



soil | water | air
compliance consulting

228 East Champion Street, Suite 101
Bellingham, WA 98225
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www.whatcomenvironmental.com

Rec'd 1-3-11
by e-mail

45#5617

November 8, 2010

Mrs. Diana O'Hara
Cascade Laundry and Cleaners, Inc.
193 East Laurel Road
Bellingham, WA 98226

RE: Underground Storage Tank Site Assessment at Closure - Cascade Laundry Facility, 205 Prospect Street, Bellingham, Washington (FSID# 21786898)

Mrs. O'Hara:

Whatcom Environmental Services Inc. has completed a Site Assessment of an Underground Storage Tank (UST) closure conducted at 205 Prospect Street in Bellingham, Washington. The property owner is Cascade Laundry & Cleaners. Whatcom Environmental conducted the UST Site Assessment at the time two abandoned USTs (one 3,200 gallon Bunker C tank and one 300 gallon tetrachloroethylene [PERC] tank) were closed and removed from the ground. Soil samples were collected from native soils on the sidewalls and the floor of the two tank-pit excavations in accordance with Washington State Department of Ecology (Ecology) UST Site Assessment guidance standards (Ecology, 2003).

Field screening and soil sample analytical results indicated that a release of petroleum products has occurred to soil at the site from the PERC UST system.

This letter report was prepared by Whatcom Environmental and the information provided in the report supplements the completed UST Site Check/Site Assessment Checklist, included as Appendix A.

Site Setting

The two abandoned USTs were formerly located at the Cascade Laundry building at 205 Prospect Street in Bellingham, Washington. The site is located in an area zoned Commercial by the City of Bellingham. The subject property is located approximately 0.1 miles northeast of the mouth of Whatcom Creek and has a median elevation of 60 feet above mean sea level. The site is relatively level but does slope slightly towards the west. A site location map is provided as Figure 1.

The removed USTs consisted of one 3,200 gallon tank and one 300 gallon tank. The abandoned tanks were assumed to have historically stored Bunker C fuel oil and PERC for dry cleaning based on the history of the subject property and anecdotal evidence provided by the owner. The subject property is listed in the Washington State UST databases and has an associated Facility Site Identification number of 21786898. A map showing the location of the two removed tanks and other pertinent site features is provided as Figure 2.

One additional UST is listed in the UST database entry for the subject property. This "gasoline" UST was reported by the owner to have been decommissioned at some time in the past. The tank location was reported to have been on the west side of the Cascade Laundry facility, near the boiler room entrance.

Soils in the area of the subject property are described in the Soil Survey of Whatcom County Area Washington (USDA, 1992). Soils at the property are described as Urban land with slopes from 0 to 3 percent. Urban land consists of buildings, paved streets and parking lots where identification of soils is impractical.

The property is underlain by Bellingham Glaciomarine drift which consists of moderately 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. Thickness ranges to as much as 90 meters. The unit is consistently firm to very hard, depending on moisture content. The unit is predominantly dry to slightly moist (WSDNR, 2000). The unit acts as an aquitard, impeding vertical migration of contaminants.

The depth to groundwater at the site on the day the tanks were removed is unknown. An online search of the Washington State Well Log Database (<http://apps.ecy.wa.gov/wellog/>) was conducted and one soil boring was discovered.

The boring was drilled to a depth of 27 feet below ground surface (bgs) at the subject property in August of 2007. A temporary stainless steel well screen was used to collect a groundwater sample. The static water level reported on the bore log was 12 feet bgs. No groundwater wells were located on the subject property in the vicinity of the UST pits, therefore no groundwater investigation was undertaken as part of this UST Site Assessment. A copy of the bore log located on the WA State Well Log Database is provided in Appendix B.

Tank Closure

Mr. Thomas Davis of Whatcom Environmental Services observed the removal of the USTs from the property on October 13, 2010. Mr. Davis is a registered underground storage tank site assessor. Western Refinery Services (WRS) provided excavation services and WL Repair of Ferndale, Washington conducted the UST closure services during the UST decommissioning and removal.

The two tanks were located in separate excavations. The bunker tank was overlain by approximately 1 foot of overburden and the PERC tank was overlain by approximately 4 feet of overburden. Both tanks were bedded in what appeared to be native backfill material. A map showing the approximate location of the two USTs is provided as Figure 2.

Tank 1-N (ID# 37818) – Bunker C Fuel Oil

The northern UST, Tank 1-N, was a 3,200 gallon, single-walled, steel tank which measured approximately 6.25 feet in diameter and was approximately 14 feet long. Approximately 7 inches of residual oil were removed from the tank prior to excavation and removal from the ground.

The installation date of the tank is unknown. The tank was reportedly used to store Bunker C fuel oil for the laundry's boiler. The tank was abandoned at some unknown time in the past. The tank vent line had been cut-off to ground level. Product piping was located above the tank, within the tank pit and the tank was situated directly adjacent to the building wall; therefore, no piping samples were collected.

No leak detection or corrosion protection systems were associated with Tank 1-N. The tank steel appeared in poor condition with excessive corrosion and scaling when it was removed from the ground. No holes were observed in the tank exterior.

Tank 1-S (ID# 37641) - PERC

The southern UST, Tank 1-S, was a 300 gallon, single-walled, steel tank which measured approximately 3.17 feet in diameter and was approximately 5 feet long. Western Refinery Services pumped approximately 225 gallons of water (4.25 drums) from the tank prior to excavation and removal. Approximately 6 inches of residual sludge remained in the tank when it was removed from the ground.

The installation date of the tank is unknown. The tank was reportedly used to store tetrachloroethylene [PERC] for the laundry's dry cleaning section. The PERC tank was abandoned at some unknown time in the past. The tank vent line had been cut-off to ground level. Product piping was located above the tank, within the tank pit and the tank was situated directly adjacent to the building wall; therefore, no piping samples were collected.

No leak detection or corrosion protection systems were associated with Tank 1-S. The tank steel appeared in poor condition with excessive corrosion and pitting when it was removed from the ground. No holes were observed in the tank exterior, however, excessive oxidation of the tank steel left a veneer of welded gravel on the tank which was not removed due to fear of compromising the integrity of the tank which still contained some residual sludge.

Site Assessment Soil Sampling

During the UST removal, excavated soil was field screened by conducting sheen tests and by conducting organic vapor analysis using a photoionization detector (PID). Soil samples were collected from the tank-pit excavations after the tanks were removed from the excavations. Any contaminated tank-pit backfill material was placed back in the excavation for removal at a later date.

