample was non-detect for the specified analyte

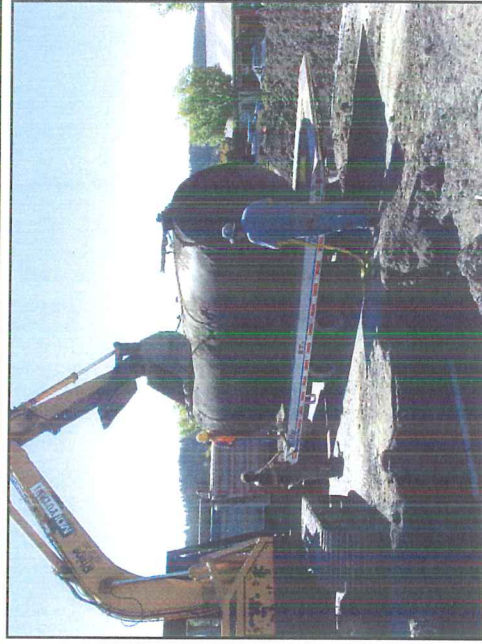
Bold - Sample exceeded the MTCA Method B target cleanup level

Table 6. Total Organic Carbon - Lopez Village Market

Sample ID	Date	Depth (ft)	Soil Type	Total Organic Carbon EPA - SW9060 (mg/kg - dry)	Fraction Organic Carbon Walkley-Black (g-C/g-soil)	foc unitless
TP-14 8 ft	2/18/11	8	Clayey Silt	7,500		0.0075
B-2 14 ft	6/8/11	14	Silty Clay	790		0.00079
B-2 29 ft	6/8/11	29	Silty Fine Sand	410		0.00041
B-2 13.0-13.5	6/8/11	13	Silt		0.00059	0.00059
					Average foc:	0.0023225



Photograph 1. A view to the west looking at the surface features of the former western UST location.



Photograph 2. A view to the south looking at the western UST being loaded on a trailer after removal for transportation offsite.



Photograph 3. A view to the south of MarVac Services removing pit water from the western tank pit prior to excavation of PCS.



Photograph 4. A view to the west looking at the western tank pit west sidewall. Note the dry silt and no evidence of groundwater recharge.

Prepared for:

Lopez Village
Market

Prepared by:

nwhatcom
ENVIRONMENTAL

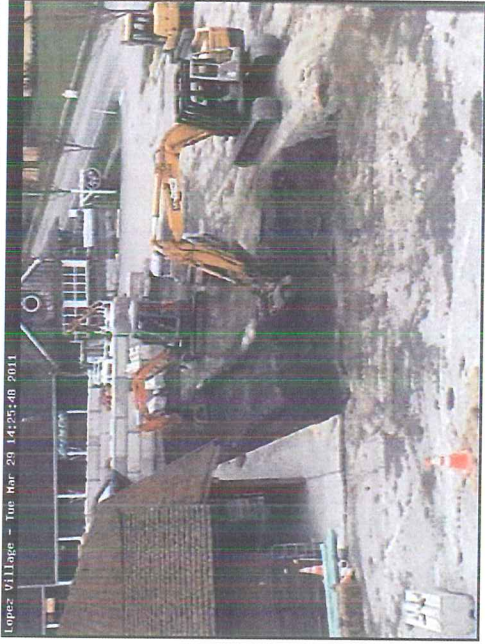
Lopez Village
Market

August 11, 2011

Photograph Log



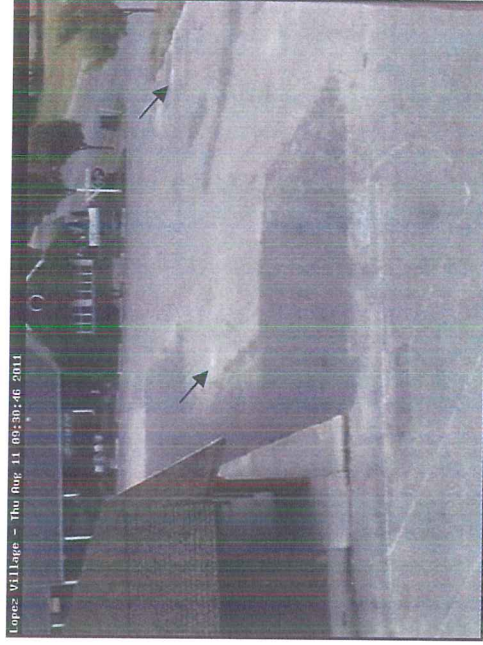
Photograph 5. A view to the northeast from the southwest corner of the subject property looking at the location of Test Pit #10.



Photograph 6. A view of the subject property from the Lopez Village Web Cam that shows the backfilling of the western tank pit excavation and product piping trench.



Photograph 7. A view to the southwest looking at the well installation process for monitoring well MW-3.



Photograph 8. A view from the Web Cam showing the condition of the site following the PCS removal work, test pit investigations, and the well installation work. Wells MW-1 and MW-2 are indicated by the arrows.

Prepared for:

Lopez Village
Market

Prepared by:

nwhatcom
ENVIRONMENTAL

Lopez Village
Market

August 11, 2011

Photograph Log

APPENDIX A

UST Site Assessment Report
September 7, 2010

Not scanned: Available in separate document.

APPENDIX B

Soil and Water Disposal Records



Release of Liability/Certificate of Disposal

WHATCOM ENVIRONMENTAL & their client; are released from liability for all petroleum contaminated soil originating from:

**LOPEZ VILLAGE MARKET SITE
214 LOPEZ ROAD
LOPEZ ISLAND WA.**

and transported to:

**CEMEX USA-Soil Remediation
6300 Glenwood Ave.
Everett WA 98203**

From 1/12/2011 through 6/12/2011

A total of 805.42 tons of petroleum-contaminated soil were transported to the above facility. The material was disposed of in the following manner:

Thermal Desorption / Landfill for Reclamation

Disposal of the contaminated soil was performed in accordance with all applicable federal, state, and local laws and regulations.

Date: August 11th, 2011

Signed:

A handwritten signature in cursive script that reads "Larry W. Baker".

Larry W. Baker
Soil Remediation Operations Manager
CEMEX
Northwest Region
U.S. Operations

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. _____

Carrier No. _____

Page _____ of _____

MAK VAC

(Name of carrier)

(SCAC)

Date *1-25-11*

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: *MARINE VACUUM SERVICES*
Consignee

Street *1516 S. Graham St.*

City, State, Zip Code *SEATTLE WA 98108*

FROM: Shipper *Whitcam Environmental*

Street *Lopez Rd.*

City, State, Zip Code *Lopez Island*

24 hr. Emergency Contact Tel. No. _____

Route

Vehicle Number *204*

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<i>FTI</i>		<i>NON-REGULATED WASTE WATER</i>	<i>1250</i>	<i>Gallon</i>		

PLACARDS TENDERED: YES ___ NO ___

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor) _____

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER *[Signature]*

CARRIER *MARINE VACUUM*

PER *[Signature]*

DATE *1-25-11*

Permanent post-office address of shipper.

STYLE F365L © 2003 LABELMASTER® (800) 621-5808 www.labelmaster.com



Certificate to Transport Vehicle Loaded with Hazardous Material

To be completed prior to movement over ferries.
Transport of hazardous materials on ferry vessels subject to the Code of Federal Regulations

Shipment Information		<input type="checkbox"/> HazMat Charter <input type="checkbox"/> Passenger Carrying Trip	
Check One <input type="checkbox"/> Full <input checked="" type="checkbox"/> Partial <input type="checkbox"/> Empty	Date/Time of Shipment 10:00 AM	Bill of Lading <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MSDS <input type="checkbox"/> Yes <input type="checkbox"/> No	
Emergency Response Guidebook No. DOT P-5800.3	Ferry Terminal From ANACOSTIA	Destination LOPEZ ISLAND	

Hazardous Material Information

Placard No.	Hazardous Material Description	Hazard Class	Quantity	Packing Group	No. of Pkg.	Weight
N/A	Non-Hazardous Non-Regulated Waste Water		1250			600 lbs

Vendor Information

Name of Transport Company MAXINE VACUUM			Phone No. 206-767-0210		
Address 1516 S. Graham St		City Seattle	State WA	Zip Code 98168	
Type of Vehicle <input checked="" type="checkbox"/> Tank Truck <input type="checkbox"/> Freight Truck <input type="checkbox"/> Military <input type="checkbox"/> Other _____					
Vehicle License / ID Number(s) 201			Name of Driver (Note: Driver must remain with vehicle while on board ferry) Sokha Chitt		

Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. To the best of my knowledge, there are no articles within this vehicle that are not permitted to be transported on board a passenger carrying vessel. **(Title 49 CFR, Part 172.204).**

Signature (Must be signed by shipper) 	Business Address Whatecom Env Services 724 E. Champion St #101 15111 William WA 98148
---	--

Distribution: Original - Vessel
Copies to: Safety Officer; Shipper

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 08861

Carrier No.

Date 1-24-11

MARINE VACUUM SERVICE INC.

Page of

(Name of carrier)

(SCAC)

TO: MARINE VACUUM SERVICE INC.
1516 S. GRAHAM ST.
SEATTLE WA 98108

FROM: Shipper
Street
City State Zip Code
24 hr. Emergency Contact Tel. No. 800-540-7491

Route Vehicle Number 201

Table with columns: No. of Units & Container Type, HM, BASIC DESCRIPTION, TOTAL QUANTITY, WEIGHT, RATE, CHARGES. Includes handwritten entry 'LOPEZ VILLAGE MARKET'.

PLACARDS TENDERED: YES NO

Note - (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property...

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

REMIT C.O.D. TO: ADDRESS
COD Amt: \$
C.O.D. FEE: PREPAID COLLECT
TOTAL CHARGES \$
FREIGHT PREPAID Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

ination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER PER CARRIER MARINE VACUUM SERVICE INC. PER DATE 1-24-11

Permanent post-office address of shipper.



PRINTED ON RECYCLED PAPER USING SOYBEAN INK



4



Certificate to Transport Vehicle Loaded with Hazardous Material

To be completed prior to movement over ferries.
Transport of hazardous materials on ferry vessels subject to the Code of Federal Regulations

Shipment Information		<input type="checkbox"/> HazMat Charter <input type="checkbox"/> Passenger Carrying Trip	
Check One <input type="checkbox"/> Full <input type="checkbox"/> Partial <input checked="" type="checkbox"/> Empty	Date/Time of Shipment 1-24-11 2:30	Bill of Lading <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MSDS <input type="checkbox"/> Yes <input type="checkbox"/> No	
Emergency Response Guidebook No. DOT P-5800.3	Ferry Terminal From Anacortes	Destination Lopez Island	

Hazardous Material Information

Placard No.	Hazardous Material Description	Hazard Class	Quantity	Packing Group	No. of Pkg.	Weight
	Non Regulated materials		5000			5000

Vendor Information

Name of Transport Company MARC VTC		Phone No. 206 767 1216	
Address 1576 S. Central St		City Seattle	State WA
		Zip Code 98148	
Type of Vehicle <input checked="" type="checkbox"/> Tank Truck <input type="checkbox"/> Freight Truck <input type="checkbox"/> Military <input type="checkbox"/> Other _____			
Vehicle License / ID Number(s) 211		Name of Driver (Note: Driver must remain with vehicle while on board ferry) Sandra Smith	

Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. To the best of my knowledge, there are no articles within this vehicle that are not permitted to be transported on board a passenger carrying vessel. (Title 49 CFR, Part 172.204).

Signature (Must be signed by shipper) 	Business Address Lopez Village Market Lopez Rd.
---	---

Distribution: Original - Vessel
Copies to: Safety Officer; Shipper

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. **08860**

Carrier No. _____

Page 1 of 1

MARINE VACUUM SERVICE INC.

Date 01/24/2011

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **MARINE VACUUM SERVICE INC.**

Consignee **MARINE VACUUM SERVICE INC.**

Street **1516 S. GRAHAM ST.**

City **SEATTLE** State, **WA** Zip Code **98108**

FROM: Shipper Whitcom Environmental

Street 214 Lopez road

City Lopez Wash State WA Zip Code _____

24 hr. Emergency Contact Tel. No. **800-540-7491**

Route _____ Vehicle Number 103

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>TK</u>		<u>Non-Regulated Liquid waste water/sewer treatment hole</u>	<u>3700 gal</u>	<u>1/2</u>		
		<u>LOPEZ VILLAGE MARKET</u>				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS **COD** Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT PREPAID Check box if charges are to be collected

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [Signature] CARRIER **MARINE VACUUM SERVICE INC.**

PER Harold Cashman PER [Signature]

DATE 01/24/2011

3



Certificate to Transport Vehicle Loaded with Hazardous Material

To be completed prior to movement over ferries.

Transport of hazardous materials on ferry vessels subject to the Code of Federal Regulations

Shipment Information

<input type="checkbox"/> Full <input checked="" type="checkbox"/> Partial <input checked="" type="checkbox"/> Empty		Date/Time of Shipment <i>01/24/2011</i>	<input type="checkbox"/> HazMat Charter <input type="checkbox"/> Passenger Carrying Trip
Emergency Response Guidebook No. DOT P-5800.3	Ferry Terminal From <i>Anacortes</i>	Bill of Lading <input type="checkbox"/> Yes <input type="checkbox"/> No MSDS <input type="checkbox"/> Yes <input type="checkbox"/> No	Destination <i>Lopez Island</i>

Hazardous Material Information

Placard No.	Hazardous Material Description	Hazard Class	Quantity	Packing Group	No. of Pkg.	Weight
	<i>waste water</i>	<i>Not Regulated</i>			<i>3,700 gal</i>	<i>br</i>

Vendor Information

Name of Transport Company <i>Marine Vacuum Service</i>		Phone No. <i>206 757 6240</i>	
Address <i>1516 S. Graham St</i>	City <i>Seattle</i>	State <i>WA</i>	Zip Code <i>98108</i>
Type of Vehicle <input checked="" type="checkbox"/> Tank Truck <input type="checkbox"/> Freight Truck <input type="checkbox"/> Military <input type="checkbox"/> Other _____			
Vehicle License / ID Number(s)		Name of Driver (Note: Driver must remain with vehicle while on board ferry)	

Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. To the best of my knowledge, there are no articles within this vehicle that are not permitted to be transported on board a passenger carrying vessel. **(Title 49 CFR, Part 172.204).**

Signature (Must be signed by shipper) <i>[Signature]</i>	Business Address
---	------------------

Distribution: Original - Vessel
Copies to: Safety Officer; Shipper

This Shipping Order

Must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 11210

Carrier No. _____

Page 1 of 4

MARINE VACUUM SERVICE INC.

Date 03/28/11

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Consignee MARINE VACUUM SERVICE INC.
 Street 1516 S. GRAHAM ST.
 City SEATTLE State WA Zip Code 98108

FROM: Shipper Whatcom Environmental
 Street _____
 City Lopez Island State WA Zip Code _____
 24 hr. Emergency Contact Tel. No. 800-540-7691

Route _____ Vehicle Number 204

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>1 TT</u>		<u>Non Regulated Waste Water</u>	<u>4000 gallons</u>			

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Sect'on 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS _____

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor _____

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER _____
 PER _____

CARRIER MARINE VACUUM SERVICE INC.
 PER _____
 DATE 3/28/11

2

APPENDIX C

Bore Logs and Well Construction Diagrams

Boring Log

Project: Lopez Village Market
 Client: Lopez Village Market
 Boring Number: **B-1**
 Location: Near Building
 Date Completed: 6/8/2011

Sheet: 1 of 1
 Drilled by: EDI - Tom Adams
 Logged by: Harold Cashman
 First Encountered Water: ~33 ft
 Total Depth: 40.5 ft

Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
2.5' to 4.0' Clayey silt, brown, moderate gray and orange mottling, firm, dry	6-7-13	33 241 in shoe	NS	
7.5' to 9.0' Clayey silt, brown, firm, slightly dry	5-9-14	509	SS	BR 8-8.5 SS-9ft
12.5' to 14.0' Silty clay, brown, firm, slightly moist	5-7-10	640	SS	
17.5' to 19.0' Silty clay, brown, firm, slightly moist	3-4-7	284	NS	
22.5' to 24.0' Clayey silt, brown, moderate fine sand, moderate gravel to 2", firm, slightly moist	5-8-16	40	VSS	
27.5' to 29.0' Silty clay, gray, abundant fine sand, brown, firm, slightly moist	8-9-24	34	NS	SS-29ft
32.5' to 34.0' Silty fine sand, gray, slightly plastic, moist	9-13-23	53	NS	BR 33-33.5
37.5' to 39.0' Fine sandy silt, gray, minor gravel, slightly plastic, moist	6-10-9	0.0	NS	
SS - Soil Sample				
BR - Brass Ring Geotechnical Sample				

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Boring Log

Project: Lopez Village Market
 Client: Lopez Village Market
 Boring Number: **B-2**
 Location: SE corner of parking lot
 Date Completed: 6/8/2011

Sheet: 1 of 1
 Drilled by: EDI - Tom Adams
 Logged by: Harold Cashman
 First Encountered Water: ~27.5 ft
 Total Depth: 30 ft

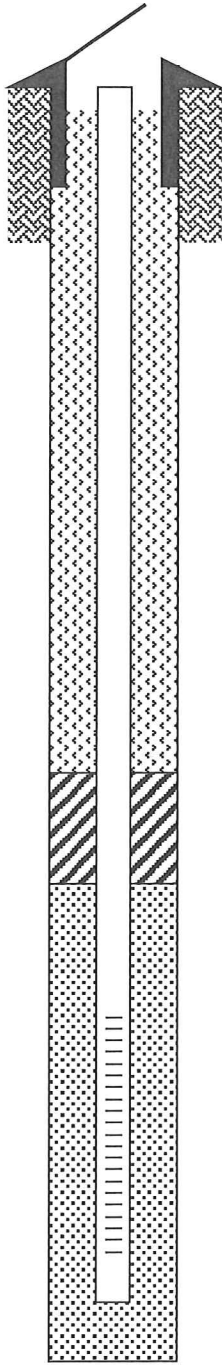
Depth/Description	Blow Count	PID (ppm)	Sheen	Sample
2.5' to 4.0' Clayey silt, gray with minor brown and orange mottling, firm, dry - upper 6" organic rich, black (topsoil layer?)	7-12-15	0.0	NS	
7.5' to 9.0' Clayey silt, brown, firm, dry	8-10-11	0.0	NS	
12.5' to 14.0' Clayey silt, brown, minor gravel to 2", firm slightly moist	5-8-14	0.0	NS	BR 13-13.5 SS at 14ft
17.5' to 19.0' Silty clay, brown, minor gravel, firm, slightly moist	7-10-14	0.0	NS	
22.5' to 24.0' Clayey silt, brown, moderate fine sand, moderate gravel to 2", slightly moist	5-6-16	0.0	NS	
27.5' to 29.0' Silty fine sand, brown, minor gravel, firm, moist	11-11-26	0.0	NS	SS at 29 ft
SS - Soil Sample				
BR - Brass Ring Geotechnical Sample				

WHATCOM ENVIRONMENTAL SERVICES INC.

www.whatcomenvironmental.com

NS = No Sheen; VSS = Very Slight Sheen; SS = Slight Sheen; MS = Moderate Sheen; HS = Heavy Sheen

Well Design Specifications



Depths in
Feet Below
Ground
Surface

22.5'
26.5'
30'
40'
40.5'
40.5'

Not to Scale

Elevations (feet): Top of Casing: 24.71 ft
Mean Sea Level (MSL) Ground Elevation: _____
Coordinates: 562641.753763 N 1136237.68911 E
Coordinate System: NAD 1983 WA StatePlane
Type of Casing: PVC
Casing Diameter: 2"
Screen Slot: 0.010
Screen Style: Machine Slot
Sand Pack: Colorado Silica Sand 10/20
Bentonite Seal: Pure gold medium Bentonite chip
Grout Type: Cetco Grout **Weight:** _____
Bore Hole Diameter: 8"
Drill Rig: B-61 Hollow Stem Auger
Drilled by: Tom Adams - EDI
Logged by: Harold Cashman
Completion Date: 6/8/11

