

**Quarterly Groundwater and Treatment System Monitoring Report  
(Quarter #3 – 2014)**

**Lake Goodwin Gas Station  
4726 Lakewood Road  
Stanwood, WA**

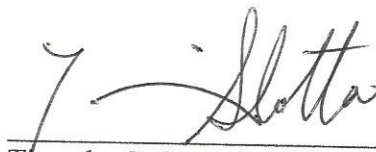
**Prepared for:**

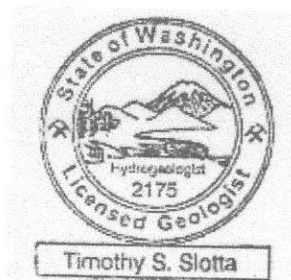
*Ms. Karen Ryan  
Lake Goodwin Gas Station  
4726 Lakewood Road  
Stanwood, WA*

**Submitted by:**

*Slotta Design & Consulting (SD&C)  
PO Box 2071  
Kirkland, WA 98083*

September 3, 2014

  
Timothy S. Slotta L.H.G. #2175  
Hydrogeologist



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## **1.0 INTRODUCTION**

### **1.1 General**

This report presents the results of the third quarter (Q3-2014) monitoring event, conducted by Slotta Design and Consulting (SD&C) at the Lake Goodwin Grocery located at 4726 Lakewood Road in Stanwood, Washington (Figure 1). The groundwater sampling, and monitoring activities were conducted in accordance with the Washington Department of Ecology (Ecology's) Model Toxics Control Act (MTCA) WAC 173-340, Voluntary Cleanup Program (VCP), with the intent of achieving "no further action" (NFA) status for the site.

### **1.2 Site Description**

The irregular-shaped property located on the rural Lake Goodwin shoreline is approximately 6.79 acres in size. The property is comprised of 13 parcels that are used as a recreational vehicle resort. The property includes the Lake Goodwin Grocery, a 1926-era convenience store with an office, and a 1998-era gas station canopy with two operational underground storage tanks (USTs). The gas station area is mostly concrete and asphalt paved and used for parking and fuel distribution. The principal site features as they relate to the gas station building are illustrated in Figure 2. The grocery store and fuel distribution canopy are located on the central portion of the site adjacent to Lakewood Road located to the north. The site is generally level and slopes gradually toward Lake Goodwin, which is located directly to the south/southeast. The property is bordered to the west by undeveloped land and east by Snohomish County's Lake Goodwin Park.

### **1.3 Background**

SD&C was contracted on December 19, 2013 to review the site conditions after a gasoline spill occurred. Groundwater in monitoring wells in the vicinity of the release area (MW-4, 5, and 6) contained petroleum hydrocarbons (PHC) at concentrations which exceeded MTCA method A cleanup levels. The results of the groundwater samples collected from the wells are included in Table 1, and the elevation data measured from each monitoring well is included in Table 2.

A water level control well (PW-1), located adjacent to the spill, contained 18-inches of free-phase PHC product on the water surface. PW-1 is currently operated to create a localized depression of the shallow water table in the area, and lower the water level in the vicinity of the UST compound and the fuel pumps. PW-1 is a 12-inch diameter PVC sewer pipe which was installed during site upgrades in 1987. The water from PW-1 has historically been discharged to the ground surface in a grassy bio-swale south of the fuel distribution area and has not been regulated. The PW-1 discharge has been retrofitted to discharge through parallel 55-gallon carbon filters. An air sparging system is also in operation at PW-1 which is composed of a rotron-blower connected with subsurface 2" PVC piping to discharge beneath the groundwater surface. A system schematic illustrating the air-sparging, and pumping with carbon treatment is included in Figure 3.



## **1.4 Scope of Work**

The Q3-2014 sampling event was conducted by SD&C on August 15, 2014. This report summarizes the sampling data and historical results of samples collected from the monitoring wells, PW-1, and the water treatment system discharge.

SD&C conducted the following quarterly monitoring activities:

- Installing a replacement carbon canister on the treatment system.
- Collecting groundwater from the sampling locations.
- Submitting the samples under chain-of-custody to a laboratory for analysis.
- Evaluating the results of the laboratory analyses of the water samples.
- Preparing this written report to summarize the field data and the laboratory results.