Six discrete soil samples were collected from the tank-pit excavations as part of this UST Site Assessment; one sample from beneath each tank on the excavation floor and two samples from two sidewalls in each tank-pit. Two composite samples were collected from the clean overburden stockpiles associated with each UST. All soil samples were collected from native soils using EPA Method 5035A. Soil samples were collected using stainless steel sampling tools. Soil was placed in clean sample containers provided by the lab, cooled with ice in a cooler, and shipped to ALS

Laboratory Group in Everett, Washington. ALS is accredited by Ecology. The Site Assessment soil sample locations are shown on Figure 2.

The Bunker C tank pit Site Assessment soil samples were analyzed for diesel range Total Petroleum Hydrocarbons (TPH) using Method NWTPH-Dx; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021; arsenic, cadmium, chromium, and lead using Method EPA 6020; and mercury using Method EPA 7471.

The PERC tank pit Site Assessment soil samples were analyzed for gasoline range TPH using Method NWTPH-Gx; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021; and halogenated volatiles using EPA Method 8260.

Analytical results were compared to the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels for unrestricted land-use.

Site Assessment Soil Sample Descriptions and Analytical Results

Soil samples collected from the two UST excavations consisted generally of brown silty fine sand to silty clay that ranged from loose to firm depending on the moisture content and the depth collected. A complete list of soil sample descriptions, locations, depths of collection, and field screening results is included in Table 1.

Laboratory analytical results indicated that none of the soil samples collected from the clean overburden stockpile, native sidewalls or floor of the Bunker C UST excavation contained concentrations of diesel range TPH, BTEX constituents, or metals at levels exceeding the MTCA Method A cleanup criteria. A summary of laboratory analytical results is provided in Table 2. The original analytical data reports are included in Appendix C.

Laboratory analytical results for samples collected from the PERC UST excavation indicated that soil in the vicinity of Tank 1-S contained concentrations of gasoline range TPH, xylenes, and PERC at concentrations that exceed the MTCA Method A cleanup levels. The PERC tank clean overburden stockpile soil samples did not contain concentrations of contaminants that exceeded the MTCA Method A cleanup levels. The stockpile samples indicate that contaminated soils were successfully segregated from clean soils.

Conclusions

Two abandoned USTs were decommissioned and removed from the ground at the Cascade Laundry facility located at 205 Prospect Street in Bellingham, Washington. The tanks were located in separate tank pits with a 3,200 gallon Bunker C fuel oil UST situated to the north and a 300 gallon PERC UST located to the south. The two tanks were removed from the ground on October 13, 2010.

Whatcom Environmental Services conducted a UST Site Assessment when the tanks were removed from the ground. Whatcom Environmental personnel field screened excavated soil and observed field evidence indicating that a release of petroleum products had occurred from the PERC UST, but not from the Bunker C tank. After the tank-pit backfill material was removed from the excavations and the floors and sidewalls of the excavations were scraped back to the native silty clay, soil samples were collected per UST Site Assessment guidelines. The analytical results from the Site Assessment samples confirmed that a release had occurred from the PERC tank.

No water was encountered in either UST excavation. A bore log from a boring drilled in 2007 indicated a water level 12 feet below the ground surface at the subject property. The deepest soil sample collected as part of the UST site assessment was collected at 9 feet bgs, three feet above the estimated high water mark. Therefore, no groundwater investigation was conducted at the site.

Limitations

No site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this work by Whatcom Environmental is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions. No warranty, express or implied, is given regarding the presence of hidden or unidentified sources of contamination.

Whatcom Environmental Services, Inc. has prepared this report for the exclusive use of Cascade Laundry and Cleaners, Inc., its authorized agents, and regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other sites.

Please use this letter and the attached site location figures, UST Site Check/Site Assessment Checklist, and soil analytical data to document compliance with Underground Storage Tank requirements (WAC 173-360).

Sincerely,

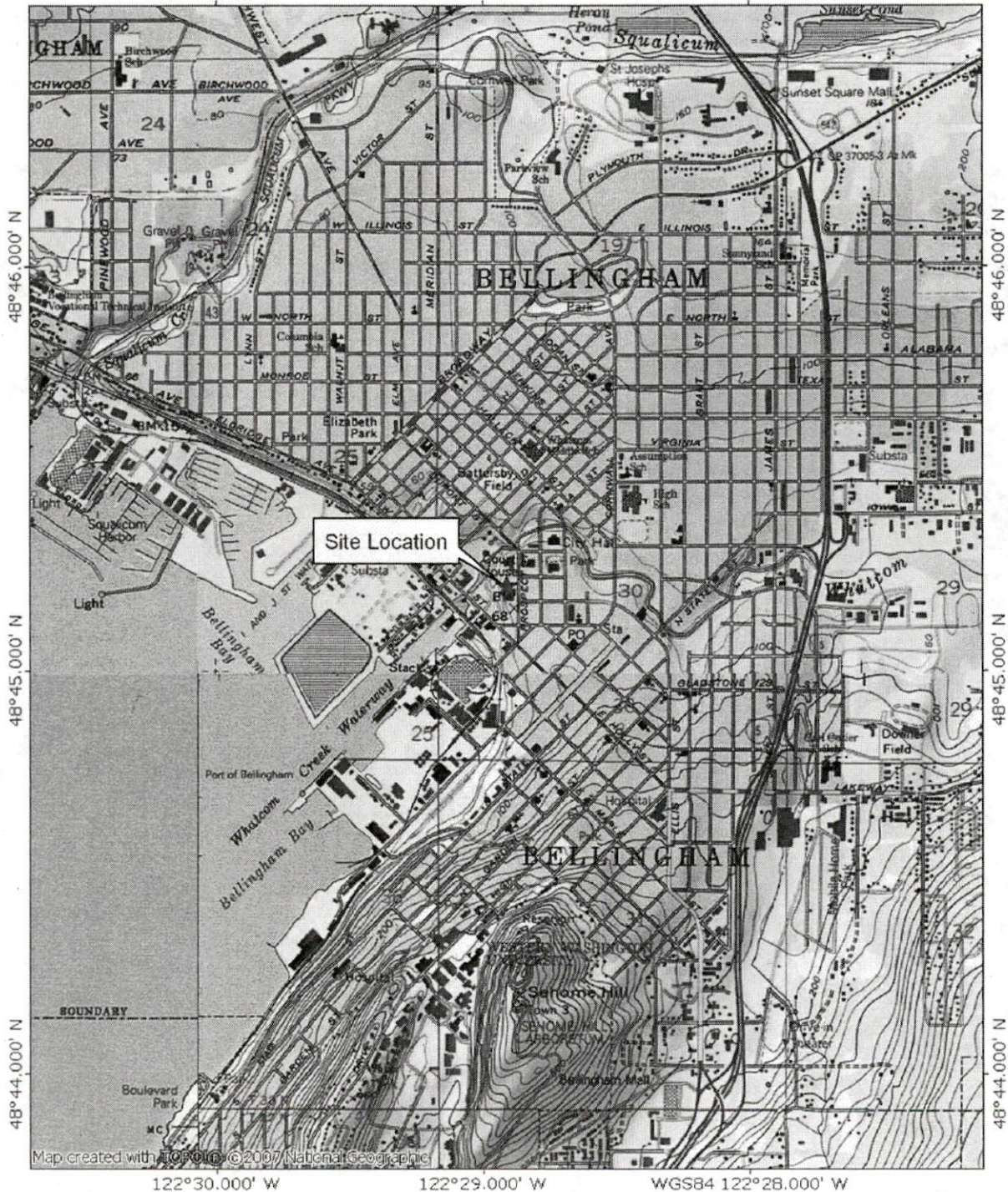
A handwritten signature in black ink, appearing to read 'T. Davis', is written over a horizontal line.