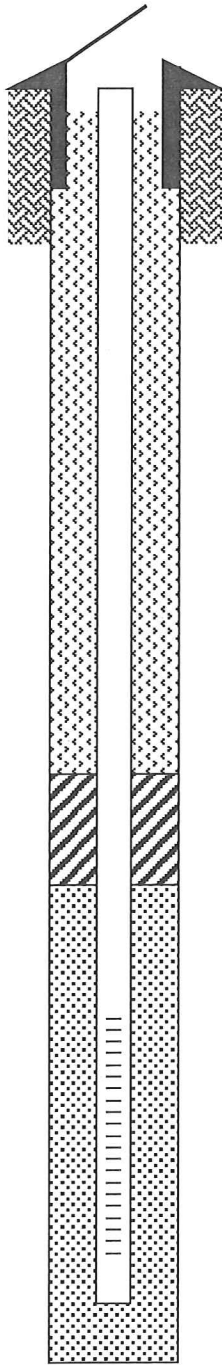
Date of Measurement	D-T-W (ft)	Water Level (ft. MSL)	Field pH	Field EC (mV)
6/23/2011	12.79	11.92	7.07	2,569
8/18/2011	13.9	10.81	7.1	2,504

Comments: _____

Project: Lopez Village Market
Location: Building

Whatcom Environmental Services 228 East Champion Street #101 Bellingham, WA 98225 (360) 752-9571	MW - 1 BCB-747
	Lopez Village Market

Well Design Specifications



Depths in Feet Below Ground Surface

1.5'
7'
10'
29.5'
30'
30'

Elevations (feet): Top of Casing: 22.79 ft
Mean Sea Level (MSL) Ground Elevation: _____
Coordinates: 562630.92042 N 1136168.83496 E
Coordinate System: NAD 1983 WA StatePlane
Type of Casing: PVC
Casing Diameter: 2"
Screen Slot: 0.010
Screen Style: Machine Slot
Sand Pack: Colorado Silica Sand 10/20
Bentonite Seal: Pure gold medium Bentonite chip
Grout Type: none **Weight:** _____
Bore Hole Diameter: 8"
Drill Rig: B-61 Hollow Stem Auger
Drilled by: Tom Adams - EDI
Logged by: Harold Cashman
Completion Date: 6/8/11

Date of Measurement	D-T-W (ft)	Water Level (ft. MSL)	Field pH	Field EC (mV)
6/23/2011	10.7	12.09	6.94	1,192
8/18/2011	11.84	10.95	6.97	1,126

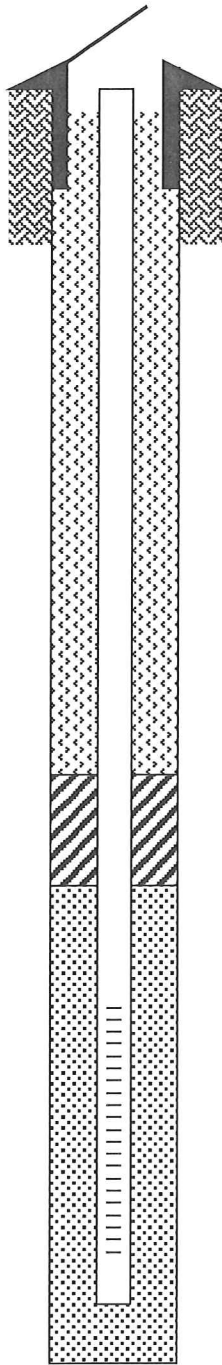
Comments: _____

Project: Lopez Village Market
Location: SE corner of parking lot

Not to Scale

<p>Whatcom Environmental Services 228 East Champion Street #101 Bellingham, WA 98225 (360) 752-9571</p>	<p>MW - 2 BCB-748</p> <hr/> <p>Lopez Village Market</p>
---	--

Well Design Specifications



Depths in Feet Below Ground Surface

2.0'
7.0'
10.0'
29.67'
30'
30'

Not to Scale

Elevations (feet): Top of Casing: 22.77 ft
Mean Sea Level (MSL) Ground Elevation: _____
Coordinates: 562584.98292 N 1136236.8558 E
Coordinate System: NAD 1983 WA StatePlane
Type of Casing: PVC
Casing Diameter: 2"
Screen Slot: 0.010
Screen Style: Machine Slot
Sand Pack: Colorado Silica Sand 10/20
Bentonite Seal: Pure gold medium Bentonite chip
Grout Type: none **Weight:** _____
Bore Hole Diameter: 8"
Drill Rig: B-61 Hollow Stem Auger
Drilled by: Tom Adams - EDI
Logged by: Harold Cashman
Completion Date: 6/9/11

Date of Measurement	D-T-W (ft)	Water Level (ft. MSL)	Field pH	Field EC (mV)
6/23/2011	5.25	17.52	7.55	996
8/18/2011	6.23	16.54	7.23	1,242

Comments: _____

Project: Lopez Village Market
Location: West corner of parking lot

Whatcom Environmental Services 228 East Champion Street #101 Bellingham, WA 98225 (360) 752-9571	MW - 3 BCB-749
	Lopez Village Market

APPENDIX D

Soil Geotechnical Data and Grain Size Distribution Curves



8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

July 1, 2011

Harold Cashman
Whatcom Environmental Services
228 E. Champion Street, Suite 101
Bellingham, WA 98225

Re: PTS File No: 41376
Physical Properties Data
Lopez Village Market

Dear Mr. Cashman:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Lopez Village Market project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give Rachel Spitz a call at (562) 347-2504.

Sincerely,
PTS Laboratories

Michael Mark Brady, P.G.
District Manager

Encl.

PTS Laboratories

Project Name: Lopez Village Market
 Project Number: N/A

PTS File No: 41376
 Client: Whatcom Environmental

TEST PROGRAM - 20110614

CORE ID	Depth ft.	Core Recovery ft.	New Mexico RBDM Pkg. Hor. 1"	Notes	
				Plugs:	
B-1 8.0-8.5 ft	8.0-8.5	0.50	X		
B-1 33.0-33.5 ft	33.0-33.5	0.50	X		
B-2 13.0-13.5 ft	13.0-13.5	0.50	X		
B-3 23.0-23.5 ft	23.0-23.5	0.50	X		
TOTALS:	4 cores	2.00	4		4

Laboratory Test Program Notes

New Mexico RBDM Package: Intrinsic permeability to water/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content, foc, and grain size analyses.

PTS Laboratories

Project Name: Lopez Village Market
 Project Number: N/A

PTS File No: 41376
 Client: Whatcom Environmental

TEST PROGRAM - 20110614

CORE ID	Depth ft.	Core Recovery ft.	New Mexico RBDM Pkg.	Notes
Date Received: 20110614				
B-1	8.0-8.5 ft	0.50	X	
B-1	33.0-33.5 ft	0.50	X	
B-2	13.0-13.5 ft	0.50	X	
B-3	23.0-23.5 ft	0.50	X	
TOTALS:	4 cores	2.00	4	4

Laboratory Test Program Notes

New Mexico RBDM Package: Intrinsic permeability to water/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content, foc, and grain size analyses.

New Mexico RBDM Pkg. 409 \$1,636
 Disposal 2 \$8

Cooler Return at \$30
 \$1,674.00

Test Program Acknowledgement
 Electronic Signature: Harold Cashman
 Date: 6/16/2011

PTS File No: 41376
 Client: Whatcom Environmental

PHYSICAL PROPERTIES DATA - NEW MEXICO PACKAGE RBDM

PROJECT NAME: Lopez Village Market
 PROJECT NO: N/A

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	METHODS:		API RP40		WALKLEY-BLACK		ASTM D2216/API RP40		API RP40		API RP 40; EPA 9100	
			GRAIN DENSITY [g/cm ³]	DRY BULK DENSITY [g/cm ³]	FRACTION ORGANIC CARBON [g-C/g-soil]	VOLUMETRIC WATER CONTENT AS FRACTION OF V _b [cm ³ /cm ³]	TOTAL MEASURED POROSITY [cm ³ /cm ³]	AIR FILLED POROSITY [cm ³ /cm ³]	INTRINSIC PERMEABILITY TO WATER [cm ⁴]	NATIVE HYDRAULIC CONDUCTIVITY [cm/sec]				
B-1	8.0-8.5	V	2.87	1.41	4.50E-04	0.232	0.508	0.275	2.27E-11	2.26E-06				
B-1	33.0-33.5	V	2.81	1.80	5.70E-04	0.277	0.359	0.082	1.69E-11	1.71E-06				
B-2	13.0-13.5	V	2.93	1.37	5.90E-04	0.361	0.533	0.172	2.15E-11	2.16E-06				
B-3	23.0-23.5	V	2.98	1.23	1.15E-03	0.429	0.587	0.158	1.90E-11	1.90E-06				

(1) Sample Orientation: H = horizontal; V = vertical (2) Native State or Effective = With as-received pore fluids in place (3) Permeability to water and hydraulic conductivity measured at saturated conditions

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: Lopez Village Market
PROJECT NO: N/A

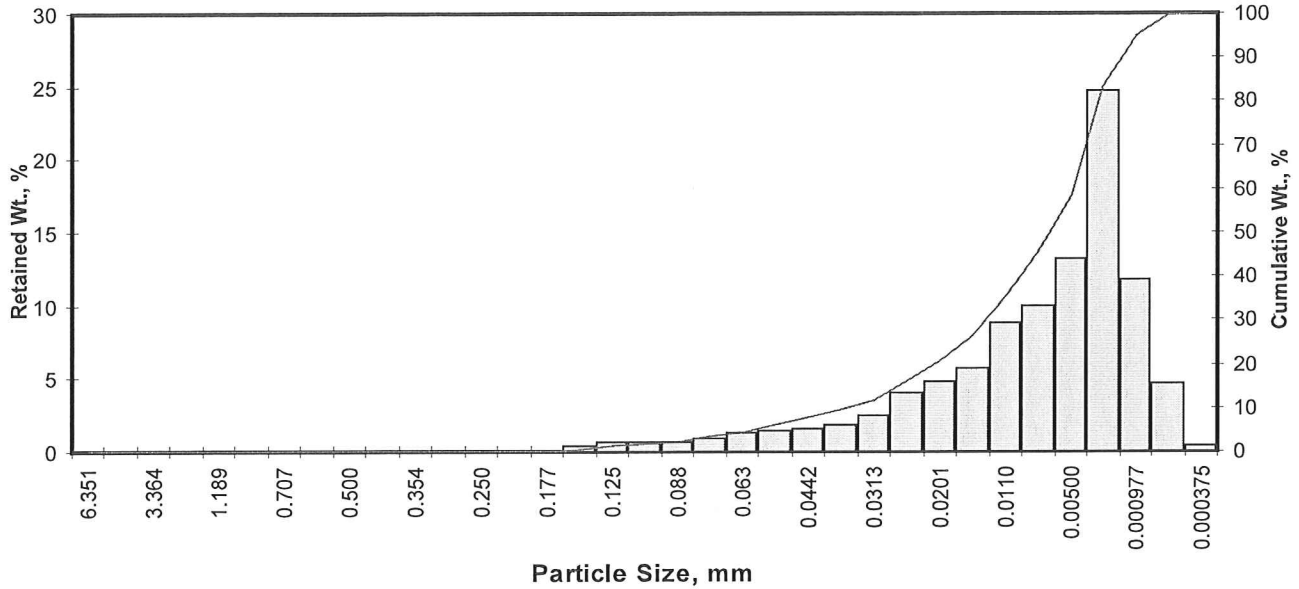
Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent					Silt & Clay	
				Gravel	Sand Size			Silt		Clay
					Coarse	Medium	Fine			
B-1 8.0-8.5 ft	8.0-8.5	Silt	0.007	0.00	0.00	3.24	55.15	41.61	96.76	
B-1 33.0-33.5 ft	33.0-33.5	Fine sand	0.037	0.00	10.84	26.91	43.50	18.76	62.25	
B-2 13.0-13.5 ft	13.0-13.5	Silt	0.006	0.00	0.00	2.14	52.53	45.33	97.86	
B-3 23.0-23.5 ft	23.0-23.5	Silt	0.004	0.00	0.00	3.53	37.65	58.83	96.47	

(1) Based on Mean from Trask

Client: Whatcom Environmental
 Project: Lopez Village Market
 Project No: N/A

PTS File No: 41376
 Sample ID: B-1 8.0-8.5 ft
 Depth, ft: 8.0-8.5

Grv	Sand Size			Silt	Clay
	crs	medium	fine		



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.06	0.06	0.06
0.0059	0.149	2.75	100	0.37	0.37	0.43
0.0049	0.125	3.00	120	0.65	0.65	1.08
0.0041	0.105	3.25	140	0.64	0.64	1.72
0.0035	0.088	3.50	170	0.63	0.63	2.35
0.0029	0.074	3.75	200	0.89	0.89	3.24
0.0025	0.063	4.00	230	1.27	1.27	4.51
0.0021	0.053	4.25	270	1.48	1.48	5.99
0.00174	0.0442	4.50	325	1.59	1.59	7.58
0.00146	0.0372	4.75	400	1.86	1.86	9.44
0.00123	0.0313	5.00	450	2.40	2.40	11.84
0.000986	0.0250	5.32	500	3.99	3.99	15.83
0.000790	0.0201	5.64	635	4.83	4.83	20.66
0.000615	0.0156	6.00		5.74	5.74	26.40
0.000435	0.0110	6.50		8.80	8.80	35.20
0.000308	0.00781	7.00		9.99	9.99	45.19
0.000197	0.00500	7.65		13.20	13.20	58.39
0.000077	0.00195	9.00		24.70	24.70	83.09
0.000038	0.000977	10.00		11.80	11.80	94.89
0.000019	0.000488	11.00		4.71	4.71	99.60
0.000015	0.000375	11.38		0.40	0.40	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.08	0.0023	0.059
10	4.81	0.0014	0.036
16	5.33	0.0010	0.025
25	5.91	0.0007	0.017
40	6.74	0.0004	0.009
50	7.24	0.0003	0.007
60	7.73	0.0002	0.005
75	8.56	0.0001	0.003
84	9.08	0.0001	0.002
90	9.59	0.0001	0.001
95	10.02	0.0000	0.001

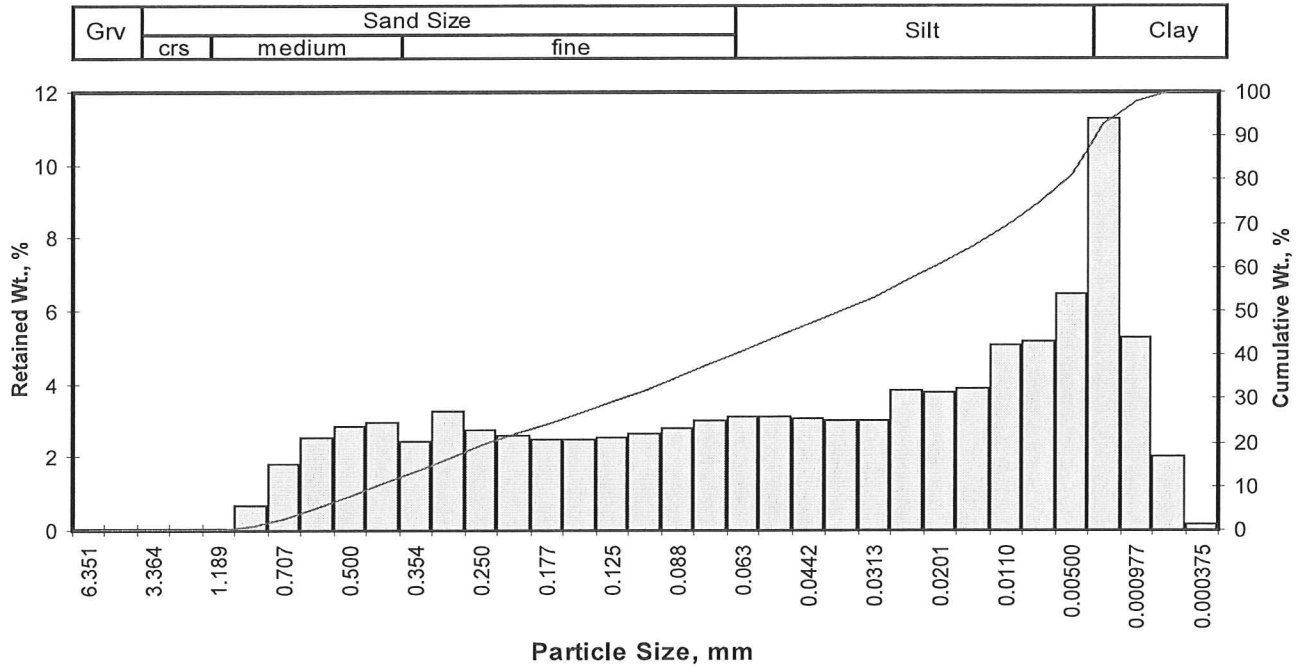
Measure	Trask	Inman	Folk-Ward
Median, phi	7.24	7.24	7.24
Median, in.	0.0003	0.0003	0.0003
Median, mm	0.007	0.007	0.007
Mean, phi	6.70	7.20	7.21
Mean, in.	0.0004	0.0003	0.0003
Mean, mm	0.010	0.007	0.007
Sorting	2.500	1.873	1.837
Skewness	1.001	-0.016	-0.039
Kurtosis	0.203	0.586	0.921

Grain Size Description Silt
 (ASTM-USCS Scale) (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	3.24
Silt	>0.005 mm	55.15
Clay	<0.005 mm	41.61
Total		100

Client: Whatcom Environmental
 Project: Lopez Village Market
 Project No: N/A

PTS File No: 41376
 Sample ID: B-1 33.0-33.5 ft
 Depth, ft: 33.0-33.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.69	0.69	0.69
0.0278	0.707	0.50	25	1.82	1.82	2.51
0.0234	0.595	0.75	30	2.52	2.52	5.03
0.0197	0.500	1.00	35	2.87	2.87	7.90
0.0166	0.420	1.25	40	2.94	2.94	10.84
0.0139	0.354	1.50	45	2.41	2.41	13.25
0.0117	0.297	1.75	50	3.26	3.26	16.51
0.0098	0.250	2.00	60	2.72	2.72	19.23
0.0083	0.210	2.25	70	2.61	2.61	21.84
0.0070	0.177	2.50	80	2.50	2.50	24.34
0.0059	0.149	2.75	100	2.49	2.49	26.83
0.0049	0.125	3.00	120	2.54	2.54	29.37
0.0041	0.105	3.25	140	2.62	2.62	31.99
0.0035	0.088	3.50	170	2.78	2.78	34.77
0.0029	0.074	3.75	200	2.98	2.98	37.75
0.0025	0.063	4.00	230	3.11	3.11	40.86
0.0021	0.053	4.25	270	3.11	3.11	43.97
0.00174	0.0442	4.50	325	3.07	3.07	47.04
0.00146	0.0372	4.75	400	3.01	3.01	50.04
0.00123	0.0313	5.00	450	3.00	3.00	53.04
0.000986	0.0250	5.32	500	3.84	3.84	56.88
0.000790	0.0201	5.64	635	3.76	3.76	60.64
0.000615	0.0156	6.00		3.87	3.87	64.51
0.000435	0.0110	6.50		5.07	5.07	69.58
0.000308	0.00781	7.00		5.19	5.19	74.77
0.000197	0.00500	7.65		6.47	6.47	81.24
0.000077	0.00195	9.00		11.30	11.30	92.54
0.000038	0.000977	10.00		5.30	5.30	97.84
0.000019	0.000488	11.00		2.00	2.00	99.84
0.000015	0.000375	11.38		0.16	0.16	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.75	0.0235	0.596
10	1.18	0.0174	0.442
16	1.71	0.0120	0.305
25	2.57	0.0066	0.169
40	3.93	0.0026	0.066
50	4.75	0.0015	0.037
60	5.59	0.0008	0.021
75	7.02	0.0003	0.008
84	7.98	0.0002	0.004
90	8.70	0.0001	0.002
95	9.46	0.0001	0.001