## **2.0 FIELD ACTIVITIES**

### **2.1 Water Monitoring and Sampling**

The water samples collected were delivered under chain-of-custody to ALS Laboratory of Everett, WA for analysis. The samples were collected using EPA approved protocol using a low flow peristaltic pump directly into laboratory prepared VOA vials. The water treatment system discharge was sampled directly from the discharge pipe.

## **3.0 CHEMICAL ANALYSES AND RESULTS**

### **3.1 Laboratory Analyses of Water Samples**

Copies of the original laboratory reports are included as Appendix I. The water samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbons (TPH)-Volatile Range as Gasoline, using Ecology Method WTPH-Gx; and
- Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX), using EPA Method 8020 modified.

### **3.2 Results of Sample Analyses**

The results of the samples are summarized in Table 1. The samples collected from the motoring wells, pumping well, and the water treatment system discharge, did not contain detectable concentrations of petroleum hydrocarbons.

## **4.0 SUMMARY AND CONCLUSIONS**

SD&C conducted this Q3-2014 groundwater monitoring and sampling event at the Lake Goodwin Grocery located in Stanwood, WA during August, 2014. The quarterly water monitoring was conducted with the intent of achieving "no further action" (NFA) designation with Ecology's Voluntary Cleanup Program (VCP). Ecology requires four consecutive quarters of water monitoring data with chemical concentrations below the MTCA method A cleanup levels prior to authorizing a NFA.

The Q3-2014 results of the water samples collected from the monitoring wells (MW-4, 5, 6 and PW-1) did not contain detectable concentrations of PHCs exceeding the MTCA method A cleanup levels. The concentrations of the chemicals of concern were below the MTCA method A cleanup levels for the first quarterly sampling event since the spill.

The carbon in the filtration system was refreshed during this quarterly sampling event and continues to be working properly. The Q3-2014 results of the sample collected from the treatment system discharge did not contain detectable concentrations of petroleum hydrocarbons.

The continued operation of the air sparging system at PW-1 appears to be successful in reducing PHC concentrations in the groundwater. Three additional monitoring events are required to fulfill the MTCA requirements, and the site will re-enter Ecology's VCP at that time.

## **5.0 LIMITATIONS**

SD&C's conclusions are based on conditions encountered at the time of field activities, information provided, and the results of qualitative sampling. The opinions expressed in this report are based on an evaluation of the subsurface conditions encountered, and the assumption that the water conditions in proximity to the sample sites do not deviate appreciably from those examined. Any unusual conditions not identified during this monitoring event should be brought to the attention of SD&C so that modifications may be made if necessary.

SD&C's work was performed in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

## 6.0 REFERENCES

Ecology. October 1992. *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*. Washington State Department of Ecology, Olympia, Washington. 35 pp.



**Table 1 - Laboratory Chemical Analytical Results  
Groundwater Samples Lake Goodwin Grocery - Stanwood, WA**

Sample ID	Sample Date	WTPH-G (mg/L, ppb)	Benzene (ug/L, ppb)	Toluene (ug/L, ppb)	Ethyl Benzene (ug/L, ppb)	Xylenes (ug/L, ppb)
<b>Well Water</b>						
PW-1	12-19-13	550,000	N/A	N/A	N/A	N/A
PW-1	3-5-14	330	2,400	14,000	3,800	30,000
PW-1	5-20-14	15	100	1,500	240	2,300
PW-1	8-15-14	0.067	<1	1.2	2	8.7
<b>MW-4</b>						
MW-4	12-19-13	17	57	960	350	2,100
MW-4	3-5-14	<0.05	<1	<1	<1	<3
MW-4	5-20-14	<0.05	<1	<1	<1	<3
MW-4	8-15-14	<0.05	<1	<1	<1	<3
<b>MW-5</b>						
MW-5	12-19-13	1.9	15	180	47	280
MW-5	3-5-14	<0.05	<1	<1	<1	<3
MW-5	5-20-14	<0.05	<1	<1	<1	<3
MW-5	8-15-14	<0.05	<1	<1	<1	<3
<b>MW-6</b>						
MW-6	12-19-13	1.6	11	130	34	220
MW-6	3-5-14	<0.05	7.1	<1	<1	<3
MW-6	5-20-14	<0.05	3.7	<1	<1	<3
MW-6	8-15-14	<0.05	3.7	<1	<1	<3
<b>Discharge Water</b>						
Discharge Water Dis-1	1-3-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-1	5-13-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-2	5-13-14	<0.05	<1	<1	<1	<3
Discharge Water Dis-2	8-15-14	<0.05	<1	<1	<1	<3
<b>Storm Water</b>						
SW-1	5-13-14	<0.05	<1	<1	<1	<3
<b>MTCA Method A cleanup level</b>						
Method Reporting Limit		800	5	1,000	700	1,000
		1000	20	20	20	60