Thomas A. Davis
Project Manager, Whatcom Environmental Services
WA UST Site Assessor #5252393-U7

References

- U.S. Department of Agriculture (USDA). 1992. Soil Survey of Whatcom County Area, Washington. Soil Conservation Service. 481 pp.
- Washington State Department of Ecology. 1998. Underground Storage Tank Statute and Regulations Chapter 173-360 WAC. Publication No. 95-604.
- Washington State Department of Ecology. 2001. Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. Publication No. 94-06. February 12, 2001.
- Washington State Department of Ecology. 2003. Guidance for Site Checks and Site Assessments for Underground Storage Tanks. Publication # 90-52.
- Washington State Department of Natural Resources (WADNR). 2000. Geologic Map of the Bellingham 1:100,000 Quadrangle, Washington. Open File Report 2000-5.

TOPO! map printed on 11/05/10, 48°45.202' N, 122°28.912' W WGS84
 122°30.000' W 122°29.000' W WGS84 122°28.000' W



NATIONAL GEOGRAPHIC

0.0 0.5 1.0 miles
 0.0 0.5 1.0 1.5 km

TN MN
 17°
 11/05/10

Prepared for:

Cascade
 Laundry

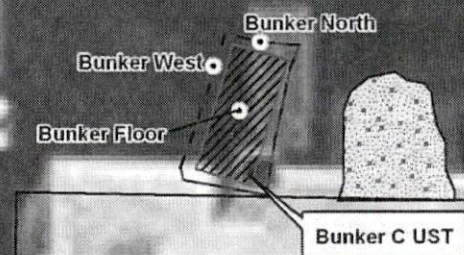
Prepared by:

whatcom
 ENVIRONMENTAL

Site Location Map

Cascade
 Laundry
 11/5/10

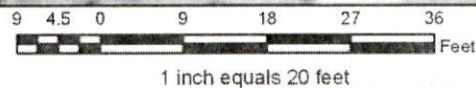
Figure 1



Cascade Laundry Building
205 Prospect Street
Bellingham, WA 98225

- Sample Locations
- Excavations
- ▨ Tank Locations
- ▨ Stockpiles

All data are approximate and should be used
as relative location reference only.
2002 Aerial Photograph (ftp.cob.org)



Prepared for:

Cascade
Laundry

Prepared by:

nwhatcom
ENVIRONMENTAL

UST and Soil Sample
Location Map

Cascade
Laundry
11/5/10

Figure 2

Table 1. Soil Sample Descriptions - Cascade Laundry Site - 205 Prospect St., Bellingham, WA

Sample ID*	Date	Depth (ft)	Location and Description	Sheen Test	PID (ppm)
Bunker West - 5ft	10/13/2010	5.0	Collected from the west sidewall at approximately 1 foot above the bottom of the tank Silty fine sand, brown, loose, slightly moist	Very Slight Sheen	0.0
Bunker North - 5ft	10/13/2010	5.0	Collected from the north sidewall at approximately 1 foot above the bottom of the tank Silty fine sand, brown, loose, slightly moist	Very Slight Sheen	0.0
Bunker Stockpile	10/13/2010	--	Collected as a composite from 3 locations in the excavated soil stockpile associated with the Bunker C tank Fine sandy silt with minor organics, dark brown, loose, slightly moist	Very Slight Sheen	0.0
Bunker Floor - 8ft	10/13/2010	8.0	Collected from the excavation floor at approximately 1 foot below the bottom of the tank Silty clay, brown, firm, dry	No Sheen	0.0
PERC South - 7ft	10/13/2010	7.0	Collected from the south sidewall at approximately 1 foot above the bottom of the tank Silty clay, dark brown, firm, moist	Moderate Sheen	923
PERC West - 7ft	10/13/2010	7.0	Collected from the west sidewall at approximately 1 foot above the bottom of the tank Clayey silt with minor gravel, dark brown to black, plastic, sticky, wet	Moderate Sheen	897
PERC Floor - 9ft	10/13/2010	9.0	Collected from the excavation floor at approximately 1 foot below the bottom of the tank Clayey silt with gravel, dark gray to black, sticky, wet	Heavy Sheen	932
PERC Stockpile	10/13/2010	--	Collected as a composite from 3 locations in the excavated clean overburden soil stockpile associated with the PERC tank Silty fine sand, brown, loose, slightly moist	Slight Sheen	0.0

* - Samples collected using EPA Method 5035A

Table 2. Soil Sample TPH & BTEX Analytical Results - Cascade Laundry Site - 205 Prospect St., Bellingham, WA

Sample ID	Date	NWTPH-Dx Diesel Range mg/kg	NWTPH-Dx Lube-Oil Range mg/kg	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
Bunker West - 5ft	10/13/2010	ND(<25)	ND(<50)	NA	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)
Bunker North - 5ft	10/13/2010	ND(<25)	57	NA	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)
Bunker Stockpile	10/13/2010	ND(<25)	160	NA	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)
Bunker Floor - 8ft	10/13/2010	ND(<25)	ND(<50)	NA	ND(<0.030)	ND(<0.050)	ND(<0.050)	ND(<0.20)
PERC South - 7ft	10/13/2010	NA	NA	NA	NA	NA	NA	NA
PERC West - 7ft	10/13/2010	NA	NA	1,000	ND(<0.03)	ND(<0.05)	2.6	13
PERC Floor - 9ft	10/13/2010	NA	NA	820	ND(<0.03)	ND(<0.05)	2.2	12
PERC Stockpile	10/13/2010	NA	NA	NA	NA	NA	NA	NA
MTCA Method A Cleanup Levels		2,000	2,000	30/100*	0.03	7	6	9