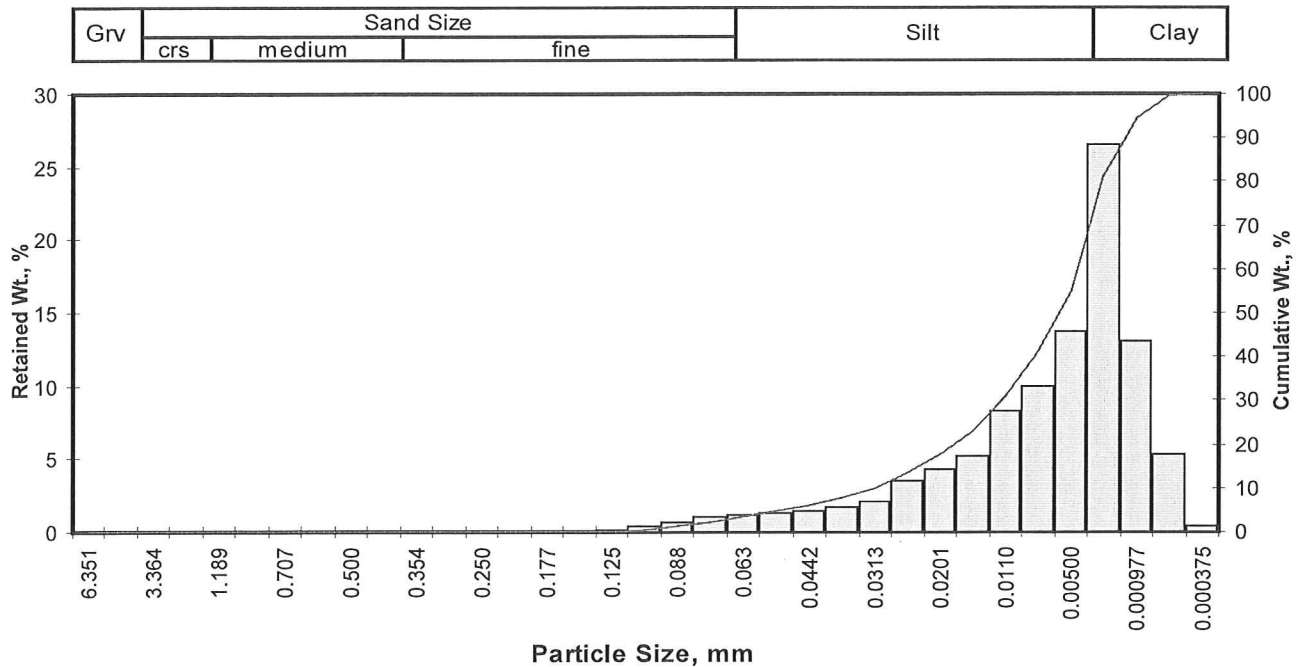
Measure	Trask	Inman	Folk-Ward
Median, phi	4.75	4.75	4.75
Median, in.	0.0015	0.0015	0.0015
Median, mm	0.037	0.037	0.037
Mean, phi	3.50	4.84	4.81
Mean, in.	0.0035	0.0014	0.0014
Mean, mm	0.088	0.035	0.036
Sorting	4.685	3.132	2.887
Skewness	0.967	0.031	0.057
Kurtosis	0.183	0.391	0.802

Grain Size Description (ASTM-USCS Scale) Fine sand (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	10.84
Fine Sand	200	26.91
Silt	>0.005 mm	43.50
Clay	<0.005 mm	18.76
Total		100

Client: Whatcom Environmental
 Project: Lopez Village Market
 Project No: N/A

PTS File No: 41376
 Sample ID: B-2 13.0-13.5 ft
 Depth, ft: 13.0-13.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.00	0.00	0.00
0.0049	0.125	3.00	120	0.07	0.07	0.08
0.0041	0.105	3.25	140	0.35	0.35	0.43
0.0035	0.088	3.50	170	0.71	0.71	1.13
0.0029	0.074	3.75	200	1.01	1.01	2.14
0.0025	0.063	4.00	230	1.21	1.21	3.35
0.0021	0.053	4.25	270	1.30	1.30	4.65
0.00174	0.0442	4.50	325	1.42	1.42	6.07
0.00146	0.0372	4.75	400	1.67	1.67	7.74
0.00123	0.0313	5.00	450	2.09	2.09	9.83
0.000986	0.0250	5.32	500	3.43	3.43	13.26
0.000790	0.0201	5.64	635	4.25	4.25	17.51
0.000615	0.0156	6.00		5.21	5.21	22.72
0.000435	0.0110	6.50		8.31	8.31	31.03
0.000308	0.00781	7.00		9.95	9.95	40.97
0.000197	0.00500	7.65		13.70	13.70	54.67
0.000077	0.00195	9.00		26.50	26.49	81.16
0.000038	0.000977	10.00		13.10	13.10	94.26
0.000019	0.000488	11.00		5.29	5.29	99.55
0.000015	0.000375	11.38		0.45	0.45	100.00
TOTALS				100.00	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.31	0.0020	0.050
10	5.02	0.0012	0.031
16	5.53	0.0009	0.022
25	6.14	0.0006	0.014
40	6.95	0.0003	0.008
50	7.43	0.0002	0.006
60	7.92	0.0002	0.004
75	8.68	0.0001	0.002
84	9.22	0.0001	0.002
90	9.67	0.0000	0.001
95	10.14	0.0000	0.001

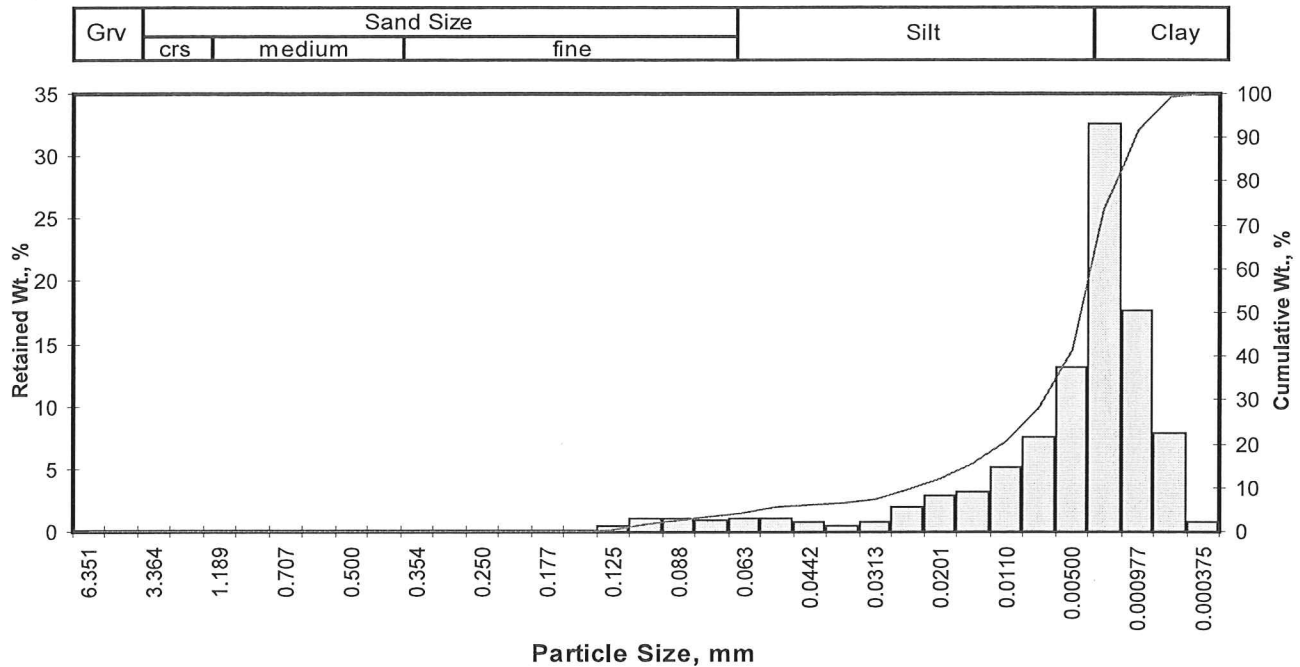
Measure	Trask	Inman	Folk-Ward
Median, phi	7.43	7.43	7.43
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.006	0.006	0.006
Mean, phi	6.91	7.37	7.39
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.008	0.006	0.006
Sorting	2.418	1.845	1.806
Skewness	1.010	-0.029	-0.049
Kurtosis	0.198	0.579	0.938

Grain Size Description (ASTM-USCS Scale) **Silt** (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	2.14
Silt	>0.005 mm	52.53
Clay	<0.005 mm	45.33
Total		100

Client: Whatcom Environmental
 Project: Lopez Village Market
 Project No: N/A

PTS File No: 41376
 Sample ID: B-3 23.0-23.5 ft
 Depth, ft: 23.0-23.5



Opening		Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.00	0.00	0.00
0.0059	0.149	2.75	100	0.04	0.04	0.04
0.0049	0.125	3.00	120	0.52	0.52	0.56
0.0041	0.105	3.25	140	1.09	1.09	1.65
0.0035	0.088	3.50	170	1.01	1.01	2.66
0.0029	0.074	3.75	200	0.86	0.86	3.53
0.0025	0.063	4.00	230	0.98	0.98	4.51
0.0021	0.053	4.25	270	1.03	1.03	5.54
0.00174	0.0442	4.50	325	0.68	0.68	6.22
0.00146	0.0372	4.75	400	0.43	0.43	6.65
0.00123	0.0313	5.00	450	0.72	0.72	7.37
0.000986	0.0250	5.32	500	1.99	1.99	9.36
0.000790	0.0201	5.64	635	2.88	2.88	12.24
0.000615	0.0156	6.00		3.21	3.21	15.46
0.000435	0.0110	6.50		5.07	5.07	20.53
0.000308	0.00781	7.00		7.52	7.53	28.06
0.000197	0.00500	7.65		13.10	13.11	41.17
0.000077	0.00195	9.00		32.50	32.53	73.70
0.000038	0.000977	10.00		17.70	17.72	91.42
0.000019	0.000488	11.00		7.85	7.86	99.28
0.000015	0.000375	11.38		0.72	0.72	100.00
TOTALS				99.90	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	4.12	0.0023	0.058
10	5.39	0.0009	0.024
16	6.05	0.0006	0.015
25	6.80	0.0004	0.009
40	7.59	0.0002	0.005
50	8.01	0.0002	0.004
60	8.43	0.0001	0.003
75	9.07	0.0001	0.002
84	9.58	0.0001	0.001
90	9.92	0.0000	0.001
95	10.46	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	8.01	8.01	8.01
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.004	0.004	0.004
Mean, phi	7.53	7.82	7.88
Mean, in.	0.0002	0.0002	0.0002
Mean, mm	0.005	0.004	0.004
Sorting	2.201	1.764	1.842
Skewness	1.055	-0.111	-0.170
Kurtosis	0.157	0.796	1.141

Grain Size Description (ASTM-USCS Scale) **Silt** (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	3.53
Silt	>0.005 mm	37.65
Clay	<0.005 mm	58.83
Total		100

APPENDIX E

Soil Sample Laboratory Analytical Data Reports



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

February 2, 2011

Harold Cashman
Whatcom Environmental Services
228 E. Champion Street, Suite 101
Bellingham, WA 98225

Dear Mr. Cashman:

Please find enclosed the analytical data report for the Lopez Village Market Project located on Lopez Island, Washington. Soil samples were analyzed for Gasoline by NWTPH-Gx and BTEX by EPA Method 8021B on January 25, 26 and 27, 2011.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work is enclosed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
President
Libby Environmental, Inc.

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

LOPEZ VILLAGE MARKET PROJECT
Lopez Island, Washington
Whatcom Environmental Services
Libby Project No. L110125-20

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/25/11	nd	nd	nd	nd	nd	128
LCS	1/25/11	113%	111%				100
SS-8	1/25/11	nd	nd	nd	nd	nd	120
SS-9	1/25/11	nd	nd	nd	nd	nd	105
CS-1 8.5 ft	1/25/11	nd	nd	nd	nd	nd	108
CS-2 8 ft	1/25/11	nd	nd	nd	nd	nd	125
CS-3 4.5 ft	1/25/11	nd	nd	nd	nd	nd	133
CS-3 4.5 ft Dup	1/25/11	nd	nd	nd	nd	nd	128
CS-4 15 ft	1/25/11	0.04	nd	nd	nd	nd	128
CS-3 4.5 ft MS	1/25/11	95%	116%				118
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

LOPEZ VILLAGE MARKET PROJECT
Lopez Island, Washington
Whatcom Environmental Services
Libby Project No. L110125-20

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/26/11	nd	nd	nd	nd	nd	103
LCS	1/26/11	118%	114%				108
CS-5 4ft	1/26/11	nd	nd	nd	nd	nd	100
CS-6 5ft	1/26/11	0.066	0.32	0.096	0.73	nd	108
PCS-3	1/26/11	5.62	36	12.4	89	656	104
CS-7 15ft	1/26/11	0.026	nd	nd	nd	nd	94
CS-8 15ft	1/26/11	0.026	nd	nd	nd	nd	96
CS-9 9ft	1/26/11	0.023	nd	nd	nd	nd	92
CS-10 10ft	1/26/11	0.022	nd	nd	nd	nd	88
CS-11 10ft	1/26/11	0.021	nd	nd	nd	nd	88
CS-12 5ft	1/26/11	nd	nd	nd	nd	nd	96
CS-12 5ft Dup	1/26/11	nd	nd	nd	nd	nd	94
CS-12 5ft MS	1/26/11	71%	109%				96
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

LIBBY ENVIRONMENTAL CHEMISTRY LABORATORY

LOPEZ VILLAGE MARKET PROJECT
Lopez Island, Washington
Whatcom Environmental Services
Libby Project No. L110125-20

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/27/11	nd	nd	nd	nd	nd	95
LCS	1/27/11	100%	102%				90
PCS-4	1/27/11	8.42	11.1	2.71	15.8	143	120
PCS-4 Dup	1/27/11	7.94	10.9	2.69	15.7	136	118
PCS-4 MS	1/27/11	int	int				118
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Athanasius Shaw

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Client: *Whitson Environmental Services*

Address: *208 E. Champion St #101*

Phone: *Bellingham*

Fax:

Client Project # *Lopez Village Market*

Chain of Custody Record

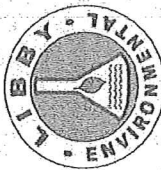
Date: *1/24/11* Page: *1* of *1*

Project Manager: *Harold Cashman*

Project Name: *Lopez Village Market*

Location: *Lopez*

Collector: *HRC* Date of Collection: *1/24/11*



Sample Number	Depth	Time	Sample Type	Container Type	Field Notes
1	3.5'	2:30	soil	5035A	
2	3.0'	3:00	soil	500A	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Relinquished by: *Harold Cashman* Date / Time: *1/25/11 9:00*

Relinquished by: *Harold Cashman* Date / Time: *1/25/11 12:51:00*

Relinquished by: _____ Date / Time: _____

Sample Receipt

Good Condition?

Cold?

Seals Intact?

Total Number of Containers: _____

Remarks:

Chain of Custody Record

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Client: *Western Environmental Services*

Address: *278 E. Chapin St #101*

Phone: *Bellingham WA* Fax:

Client Project # *Logan Village Market*

Date: *1/25/11* Page: *1* of *1*

Project Manager: *Harold Cashman*

Project Name: *Logan Village Market*

Location: *City: Logan*

Collector: *ATC/TAD* Date of Collection: *1/25/11*

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VQA 802/B	VQA 802/B BTEX ONLY	VQA 8270	VQA 8270 SEMI VOL 8270	NWTP-HCID	NWTP-HGX	NWTP-HDX	NWTP-HDX EX	PAH 8270	PCBS 8082		MTCA 5 Metals	
1	8.5'	1335	soil	VQA	X	X	X	X	X	X	X	X	X	X	X	X	
2	8.6'	1430	soil	VQA	X	X	X	X	X	X	X	X	X	X	X	X	
3	4.5'	1512	soil	VQA	X	X	X	X	X	X	X	X	X	X	X	X	
4	15'	1540	soil	VQA	X	X	X	X	X	X	X	X	X	X	X	X	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Relinquished by: *[Signature]* Date / Time: *1-25-11 / 1000* Received by: *Athenagius Shaw* Date / Time: *1/25/11 1600*

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Relinquished by: _____ Date / Time: _____ Received by: _____ Date / Time: _____

Remarks: _____

Sample Receipt

Good Condition? _____ Cold? _____ Seals Intact? _____ Total Number of Containers _____

Libby Environmental, Inc.