Notes:

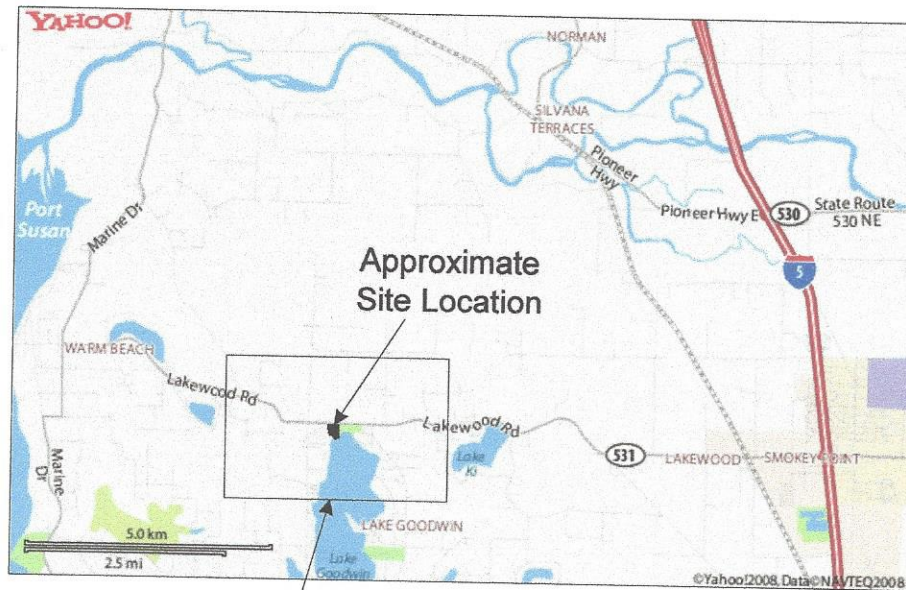
Milligrams per liter (mg/L), parts per million (ppm), Micrograms per liter (ug/L), parts per billion (ppb).  
<1.0 = not detected at or above the method reporting limit. N/A = not analyzed

MTCA Method A cleanup levels for groundwater are from Washington Administrative Code (WAC) chapter 173-340 revised 2-12-01.  
Groundwater sample analysis included: Gasoline by Ecology method NWTPH-Gx, and BTEX by EPA method 8020

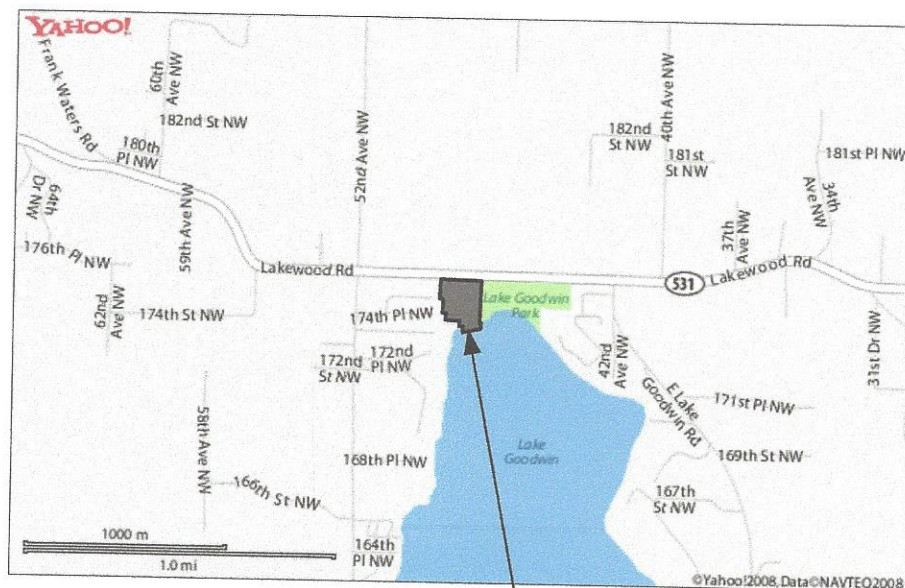
Table 2  
Monitoring Well Elevation Data  
Lake Goodwin Grocery – Stanwood, WA