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 analyte

Bold - Sample exceeded the MTCA Method A target cleanup level

* cleanup level depends on BTEX concentration

Table 3. Soil Sample VOC & Metals Analytical Results - Cascade Laundry Site - 205 Prospect St., Bellingham, WA

Sample ID	Date	EPA-8260* Methylene chloride mg/kg	EPA-8260* Tetrachloroethylene mg/kg	EPA-6020 Arsenic mg/kg	EPA-6020 Cadmium mg/kg	EPA-6020 Chromium mg/kg	EPA-7471 Mercury mg/kg	EPA-6020 Lead mg/kg
Bunker West - 5ft	10/13/2010	NA	NA	NA	NA	NA	NA	NA
Bunker North - 5ft	10/13/2010	NA	NA	4.2	ND(<1.3)	40	0.066	24
Bunker Stockpile	10/13/2010	NA	NA	NA	NA	NA	NA	NA
Bunker Floor - 8ft	10/13/2010	NA	NA	NA	NA	NA	NA	NA
PERC South - 7ft	10/13/2010	ND(<0.2)	0.370	NA	NA	NA	NA	NA
PERC West - 7ft	10/13/2010	ND(<0.23)	0.098	NA	NA	NA	NA	NA
PERC Floor - 9ft	10/13/2010	ND(<0.25)	0.091	NA	NA	NA	NA	NA
PERC Stockpile	10/13/2010	ND(<0.02)	ND(<0.01)	NA	NA	NA	NA	NA
MTCA Method A Cleanup Levels		0.02	0.05	20	2	2,000	2	250

* The full list of Volatile Organic Compounds (VOCs) and results is included in Appendix B

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

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

Bold - Sample exceeded the MTCA Method A target cleanup level

APPENDIX A

UST Site Check/Site Assessment Checklist



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY

Site #: _____

Owner #: _____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by IFCI or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 5617 (FSID#: 21786898)

Site/Business Name: Cascade Laundry Corp

Site Address: 205 Prospect St. Telephone: (360) 671-7200

Bellingham WA 98225
City State Zip Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
1-N (ID#: 37818)	3,200 gallons	Bunker C Fuel Oil
1-S (ID#: 37641)	300 gallons	PERC

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination.

_____ Investigate suspected release due to off-site environmental contamination.

_____ Extend temporary closure of UST system for more than 12 months.

_____ UST system undergoing change-in-service.

XXXXX UST system permanently closed with tank removed.

_____ Abandoned tank containing product.

_____ Required by Ecology or delegated agency for UST system closed before 12/22/88.

_____ Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initiated by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on a vicinity map.	☒	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	☒	
3. A summary of UST system data is provided. (see Section 3.1.)	☒	
4. The soils characteristics at the UST site are described. (see Section 5.2)	☒	
5. Is there any apparent groundwater in the tank excavation?		☒
6. A brief description of the surrounding land use is provided. (see Section 3.1)	☒	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	☒	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	☒	
- groundwater samples distinguished from soil samples (if applicable)	☒	
- samples collected from stockpiled excavated soil	☒	
- tank and piping locations and limits of excavation pit	☒	
- adjacent structures and streets	☒	
- approximate locations of any on-site and nearby utilities	☒	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)	☒	
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	☒	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	☒	
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.	☒	

SITE ASSESSOR INFORMATION

Thomas A. Davis

Person registered with Ecology

Whatcom Environmental Services, Inc.

Firm Affiliated with

Business Address: **228 East Champion Street, Suite 101** Telephone: (360) **752-9571**

Street

Bellingham

City

WA

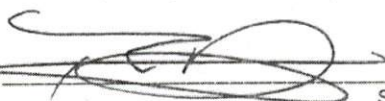
State

98225

Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11/5/10
Date



WA UST Site Assessor #: 5252393-U7

Signature of Person Registered with Ecology

APPENDIX B

WA State Well Log Database
Cascade Laundry 2007 Bore Log

277024

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORTCURRENT Notice of Intent No. E007966

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

- ☒ Construction
☐ Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

Consulting Firm GeoEngineersUnique Ecology Well IDTag No. B1

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

☐ Driller ☐ Engineer ☒ TraineeName (Print Last, First Name) Gogan, ScottDriller/Engineer /Trainee Signature SGDriller or Trainee License No. T2877

If trainee, licensed driller's Signature and License Number:

Uma Harnden 2508

Type of Well ("x" in box)

- ☒ Resource Protection
☐ Geotech Soil Boring

Property Owner Cascade Laundry & CleanersSite Address 205 Prospect StreetCity BellinghamCounty WhatcomLocation NE 1/4-1/4 SW 1/4 Sec 30 Twn 38N R 03EWM ☒ or WWM ☐

Lat/Long (s, t, r

Lat Deg _____ Min _____ Sec _____

still REQUIRED)

Long Deg _____ Min _____ Sec _____

Tax Parcel No. 3803301112490000Cased or Uncased Diameter 2'Static Level 12'Work/Decommission Start Date 8/10/07Work/Decommission Completed Date 8/10/07

Construction Design

Well Data

Formation Description

Drove a retractable
~~stainless steel~~ PVC screen down
 to depth and collected a water
 sample.

Boring Depth: 27'Screen: 17-20'Slot Size: 10/10Type: STAINLESS

Removed all rods and casing from
 boring and backfilled with bentonite.

0-20' SILTY CLAY

DEPT. OF ECOLOGY
 FISCAL BUDGET
 07 SEP 10 1800A

20-26 SAND26-27 HARD CLAY

RECEIVED

SEP 12 2007

DEPARTMENT OF ECOLOGY
WELL DRILLING UNIT

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

277025

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. A129918

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

- ☐ Construction
- ☒ Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

E007966

Consulting Firm GeoEngineers

Unique Ecology Well IDTag No. B1

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

☐ Driller ☐ Engineer ☒ Trainee

Name (Print Last, First Name) Gogan, Scott

Driller/Engineer /Trainee Signature [Signature]

Driller or Trainee License No. T2877

If trainee, licensed driller's Signature and License Number:

[Signature] 2508

Type of Well ("x" in box)

- ☒ Resource Protection
- ☐ Geotech Soil Boring

Property Owner Cascade Laundry & Cleaners

Site Address 205 Prospect Street

City Bellingham County Whatcom

Location NE1/4-1/4 SW1/4 Sec 30 Twn 38N R 03

EWM ☒ or WWM ☐

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

still REQUIRED) Long Deg _____ Min _____ Sec _____

Tax Parcel No. 3803301112490000

Cased or Uncased Diameter 2" Static Level 12'

Work/Decommission Start Date 8/10/07

Work/Decommission Completed Date 8/10/07

Construction Design

Well Data

Formation Description

Drove a retractable stainless steel / PVC screen down to depth and collected a water sample.