4139 Libby Road NE
 Olympia, WA 98506
 Ph: 360-352-2110
 Fax: 360-352-4154

Client: Whitlow Environmental Services

Address: 228 E. Chapman #101

Phone: Bellingham, WA Fax:

Client Project # Lopez Village Market

Chain of Custody Record

Date: 1-26-11

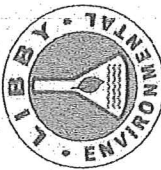
Page: 1 of 1

Project Manager: Harold Cashman

Project Name: Lopez Village Market

Location: Lopez WA

Collector: TD (Thom) Date of Collection: 1-26-11



Sample Number	Depth	Time	Sample Type	Container Type	Field Notes
1 CS-5 4ft	4	930	Soil	VOA	
2 CS-6 5ft	5	950	Soil	VOA	
3 PCS-3	7	1000	Soil	VOA	
4 CS-7 15ft	15	1245	Soil	VOA	
5 CS-8 15ft	15	1250	Soil	VOA	
6 CS-9 9ft	9	1300	Soil	VOA	
7 CS-10 10ft	10	1310	Soil	VOA	
8 CS-11 10ft	10	1350	Soil	VOA	
9 CS-12 5ft	5	1400	Soil	VOA	
10					
11					
12					
13					
14					
15					
16					
17					
18					

Relinquished by: _____ Date / Time: _____

Received by: Athanasios Shaw Date / Time: 12/6/11

Relinquished by: _____ Date / Time: _____

Received by: _____ Date / Time: _____

Relinquished by: _____ Date / Time: _____

Received by: _____ Date / Time: _____

Sample Receipt: _____

Good Condition? _____ Cold? _____

Seals Intact? _____

Total Number of Containers: _____

Remarks: _____



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
 228 E. Champion St., Suite 101
 Bellingham, WA 98225

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market
 CLIENT SAMPLE ID: TP-7 8 ft

DATE: 3/18/2011
 ALS JOB#: 1103017
 ALS SAMPLE#: -01
 DATE RECEIVED: 2/23/2011
 COLLECTION DATE: 2/18/2011 11:45
 WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Methyl T-Butyl Ether	SW8021	U	0.50	1	MG/KG	03/04/2011	DLC
Benzene	SW8021	6.0	0.50	1	MG/KG	03/04/2011	DLC
Toluene	SW8021	1.6	0.50	1	MG/KG	03/04/2011	DLC
Ethylbenzene	SW8021	6.2	0.50	1	MG/KG	03/04/2011	DLC
M & P- Xylenes	SW8021	24	0.50	1	MG/KG	03/04/2011	DLC
O-Xylene	SW8021	7.7	0.50	1	MG/KG	03/04/2011	DLC
C5-C6 Aliphatics	NWVPH	24	5.0	1	MG/KG	03/04/2011	DLC
>C6-C8 Aliphatics	NWVPH	72	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWVPH	10	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aliphatics	NWVPH	44	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aromatics	NWVPH	100	12	2.5	MG/KG	03/04/2011	DLC
>C10-C12 Aromatics	NWVPH	86	12	2.5	MG/KG	03/04/2011	DLC
>C12-C13 Aromatics	NWVPH	49	12	2.5	MG/KG	03/04/2011	DLC
Hexane	NWVPH	5.7	0.20	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C8-C10 Aromatics	NWEPH	5.7	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aromatics	NWEPH	5.5	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aromatics	NWEPH	6.2	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
Naphthalene	SW8270SIM	0.57	0.020	1	MG/KG	03/09/2011	LAP
2-Methylnaphthalene	SW8270SIM	0.96	0.020	1	MG/KG	03/09/2011	LAP
1-Methylnaphthalene	SW8270SIM	0.41	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthylene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluorene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Phenanthrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Anthracene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluoranthene	SW8270SIM	U	0.022	1	MG/KG	03/09/2011	LAP
Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Benzo[A]Anthracene	SW8270SIM	U	0.023	1	MG/KG	03/09/2011	LAP
Chrysene	SW8270SIM	U	0.027	1	MG/KG	03/09/2011	LAP
Benzo[B]Fluoranthene	SW8270SIM	U	0.037	1	MG/KG	03/09/2011	LAP
Benzo[K]Fluoranthene	SW8270SIM	U	0.027	1	MG/KG	03/09/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	TP-7 8 ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 11:45
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[A]Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Indeno[1,2,3-Cd]Pyrene	SW8270SIM	U	0.027	1	MG/KG	03/09/2011	LAP
Dibenz[A,H]Anthracene	SW8270SIM	U	0.029	1	MG/KG	03/09/2011	LAP
Benzo[G,H,I]Perylene	SW8270SIM	U	0.035	1	MG/KG	03/09/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	SW8021	92.0	03/04/2011	DLC
TFT - Aliphatic	NWVPH	63.0	03/04/2011	DLC
TFT - Aromatic 2.5X Dilution	NWVPH	83.4	03/04/2011	DLC
TFT - Hexane	NWVPH	69.0	03/04/2011	DLC
C25	NWEPH	103	03/04/2011	EBS
p-Terphenyl	NWEPH	91.0	03/04/2011	EBS
Terphenyl-d14	SW8270SIM	128	03/09/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	TP-6 8 ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 12:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	SW8021	U	0.50	1	MG/KG	03/04/2011	DLC
Benzene	SW8021	5.9	0.50	1	MG/KG	03/04/2011	DLC
Toluene	SW8021	4.9	0.50	1	MG/KG	03/04/2011	DLC
Ethylbenzene	SW8021	2.0	0.50	1	MG/KG	03/04/2011	DLC
M & P- Xylenes	SW8021	7.9	0.50	1	MG/KG	03/04/2011	DLC
O-Xylene	SW8021	3.2	0.50	1	MG/KG	03/04/2011	DLC
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C6-C8 Aliphatics	NWVPH	22	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aliphatics	NWVPH	11	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aromatics	NWVPH	34	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aromatics	NWVPH	29	5.0	1	MG/KG	03/04/2011	DLC
>C12-C13 Aromatics	NWVPH	16	5.0	1	MG/KG	03/04/2011	DLC
Hexane	NWVPH	0.76	0.20	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C8-C10 Aromatics	NWEPH	5.8	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aromatics	NWEPH	5.5	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aromatics	NWEPH	6.0	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
Naphthalene	SW8270SIM	0.68	0.020	1	MG/KG	03/09/2011	LAP
2-Methylnaphthalene	SW8270SIM	1.1	0.020	1	MG/KG	03/09/2011	LAP
1-Methylnaphthalene	SW8270SIM	0.47	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthylene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluorene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Phenanthrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Anthracene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluoranthene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Benzo[A]Anthracene	SW8270SIM	U	0.021	1	MG/KG	03/09/2011	LAP
Chrysene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP
Benzo[B]Fluoranthene	SW8270SIM	U	0.033	1	MG/KG	03/09/2011	LAP
Benzo[K]Fluoranthene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	TP-6 8 ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 12:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Benzo[A]Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Indeno[1,2,3-Cd]Pyrene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP
Dibenz[A,H]Anthracene	SW8270SIM	U	0.026	1	MG/KG	03/09/2011	LAP
Benzo[G,H,I]Perylene	SW8270SIM	U	0.031	1	MG/KG	03/09/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	SW8021	74.0	03/04/2011	DLC
TFT - Aliphatic	NWVPH	63.0	03/04/2011	DLC
TFT - Aromatic	NWVPH	61.0	03/04/2011	DLC
TFT - Hexane	NWVPH	72.0	03/04/2011	DLC
C25	NWEPH	103	03/04/2011	EBS
p-Terphenyl	NWEPH	81.0	03/04/2011	EBS
Terphenyl-d14	SW8270SIM	87.1	03/09/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-13 8 ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 13:40
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Methyl T-Butyl Ether	SW8021	U	0.50	1	MG/KG	03/04/2011	DLC
Benzene	SW8021	U	0.50	1	MG/KG	03/04/2011	DLC
Toluene	SW8021	0.76	0.50	1	MG/KG	03/04/2011	DLC
Ethylbenzene	SW8021	4.7	0.50	1	MG/KG	03/04/2011	DLC
M & P- Xylenes	SW8021	10	0.50	1	MG/KG	03/04/2011	DLC
O-Xylene	SW8021	1.1	0.50	1	MG/KG	03/04/2011	DLC
C5-C6 Aliphatics	NWVPH	11	5.0	1	MG/KG	03/04/2011	DLC
>C6-C8 Aliphatics	NWVPH	41	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWVPH	7.0	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aliphatics	NWVPH	40	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aromatics	NWVPH	76	12	2.5	MG/KG	03/04/2011	DLC
>C10-C12 Aromatics	NWVPH	110	12	2.5	MG/KG	03/04/2011	DLC
>C12-C13 Aromatics	NWVPH	69	12	2.5	MG/KG	03/04/2011	DLC
Hexane	NWVPH	2.6	0.20	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWEPH	7.0	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aliphatics	NWEPH	6.6	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C8-C10 Aromatics	NWEPH	6.9	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aromatics	NWEPH	8.3	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aromatics	NWEPH	8.4	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
Naphthalene	SW8270SIM	0.72	0.020	1	MG/KG	03/09/2011	LAP
2-Methylnaphthalene	SW8270SIM	1.4	0.020	1	MG/KG	03/09/2011	LAP
1-Methylnaphthalene	SW8270SIM	0.58	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthylene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluorene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Phenanthrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Anthracene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluoranthene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Benzo[A]Anthracene	SW8270SIM	U	0.021	1	MG/KG	03/09/2011	LAP
Chrysene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP
Benzo[B]Fluoranthene	SW8270SIM	U	0.033	1	MG/KG	03/09/2011	LAP
Benzo[K]Fluoranthene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-13 8 ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 13:40
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Benzo[A]Pyrene	SW8270SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Indeno[1,2,3-Cd]Pyrene	SW8270SIM	U	0.024	1	MG/KG	03/09/2011	LAP
Dibenz[A,H]Anthracene	SW8270SIM	U	0.026	1	MG/KG	03/09/2011	LAP
Benzo[G,H,I]Perylene	SW8270SIM	U	0.031	1	MG/KG	03/09/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	SW8021	97.0	03/04/2011	DLC
TFT - Aliphatic	NWVPH	66.0	03/04/2011	DLC
TFT - Aromatic 2.5X Dilution	NWVPH	112	03/04/2011	DLC
TFT - Hexane	NWVPH	71.0	03/04/2011	DLC
C25	NWEPH	104	03/04/2011	EBS
p-Terphenyl	NWEPH	84.0	03/04/2011	EBS
Terphenyl-d14	SW8270SIM	112	03/09/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 3/18/2011
228 E. Champion St., Suite 101 ALS JOB#: 1103017
Bellingham, WA 98225 ALS SAMPLE#: -04
CLIENT CONTACT: Harold Cashman DATE RECEIVED: 2/23/2011
CLIENT PROJECT: Lopez Village Market COLLECTION DATE: 2/18/2011 14:00
CLIENT SAMPLE ID TP-14 8 ft WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SW9060	7500	0.0020	1	mg/Kg-dry	03/17/2011	SL



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 3/18/2011
 228 E. Champion St., Suite 101 ALS JOB#: 1103017
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MBLK-342011

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	03/04/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	03/04/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	03/04/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	03/04/2011	DLC
M & P- Xylenes	EPA-8021	U	0	1	MG/KG	03/04/2011	DLC
O-Xylene	EPA-8021	U	0	1	MG/KG	03/04/2011	DLC

MBLK-342011

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C6-C8 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aliphatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C8-C10 Aromatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C10-C12 Aromatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
>C12-C13 Aromatics	NWVPH	U	5.0	1	MG/KG	03/04/2011	DLC
Hexane	NWVPH	U	0.20	1	MG/KG	03/04/2011	DLC

MBLK-342011

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C12-C16 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	03/04/2011	EBS

MB-030211S

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
Naphthalene	EPA-8270 SIM	U	0.022	1	MG/KG	03/09/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. **DATE:** 3/18/2011
 228 E. Champion St., Suite 101 **ALS JOB#:** 1103017
 Bellingham, WA 98225 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MB-030211S

Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.025	1	MG/KG	03/09/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.027	1	MG/KG	03/09/2011	LAP
Chrysene	EPA-8270 SIM	U	0.031	1	MG/KG	03/09/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.042	1	MG/KG	03/09/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.031	1	MG/KG	03/09/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	03/09/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.031	1	MG/KG	03/09/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.034	1	MG/KG	03/09/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.040	1	MG/KG	03/09/2011	LAP

MB-R72686

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	ANALYSIS ANALYSIS		
					UNITS	DATE	BY
Total Organic Carbon (TOC)	EPA-9060	U	0.0020	1	mg/Kg-dry	03/17/2011	SL



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R72564 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether - BS	SW8021	100			03/04/2011	DLC
Methyl T-Butyl Ether - BSD	SW8021	105	4		03/04/2011	DLC
Benzene - BS	SW8021	106			03/04/2011	DLC
Benzene - BSD	SW8021	110	3		03/04/2011	DLC
Toluene - BS	SW8021	105			03/04/2011	DLC
Toluene - BSD	SW8021	109	3		03/04/2011	DLC
Ethylbenzene - BS	SW8021	103			03/04/2011	DLC
Ethylbenzene - BSD	SW8021	108	4		03/04/2011	DLC
M & P- Xylenes - BS	SW8021	103			03/04/2011	DLC
M & P- Xylenes - BSD	SW8021	108	4		03/04/2011	DLC
O-Xylene - BS	SW8021	102			03/04/2011	DLC
O-Xylene - BSD	SW8021	108	5		03/04/2011	DLC

ALS Test Batch ID: R72561 - Soil by NWVPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics - BS	NWVPH	95.0			03/04/2011	DLC
C5-C6 Aliphatics - BSD	NWVPH	97.0	2		03/04/2011	DLC
>C6-C8 Aliphatics - BS	NWVPH	95.0			03/04/2011	DLC
>C6-C8 Aliphatics - BSD	NWVPH	95.0	0		03/04/2011	DLC
>C8-C10 Aliphatics - BS	NWVPH	94.0			03/04/2011	DLC
>C8-C10 Aliphatics - BSD	NWVPH	94.0	0		03/04/2011	DLC
>C10-C12 Aliphatics - BS	NWVPH	87.0			03/04/2011	DLC
>C10-C12 Aliphatics - BSD	NWVPH	84.0	3		03/04/2011	DLC
>C8-C10 Aromatics - BS	NWVPH	103			03/04/2011	DLC
>C8-C10 Aromatics - BSD	NWVPH	108	4		03/04/2011	DLC
>C10-C12 Aromatics - BS	NWVPH	91.0			03/04/2011	DLC
>C10-C12 Aromatics - BSD	NWVPH	98.0	7		03/04/2011	DLC
>C12-C13 Aromatics - BS	NWVPH	93.0			03/04/2011	DLC
>C12-C13 Aromatics - BSD	NWVPH	98.0	5		03/04/2011	DLC
Hexane - BS	NWVPH	95.0			03/04/2011	DLC
Hexane - BSD	NWVPH	97.0	2		03/04/2011	DLC

ALS Test Batch ID: R72573 - Soil by NWEPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
>C8-C10 Aliphatics - BS	NWEPH			S	03/04/2011	EBS
>C8-C10 Aliphatics - BSD	NWEPH		0	S	03/04/2011	EBS
>C10-C12 Aliphatics - BS	NWEPH	91.0			03/04/2011	EBS



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	3/18/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1103017
CLIENT PROJECT:	Lopez Village Market	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
>C10-C12 Aliphatics - BSD	NWEPH	93.0	2		03/04/2011	EBS
>C12-C16 Aliphatics - BS	NWEPH	95.0			03/04/2011	EBS
>C12-C16 Aliphatics - BSD	NWEPH	95.0	0		03/04/2011	EBS
>C16-C21 Aliphatics - BS	NWEPH	97.0			03/04/2011	EBS
>C16-C21 Aliphatics - BSD	NWEPH	97.0	0		03/04/2011	EBS
>C21-C34 Aliphatics - BS	NWEPH	99.0			03/04/2011	EBS
>C21-C34 Aliphatics - BSD	NWEPH	98.0	1		03/04/2011	EBS
>C8-C10 Aromatics - BS	NWEPH			S	03/04/2011	EBS
>C8-C10 Aromatics - BSD	NWEPH		0	S	03/04/2011	EBS
>C10-C12 Aromatics - BS	NWEPH	84.0			03/04/2011	EBS
>C10-C12 Aromatics - BSD	NWEPH	90.0	6		03/04/2011	EBS
>C12-C16 Aromatics - BS	NWEPH	92.0			03/04/2011	EBS
>C12-C16 Aromatics - BSD	NWEPH	94.0	2		03/04/2011	EBS
>C16-C21 Aromatics - BS	NWEPH	92.0			03/04/2011	EBS
>C16-C21 Aromatics - BSD	NWEPH	93.0	1		03/04/2011	EBS
>C21-C34 Aromatics - BS	NWEPH	86.0			03/04/2011	EBS
>C21-C34 Aromatics - BSD	NWEPH	93.0	7		03/04/2011	EBS

ALS Test Batch ID: R72686 - Soil by EPA-9060

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	SW9060	90.2			03/17/2011	SL

S - Outside of control limits.

APPROVED BY

Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
(206) 292-8059 Seattle
(425) 356-2626 Fax
http://www.alsglobal.com

Chain of Custody/ Laboratory Analysis Request

ALS Job # **1103017**
Laboratory Order
1102146

PROJECT ID: **Lopez Village Plucker**
REPORT TO COMPANY: **Whitcomb Environmental Services**
PROJECT MANAGER: **Harold Cashman**
ADDRESS: **738 E. Champion St #101,
Bellingham, WA 98225**
PHONE: **360 752 9571** FAX:
P.O. NUMBER: **City of Issaquah** E-MAIL:
INVOICE TO COMPANY: **City of Issaquah**
ATTENTION: **L/C Matt Miller** **Arden Group**
ADDRESS: **Claim # 192332**

ANALYSIS REQUESTED

NWTPH-HCD	XIX
NWTPH-DX	XIX
NWTPH-GX	XIX
DTX by EPA-8021	XIX
MTBE by EPA-8021 EPA-8260	XIX
Halogenated Volatiles by EPA 8260	XIX
Volatile Organic Compounds by EPA 8260	XIX
EDB / EDC by EPA 8260 SIM (water)	XIX
EDB / ETC by EPA 8260 (soil)	XIX
Semivolatile Organic Compounds by EPA 8270	XIX
Polyyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	XIX
Pesticides by EPA 8081/8082	XIX
Metals-MTCA-S, RCRA-B, PAI, TAL	XIX
Metals Other (Specify)	XIX
TCF-P-Metals, VOA, Semi-Vol, Pesti, Herbs	XIX
OTHER (Specify)	TCOC

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. TP-11 6ft	2/15/11	1105	Soil	1
2. TP-11 8ft		1120		2
3. TP-7 8ft		1145		3
4. TP-6 8ft		1210		4
5. TP-12 3ft		1240		5
6. TP-12 8ft		1250		6
7. TP-2 7ft		1310		7
8. TP-13 8ft		1340		8
9. TP-14 8ft		1400		9
10. TP-11 12ft		1440		10

SPECIAL INSTRUCTIONS: **Samples collected via Method 5051A**

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: **[Signature]** **Whitcomb AES** **3/30/11 3:00**
 Received By:
 2. Relinquished By:
 Received By: **Shawn Robson ALS** **2/23/11 9:25**

TURNAROUND REQUESTED in Business Days*
 OTHER:
 Organic, Metals & Inorganic Analysis
 Fuels & Hydrocarbon Analysis
 5 3 2 1
 3 1
 Specify:

Added 3/2/11 STD TAT
 Added 3/4/11 Std TAT

* Turnaround request less than standard may incur Rush Charges

Chain Of Custody/ Laboratory Analysis Request

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

PROJECT ID: Lopez Village Market
REPORT TO COMPANY: Whateam Environmental Services
PROJECT MANAGER: Harold Cashman
ADDRESS: 338 E. Champion St #101
Bellingham, WA 98235
PHONE: 360 752-9571 FAX:
PO. NUMBER: E-MAIL:
INVOICE TO COMPANY: Coleby Insurance Agency Group
ATTENTION: C/O West Hiller
ADDRESS: claim # 192332

ANALYSIS REQUESTED		OTHER (Specify)	
NWTPH-HCID		TCM/VAH + Targeted Analytes	
NWTPH-DX		TCM/VAH + Targeted Analytes	
NWTPH-GX		TCM/VAH + Targeted Analytes	
BTEX by EPA-8021		TCM/VAH + Targeted Analytes	
MTBE by EPA-8021 EPA-8260		TCM/VAH + Targeted Analytes	
Halogenated Volatiles by EPA 8260		TCM/VAH + Targeted Analytes	
Volatile Organic Compounds by EPA 8260		TCM/VAH + Targeted Analytes	
EDB / EDC by EPA 8260 SIM (water)		TCM/VAH + Targeted Analytes	
EDB / EDC by EPA 8260 (soil)		TCM/VAH + Targeted Analytes	
Semivolatile Organic Compounds by EPA 8270		TCM/VAH + Targeted Analytes	
Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM		TCM/VAH + Targeted Analytes	
PCB Pesticides by EPA 8081/8082		TCM/VAH + Targeted Analytes	
Metals-MTCA-5, RCRA-8, Pfl Pol, TAL		TCM/VAH + Targeted Analytes	
Metals Other (Specify)		TCM/VAH + Targeted Analytes	
TCM/VAH + Targeted Analytes		TCM/VAH + Targeted Analytes	
RECEIVED IN GOOD CONDITION?		TCM/VAH + Targeted Analytes	

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. TP-11 6ft	2/18/11	1105	Soil	1
2. TP-11 8ft		1120		2
3. TP-7 8ft		1145		3
4. TP-6 8ft		1210		4
5. TP-12 3ft		1240		5
6. TP-12 8ft		1250		6
7. TP-2 7ft		1310		7
8. TP-13 8ft		1340		8
9. TP-14 8ft		1400		9
10. TP-11 17ft		1440		10

SPECIAL INSTRUCTIONS: Samples collected via Method 3053A

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: Shawn Coburn A/E 2/23/11 3:00
 Received By: Shawn Coburn A/E 2/23/11 9:25