Monitoring Well	Date	Casing Elevation	Depth to Groundwater	Groundwater Elevation
MW-4	5/13/14	342.06	1.16	340.90
MW-4	8/15/14	342.06	2.66	339.40
MW-5	5/13/14	342.87	2.33	340.54
MW-5	8/15/14	342.87	3.75	339.12
MW-6	5/13/14	342.58	1.66	340.92
MW-6	8/15/14	342.58	3.10	339.48





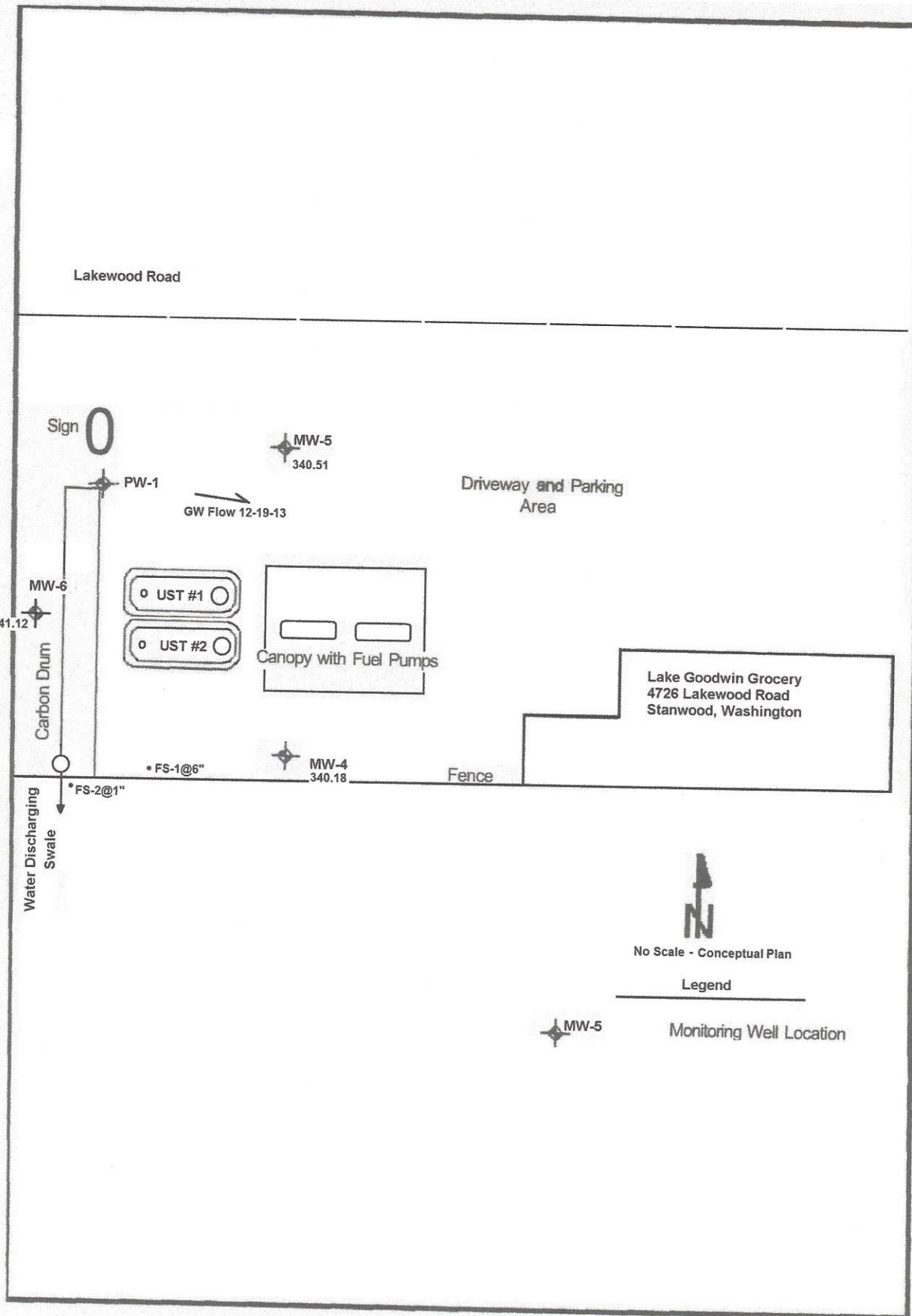
Area enlarged below



Lake Goodwin Gas Station  
and RV Resort  
4726 Lakewood Road  
Stanwood, WA 98292