Boring Depth: 27'

Screen: 17-20'

Slot Size: 1010

Type: STAINLESS

Removed all rods and casing from boring and backfilled with bentonite.

0-20' SILTY CLAY

20-24' SAND

26-27' HARD CLAY

DEPT OF ECOLOGY
FISCAL YEAR
07 SEP 10 08:14

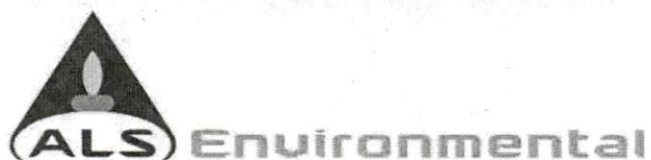
RECEIVED

SEP 12 2007

DEPARTMENT OF ECOLOGY
WELL DRILLING UNIT

APPENDIX C

Original Laboratory Analytical Data



CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 Bunker-West-5ft
ALS SAMPLE #: -01

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/14/2010	DLC
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/14/2010	DLC
TPH-Diesel Range	NWTPH-DX	ND	25	1	MG/KG	10/15/2010	EBS
TPH-Oil Range	NWTPH-DX	ND	50	1	MG/KG	10/15/2010	EBS

ND INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON-LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS.

APPROVED BY:



CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 Bunker-North-5ft
ALS SAMPLE #: -02

DATA RESULTS

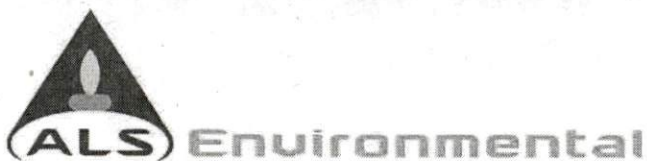
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/14/2010	DLC
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/14/2010	DLC
TPH-Diesel Range	NWTPH-DX	ND	25	1	MG/KG	10/15/2010	EBS
TPH-Oil Range	NWTPH-DX	57	50	1	MG/KG	10/15/2010	EBS
Mercury	EPA-7471	0.066	0.020	1	MG/KG	10/19/2010	RAL
Arsenic	EPA-6020	4.2	0.75	5	MG/KG	10/19/2010	RAL
Cadmium	EPA-6020	ND	1.3	5	MG/KG	10/19/2010	RAL
Chromium	EPA-6020	40	0.74	5	MG/KG	10/19/2010	RAL
Lead	EPA-6020	24	0.73	5	MG/KG	10/19/2010	RAL

Chromatogram indicates that it is likely the sample contains lube oil.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

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APPROVED BY:



CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 Bunker-Stockpile
ALS SAMPLE #: -03

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/14/2010	DLC
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/14/2010	DLC
TPH-Diesel Range	NWTPH-DX	ND	25	1	MG/KG	10/15/2010	EBS
TPH-Oil Range	NWTPH-DX	160	50	1	MG/KG	10/15/2010	EBS

Chromatogram indicates that it is likely the sample contains lube oil.

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APPROVED BY:



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Bellingham, WA 98225

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 Bunker-Floor-8ft
ALS SAMPLE #: -04

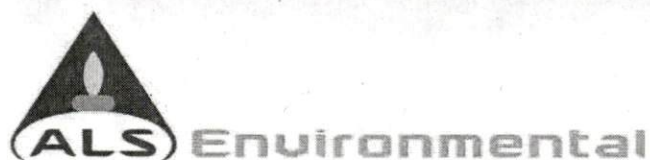
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Benzene	EPA-8021	ND	0.030	1	MG/KG	10/14/2010	DLC
Toluene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Ethylbenzene	EPA-8021	ND	0.050	1	MG/KG	10/14/2010	DLC
Xylenes	EPA-8021	ND	0.20	1	MG/KG	10/14/2010	DLC
TPH-Diesel Range	NWTPH-DX	ND	25	1	MG/KG	10/15/2010	EBS
TPH-Oil Range	NWTPH-DX	ND	50	1	MG/KG	10/15/2010	EBS

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

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DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-South-7ft
ALS SAMPLE #: -05

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND	160	1	UG/KG	10/21/2010	GAP
Chloromethane	EPA-8260	ND	94	1	UG/KG	10/21/2010	GAP
Vinyl Chloride	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Bromomethane	EPA-8260	ND	78	1	UG/KG	10/21/2010	GAP
Chloroethane	EPA-8260	ND	94	1	UG/KG	10/21/2010	GAP
Trichlorofluoromethane	EPA-8260	ND	83	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Methylene chloride	EPA-8260	ND	200	1	UG/KG	10/21/2010	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND	93	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethane	EPA-8260	ND	95	1	UG/KG	10/21/2010	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
2,2-Dichloropropane	EPA-8260	ND	97	1	UG/KG	10/21/2010	GAP
Bromochloromethane	EPA-8260	ND	170	1	UG/KG	10/21/2010	GAP
Chloroform	EPA-8260	ND	97	1	UG/KG	10/21/2010	GAP
1,1,1-Trichloroethane	EPA-8260	ND	87	1	UG/KG	10/21/2010	GAP
1,1-Dichloropropene	EPA-8260	ND	87	1	UG/KG	10/21/2010	GAP
Carbon Tetrachloride	EPA-8260	ND	99	1	UG/KG	10/21/2010	GAP
1,2-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dichloropropane	EPA-8260	ND	88	1	UG/KG	10/21/2010	GAP
Dibromomethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Bromodichloromethane	EPA-8260	ND	98	1	UG/KG	10/21/2010	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
1,1,2-Trichloroethane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
1,3-Dichloropropane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Tetrachloroethylene	EPA-8260	370	10	1	UG/KG	10/21/2010	GAP
Dibromochloromethane	EPA-8260	ND	150	1	UG/KG	10/21/2010	GAP
1,2-Dibromoethane	EPA-8260	ND	5.0	1	UG/KG	10/21/2010	GAP
Chlorobenzene	EPA-8260	220	100	1	UG/KG	10/21/2010	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND	81	1	UG/KG	10/21/2010	GAP
Bromoform	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,2,3-Trichloropropane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP

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CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-South-7ft
ALS SAMPLE #: -05