TURNAROUND REQUESTED in Business Days*
 OTHER:
 Organic, Metals & Inorganic Analysis
 Fuels & Hydrocarbon Analysis
 Specify: 5 3 2 1 3 1
 * Turnaround request less than standard may incur Rush Charges

* * * Transmission Result Report (MemoryTX) (Mar. 4. 2011 8:20AM) * * *

1)
2)

Date/Time: Mar. 4. 2011 8:18AM

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
3331	Memory TX	14253562626	P. 2	OK	

Reason for error

E.1) Hang up or line fail
E.3) No answer

E.2) Busy
E.4) No facsimile connection

rwwhatcom
ENVIRONMENTAL

soil | water | air
compliance consulting

228 East Champion Street, # 101
Bellingham, WA 98225
(360) 752-9571
(360) 752-9573

To: Rick Bagan From: Harold Cashner
 Date: 3/2/11 Pages: 2
 Re: 3/4/11 CC:

Additional analysis request

Please send TP-14 8ft for TOC analysis



soil | water | air
compliance consulting

228 East Champion Street, # 101
Bellingham, WA 98225
(360) 752-9571
(360) 752-9573

To: Rick Bagan From: Harold Cashner
Date: 3/2/11 Pages: 2
Re: 3/4/11 CC:

Additional analysis request

Please send TP-14 8ft for TOC
analysis



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
 228 E. Champion St., Suite 101
 Bellingham, WA 98225

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market
 CLIENT SAMPLE ID: B-1 9ft

DATE: 6/22/2011
 ALS JOB#: 1106051
 ALS SAMPLE#: -01
 DATE RECEIVED: 6/9/2011
 COLLECTION DATE: 6/8/2011 08:10
 WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING		DILUTION	UNITS	ANALYSIS	
			LIMITS	FACTOR			DATE	BY
TPH-Volatile Range	NWTPH-GX	1300	60	20	MG/KG	06/13/2011	DLC	
Methyl T-Butyl Ether	EPA-8021	U	2.0	20	MG/KG	06/13/2011	DLC	
Benzene	EPA-8021	19	0.60	20	MG/KG	06/13/2011	DLC	
Toluene	EPA-8021	5.9	1.0	20	MG/KG	06/13/2011	DLC	
Ethylbenzene	EPA-8021	27	1.0	20	MG/KG	06/13/2011	DLC	
Xylenes	EPA-8021	150	4.0	20	MG/KG	06/13/2011	DLC	
C5-C6 Aliphatics	NWVPH	54	25	5	MG/KG	06/21/2011	DLC	
>C6-C8 Aliphatics	NWVPH	240	25	5	MG/KG	06/21/2011	DLC	
>C8-C10 Aliphatics	NWVPH	U	25	5	MG/KG	06/21/2011	DLC	
>C10-C12 Aliphatics	NWVPH	130	25	5	MG/KG	06/21/2011	DLC	
>C8-C10 Aromatics	NWVPH	470	25	5	MG/KG	06/21/2011	DLC	
>C10-C12 Aromatics	NWVPH	310	25	5	MG/KG	06/21/2011	DLC	
>C12-C13 Aromatics	NWVPH	160	25	5	MG/KG	06/21/2011	DLC	
Hexane	NWVPH	14	1.0	5	MG/KG	06/21/2011	DLC	
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
>C10-C12 Aliphatics	NWEPH	5.5	5.0	1	MG/KG	06/14/2011	EBS	
>C12-C16 Aliphatics	NWEPH	12	5.0	1	MG/KG	06/14/2011	EBS	
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
>C10-C12 Aromatics	NWEPH	6.3	5.0	1	MG/KG	06/14/2011	EBS	
>C12-C16 Aromatics	NWEPH	22	5.0	1	MG/KG	06/14/2011	EBS	
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS	
1,2-Dichloroethane	EPA-8260	250	10	1	UG/KG	06/10/2011	GAP	
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP	
Naphthalene	EPA-8270 SIM	1.3	0.020	2	MG/KG	06/15/2011	LAP	
2-Methylnaphthalene	EPA-8270 SIM	3.4	0.020	2	MG/KG	06/15/2011	LAP	
1-Methylnaphthalene	EPA-8270 SIM	1.5	0.020	2	MG/KG	06/15/2011	LAP	
Acenaphthylene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Acenaphthene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Fluorene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Phenanthrene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	
Chrysene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP	



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	B-1 9ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/8/2011 08:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	2	MG/KG	06/15/2011	LAP
Lead	EPA-6020	7.6	0.58	5	MG/KG	06/15/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 20X Dilution	NWTPH-GX	549 DS2	06/13/2011	DLC
TFT 20X Dilution	EPA-8021	557 DS2	06/13/2011	DLC
TFT - Aliphatic 5X Dilution	NWVPH	82.0	06/21/2011	DLC
TFT - Aromatic 5X Dilution	NWVPH	80.0	06/21/2011	DLC
TFT - Hexane 5X Dilution	NWVPH	90.0	06/21/2011	DLC
C25	NWEPH	80.0	06/14/2011	EBS
p-Terphenyl	NWEPH	90.0	06/14/2011	EBS
1,2-Dichloroethane-d4	EPA-8260	142 GS1	06/10/2011	GAP
Terphenyl-d14 2X Dilution	EPA-8270 SIM	111	06/15/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
 GS1 - Surrogate outside of control limits due to matrix effect.
 DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	B-1 29ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/8/2011 08:50
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	3.9	3.0	1	MG/KG	06/13/2011	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	2.4	0.030	1	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	0.35	0.050	1	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/13/2011	DLC
1,2-Dichloroethane	EPA-8260	18	10	1	UG/KG	06/10/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP
Naphthalene	EPA-8270 SIM	0.028	0.020	1	MG/KG	06/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	3.1	0.58	5	MG/KG	06/15/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	84.3	06/13/2011	DLC
TFT	EPA-8021	80.8	06/13/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	106	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	116	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	B-2 14ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/8/2011 12:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/13/2011	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/13/2011	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/10/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	4.8	0.58	5	MG/KG	06/15/2011	RAL
Total Organic Carbon (TOC)	EPA-9060	790	0.0020	1	mg/Kg-dry	06/20/2011	SL

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	59.2 GS1	06/13/2011	DLC
TFT	EPA-8021	63.2	06/13/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	98.4	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	119	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	B-2 29ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/8/2011 13:00
		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	06/13/2011	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/13/2011	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/10/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	2.9	0.58	5	MG/KG	06/15/2011	RAL
Total Organic Carbon (TOC)	EPA-9060	410	0.0020	1	mg/Kg-dry	06/20/2011	SL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	68.4	06/13/2011	DLC
TFT	EPA-8021	70.6	06/13/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	101	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	113	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	B-3 9ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/9/2011 09:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	55	6.0	2	MG/KG	06/13/2011	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.20	2	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	1.2	0.060	2	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	0.16	0.10	2	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	1.5	0.10	2	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	6.6	0.40	2	MG/KG	06/13/2011	DLC
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C6-C8 Aliphatics	NWVPH	9.5	5.0	1	MG/KG	06/21/2011	DLC
>C8-C10 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C10-C12 Aliphatics	NWVPH	6.0	5.0	1	MG/KG	06/21/2011	DLC
>C8-C10 Aromatics	NWVPH	23	5.0	1	MG/KG	06/21/2011	DLC
>C10-C12 Aromatics	NWVPH	16	5.0	1	MG/KG	06/21/2011	DLC
>C12-C13 Aromatics	NWVPH	7.8	5.0	1	MG/KG	06/21/2011	DLC
Hexane	NWVPH	0.37	0.20	1	MG/KG	06/21/2011	DLC
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C12-C16 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
1,2-Dichloroethane	EPA-8260	27	10	1	UG/KG	06/10/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP
Naphthalene	EPA-8270 SIM	0.38	0.020	1	MG/KG	06/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.44	0.020	1	MG/KG	06/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.16	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	B-3 9ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/9/2011 09:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	
						DATE	BY
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	6.1	0.58	5	MG/KG	06/15/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT 2X Dilution	NWTPH-GX	96.2	06/13/2011	DLC
TFT 2X Dilution	EPA-8021	99.3	06/13/2011	DLC
TFT - Aliphatic	NWVPH	72.0	06/21/2011	DLC
TFT - Aromatic	NWVPH	104	06/21/2011	DLC
TFT - Hexane	NWVPH	88.0	06/21/2011	DLC
C25	NWEPH	90.0	06/14/2011	EBS
p-Terphenyl	NWEPH	91.0	06/14/2011	EBS
1,2-Dichloroethane-d4	EPA-8260	197 GS1	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	121	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
 GS1 - Surrogate outside of control limits due to matrix effect.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	B-3 9ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/9/2011 09:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	6.1	0.58	5	MG/KG	06/15/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 2X Dilution	NWTPH-GX	96.2	06/13/2011	DLC
TFT 2X Dilution	EPA-8021	99.3	06/13/2011	DLC
TFT - Aliphatic	NWVPH	72.0	06/21/2011	DLC
TFT - Aromatic	NWVPH	104	06/21/2011	DLC
TFT - Hexane	NWVPH	88.0	06/21/2011	DLC
C25	NWEPH	90.0	06/14/2011	EBS
p-Terphenyl	NWEPH	91.0	06/14/2011	EBS
1,2-Dichloroethane-d4	EPA-8260	197 GS1	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	121	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
 GS1 - Surrogate outside of control limits due to matrix effect.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106051
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	B-3 14ft	DATE RECEIVED:	6/9/2011
		COLLECTION DATE:	6/9/2011 09:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/13/2011	DLC
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	0.19	0.030	1	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	0.097	0.050	1	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/13/2011	DLC
1,2-Dichloroethane	EPA-8260	21	10	1	UG/KG	06/10/2011	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/10/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/14/2011	LAP
Lead	EPA-6020	5.4	0.58	5	MG/KG	06/15/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	70.7	06/13/2011	DLC
TFT	EPA-8021	71.1	06/13/2011	DLC
1,2-Dichloroethane-d4	EPA-8260	96.7	06/10/2011	GAP
Terphenyl-d14	EPA-8270 SIM	102	06/14/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 6/22/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1106051
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MBG-061011S - Batch 1851 - 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	06/13/2011	DLC

MB-061011S - Batch 1851 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether	EPA-8021	U	0.10	1	MG/KG	06/13/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	06/13/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	06/13/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/13/2011	DLC

MBLK-6212011 - Batch R73917 - Soil by NWVPH

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C6-C8 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C8-C10 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C10-C12 Aliphatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C8-C10 Aromatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C10-C12 Aromatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
>C12-C13 Aromatics	NWVPH	U	5.0	1	MG/KG	06/21/2011	DLC
Hexane	NWVPH	U	0.20	1	MG/KG	06/21/2011	DLC

MBLK-6142011 - Batch R73918 - Soil by NWEPH

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
>C8-C10 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C10-C12 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C12-C16 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C16-C21 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C21-C34 Aliphatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C8-C10 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C10-C12 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C12-C16 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C16-C21 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS
>C21-C34 Aromatics	NWEPH	U	5.0	1	MG/KG	06/14/2011	EBS



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 6/22/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1106051
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MBLK-6142011 - Batch R73918 - Soil by NWEPH

MB-060611S - Batch 1832 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/06/2011	CCN
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/06/2011	CCN
Toluene	EPA-8260	U	10	1	UG/KG	06/06/2011	CCN
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/06/2011	CCN

MB-060611S - Batch 1829 - Soil by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Naphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	MG/KG	06/06/2011	LAP

MB-061011S - Batch 1852 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Lead	EPA-6020	U	0.12	1	MG/KG	06/15/2011	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 6/22/2011
228 E. Champion St., Suite 101 ALS SDG#: 1106051
Bellingham, WA 98225 WDOE ACCREDITATION: C601
CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MB-R73919 - Batch R73919 - Soil by EPA-9060

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
Total Organic Carbon (TOC)	EPA-9060	U	0.0020	1	mg/Kg-dry	06/20/2011	SL



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
		ALS SDG#:	1106051
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Harold Cashman		
CLIENT PROJECT:	Lopez Village Market		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 1851 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	78.3			06/13/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	70.1	11		06/13/2011	DLC

ALS Test Batch ID: 1851 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Methyl T-Butyl Ether - BS	EPA-8021	94.0			06/13/2011	DLC
Methyl T-Butyl Ether - BSD	EPA-8021	88.2	6		06/13/2011	DLC
Benzene - BS	EPA-8021	97.4			06/13/2011	DLC
Benzene - BSD	EPA-8021	89.6	8		06/13/2011	DLC
Toluene - BS	EPA-8021	96.0			06/13/2011	DLC
Toluene - BSD	EPA-8021	88.0	9		06/13/2011	DLC
Ethylbenzene - BS	EPA-8021	89.2			06/13/2011	DLC
Ethylbenzene - BSD	EPA-8021	80.6	10		06/13/2011	DLC
Xylenes - BS	EPA-8021	94.5			06/13/2011	DLC
Xylenes - BSD	EPA-8021	85.5	10		06/13/2011	DLC

ALS Test Batch ID: R73917 - Soil by NWVPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
C5-C6 Aliphatics - BS	NWVPH	84.0			06/21/2011	DLC
C5-C6 Aliphatics - BSD	NWVPH	89.0	6		06/21/2011	DLC
>C6-C8 Aliphatics - BS	NWVPH	78.0			06/21/2011	DLC
>C6-C8 Aliphatics - BSD	NWVPH	86.0	10		06/21/2011	DLC
>C8-C10 Aliphatics - BS	NWVPH	78.0			06/21/2011	DLC
>C8-C10 Aliphatics - BSD	NWVPH	84.0	7		06/21/2011	DLC
>C10-C12 Aliphatics - BS	NWVPH	71.0			06/21/2011	DLC
>C10-C12 Aliphatics - BSD	NWVPH	73.0	3		06/21/2011	DLC
>C8-C10 Aromatics - BS	NWVPH	92.0			06/21/2011	DLC
>C8-C10 Aromatics - BSD	NWVPH	99.0	7		06/21/2011	DLC
>C10-C12 Aromatics - BS	NWVPH	77.0			06/21/2011	DLC
>C10-C12 Aromatics - BSD	NWVPH	84.0	9		06/21/2011	DLC
>C12-C13 Aromatics - BS	NWVPH	80.0			06/21/2011	DLC
>C12-C13 Aromatics - BSD	NWVPH	87.0	8		06/21/2011	DLC
Hexane - BS	NWVPH	86.0			06/21/2011	DLC
Hexane - BSD	NWVPH	92.0	7		06/21/2011	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	6/22/2011
CLIENT CONTACT:	Harold Cashman	ALS SDG#:	1106051
CLIENT PROJECT:	Lopez Village Market	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R73918 - Soil by NWEPH

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
>C8-C10 Aliphatics - BS	NWEPH	97.0			06/14/2011	EBS
>C8-C10 Aliphatics - BSD	NWEPH	90.0	7		06/14/2011	EBS
>C10-C12 Aliphatics - BS	NWEPH	101			06/14/2011	EBS
>C10-C12 Aliphatics - BSD	NWEPH	91.0	10		06/14/2011	EBS
>C12-C16 Aliphatics - BS	NWEPH	106			06/14/2011	EBS
>C12-C16 Aliphatics - BSD	NWEPH	95.0	11		06/14/2011	EBS
>C16-C21 Aliphatics - BS	NWEPH	105			06/14/2011	EBS
>C16-C21 Aliphatics - BSD	NWEPH	94.0	11		06/14/2011	EBS
>C21-C34 Aliphatics - BS	NWEPH	94.0			06/14/2011	EBS
>C21-C34 Aliphatics - BSD	NWEPH	85.0	10		06/14/2011	EBS
>C8-C10 Aromatics - BS	NWEPH	95.0			06/14/2011	EBS
>C8-C10 Aromatics - BSD	NWEPH	99.0	4		06/14/2011	EBS
>C10-C12 Aromatics - BS	NWEPH	98.0			06/14/2011	EBS
>C10-C12 Aromatics - BSD	NWEPH	101	3		06/14/2011	EBS
>C12-C16 Aromatics - BS	NWEPH	100			06/14/2011	EBS
>C12-C16 Aromatics - BSD	NWEPH	104	4		06/14/2011	EBS
>C16-C21 Aromatics - BS	NWEPH	100			06/14/2011	EBS
>C16-C21 Aromatics - BSD	NWEPH	102	2		06/14/2011	EBS
>C21-C34 Aromatics - BS	NWEPH	91.0			06/14/2011	EBS
>C21-C34 Aromatics - BSD	NWEPH	90.0	1		06/14/2011	EBS

ALS Test Batch ID: 1832 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	96.7			06/06/2011	CCN
1,1-Dichloroethene - BSD	EPA-8260	99.8	3		06/06/2011	CCN
Toluene - BS	EPA-8260	87.7			06/06/2011	CCN
Toluene - BSD	EPA-8260	96.0	9		06/06/2011	CCN

ALS Test Batch ID: 1829 - Soil by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	89.0			06/06/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	85.9	4		06/06/2011	LAP
Acenaphthene - BS	EPA-8270 SIM	90.4			06/06/2011	LAP
Acenaphthene - BSD	EPA-8270 SIM	87.6	3		06/06/2011	LAP
Pyrene - BS	EPA-8270 SIM	101			06/06/2011	LAP
Pyrene - BSD	EPA-8270 SIM	97.9	4		06/06/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	68.8			06/06/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 6/22/2011
228 E. Champion St., Suite 101 ALS SDG#: 1106051
Bellingham, WA 98225 WDOE ACCREDITATION: C601
CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Lopez Village Market

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	68.9	0		06/06/2011	LAP

ALS Test Batch ID: 1852 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Lead - BS	EPA-6020	91.9			06/15/2011	RAL
Lead - BSD	EPA-6020	96.5	5		06/15/2011	RAL

ALS Test Batch ID: R73919 - Soil by EPA-9060

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	EPA-9060	103			06/20/2011	SL

APPROVED BY

Laboratory Director

Chain Of Custody/ Laboratory Analysis Request

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



PROJECT ID: Lopez Village Market
 REPORT TO COMPANY: Whistron Environmental Services
 PROJECT MANAGER: Harold Cashman #101
 ADDRESS: 208 E. Champion St #101
 Bellingham WA 98225
 PHONE: 360 752-9571 FAX:
 P.O. NUMBER:
 INVOICE TO COMPANY: Colony Insurance 410 Matt
 ATTENTION: Miller - Antea Group
 ADDRESS: Claim # 192232

ANALYSIS REQUESTED		OTHER (Specify)	
RECEIVED IN GOOD CONDITION?	NUMBER OF CONTAINERS		
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 by EPA 8081/8082			
Metals-MTCA-5 RCRA-8 Pt Pol TAL			
Metals Other (Specify) Lead			
TCLP-Metals VOA Semi-Vol Pest Herbs			
VPH			
EDH			
Hexane			
Total Organic Carbon			

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
B-1 9ft	6/8/11	8:10	Soil	1
B-1 29ft	6/8/11	8:50		2
B-2 14ft	6/8/11	12:00		3
B-2 29ft	6/8/11	1:00		4
B-3 9ft	6/9/11	9:00		5
B-3 14ft	6/9/11	9:10		6

SPECIAL INSTRUCTIONS: Samples collected via 5035A Confirm MTBE hits by 8260.