**SD&C**

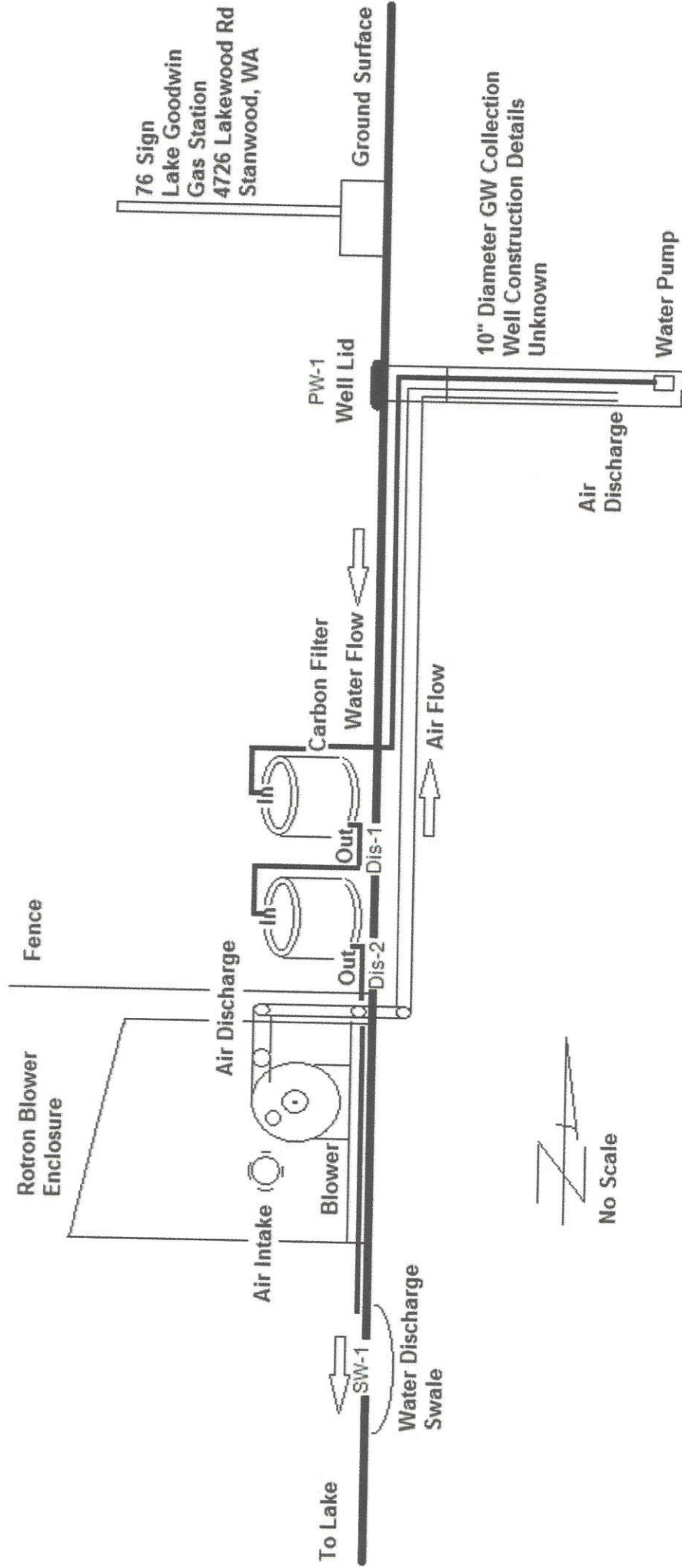
**Figure 1. Site Location Maps**



SD&C

Sample Location Map

Figure 2





## **APPENDIX I**

### **LABORATORY REPORTS**



August 19, 2014

Mr. Tim Slotta  
SD & C  
PO Box 2071  
Kirkland, WA 98083

Dear Mr. Slotta,

On August 15th, 5 samples were received by our laboratory and assigned our laboratory project number EV14080082. The project was identified as your Lk Goodwin. 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

Page 1

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208

PHONE 425-356-2600

FAX 425-356-2626

ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**CERTIFICATE OF ANALYSIS**

CLIENT: SD & C  
PO Box 2071  
Kirkland, WA 98083

CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin  
CLIENT SAMPLE ID: PW-1

DATE: 8/19/2014  
ALS JOB#: EV14080082  
ALS SAMPLE#: EV14080082-01  
DATE RECEIVED: 08/15/2014  
COLLECTION DATE: 8/15/2014 9:00:00 AM  
WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	67	50	1	ug/L	08/19/2014	DLC
Benzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Toluene	EPA-8021	1.2	1.0	1	ug/L	08/19/2014	DLC
Ethylbenzene	EPA-8021	2.0	1.0	1	ug/L	08/19/2014	DLC
Xylenes	EPA-8021	8.7	3.0	1	ug/L	08/19/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.6	08/19/2014	DLC
TFT	EPA-8021	90.1	08/19/2014	DLC

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: SD & C  
PO Box 2071  
Kirkland, WA 98083  
CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin  
CLIENT SAMPLE ID: MW-4

DATE: 8/19/2014  
ALS JOB#: EV14080082  
ALS SAMPLE#: EV14080082-02  
DATE RECEIVED: 08/15/2014  
COLLECTION DATE: 8/15/2014 9:30:00 AM  
WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	ug/L	08/19/2014	DLC
Benzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	ug/L	08/19/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	89.4	08/19/2014	DLC
TFT	EPA-8021	87.3	08/19/2014	DLC

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



# CERTIFICATE OF ANALYSIS

CLIENT: SD & C  
PO Box 2071  
Kirkland, WA 98083  
CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin  
CLIENT SAMPLE ID: MW-5

DATE: 8/19/2014  
ALS JOB#: EV14080082  
ALS SAMPLE#: EV14080082-03  
DATE RECEIVED: 08/15/2014  
COLLECTION DATE: 8/15/2014 10:00:00 AM  
WDOE ACCREDITATION: C601

# SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	ug/L	08/19/2014	DLC
Benzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	ug/L	08/19/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.1	08/19/2014	DLC
TFT	EPA-8021	90.2	08/19/2014	DLC

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



# CERTIFICATE OF ANALYSIS

CLIENT: SD & C  
PO Box 2071  
Kirkland, WA 98083  
CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin  
CLIENT SAMPLE ID: MW-6

DATE: 8/19/2014  
ALS JOB#: EV14080082  
ALS SAMPLE#: EV14080082-04  
DATE RECEIVED: 08/15/2014  
COLLECTION DATE: 8/15/2014 10:30:00 AM  
WDOE ACCREDITATION: C601

# SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	ug/L	08/19/2014	DLC
Benzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	ug/L	08/19/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.0	08/19/2014	DLC
TFT	EPA-8021	87.2	08/19/2014	DLC

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



**CERTIFICATE OF ANALYSIS**

**CLIENT:** SD & C  
 PO Box 2071  
 Kirkland, WA 98083  
**CLIENT CONTACT:** Tim Slotta  
**CLIENT PROJECT:** Lk Goodwin  
**CLIENT SAMPLE ID:** DIS-2