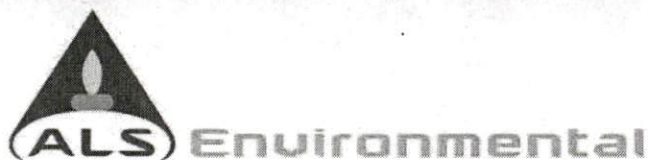
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Bromobenzene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
2-Chlorotoluene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
4-Chlorotoluene	EPA-8260	ND	160	1	UG/KG	10/21/2010	GAP
1,3-Dichlorobenzene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,4-Dichlorobenzene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
1,2-Dichlorobenzene	EPA-8260	180	110	1	UG/KG	10/21/2010	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND	96	1	UG/KG	10/21/2010	GAP
Hexachlorobutadiene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP

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DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-West-7ft
ALS SAMPLE #: -06

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	1,000	30	10	MG/KG	10/15/2010	DLC
Benzene	EPA-8021	ND	0.30	10	MG/KG	10/15/2010	DLC
Toluene	EPA-8021	ND	0.50	10	MG/KG	10/15/2010	DLC
Ethylbenzene	EPA-8021	2.6	0.50	10	MG/KG	10/15/2010	DLC
Xylenes	EPA-8021	13	2.0	10	MG/KG	10/15/2010	DLC
Dichlorodifluoromethane	EPA-8260	ND	180	1	UG/KG	10/21/2010	GAP
Chloromethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Vinyl Chloride	EPA-8260	1,200	10	1	UG/KG	10/21/2010	GAP
Bromomethane	EPA-8260	ND	92	1	UG/KG	10/21/2010	GAP
Chloroethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Trichlorofluoromethane	EPA-8260	ND	97	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Methylene chloride	EPA-8260	ND	230	1	UG/KG	10/21/2010	GAP
Trans-1,2-Dichloroethene	EPA-8260	890	110	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Cis-1,2-Dichloroethene	EPA-8260	8,200	1,200	10	UG/KG	10/21/2010	GAP
2,2-Dichloropropane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Bromochloromethane	EPA-8260	ND	200	1	UG/KG	10/21/2010	GAP
Chloroform	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,1,1-Trichloroethane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
1,1-Dichloropropene	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Carbon Tetrachloride	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
1,2-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trichloroethene	EPA-8260	150	10	1	UG/KG	10/21/2010	GAP
1,2-Dichloropropane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Dibromomethane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
Bromodichloromethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
1,1,2-Trichloroethane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
1,3-Dichloropropane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Tetrachloroethylene	EPA-8260	98	10	1	UG/KG	10/21/2010	GAP
Dibromochloromethane	EPA-8260	ND	180	1	UG/KG	10/21/2010	GAP
1,2-Dibromoethane	EPA-8260	9.9	5.0	1	UG/KG	10/21/2010	GAP

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CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-West-7ft
ALS SAMPLE #: -06

DATA RESULTS

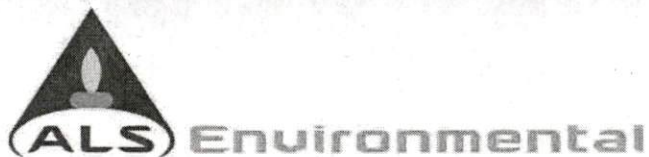
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	410	120	1	UG/KG	10/21/2010	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND	95	1	UG/KG	10/21/2010	GAP
Bromoform	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,2,3-Trichloropropane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
Bromobenzene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
2-Chlorotoluene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
4-Chlorotoluene	EPA-8260	ND	180	1	UG/KG	10/21/2010	GAP
1,3-Dichlorobenzene	EPA-8260	230	130	1	UG/KG	10/21/2010	GAP
1,4-Dichlorobenzene	EPA-8260	440	120	1	UG/KG	10/21/2010	GAP
1,2-Dichlorobenzene	EPA-8260	2,800	130	1	UG/KG	10/21/2010	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND	150	1	UG/KG	10/21/2010	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Hexachlorobutadiene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP

Chromatogram indicates that it is likely the sample contains mineral spirits.

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

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ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-Floor-9ft
ALS SAMPLE #: -07

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	820	30	10	MG/KG	10/16/2010	DLC
Benzene	EPA-8021	ND	0.33	10	MG/KG	10/16/2010	DLC
Toluene	EPA-8021	ND	0.55	10	MG/KG	10/16/2010	DLC
Ethylbenzene	EPA-8021	2.2	0.55	10	MG/KG	10/16/2010	DLC
Xylenes	EPA-8021	12	2.2	10	MG/KG	10/16/2010	DLC
Dichlorodifluoromethane	EPA-8260	ND	200	1	UG/KG	10/21/2010	GAP
Chloromethane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Vinyl Chloride	EPA-8260	1,200	10	1	UG/KG	10/21/2010	GAP
Bromomethane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Chloroethane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Trichlorofluoromethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Methylene chloride	EPA-8260	ND	250	1	UG/KG	10/21/2010	GAP
Trans-1,2-Dichloroethene	EPA-8260	840	120	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Cis-1,2-Dichloroethene	EPA-8260	1,800	130	1	UG/KG	10/21/2010	GAP
2,2-Dichloropropane	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Bromochloromethane	EPA-8260	ND	210	1	UG/KG	10/21/2010	GAP
Chloroform	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
1,1,1-Trichloroethane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
1,1-Dichloropropene	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Carbon Tetrachloride	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,2-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trichloroethene	EPA-8260	650	10	1	UG/KG	10/21/2010	GAP
1,2-Dichloropropane	EPA-8260	ND	110	1	UG/KG	10/21/2010	GAP
Dibromomethane	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
Bromodichloromethane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,1,2-Trichloroethane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
1,3-Dichloropropane	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP
Tetrachloroethylene	EPA-8260	91	10	1	UG/KG	10/21/2010	GAP
Dibromochloromethane	EPA-8260	ND	190	1	UG/KG	10/21/2010	GAP
1,2-Dibromoethane	EPA-8260	ND	5.0	1	UG/KG	10/21/2010	GAP

Page 9

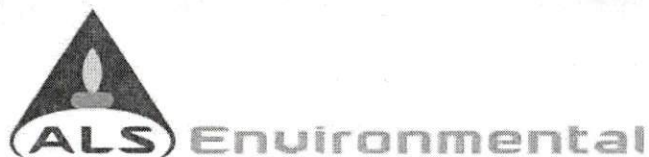
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CERTIFICATE OF ANALYSIS

CLIENT: Whatcom Environmental Svcs., Inc.
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Bellingham, WA 98225

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-Floor-9ft
ALS SAMPLE #: -07