TURNAROUND REQUESTED IN Business Days*
 OTHER:
 Organic, Metals & Inorganic Analysis
 Specify: 5 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 Specify: 3 1 SAME DAY

SIGNATURES (Name, Company Date, Time):
 Relinquished By: Shawn Roberson NES 6/9/11 10:40
 Received By: Shawn Roberson ALS 6/9/11 3:35
 Relinquished By:
 Received By:

* Turnaround request less than standard may incur Rush Charges



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 2/25/2011
228 E. Champion St., Suite 101 ALS JOB#: 1102146
Bellingham, WA 98225 ALS SAMPLE#: -01
CLIENT CONTACT: Harold Cashman DATE RECEIVED: 2/23/2011
CLIENT PROJECT: Lopez Village Market COLLECTION DATE: 2/18/2011 11:05
CLIENT SAMPLE ID TP-11 6ft WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	140	30	10	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	0.10	0.030	1	MG/KG	02/25/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2011	DLC
Ethylbenzene	EPA-8021	0.72	0.050	1	MG/KG	02/25/2011	DLC
Xylenes	EPA-8021	0.54	0.20	1	MG/KG	02/25/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	156 DS2	02/24/2011	DLC
TFT	EPA-8021	108	02/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	TP-11 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 11:20
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	100	30	10	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2011	DLC
Ethylbenzene	EPA-8021	0.51	0.050	1	MG/KG	02/25/2011	DLC
Xylenes	EPA-8021	1.1	0.20	1	MG/KG	02/25/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT 10X Dilution	NWTPH-GX	137 DS2	02/24/2011	DLC
TFT	EPA-8021	88.5	02/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
 DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.
 Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-7 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 11:45
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	270	30	10	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	5.3	0.30	10	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	1.5	0.50	10	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	5.1	0.50	10	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	29	2.0	10	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT 10X Dilution	NWTPH-GX	86.4 DS2	02/24/2011	DLC
TFT 10X Dilution	EPA-8021	127 DS2	02/24/2011	DLC

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled. Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	TP-6 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 12:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	100	12	4	MG/KG	02/25/2011	DLC
Benzene	EPA-8021	5.4	0.12	4	MG/KG	02/25/2011	DLC
Toluene	EPA-8021	4.3	0.20	4	MG/KG	02/25/2011	DLC
Ethylbenzene	EPA-8021	1.8	0.20	4	MG/KG	02/25/2011	DLC
Xylenes	EPA-8021	11	0.80	4	MG/KG	02/25/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT 4X Dilution	NWTPH-GX	78.6	02/25/2011	DLC
TFT 4X Dilution	EPA-8021	92.4	02/25/2011	DLC

Chromatogram indicates that it is likely that sample contains lightly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	TP-12 3ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 12:40
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	560	60	20	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	5.6	0.60	20	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	8.6	1.0	20	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	7.8	1.0	20	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	38	4.0	20	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT 20X Dilution	NWTPH-GX	254 DS2	02/24/2011	DLC
TFT 20X Dilution	EPA-8021	316 DS2	02/24/2011	DLC

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled. Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	TP-12 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 12:50
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	230	30	10	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	3.3	0.30	10	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	2.8	0.50	10	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	3.1	0.50	10	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	20	2.0	10	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	134 DS2	02/24/2011	DLC
TFT 10X Dilution	EPA-8021	172 DS2	02/24/2011	DLC

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled. Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	TP-2 7ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 13:10
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	68	15	5	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	0.049	0.030	1	MG/KG	02/25/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2011	DLC
Ethylbenzene	EPA-8021	0.57	0.050	1	MG/KG	02/25/2011	DLC
Xylenes	EPA-8021	0.44	0.20	1	MG/KG	02/25/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 5X Dilution	NWTPH-GX	78.7	02/24/2011	DLC
TFT	EPA-8021	113	02/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	TP-13 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 13:40
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	260	12	4	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	0.26	0.12	4	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	U	0.20	4	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	3.8	0.20	4	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	9.0	0.80	4	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT 4X Dilution	NWTPH-GX	86.6	02/24/2011	DLC
TFT 4X Dilution	EPA-8021	108	02/24/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-09
CLIENT SAMPLE ID	TP-14 8ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 14:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/25/2011	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	02/25/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/25/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/25/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/25/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	82.1	02/25/2011	DLC
TFT	EPA-8021	85.5	02/25/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-10
CLIENT SAMPLE ID	TP-11 12ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 14:40
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	5.4	3.0	1	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	0.048	0.030	1	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	0.077	0.050	1	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	108	02/24/2011	DLC
TFT	EPA-8021	125	02/24/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: 2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#: 1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#: -11
CLIENT SAMPLE ID	TP-12 13ft	DATE RECEIVED: 2/23/2011
		COLLECTION DATE: 2/18/2011 15:05
		WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	4.4	3.0	1	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	3.2	0.030	1	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	0.24	0.050	1	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	113	02/24/2011	DLC
TFT	EPA-8021	109	02/24/2011	DLC

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	2/25/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1102146
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	TP-13 11ft	DATE RECEIVED:	2/23/2011
		COLLECTION DATE:	2/18/2011 15:30
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	13	3.0	1	MG/KG	02/24/2011	DLC
Benzene	EPA-8021	1.2	0.031	1	MG/KG	02/24/2011	DLC
Toluene	EPA-8021	0.10	0.051	1	MG/KG	02/24/2011	DLC
Ethylbenzene	EPA-8021	0.74	0.051	1	MG/KG	02/24/2011	DLC
Xylenes	EPA-8021	1.1	0.21	1	MG/KG	02/24/2011	DLC

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	94.0	02/24/2011	DLC
TFT	EPA-8021	118	02/24/2011	DLC

Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 2/25/2011
228 E. Champion St., Suite 101 ALS JOB#: 1102146
Bellingham, WA 98225 WDOE ACCREDITATION: C601
CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MBG-022311S2

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	02/23/2011	DLC

MB-022311S2

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	0.030	1	MG/KG	02/23/2011	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	02/23/2011	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	02/23/2011	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	02/23/2011	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 2/25/2011
228 E. Champion St., Suite 101 ALS JOB#: 1102146
Bellingham, WA 98225 WDOE ACCREDITATION: C601
CLIENT CONTACT: Harold Cashman
CLIENT PROJECT: Lopez Village Market

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 1516 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	81.7			02/23/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	87.6	6		02/23/2011	DLC

ALS Test Batch ID: 1516 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	96.4			02/23/2011	DLC
Benzene - BSD	EPA-8021	95.5	0		02/23/2011	DLC
Toluene - BS	EPA-8021	97.1			02/23/2011	DLC
Toluene - BSD	EPA-8021	96.0	1		02/23/2011	DLC
Ethylbenzene - BS	EPA-8021	92.8			02/23/2011	DLC
Ethylbenzene - BSD	EPA-8021	91.1	1		02/23/2011	DLC
Xylenes - BS	EPA-8021	98.1			02/23/2011	DLC
Xylenes - BSD	EPA-8021	97.4	0		02/23/2011	DLC

APPROVED BY

Laboratory Director



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#

1102146

Date

Page 1 Of 2

OTHER (Specify)

ANALYSIS REQUESTED

<input type="checkbox"/> Volatile Organic Compounds by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 <input type="checkbox"/> MTBE by EPA-8021 EPA-8260 <input type="checkbox"/> BTEX by EPA-8021 <input type="checkbox"/> NWTPH-GX <input type="checkbox"/> NWTPH-DX <input type="checkbox"/> NWTPH-HCID	<input type="checkbox"/> EDB / EDC by EPA 8260 (water) <input type="checkbox"/> EDB / EDC by EPA 8260 (soil) <input type="checkbox"/> Semivolatile Organic Compounds by EPA 8270 <input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM <input type="checkbox"/> PCB Pesticides by EPA 8081/8082 <input type="checkbox"/> Metals-MTCA-5 RCRA-8 Pst Pol TAL <input type="checkbox"/> Metals Other (Specify) <input type="checkbox"/> TCLP-Metals VOA Semi-Vol Pst Herbs	RECEIVED IN GOOD CONDITION? NUMBER OF CONTAINERS
---	--	---

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. TP-11 6ft	2/18/11	1105	Soil	1
2. TP-11 8ft		1120		2
3. TP-7 8ft		1145		3
4. TP-6 8ft		1210		4
5. TP-12 3ft		1240		5
6. TP-12 8ft		1250		6
7. TP-2 7ft		1310		7
8. TP-13 8ft		1340		8
9. TP-14 8ft		1400		9
10. TP-11 12ft		1440		10

PROJECT ID:
 REPORT TO COMPANY:
 PROJECT MANAGER:
 ADDRESS:
 PHONE:
 P.O. NUMBER:
 INVOICE TO COMPANY:
 ATTENTION:
 ADDRESS:

Lopez Village Mucker
 Whitcom Environmental Services
 Harold Cashman
 338 E. Champion St #101
 Bellingham, WA 98225
 360 757-9571
 Coleby Insurance
 C/O Matt Miller
 Claim # 192332
 Arden Group

LABORATORY COPY

SPECIAL INSTRUCTIONS: Samples collected via Method 5055A

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: *Shawn Robnan* 2/23/11 3:00

Received By:

2. Relinquished By: *Shawn Robnan* ALS 2/23/11 9:25

TURNAROUND REQUESTED in Business Days*
 OTHER:

Organic, Metals & Inorganic Analysis

Fuels & Hydrocarbon Analysis

* Turnaround request less than standard may incur Rush Charges



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)

110246

Page 2 Of 2

Date

OTHER (Specify)

ANALYSIS REQUESTED

PROJECT ID: Lopez Village Market
REPORT TO COMPANY: Wharton Environmental Services
PROJECT MANAGER: Harold Cashman
ADDRESS: 278 E. Champion St #101
Bellingham WA 98235
PHONE: 360 752-9571 FAX:
PO. NUMBER: E-MAIL:
INVOICE TO COMPANY: Century Insurance
ATTENTION: C/O. Brent Miller Antea Group
ADDRESS: CLAIM# 192232

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. TP-12 13 ft	2/18/11	1505	Soil	11
2. TP-13 11 ft	↓	1530	Soil	12
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Halogenated Volatiles by EPA 8260
MTBE by EPA-8021 EPA-8260
BTEX by EPA-8021
NWTPH-GX
NWTPH-DX
NWTPH-HCID
X
X
Volatiles Organic Compounds by EPA 8260
EPA 8260 SIM (water)
EPA 8260 SIM (soil)
EPA 8270
Semivolatile Organic Compounds by EPA 8270
Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM
PCB Pesticides by EPA 8081/8082
Metals-MTCA-5 RCRA-8 Pn Pol TAL
Metals Other (Specify)
TCF-Metals VOA Semi-Vol Pest Herbs

RECEIVED IN GOOD CONDITION?

SPECIAL INSTRUCTIONS Samples collected via Method 5053A

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: *[Signature]* iNES 2/23/11 3:00

Received By:

2. Relinquished By: *[Signature]* Shawn Robinson AU 2/23/11 9:25

Received By:

TURNAROUND REQUESTED in Business Days*
OTHER:

Organic, Metals & Inorganic Analysis
10 5 3 2 1
Specify:
Fuels & Hydrocarbon Analysis
3 1
Specify:

* Turnaround request less than standard may incur Rush Charges

APPENDIX F

Groundwater Sample Laboratory Analytical Data Reports



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	7/1/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106132
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	MW-3	DATE RECEIVED:	6/24/2011
		COLLECTION DATE:	6/23/2011 09:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	59	50	1	UG/L	06/24/2011	DLC
Benzene	EPA-8021	9.7	1.0	1	UG/L	06/24/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	06/24/2011	DLC
Methyl T-Butyl Ether	EPA-8260 SIM	U	2.0	1	UG/L	06/27/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	24	0.020	1	UG/L	06/27/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	06/27/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	06/28/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	99.0	06/24/2011	DLC
TFT	EPA-8021	118	06/24/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	89.6	06/27/2011	GAP
Toluene-d8	EPA-8260 SIM	97.2	06/27/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	109	06/27/2011	GAP
2,4,6-Tribromophenol	EPA-8270 SIM	63.6	06/30/2011	LAP
Terphenyl-d14	EPA-8270 SIM	90.3	06/30/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	7/1/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106132
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	6/24/2011
		COLLECTION DATE:	6/23/2011 10:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	06/24/2011	DLC
Methyl T-Butyl Ether	EPA-8260 SIM	U	2.0	1	UG/L	06/27/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	06/27/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	06/27/2011	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	06/28/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	94.0	06/24/2011	DLC
TFT	EPA-8021	108	06/24/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	97.0	06/27/2011	GAP
Toluene-d8	EPA-8260 SIM	95.2	06/27/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	104	06/27/2011	GAP
2,4,6-Tribromophenol	EPA-8270 SIM	59.7	06/30/2011	LAP
Terphenyl-d14	EPA-8270 SIM	92.9	06/30/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	7/1/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106132
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	MW-1	DATE RECEIVED:	6/24/2011
		COLLECTION DATE:	6/23/2011 11:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
TPH-Volatile Range	NWTPH-GX	1600	50	1	UG/L	06/24/2011	DLC
Benzene	EPA-8021	9700	200	200	UG/L	06/28/2011	DLC
Toluene	EPA-8021	130	5.0	5	UG/L	06/28/2011	DLC
Ethylbenzene	EPA-8021	150	5.0	5	UG/L	06/28/2011	DLC
Xylenes	EPA-8021	120	3.0	1	UG/L	06/24/2011	DLC
Methyl T-Butyl Ether	EPA-8260 SIM	U	2.0	1	UG/L	06/27/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	140	0.40	20	UG/L	06/27/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	06/27/2011	GAP
Naphthalene	EPA-8270 SIM	3.5	0.020	1	UG/L	06/30/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.95	0.020	1	UG/L	06/30/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.40	0.020	1	UG/L	06/30/2011	LAP
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	06/28/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	90.2	06/24/2011	DLC
TFT	EPA-8021	115	06/24/2011	DLC
TFT 5X Dilution	EPA-8021	108	06/28/2011	DLC
TFT 200X Dilution	EPA-8021	106	06/28/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	110	06/27/2011	GAP
1,2-Dichloroethane-d4 20X Dilution	EPA-8260 SIM	85.3	06/27/2011	GAP
Toluene-d8	EPA-8260 SIM	97.4	06/27/2011	GAP
Toluene-d8 20X Dilution	EPA-8260 SIM	99.4	06/27/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	97.7	06/27/2011	GAP
4-Bromofluorobenzene 20X Dilution	EPA-8260 SIM	103	06/27/2011	GAP
2,4,6-Tribromophenol	EPA-8270 SIM	59.4	06/30/2011	LAP
Terphenyl-d14	EPA-8270 SIM	85.5	06/30/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	7/1/2011
CLIENT CONTACT:	Harold Cashman	ALS JOB#:	1106132
CLIENT PROJECT:	Lopez Village Market	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	MW-4	DATE RECEIVED:	6/24/2011
		COLLECTION DATE:	6/23/2011 12:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1700	50	1	UG/L	06/24/2011	DLC
Benzene	EPA-8021	10000	200	200	UG/L	06/28/2011	DLC
Toluene	EPA-8021	130	5.0	5	UG/L	06/28/2011	DLC
Ethylbenzene	EPA-8021	160	5.0	5	UG/L	06/28/2011	DLC
Xylenes	EPA-8021	130	3.0	1	UG/L	06/24/2011	DLC
Methyl T-Butyl Ether	EPA-8260 SIM	U	2.0	1	UG/L	06/27/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	140	0.40	20	UG/L	06/27/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	06/27/2011	GAP
Naphthalene	EPA-8270 SIM	4.1	0.020	1	UG/L	06/30/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	1.1	0.020	1	UG/L	06/30/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.48	0.020	1	UG/L	06/30/2011	LAP
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	06/28/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.8	06/24/2011	DLC
TFT	EPA-8021	115	06/24/2011	DLC
TFT 5X Dilution	EPA-8021	108	06/28/2011	DLC
TFT 200X Dilution	EPA-8021	109	06/28/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	104	06/27/2011	GAP
1,2-Dichloroethane-d4 20X Dilution	EPA-8260 SIM	86.8	06/27/2011	GAP
Toluene-d8	EPA-8260 SIM	98.0	06/27/2011	GAP
Toluene-d8 20X Dilution	EPA-8260 SIM	98.6	06/27/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	98.7	06/27/2011	GAP
4-Bromofluorobenzene 20X Dilution	EPA-8260 SIM	105	06/27/2011	GAP
2,4,6-Tribromophenol	EPA-8270 SIM	62.1	06/30/2011	LAP
Terphenyl-d14	EPA-8270 SIM	86.9	06/30/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 7/1/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1106132
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market

LABORATORY BLANK RESULTS

MBG-062411W - Batch 1896 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2011	DLC

MB-062411W - Batch 1896 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	06/24/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	06/24/2011	DLC

MB-062711W - Batch 1893 - Water by EPA-8260 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/27/2011	GAP
Methyl T-Butyl Ether	EPA-8260 SIM	U	0.10	1	UG/L	06/27/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	U	0.10	1	UG/L	06/27/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	06/27/2011	GAP

MB-062811W - Batch 1901 - Water by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	06/30/2011	LAP

MB-062711W - Batch 1895 - Water by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	06/28/2011	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 7/1/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1106132
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Harold Cashman
 CLIENT PROJECT: Lopez Village Market

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 1896 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	92.2			06/24/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	93.8	2		06/24/2011	DLC

ALS Test Batch ID: 1896 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	104			06/24/2011	DLC
Benzene - BSD	EPA-8021	107	2		06/24/2011	DLC
Toluene - BS	EPA-8021	100			06/24/2011	DLC
Toluene - BSD	EPA-8021	102	2		06/24/2011	DLC
Ethylbenzene - BS	EPA-8021	97.1			06/24/2011	DLC
Ethylbenzene - BSD	EPA-8021	99.4	2		06/24/2011	DLC
Xylenes - BS	EPA-8021	98.0			06/24/2011	DLC
Xylenes - BSD	EPA-8021	100	2		06/24/2011	DLC

ALS Test Batch ID: 1893 - Water by EPA-8260 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260 SIM	95.6			06/27/2011	GAP
1,1-Dichloroethene - BSD	EPA-8260 SIM	110	14		06/27/2011	GAP

ALS Test Batch ID: 1901 - Water by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	80.2			06/30/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	83.1	4		06/30/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	66.5			06/30/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	72.7	9		06/30/2011	LAP

ALS Test Batch ID: 1895 - Water by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Lead (Dissolved) - BS	EPA-6020	95.2			06/28/2011	RAL
Lead (Dissolved) - BSD	EPA-6020	94.8	0		06/28/2011	RAL

CERTIFICATE OF ANALYSIS

APPROVED BY



Laboratory Director



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)

1106132

Date 6/23/11 Page 1 Of 1

ANALYSIS REQUESTED				OTHER (Specify)			
<input type="checkbox"/> NMTPH-HCID	<input type="checkbox"/> NMTPH-DX	<input type="checkbox"/> NMTPH-GX	<input type="checkbox"/> BTEX by EPA-8021	<input type="checkbox"/> MTBE by EPA-8260	<input type="checkbox"/> Halogenated Volatiles by EPA 8260	<input type="checkbox"/> Volatile Organic Compounds by EPA 8260	<input type="checkbox"/> EDB / EDC by EPA 8260 (water)
<input type="checkbox"/> EDB / EDC by EPA 8260 (soil)	<input type="checkbox"/> Semivolatile Organic Compounds by EPA 8270	<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	<input type="checkbox"/> PCB Pesticides by EPA 8081/8082	<input type="checkbox"/> Metals-MTCA-5	<input type="checkbox"/> RCRA-8	<input type="checkbox"/> Ph Pol	<input type="checkbox"/> TAL
<input type="checkbox"/> Metals Other (Specify)	<input type="checkbox"/> Lead (Pb) <u>part Dissolved</u>	<input type="checkbox"/> TCLP-Metals	<input type="checkbox"/> VOA	<input type="checkbox"/> Semi-Vol	<input type="checkbox"/> Pest	<input type="checkbox"/> Herbs	<input type="checkbox"/> Naphthalenes
<input type="checkbox"/> 1-Methyl Naphthalene	<input type="checkbox"/> 2-Methyl Naphthalene						
<input type="checkbox"/> NUMBER OF CONTAINERS							
<input type="checkbox"/> RECEIVED IN GOOD CONDITION?							