**DATE:** 8/19/2014  
**ALS JOB#:** EV14080082  
**ALS SAMPLE#:** EV14080082-05  
**DATE RECEIVED:** 08/15/2014  
**COLLECTION DATE:** 8/15/2014 12:30:00 PM  
**WDOE ACCREDITATION:** C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	ug/L	08/19/2014	DLC
Benzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Toluene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	ug/L	08/19/2014	DLC
Xylenes	EPA-8021	U	3.0	1	ug/L	08/19/2014	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	85.4	08/19/2014	DLC
TFT	EPA-8021	88.2	08/19/2014	DLC

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



### CERTIFICATE OF ANALYSIS

CLIENT: SD & C  
PO Box 2071  
Kirkland, WA 98083

CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin

DATE: 8/19/2014  
ALS SDG#: EV14080082  
WDOE ACCREDITATION: C601

### LABORATORY BLANK RESULTS

#### MBG-081814W - Batch 85227 - 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	08/18/2014	DLC

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

#### MB-081814W - Batch 85227 - 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	08/18/2014	DLC
Toluene	EPA-8021	U	1.0	1	ug/L	08/18/2014	DLC
Ethylbenzene	EPA-8021	U	1.0	1	ug/L	08/18/2014	DLC
Xylenes	EPA-8021	U	3.0	1	ug/L	08/18/2014	DLC

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



# CERTIFICATE OF ANALYSIS

CLIENT: SD & C  
PO Box 2071  
Kirkland, WA 98083  
CLIENT CONTACT: Tim Slotta  
CLIENT PROJECT: Lk Goodwin

DATE: 8/19/2014  
ALS SDG#: EV14080082  
WDOE ACCREDITATION: C601

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 85227 - Water by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	81.5			08/18/2014	DLC
TPH-Volatile Range - BSD	NWTPH-GX	88.3	8		08/18/2014	DLC

### ALS Test Batch ID: 85227 - Water by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	89.3			08/18/2014	DLC
Benzene - BSD	EPA-8021	88.9	0		08/18/2014	DLC
Toluene - BS	EPA-8021	89.4			08/18/2014	DLC
Toluene - BSD	EPA-8021	89.1	0		08/18/2014	DLC
Ethylbenzene - BS	EPA-8021	86.9			08/18/2014	DLC
Ethylbenzene - BSD	EPA-8021	87.8	1		08/18/2014	DLC
Xylenes - BS	EPA-8021	88.6			08/18/2014	DLC
Xylenes - BSD	EPA-8021	88.4	0		08/18/2014	DLC

APPROVED BY

Laboratory Director





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

## Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV14080082

Date 8-15-14 Page 1 of 1

PROJECT ID: LK GOODWIN				ANALYSIS REQUESTED										OTHER (Specify)		Date 8-15-14 Page 1 of 1																					
REPORT TO COMPANY: SDQC				VOLATILE ORGANIC COMPOUNDS 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		NUMBER OF CONTAINERS		RECEIVED IN GOOD CONDITION?	
PROJECT MANAGER: T. SLOTTA				MTBE by EPA-8021 EPA-8260										BTEX by EPA-8021		NWTPH-HCID		NWTPH-DX		NWTPH-GX																	
ADDRESS: P.O. Box 2071				KIRKLAND, WA 98083																																	
PHONE: 206 459-5775				FAX: 206 459-5775																																	
PO. NUMBER: T34SDQC				HOTMAIL																																	
INVOICE TO COMPANY: COLONY INSURANCE				ATTENTION: CAROL LYBEE																																	
ADDRESS:																																					
SAMPLE I.D.				DATE		TIME		TYPE		LAB#																											
1. PW-1				8-15-14		9:00		W		1																											
2. MW-4				"		9:30		}		2																											
3. MW-5				"		10:00		}		3																											
4. MW-6				"		10:30		}		4																											
5. DIS-2				"		12:30		X		5																											
6.																																					
7.																																					
8.																																					
9.																																					
10.																																					

LABORATORY COPY

### SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: TIM SLOTTA SDQC 8-15-14 12:00

Received By:

2. Relinquished By: [Signature] ALS 8/15/14 12:00

Received By:

TURNAROUND REQUESTED in Business Days\*  
Organic, Metals & Inorganic Analysis  
OTHER:

Specify:

10	5	3	2	1	SAME DAY
10	5	3	2	1	SAME DAY

Fuels & Hydrocarbon Analysis

\* Turnaround request less than standard may incur Rush Charges