DATA RESULTS

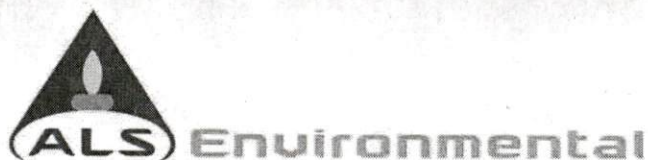
ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Chlorobenzene	EPA-8260	500	130	1	UG/KG	10/21/2010	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND	100	1	UG/KG	10/21/2010	GAP
Bromoform	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
1,2,3-Trichloropropane	EPA-8260	ND	150	1	UG/KG	10/21/2010	GAP
Bromobenzene	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
2-Chlorotoluene	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
4-Chlorotoluene	EPA-8260	ND	200	1	UG/KG	10/21/2010	GAP
1,3-Dichlorobenzene	EPA-8260	ND	140	1	UG/KG	10/21/2010	GAP
1,4-Dichlorobenzene	EPA-8260	210	130	1	UG/KG	10/21/2010	GAP
1,2-Dichlorobenzene	EPA-8260	1,000	140	1	UG/KG	10/21/2010	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND	170	1	UG/KG	10/21/2010	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND	120	1	UG/KG	10/21/2010	GAP
Hexachlorobutadiene	EPA-8260	ND	150	1	UG/KG	10/21/2010	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND	130	1	UG/KG	10/21/2010	GAP

* Chromatogram indicates that is likely that sample contains mineral spirits. TPH- Benzene, Toluene reporting limit raised due to low percent solids.

**ND* INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON-LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS.

APPROVED BY:



CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-Stockpile
ALS SAMPLE #: -08

DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Chloromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Vinyl Chloride	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Bromomethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Chloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trichlorofluoromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Methylene chloride	EPA-8260	ND	20	1	UG/KG	10/21/2010	GAP
Trans-1,2-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Cis-1,2-Dichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
2,2-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Bromochloromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Chloroform	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1,1-Trichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Carbon Tetrachloride	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trichloroethene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Dibromomethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Bromodichloromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Trans-1,3-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Cis-1,3-Dichloropropene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1,2-Trichloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,3-Dichloropropane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Tetrachloroethylene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Dibromochloromethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dibromoethane	EPA-8260	ND	5.0	1	UG/KG	10/21/2010	GAP
Chlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Bromoform	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2,3-Trichloropropane	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP

Page 11

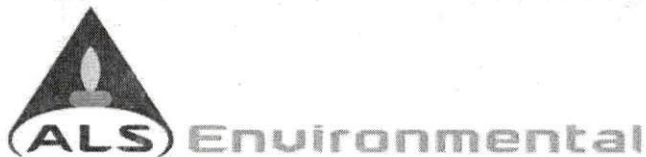
ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626

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CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry
CLIENT SAMPLE ID: 10/13/2010 PERC-Stockpile
ALS SAMPLE #: -08

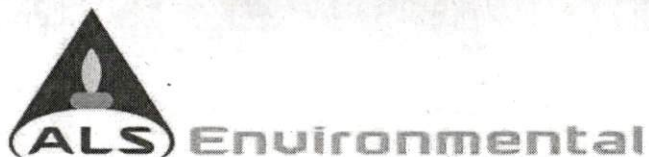
DATA RESULTS

ANALYTE	METHOD	RESULTS*	REPORTING LIMITS	DILUTION FACTOR	UNITS**	ANALYSIS DATE	ANALYSIS BY
Bromobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
2-Chlorotoluene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
4-Chlorotoluene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,3-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,4-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	ND	50	1	UG/KG	10/21/2010	GAP
1,2,4-Trichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
Hexachlorobutadiene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP
1,2,3-Trichlorobenzene	EPA-8260	ND	10	1	UG/KG	10/21/2010	GAP

* "ND" INDICATES ANALYTE ANALYZED FOR BUT NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT.

** UNITS FOR ALL NON-LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS.

APPROVED BY:



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CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry

QUALITY CONTROL RESULTS

SURROGATE RECOVERY

ALS SAMPLE ID	METHOD	SUR ID	% RECV
1010096-01	EPA-8021	TFT	95%
1010096-01	NWTPH-DX	C25	89%
1010096-02	EPA-8021	TFT	85%
1010096-02	NWTPH-DX	C25	95%
1010096-03	EPA-8021	TFT	92%
1010096-03	NWTPH-DX	C25	99%
1010096-04	EPA-8021	TFT	81%
1010096-04	NWTPH-DX	C25	91%
1010096-05	EPA-8260	1,2-Dichloroethane-d4	100%
1010096-05	EPA-8260	4-Bromofluorobenzene	107%
1010096-06 10X Dilution	NWTPH-GX	TFT	S2
1010096-06 10X Dilution	EPA-8021	TFT	S2
1010096-06	EPA-8260	1,2-Dichloroethane-d4	104%
1010096-06	EPA-8260	4-Bromofluorobenzene	98%
1010096-06 10X Dilution	EPA-8260	1,2-Dichloroethane-d4	100%
1010096-06 10X Dilution	EPA-8260	4-Bromofluorobenzene	92%
1010096-07 10X Dilution	NWTPH-GX	TFT	S2
1010096-07 10X Dilution	EPA-8021	TFT	S2
1010096-07	EPA-8260	1,2-Dichloroethane-d4	103%
1010096-07	EPA-8260	4-Bromofluorobenzene	S1
1010096-08	EPA-8260	1,2-Dichloroethane-d4	109%
1010096-08	EPA-8260	4-Bromofluorobenzene	102%

S1- Surrogate outside of control limits due to matrix effect.

S2- Due to high dilution factor surrogate results should be considered uncontrolled.