PROJECT ID: Lopez Village Market
 REPORT TO COMPANY: Whitson Env. Svcs.
 PROJECT MANAGER: Harold Gashman
 ADDRESS: 228 E. Champion #101
 Bham, WA 98225
 PHONE: 752-9571 FAX: (360) 752-9573
 E-MAIL: hjcashman@whitson.com
 PO NUMBER:
 INVOICE TO COMPANY: Colony Insurance
 ATTENTION: % Matt Miller
 ADDRESS: Project #: 192232

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. MW-3	6/23/11	900	water	1
2. MW-2	}	1000	}	2
3. MW-1		1100		3
4. MW-4		1200		4

SPECIAL INSTRUCTIONS: Metals Samples were Field Filtered into preserved bottles - 145 micron med. Capacity GeoTech Filters

TURNAROUND REQUESTED in Business Days*
 OTHER: Organic, Metals & Inorganic Analysis
 Relinquished By: [Signature] WES 6/24/11 @ 900
 Received By: [Signature]
 Relinquished By: Shawn Robinson AS 6/24/11 2:10
 Received By: [Signature]

* Turnaround request: less than standard may incur Rush Charges



August 31, 2011

Mr. Thom Davis
Whatcom Environmental Svcs., Inc.
228 E. Champion St., Suite 101
Bellingham, WA 98225

Dear Mr. Davis,

On August 19th, 4 samples were received by our laboratory and assigned our laboratory project number 1108089. The project was identified as your Lopez Village Market (LVM). The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: 8/31/2011
CLIENT CONTACT:	Thom Davis	ALS JOB#: 1108089
CLIENT PROJECT:	Lopez Village Market (LVM)	ALS SAMPLE#: -01
CLIENT SAMPLE ID	MW-1	DATE RECEIVED: 8/19/2011
		COLLECTION DATE: 8/18/2011 11:30
		WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1600	500	10	UG/L	08/23/2011	DLC
Benzene	EPA-8021	10000	100	100	UG/L	08/22/2011	DLC
Toluene	EPA-8021	110	10	10	UG/L	08/23/2011	DLC
Ethylbenzene	EPA-8021	190	10	10	UG/L	08/23/2011	DLC
Xylenes	EPA-8021	61	30	10	UG/L	08/23/2011	DLC
1,2-Dichloroethane	EPA-8260 SIM	370	0.40	20	UG/L	08/30/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	08/19/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Naphthalene	EPA-8270 SIM	2.7	0.020	1	UG/L	08/22/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.25	0.020	1	UG/L	08/22/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.11	0.020	1	UG/L	08/22/2011	LAP
Lead (Dissolved)	SW6020	U	0.62	1	UG/L	08/24/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	94.7	08/23/2011	DLC
TFT 10X Dilution	EPA-8021	109	08/23/2011	DLC
TFT 100X Dilution	EPA-8021	102	08/22/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	92.5	08/19/2011	GAP
1,2-Dichloroethane-d4 20X Dilution	EPA-8260 SIM	91.3	08/30/2011	GAP
Toluene-d8	EPA-8260 SIM	91.2	08/19/2011	GAP
Toluene-d8 20X Dilution	EPA-8260 SIM	100	08/30/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	94.8	08/19/2011	GAP
4-Bromofluorobenzene 20X Dilution	EPA-8260 SIM	101	08/30/2011	GAP
1,2-Dichloroethane-d4	EPA-8260	92.5	08/19/2011	GAP
Toluene-d8	EPA-8260	91.2	08/19/2011	GAP
4-Bromofluorobenzene	EPA-8260	94.8	08/19/2011	GAP
Terphenyl-d14	EPA-8270 SIM	93.7	08/22/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/31/2011
CLIENT CONTACT:	Thom Davis	ALS JOB#:	1108089
CLIENT PROJECT:	Lopez Village Market (LVM)	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	8/19/2011
		COLLECTION DATE:	8/18/2011 10:30
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/22/2011	DLC
Benzene	EPA-8021	U	1.0	1	UG/L	08/22/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	08/22/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	08/22/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	08/22/2011	DLC
1,2-Dichloroethane	EPA-8260 SIM	U	0.020	1	UG/L	08/30/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	08/19/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Naphthalene	EPA-8270 SIM	0.059	0.020	1	UG/L	08/22/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/22/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/22/2011	LAP
Lead (Dissolved)	SW6020	U	0.62	1	UG/L	08/24/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	86.9	08/22/2011	DLC
TFT	EPA-8021	102	08/22/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	105	08/30/2011	GAP
1,2-Dichloroethane-d4	EPA-8260 SIM	96.8	08/19/2011	GAP
Toluene-d8	EPA-8260 SIM	99.1	08/30/2011	GAP
Toluene-d8	EPA-8260 SIM	91.6	08/19/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	102	08/30/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	97.4	08/19/2011	GAP
1,2-Dichloroethane-d4	EPA-8260	96.8	08/19/2011	GAP
Toluene-d8	EPA-8260	91.6	08/19/2011	GAP
4-Bromofluorobenzene	EPA-8260	97.4	08/19/2011	GAP
Terphenyl-d14	EPA-8270 SIM	59.2 GS1	08/22/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
GS1 - Surrogate outside of control limits due to matrix effect.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/31/2011
CLIENT CONTACT:	Thom Davis	ALS JOB#:	1108089
CLIENT PROJECT:	Lopez Village Market (LVM)	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	MW-3	DATE RECEIVED:	8/19/2011
		COLLECTION DATE:	8/18/2011 09:00
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	3800	500	10	UG/L	08/22/2011	DLC
Benzene	EPA-8021	1300	50	50	UG/L	08/23/2011	DLC
Toluene	EPA-8021	43	10	10	UG/L	08/22/2011	DLC
Ethylbenzene	EPA-8021	180	10	10	UG/L	08/22/2011	DLC
Xylenes	EPA-8021	770	30	10	UG/L	08/22/2011	DLC
1,2-Dichloroethane	EPA-8260 SIM	110	0.20	10	UG/L	08/30/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	08/19/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Naphthalene	EPA-8270 SIM	67	0.080	4	UG/L	08/22/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	10	0.080	4	UG/L	08/22/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	6.5	0.080	4	UG/L	08/22/2011	LAP
Lead (Dissolved)	SW6020	0.78	0.62	1	UG/L	08/24/2011	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	89.6	08/22/2011	DLC
TFT 10X Dilution	EPA-8021	110	08/22/2011	DLC
TFT 50X Dilution	EPA-8021	95.6	08/23/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	92.4	08/19/2011	GAP
1,2-Dichloroethane-d4 10X Dilution	EPA-8260 SIM	95.8	08/30/2011	GAP
Toluene-d8	EPA-8260 SIM	92.8	08/19/2011	GAP
Toluene-d8 10X Dilution	EPA-8260 SIM	100	08/30/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	93.3	08/19/2011	GAP
4-Bromofluorobenzene 10X Dilution	EPA-8260 SIM	99.5	08/30/2011	GAP
1,2-Dichloroethane-d4	EPA-8260	92.4	08/19/2011	GAP
Toluene-d8	EPA-8260	92.8	08/19/2011	GAP
4-Bromofluorobenzene	EPA-8260	93.3	08/19/2011	GAP
Terphenyl-d14 4X Dilution	EPA-8270 SIM	112	08/22/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE:	8/31/2011
CLIENT CONTACT:	Thom Davis	ALS JOB#:	1108089
CLIENT PROJECT:	Lopez Village Market (LVM)	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	MW-4	DATE RECEIVED:	8/19/2011
		COLLECTION DATE:	8/18/2011 12:30
		WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1200	500	10	UG/L	08/23/2011	DLC
Benzene	EPA-8021	10000	200	200	UG/L	08/23/2011	DLC
Toluene	EPA-8021	110	10	10	UG/L	08/23/2011	DLC
Ethylbenzene	EPA-8021	190	10	10	UG/L	08/23/2011	DLC
Xylenes	EPA-8021	61	30	10	UG/L	08/23/2011	DLC
1,2-Dichloroethane	EPA-8260 SIM	390	0.40	20	UG/L	08/30/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	08/19/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Naphthalene	EPA-8270 SIM	2.5	0.029	1	UG/L	08/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.23	0.031	1	UG/L	08/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.10	0.035	1	UG/L	08/26/2011	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT 10X Dilution	NWTPH-GX	90.7	08/23/2011	DLC
TFT 10X Dilution	EPA-8021	101	08/23/2011	DLC
TFT 200X Dilution	EPA-8021	94.2	08/23/2011	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	110	08/19/2011	GAP
1,2-Dichloroethane-d4 20X Dilution	EPA-8260 SIM	93.2	08/30/2011	GAP
Toluene-d8	EPA-8260 SIM	93.6	08/19/2011	GAP
Toluene-d8 20X Dilution	EPA-8260 SIM	100	08/30/2011	GAP
4-Bromofluorobenzene	EPA-8260 SIM	92.7	08/19/2011	GAP
4-Bromofluorobenzene 20X Dilution	EPA-8260 SIM	102	08/30/2011	GAP
1,2-Dichloroethane-d4	EPA-8260	110	08/19/2011	GAP
Toluene-d8	EPA-8260	93.6	08/19/2011	GAP
4-Bromofluorobenzene	EPA-8260	92.7	08/19/2011	GAP
Terphenyl-d14	EPA-8270 SIM	82.6	08/26/2011	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 8/31/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1108089
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Thom Davis
 CLIENT PROJECT: Lopez Village Market (LVM)

LABORATORY BLANK RESULTS

MBG-081711W - Batch 2027 - Water by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/17/2011	DLC

MB-081711W - Batch 2027 - Water by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	U	1.0	1	UG/L	08/17/2011	DLC
Toluene	EPA-8021	U	1.0	1	UG/L	08/17/2011	DLC
Ethylbenzene	EPA-8021	U	1.0	1	UG/L	08/17/2011	DLC
Xylenes	EPA-8021	U	3.0	1	UG/L	08/17/2011	DLC

MB-081911W - Batch 2031 - Water by EPA-8260 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	08/19/2011	GAP
1,2-Dichloroethane	EPA-8260 SIM	U	0.10	1	UG/L	08/19/2011	GAP
1,2-Dibromoethane	EPA-8260 SIM	U	0.010	1	UG/L	08/19/2011	GAP

MB-081911W - Batch 2030 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/19/2011	GAP

MB-081511W - Batch 2010 - Water by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/15/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/15/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/15/2011	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	08/15/2011	LAP

MB-082411W - Batch 2049 - Water by EPA-8270 SIM

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/26/2011	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/26/2011	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	08/26/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT:	Whatcom Environmental Svcs., Inc. 228 E. Champion St., Suite 101 Bellingham, WA 98225	DATE: 8/31/2011 ALS SDG#: 1108089 WDOE ACCREDITATION: C601
CLIENT CONTACT:	Thom Davis	
CLIENT PROJECT:	Lopez Village Market (LVM)	

LABORATORY BLANK RESULTS

MB-082411W - Batch 2049 - Water by EPA-8270 SIM

Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	08/26/2011	LAP
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MB-082311W - Batch 2040 - Water by EPA-6020

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Lead (Dissolved)	EPA-6020	U	0.62	1	UG/L	08/24/2011	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 8/31/2011
 228 E. Champion St., Suite 101 ALS SDG#: 1108089
 Bellingham, WA 98225 WDOE ACCREDITATION: C601

CLIENT CONTACT: Thom Davis
 CLIENT PROJECT: Lopez Village Market (LVM)

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2027 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	75.8			08/18/2011	DLC
TPH-Volatile Range - BSD	NWTPH-GX	76.0	0		08/18/2011	DLC

ALS Test Batch ID: 2027 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	97.7			08/18/2011	DLC
Benzene - BSD	EPA-8021	101	3		08/18/2011	DLC
Toluene - BS	EPA-8021	93.9			08/18/2011	DLC
Toluene - BSD	EPA-8021	96.5	3		08/18/2011	DLC
Ethylbenzene - BS	EPA-8021	90.4			08/18/2011	DLC
Ethylbenzene - BSD	EPA-8021	93.0	3		08/18/2011	DLC
Xylenes - BS	EPA-8021	91.5			08/18/2011	DLC
Xylenes - BSD	EPA-8021	94.2	3		08/18/2011	DLC

ALS Test Batch ID: 2031 - Water by EPA-8260 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260 SIM	119			08/19/2011	GAP
1,1-Dichloroethene - BSD	EPA-8260 SIM	114	4		08/19/2011	GAP

ALS Test Batch ID: 2030 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	119			08/19/2011	GAP
1,1-Dichloroethene - BSD	EPA-8260	114	4		08/19/2011	GAP
Toluene - BS	EPA-8260	112			08/19/2011	GAP
Toluene - BSD	EPA-8260	116	3		08/19/2011	GAP

ALS Test Batch ID: 2010 - Water by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	105			08/15/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	93.1	12		08/15/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	91.8			08/15/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	93.0	1		08/15/2011	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc. DATE: 8/31/2011
228 E. Champion St., Suite 101 ALS SDG#: 1108089
Bellingham, WA 98225 WDOE ACCREDITATION: C601
CLIENT CONTACT: Thom Davis
CLIENT PROJECT: Lopez Village Market (LVM)

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 2049 - Water by EPA-8270 SIM

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Naphthalene - BS	EPA-8270 SIM	63.4			08/25/2011	LAP
Naphthalene - BSD	EPA-8270 SIM	57.8	9		08/25/2011	LAP
Benzo[G,H,I]Perylene - BS	EPA-8270 SIM	67.2			08/25/2011	LAP
Benzo[G,H,I]Perylene - BSD	EPA-8270 SIM	70.4	5		08/25/2011	LAP

ALS Test Batch ID: 2040 - Water by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Lead (Dissolved) - BS	EPA-6020	96.2			08/24/2011	RAL
Lead (Dissolved) - BSD	EPA-6020	96.0	0		08/24/2011	RAL

APPROVED BY

Laboratory Director



ALS Laboratory Group
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
<http://www.alsenviro.com>

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

1108089

Date 8/19/11 Page 1 of 1

ANALYSIS REQUESTED				OTHER (Specify)												
PROJECT ID:	REPORT TO COMPANY:	PROJECT MANAGER:	ADDRESS:	MTBE by 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 by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pn Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	RECEIVED IN GOOD CONDITION?	
PROJECT ID: Lopez Village Market (LVM)	REPORT TO COMPANY: Whatcom Environmental	PROJECT MANAGER: Thom	ADDRESS: 228 E. Champion #101 Bham, WA 98225	X	X	X	X	X	X	X	X	X	1-Naphthalene 2-Methyl-naphthalene			
PHONE:	PO. NUMBER:	INVOICE TO COMPANY: Galaxy Insurance	ATTENTION: 1/2 Matt Miller @ Antea	X	X	X	X	X	X	X	X	X	Lead (Pb) dissolved			
ADDRESS: Claim#: 192232	SAMPLE I.D.	DATE	TIME	TYPE	LAB#											
1. MW-1		8/18/11	1130	water	1	X	X	X	X	X	X	X				
2. MW-2			1030		2	X	X	X	X	X	X	X				
3. MW-3			900		3	X	X	X	X	X	X	X				
4. MW-4			1230		4	X	X	X	X	X	X	X				
5.																
6.																
7.																
8.																
9.																
10.																

SPECIAL INSTRUCTIONS: Metal Samples Field Filtered into Laboratory bottles preserved w/ HNO₃

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: [Signature] of WES on 8/19/11 @ 845

Received By: Shawn Robins AU 8/19/11 2:05

TURNAROUND REQUESTED in Business Days*
OTHER:

Organic, Metals & Inorganic Analysis
 10 5 3 2 1 SAME DAY

Fuel Hydrocarbon Analysis
 5 3 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges

APPENDIX G

MTCATPH Method B Worksheets

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 03/16/11
 Site Name: Lopez Village Market
 Sample Name: TP-6 8 ft

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
Petroleum EC Fraction		
AL_EC >5-6	1.74	1.25%
AL_EC >6-8	22	15.80%
AL_EC >8-10	2.5	1.80%
AL_EC >10-12	11	7.90%
AL_EC >12-16	2.5	1.80%
AL_EC >16-21	2.5	1.80%
AL_EC >21-34	2.5	1.80%
AR_EC >8-10	21.2	15.23%
AR_EC >10-12	28.32	20.34%
AR_EC >12-16	14.43	10.37%
AR_EC >16-21	2.5	1.80%
AR_EC >21-34	2.414	1.73%
Benzene	5.4	3.88%
Toluene	4.3	3.09%
Ethylbenzene	1.8	1.29%
Total Xylenes	11	7.90%
Naphthalene	0.68	0.49%
1-Methyl Naphthalene	0.47	0.34%
2-Methyl Naphthalene	1.1	0.79%
n-Hexane	0.76	0.55%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.0105	0.01%
Benzo(b)fluoranthene	0.0165	0.01%
Benzo(k)fluoranthene	0.012	0.01%
Benzo(a)pyrene	0.01	0.01%
Chrysene	0.012	0.01%
Dibenz(a,h)anthracene	0.013	0.01%
Indeno(1,2,3-cd)pyrene	0.012	0.01%
Sum	139.2	100.00%

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0075	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

Notes for Data Entry Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Equivalent carbon fractions have been subtracted to avoid double counting.

Non-Detect Data was entered in at 1/2 the laboratory reporting limit and are indicated by italics and shaded cells

Site Specific Total Organic Carbon = 7500 mg/kg
 converted to Fraction Organic Carbon = 0.0075 kg/kg
 (unit mass of organic carbon/unit mass of soil)

Used original sample analytical data for BTEX analyzed via EPA 8021

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 3/16/2011
Site Name: Lopez Village Market
Sample Name: TP-6 8 ft
Measured Soil TPH Concentration, mg/kg: 139,200

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	468	4.57E-07	6.06E-02	Pass
	Method C	17,537	7.94E-08	3.19E-03	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	2	4.95E-04	1.35E+01	Fail
	Target TPH GW Conc. @ 355 ug/L	44	NA	NA	Fail

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	468.14	17,537.06
Most Stringent Criterion	Risk of Benzene= 1E-6	Total Risk=1E-5

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI=1	NO	2.30E+03	7.54E-06	1.00E+00	NO	4.37E+04	2.49E-05	1.00E+00
Total Risk=1E-5	NO	3.05E+03	1.00E-05	1.33E+00	YES	1.75E+04	1.00E-05	4.02E-01
Risk of Benzene= 1E-6	YES	4.68E+02	1.54E-06	2.04E-01	NA			
Risk of cPAHs mixture= 1E-6	NO	8.74E+02	2.87E-06	3.80E-01				
EDB	NA	NA	NA	NA				
EDC	NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	Benzene MCL = 5 ug/L
Protective Ground Water Concentration, ug/L	14.30
Protective Soil Concentration, mg/kg	1.77

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	NO	8.33E+01	3.66E-05	1.00E+00	1.03E+01
Total Risk = 1E-5	NO	2.27E+01	1.00E-05	2.73E-01	2.81E+00
Total Risk = 1E-6	YES	2.27E+00	1.00E-06	2.73E-02	2.81E-01
Risk of cPAHs mixture= 1E-5	NO	8.11E+03	6.59E-03	1.69E+02	100% NAPL
Benzene MCL = 5 ug/L	YES	1.43E+01	6.29E-06	1.72E-01	1.77E+00
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 73000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 355 ug/L	3.55E+02	1.56E-04	4.26E+00	4.38E+01

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 03/16/11
 Site Name: Lopez Village Market
 Sample Name: TP-7 8 ft

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
Petroleum EC Fraction		
AL_EC >5-6	18.3	4.66%
AL_EC >6-8	72	18.32%
AL_EC >8-10	10	2.54%
AL_EC >10-12	44	11.19%
AL_EC >12-16	0.25	0.06%
AL_EC >16-21	0.25	0.06%
AL_EC >21-34	0.25	0.06%
AR_EC >8-10	65.9	16.77%
AR_EC >10-12	85.43	21.74%
AR_EC >12-16	47.63	12.12%
AR_EC >16-21	0.25	0.06%
AR_EC >21-34	0.155	0.04%
Benzene	5.3	1.35%
Toluene	1.5	0.38%
Ethylbenzene	5.1	1.30%
Total Xylenes	29	7.38%
Naphthalene	0.57	0.15%
1-Methyl Naphthalene	0.41	0.10%
2-Methyl Naphthalene	0.96	0.24%
n-Hexane	5.7	1.45%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.0115	0.00%
Benzo(b)fluoranthene	0.0185	0.00%
Benzo(k)fluoranthene	0.0135	0.00%
Benzo(a)pyrene	0.01	0.00%
Chrysene	0.0135	0.00%
Dibenz(a,h)anthracene	0.0145	0.00%
Indeno(1,2,3-cd)pyrene	0.0135	0.00%
Sum	393.05	100.00%

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0075	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

Notes for Data Entry

Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Equivalent carbon fractions have been subtracted to avoid double counting.