APPROVED BY:



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WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry

QUALITY CONTROL RESULTS

BLANK RESULTS

QC SAMPLE ID	MATRIX	METHOD	ANALYTE	RESULT	UNITS
MBG-101310S	Soil	NWTPH-GX	TPH-Volatile Range	ND(<3.0)	MG/KG
MB-101310S	Soil	EPA-8021	Benzene	ND(<0.030)	MG/KG
MB-101310S	Soil	EPA-8021	Toluene	ND(<0.050)	MG/KG
MB-101310S	Soil	EPA-8021	Ethylbenzene	ND(<0.050)	MG/KG
MB-101310S	Soil	EPA-8021	Xylenes	ND(<0.20)	MG/KG
MB-101510S	Soil	NWTPH-DX	TPH-Diesel Range	ND(<25)	MG/KG
MB-101510S	Soil	NWTPH-DX	TPH-Oil Range	ND(<50)	MG/KG
MB-101610S	Soil	EPA-8260	Dichlorodifluoromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Chloromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Vinyl Chloride	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Bromomethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Chloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Trichlorofluoromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Carbon Tetrachloride	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1-Dichloroethene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Methylene chloride	ND(<20)	UG/KG
MB-101610S	Soil	EPA-8260	Trans-1,2-Dichloroethene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1-Dichloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Cis-1,2-Dichloroethene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	2,2-Dichloropropane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Bromochloromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Chloroform	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1,1-Trichloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1-Dichloropropene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2-Dichloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Trichloroethene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2-Dichloropropane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Dibromomethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Bromodichloromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Trans-1,3-Dichloropropene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Toluene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Cis-1,3-Dichloropropene	ND(<10)	UG/KG

Page 14

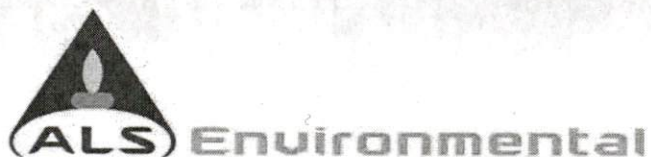
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CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
DATE RECEIVED: 10/14/2010
WDOE ACCREDITATION #: C1336

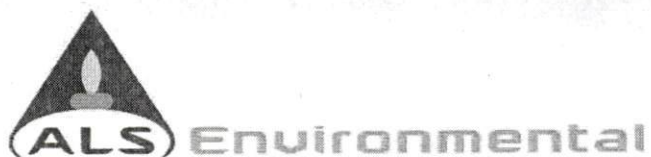
CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry

QUALITY CONTROL RESULTS

BLANK RESULTS

QC SAMPLE ID	MATRIX	METHOD	ANALYTE	RESULT	UNITS
MB-101610S	Soil	EPA-8260	1,1,2-Trichloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,3-Dichloropropane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Tetrachloroethylene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Dibromochloromethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2-Dibromoethane	ND(<5.0)	UG/KG
MB-101610S	Soil	EPA-8260	Chlorobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1,1,2-Tetrachloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Bromoform	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,1,2,2-Tetrachloroethane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2,3-Trichloropropane	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Bromobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	2-Chlorotoluene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	4-Chlorotoluene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,3 Dichlorobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,4-Dichlorobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2-Dichlorobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2-Dibromo 3-Chloropropane	ND(<50)	UG/KG
MB-101610S	Soil	EPA-8260	1,2,4-Trichlorobenzene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	Hexachlorobutadiene	ND(<10)	UG/KG
MB-101610S	Soil	EPA-8260	1,2,3-Trichlorobenzene	ND(<10)	UG/KG
MBLK-10192010	Soil	EPA-7471	Mercury	ND(<0.020)	MG/KG
MB-101810S	Soil	EPA-6020	Arsenic	ND(<0.12)	MG/KG
MB-101810S	Soil	EPA-6020	Cadmium	ND(<0.20)	MG/KG
MB-101810S	Soil	EPA-6020	Chromium	ND(<0.12)	MG/KG
MB-101810S	Soil	EPA-6020	Lead	ND(<0.12)	MG/KG

APPROVED BY:



CERTIFICATE OF ANALYSIS

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

DATE: 10/26/2010
ALS JOB#: 1010096
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WDOE ACCREDITATION #: C1336

CLIENT CONTACT: Thom Davis
CLIENT PROJECT ID: Cascade Laundry

QUALITY CONTROL RESULTS

BLANK SPIKE/BLANK SPIKE DUPLICATE RESULTS

QC BATCH ID	MATRIX	METHOD	ANALYTE	SPIKE AMOUNT	BLANK SPIKE RECOVERY	BLANK SPIKE DUPLICATE RECOVERY	RPD
1153	Soil	NWTPH-GX	TPH-Volatile Range	500	101%	102%	0
1153	Soil	EPA-8021	Benzene	20	106%	107%	0
1153	Soil	EPA-8021	Toluene	20	106%	106%	0
1153	Soil	EPA-8021	Ethylbenzene	20	103%	103%	0
1153	Soil	EPA-8021	Xylenes	60	107%	107%	0
1150	Soil	NWTPH-DX	TPH-Diesel Range	250	84%	84%	0
1166	Soil	EPA-8260	1,1-Dichloroethene	10	86%	89%	3
1166	Soil	EPA-8260	Trichloroethene	10	94%	96%	2
1166	Soil	EPA-8260	Toluene	10	88%	92%	4
1166	Soil	EPA-8260	Chlorobenzene	10	91%	94%	3
R71174	Soil	EPA-7471	Mercury	100	109%	101%	8
1170	Soil	EPA-6020	Arsenic	100	92%	93%	1
1170	Soil	EPA-6020	Cadmium	100	96%	95%	0
1170	Soil	EPA-6020	Chromium	100	95%	94%	1
1170	Soil	EPA-6020	Lead	100	98%	97%	1

APPROVED BY:



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)

1010096

Date 10/13/10 Page 1 Of 1

PROJECT ID: Cascade Laundry
REPORT TO COMPANY: Whatcom Env. Svcs.
PROJECT MANAGER: Thom - Harold
ADDRESS: 228 E. Champion #101
Bham, WA 98225
PHONE: 752-9571 FAX: 752-9573
PO. NUMBER: E-MAIL:
INVOICE TO COMPANY:
ATTENTION: Same
ADDRESS:

ANALYSIS REQUESTED

OTHER (Specify)

NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐	PCB ☐ Pesticides ☐ by EPA 8081/8082	Metals-MTCA-5 ☒ RCRA-8 ☐ Pb ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
	X	X										X			2	
	X	X													2	
	X	X													2	
	X	X													2	
					X										4	
		XX			X										4	
		XX			X										4	
					X										4	

LABORATORY COPY

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. Bunker-West-5ft	10/13/10	830	Soil	1
2. Bunker-North-5ft		840		2
3. Bunker-Stockpile		850		3
4. Bunker-Floor-8ft		1230		4
5. PERC-South-7ft		910		5
6. PERC-West-7ft		930		6
7. PERC-Floor-9ft		920		7
8. PERC-Stockpile		1000		8
9.				
10.				

SPECIAL INSTRUCTIONS

Collected via 5035A

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] WES 10/13/10 @ 1315

Received By:

2. Relinquished By:

Received By: Shawn Robinson AW 10/14/10 2:40

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

OTHER:

10 5 3 2 1 SAME DAY

Specify:

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

* Turnaround request less than standard may incur Rush Charges