Non-Detect Data was entered in at 1/2 the laboratory reporting limit and are indicated by *italic type*

Site Specific Total Organic Carbon = 7,500 mg/kg
 -converted to Fraction Organic Carbon = 0.0075 kg/kg

Used original sample analytical data for BTEX analyzed via EPA 8021

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 3/16/2011
Site Name: Lopez Village Market
Sample Name: TP-7 8 ft
Measured Soil TPH Concentration, mg/kg: 393.050

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	1,347	4.59E-07	1.34E-01	Pass
	Method C	48,844	8.05E-08	7.17E-03	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	5	4.57E-04	1.35E+01	Fail
	Target TPH GW Conc. @ 355 ug/L	66	NA	NA	Fail

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through -7494).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	1,346.81	48,844.43
Most Stringent Criterion	Risk of Benzene= 1E-6	Total Risk=1E-5

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI =1	NO	2.94E+03	3.43E-06	1.00E+00	NO	5.48E+04	1.12E-05	1.00E+00
Total Risk=1E-5	NO	8.57E+03	1.00E-05	2.92E+00	YES	4.88E+04	1.00E-05	8.91E-01
Risk of Benzene= 1E-6	YES	1.35E+03	1.57E-06	4.58E-01	NA			
Risk of cPAHs mixture= 1E-6	NO	2.36E+03	2.75E-06	8.02E-01				
EDB	NA	NA	NA	NA				
EDC	NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	Benzene MCL = 5 ug/L
Protective Ground Water Concentration, ug/L	27.32
Protective Soil Concentration, mg/kg	5.08

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	NO	1.43E+02	3.29E-05	1.00E+00	2.66E+01
Total Risk = 1E-5	NO	4.35E+01	1.00E-05	3.04E-01	8.08E+00
Total Risk = 1E-6	YES	4.35E+00	1.00E-06	3.04E-02	8.08E-01
Risk of cPAHs mixture= 1E-5	NO	3.73E+03	2.21E-03	5.82E+01	100% NAPL
Benzene MCL = 5 ug/L	YES	2.73E+01	6.29E-06	1.91E-01	5.08E+00
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 71000 mg/kg TPH.

3.2. Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 355 ug/L	3.55E+02	8.17E-05	2.48E+00	6.60E+01

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 02/18/11

Site Name: Lopez Village Market

Sample Name: TP-13 8ft

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc	Composition
	dry basis mg/kg	Ratio %
Petroleum EC Fraction		
AL_EC >5-6	8.4	2.29%
AL_EC >6-8	41	11.18%
AL_EC >8-10	7	1.91%
AL_EC >10-12	40	10.90%
AL_EC >12-16	2.5	0.68%
AL_EC >16-21	2.5	0.68%
AL_EC >21-34	2.5	0.68%
AR_EC >8-10	63.2	17.23%
AR_EC >10-12	109.28	29.79%
AR_EC >12-16	67.02	18.27%
AR_EC >16-21	2.5	0.68%
AR_EC >21-34	2.414	0.66%
Benzene	0.26	0.07%
Toluene	0.1	0.03%
Ethylbenzene	3.8	1.04%
Total Xylenes	9	2.45%
Naphthalene	0.72	0.20%
1-Methyl Naphthalene	0.58	0.16%
2-Methyl Naphthalene	1.4	0.38%
n-Hexane	2.6	0.71%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0	0.00%
1,2 Dichloroethane (EDC)	0	0.00%
Benzo(a)anthracene	0.0105	0.00%
Benzo(b)fluoranthene	0.0165	0.00%
Benzo(k)fluoranthene	0.012	0.00%
Benzo(a)pyrene	0.01	0.00%
Chrysene	0.012	0.00%
Dibenz(a,h)anthracene	0.013	0.00%
Indeno(1,2,3-cd)pyrene	0.012	0.00%
Sum	366.86	100.00%

Notes for Data Entry

Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Equivalent carbon fractions have been subtracted to avoid double counting.

Non-Detect Data was entered in at 1/2 the laboratory reporting limit and are indicated by *italics*

Site Specific Total Organic Carbon = 7500 mg/kg
-converted to Fraction Organic Carbon = 0.0075

Used original sample analytical data for BTEX analyzed via EPA 8021

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0075	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 2/18/2011
Site Name: Lopez Village Market
Sample Name: TP-13 8ft
Measured Soil TPH Concentration, mg/kg: 366.860

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	2,302	1.74E-07	1.40E-01	Pass
	Method C	45,778	4.15E-08	8.01E-03	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	97	2.27E-05	2.76E+00	Fail
	Target TPH GW Conc. @ 355 ug/L	116	NA	NA	Fail

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	2,302.24	45,777.93
Most Stringent Criterion	Risk of cPAHs mixture= 1E-6	HI =1

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI =1	NO	2.62E+03	1.24E-06	1.00E+00	YES	4.58E+04	5.18E-06	9.99E-01
Total Risk=1E-5	NO	2.11E+04	1.00E-05	8.07E+00	NO	8.84E+04	1.00E-05	1.93E+00
Risk of Benzene= 1E-6	NO	2.56E+04	1.21E-05	9.79E+00	NA			
Risk of cPAHs mixture= 1E-6	YES	2.30E+03	1.09E-06	8.79E-01				
EDB	NA	NA	NA	NA				
EDC	NA	NA	NA	NA				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

	Benzene MCL = 5 ug/L
Most Stringent Criterion	
Protective Ground Water Concentration, ug/L	294.92
Protective Soil Concentration, mg/kg	96.64

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	NO	3.43E+02	7.32E-06	1.00E+00	1.13E+02
Total Risk = 1E-5	NO	4.68E+02	1.00E-05	1.36E+00	1.54E+02
Total Risk = 1E-6	YES	4.69E+01	1.00E-06	1.37E-01	1.54E+01
Risk of cPAHs mixture= 1E-5	NO	1.60E+03	1.26E-04	6.70E+00	100% NAPL
Benzene MCL = 5 ug/L	YES	2.95E+02	6.29E-06	8.59E-01	9.66E+01
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 73000 mg/kg TPH.

3.2. Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 355 ug/L	3.55E+02	7.57E-06	1.03E+00	1.16E+02

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 06/09/11

Site Name: Lopez Village Market

Sample Name: B-1 9ft

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
Petroleum EC Fraction		
AL_EC >5-6	40	2.83%
AL_EC >6-8	240	16.98%
AL_EC >8-10	2.5	0.18%
AL_EC >10-12	130	9.20%
AL_EC >12-16	12	0.85%
AL_EC >16-21	2.5	0.18%
AL_EC >21-34	2.5	0.18%
AR_EC >8-10	293	20.73%
AR_EC >10-12	308.7	21.84%
AR_EC >12-16	155.1	10.97%
AR_EC >16-21	2.5	0.18%
AR_EC >21-34	2.43	0.17%
Benzene	19	1.34%
Toluene	5.9	0.42%
Ethylbenzene	27	1.91%
Total Xylenes	150	10.61%
Naphthalene	1.3	0.09%
1-Methyl Naphthalene	1.5	0.11%
2-Methyl Naphthalene	3.4	0.24%
n-Hexane	14	0.99%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0.25	0.02%
1,2 Dichloroethane (EDC)	0.0025	0.00%
Benzo(a)anthracene	0.01	0.00%
Benzo(b)fluoranthene	0.01	0.00%
Benzo(k)fluoranthene	0.01	0.00%
Benzo(a)pyrene	0.01	0.00%
Chrysene	0.01	0.00%
Dibenz(a,h)anthracene	0.01	0.00%
Indeno(1,2,3-cd)pyrene	0.01	0.00%
Sum	1413.6525	100.00%

Notes for Data Entry

Set Default Hydrogeology

Clear All Soil Concentration Data Entry Cells

Restore All Soil Concentration Data cleared previously

REMARK:

Equivalent carbon fractions have been subtracted to avoid double counting.

Non-Detect Data was entered in at 1/2 the laboratory reporting limit and are indicated by *italics text*

Site Specific Total Organic Carbon = 7500 mg/kg
converted to Fraction Organic Carbon = 0.0075 kg/kg
(unit mass of organic carbon/unit mass of soil)

Used original sample analytical data for BTEX analyzed via EPA 8021

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0075	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: ug/L

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 6/9/2011

Site Name: Lopez Village Market

Sample Name: B-1 9ff

Measured Soil TPH Concentration, mg/kg: 1,413.653

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	61	2.42E-05	4.66E-01	Fail
	Method C	3,472	4.07E-06	2.51E-02	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	0	2.18E-02	3.12E+01	Fail
	Target TPH GW Conc. @ 355 ug/L	55	NA	NA	Fail

Warning! Check to determine if a simplified or site-specific Terrestrial Ecological Evaluation may be required (Refer to WAC 173-340-7490 through ~7494).

Warning! Check Residual Saturation (WAC340-747(10)).

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	61.45	3,471.55
Most Stringent Criterion	EDB	Total Risk=1E-5

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI=1	NO	3.03E+03	5.19E-05	1.00E+00	NO	5.63E+04	1.62E-04	1.00E+00
Total Risk=1E-5	NO	5.84E+02	1.00E-05	1.93E-01	YES	3.47E+03	1.00E-05	6.17E-02
Risk of Benzene= 1E-6	NO	1.35E+03	2.31E-05	4.46E-01	NA			
Risk of cPAHs mixture= 1E-6	NO	9.71E+03	1.66E-04	3.20E+00				
EDB	YES	6.15E+01	1.05E-06	2.03E-02				
EDC	NO	5.74E+06	9.82E-02	1.89E+03				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	Total Risk = 1E-5
Protective Ground Water Concentration, ug/L	2.47
Protective Soil Concentration, mg/kg	0.39

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	NO	1.66E+02	6.72E-04	1.00E+00	2.59E+01
Total Risk = 1E-5	YES	2.47E+00	1.00E-05	1.49E-02	3.86E-01
Total Risk = 1E-6	YES	2.47E-01	1.00E-06	1.49E-03	3.86E-02
Risk of cPAHs mixture= 1E-5	NO	4.21E+03	3.87E-02	5.90E+01	100% NAPL
Benzene MCL = 5 ug/L	NO	3.27E+01	1.32E-04	1.97E-01	5.09E+00
MTBE = 20 ug/L	NA	NA	NA	NA	NA

Note: 100% NAPL is 72000 mg/kg TPH.

3.2 Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 355 ug/L	3.55E+02	1.43E-03	2.14E+00	5.54E+01

A1 Soil Cleanup Levels: Worksheet for Soil Data Entry: Refer to WAC 173-340-720, 740,745, 747, 750

1. Enter Site Information

Date: 06/09/11
 Site Name: Lopez Village Market
 Sample Name: B-3 9ft

2. Enter Soil Concentration Measured

Chemical of Concern or Equivalent Carbon Group	Measured Soil Conc dry basis mg/kg	Composition Ratio %
Petroleum EC Fraction		
AL_EC >5-6	2.13	2.62%
AL_EC >6-8	9.5	11.70%
AL_EC >8-10	2.5	3.08%
AL_EC >10-12	6	7.39%
AL_EC >12-16	2.5	3.08%
AL_EC >16-21	2.5	3.08%
AL_EC >21-34	2.5	3.08%
AR_EC >8-10	14.9	18.35%
AR_EC >10-12	15.62	19.24%
AR_EC >12-16	7.2	8.87%
AR_EC >16-21	2.5	3.08%
AR_EC >21-34	1.8	2.22%
Benzene	1.2	1.48%
Toluene	0.16	0.20%
Ethylbenzene	1.5	1.85%
Total Xylenes	6.6	8.13%
Naphthalene	0.38	0.47%
1-Methyl Naphthalene	0.16	0.20%
2-Methyl Naphthalene	0.44	0.54%
n-Hexane	0.37	0.46%
MTBE	0	0.00%
Ethylene Dibromide (EDB)	0.027	0.03%
1,2 Dichloroethane (EDC)	0.005	0.01%
Benzo(a)anthracene	0.1	0.12%
Benzo(b)fluoranthene	0.1	0.12%
Benzo(k)fluoranthene	0.1	0.12%
Benzo(a)pyrene	0.1	0.12%
Chrysene	0.1	0.12%
Dibenz(a,h)anthracene	0.1	0.12%
Indeno(1,2,3-cd)pyrene	0.1	0.12%
Sum	81.192	100.00%

Notes for Data Entry Set Default Hydrogeology
 Clear All Soil Concentration Data Entry Cells
 Restore All Soil Concentration Data cleared previously

REMARK:
 Equivalent carbon fractions have been subtracted to avoid double counting.
 Non-Detect Data was entered in at 1/2 the laboratory reporting limit and are indicated by *italic type*
 Site Specific Total Organic Carbon = 7,500 mg/kg
 -converted to Fraction Organic Carbon = 0.0075 kg/kg
 Used original sample analytical data for BTEX analyzed via EPA 8021

3. Enter Site-Specific Hydrogeological Data

Total soil porosity:	0.43	Unitless
Volumetric water content:	0.3	Unitless
Volumetric air content:	0.13	Unitless
Soil bulk density measured:	1.5	kg/L
Fraction Organic Carbon:	0.0075	Unitless
Dilution Factor:	20	Unitless

4. Target TPH Ground Water Concentration (if adjusted)

If you adjusted the target TPH ground water concentration, enter adjusted value here: 355 ug/L

A2 Soil Cleanup Levels: Calculation and Summary of Results. Refer to WAC 173-340-720, 740, 745, 747, 750

Site Information

Date: 6/9/2011

Site Name: Lopez Village Market

Sample Name: B-3 9ft

Measured Soil TPH Concentration, mg/kg: 81.192

1. Summary of Calculation Results

Exposure Pathway	Method/Goal	Protective Soil TPH Conc, mg/kg	With Measured Soil Conc		Does Measured Soil Conc Pass or Fail?
			RISK @	HI @	
Protection of Soil Direct Contact: Human Health	Method B	33	4.01E-06	2.93E-02	Fail
	Method C	1,026	7.91E-07	1.65E-03	Pass
Protection of Method B Ground Water Quality (Leaching)	Potable GW: Human Health Protection	0	3.87E-03	3.33E+00	Fail
	Target TPH GW Conc. @ 355 ug/L	64	NA	NA	Fail

2. Results for Protection of Soil Direct Contact Pathway: Human Health

	Method B: Unrestricted Land Use	Method C: Industrial Land Use
Protective Soil Concentration, TPH mg/kg	32.68	1,026.02
Most Stringent Criterion	EDB	Total Risk=1E-5

Soil Criteria	Protective Soil Concentration @Method B				Protective Soil Concentration @Method C			
	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @	Most Stringent?	TPH Conc, mg/kg	RISK @	HI @
HI=1	NO	2.77E+03	1.37E-04	1.00E+00	NO	4.91E+04	4.79E-04	1.00E+00
Total Risk=1E-5	NO	2.03E+02	1.00E-05	7.31E-02	YES	1.03E+03	1.00E-05	2.09E-02
Risk of Benzene= 1E-6	NO	1.23E+03	6.06E-05	4.43E-01	NA			
Risk of cPAHs mixture= 1E-6	NO	5.57E+01	2.75E-06	2.01E-02				
EDB	YES	3.27E+01	1.61E-06	1.18E-02				
EDC	NO	1.65E+05	8.14E-03	5.94E+01				

3. Results for Protection of Ground Water Quality (Leaching Pathway)

3.1. Protection of Potable Ground Water Quality (Method B): Human Health Protection

Most Stringent Criterion	Total Risk = 1E-5
Protective Ground Water Concentration, ug/L	1.16
Protective Soil Concentration, mg/kg	0.21

Ground Water Criteria	Protective Potable Ground Water Concentration @Method B				Protective Soil Conc, mg/kg
	Most Stringent?	TPH Conc, ug/L	RISK @	HI @	
HI=1	NO	1.35E+02	1.16E-03	1.00E+00	2.44E+01
Total Risk = 1E-5	YES	1.16E+00	1.00E-05	8.59E-03	2.09E-01
Total Risk = 1E-6	YES	1.16E-01	1.00E-06	8.59E-04	2.09E-02
Risk of cPAHs mixture= 1E-5	NO	4.32E+03	7.72E-02	6.99E+01	100% NAPL
Benzene MCL = 5 ug/L	NO	2.57E+01	2.21E-04	1.90E-01	4.63E+00
MTBE = 20 ug/L	NA	NA	NA	NA	NA

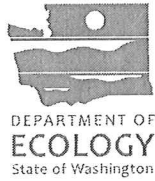
Note: 100% NAPL is 73000 mg/kg TPH.

3.2. Protection of Ground Water Quality for TPH Ground Water Concentration previously adjusted and entered

Ground Water Criteria	Protective Ground Water Concentration			Protective Soil Conc, mg/kg
	TPH Conc, ug/L	Risk @	HI @	
Target TPH GW Conc = 355 ug/L	3.55E+02	3.06E-03	2.63E+00	6.42E+01

APPENDIX H

Terrestrial Ecological Evaluation Form



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation. You still need to submit your evaluation as part of your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to www.ecy.wa.gov/programs/tcp/policies/terrestrial/TEEHome.htm.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Lopez Village Market

Facility/Site Address: 214 Lopez Road

Facility/Site No: 87787992

VCP Project No.: VCP# NW2372

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: Thomas A Davis

Title: Project Manager

Organization: Whatcom Environmental Services, Inc.

Mailing address: 228 East Champion Street, Suite #101

City: Bellingham

State: WA

Zip code: 98225

Phone: (360) 752-9571

Fax: (360) 752-9573

E-mail: tdavis@whatcomenvironmental.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer Question 2.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to Step 3B of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to Step 4 of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,* at least 15 feet below the surface.
- All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

[±] "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

[#] "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4 of this form.**

Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- Yes *If you answered "YES," then answer **Question 2** below.*
- No *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- No issues were identified during the problem formulation step.
 - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. *If so, please specify:*

4. What was the result of those evaluations?

- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

- Yes *If so, please identify the Ecology staff who approved those steps:*
- No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: Sara Nied 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: Mark Dunbar 15 W. Yakima Ave., Suite 200 Yakima, WA 98902
Southwest Region: Attn: Scott Rose P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: Patti Carter N. 4601 Monroe Spokane WA 99205-1295

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.



Contiguous Undeveloped Land
500 Foot Buffer
Subject Property

All data are approximate and should be used for relative location reference only.

Prepared for:
Lopez Village Market

Prepared by:
nwhatcom ENVIRONMENTAL

Contiguous Undeveloped Land w/in 500 feet of Subject Property
Lopez Village Market
11/10/10
Figure TEE1

