

GW-211

Q1 2012

Monitoring

Report

Date:

3/2/2012

OIL CONS. DIV DIST. 3

MAR 19 2012

QUARTERLY GROUNDWATER MONITORING REPORT
(January 2012 Sampling Event)

GROUNDWATER DISCHARGE PLAN GW-211

Property:

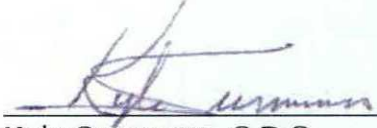
LARGO COMPRESSOR STATION
Section 15, Township 26N, Range 7W
Rio Arriba County, New Mexico
SWG Project No. 0410002
March 2, 2012

Prepared for:

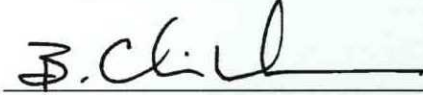
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QUARTERLY GROUNDWATER MONITORING REPORT
(January 2012 Sampling Event)
GROUNDWATER DISCHARGE PLAN GW-211

LARGO COMPRESSOR STATION
Section 15, Township 26N, Range 7W
Rio Arriba County, New Mexico

SWG Project No. 0410002

1.0 INTRODUCTION

1.1 Site Description & Background

The Largo Compressor Station is located off of County Road (CR) 379 in Section 15, Township 26N, Range 7W in Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and currently includes two (2) compressor engines, a dehydration unit and related treater, one (1) bullet storage tank, an out-of-service condensate storage tank battery, which includes six (6) condensate storage tanks and two (2) below-grade drain tanks, a new condensate storage tank battery, which includes seven (7) new condensate storage tanks, inlet scrubbers, a control room, and an office/shop building.

The Site is subject to regulatory oversight by the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD). To address activities related to crude oil/condensate related releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the EMNRD/OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

The Site location is depicted on Figure 1 of Appendix A which was reproduced from a portion of the United States Geological Survey (USGS) 7.5-minute series topographic map. A Site vicinity map, created from an aerial photograph, is provided as Figure 2 of Appendix A.

The areas of known or suspected impact at the Site have been previously identified as Areas 1 through 4 in OCD correspondence. Each of the areas is depicted on Figure 3 in relation to pertinent Site features and general Site boundaries. These areas are briefly described below:

Area 1(Condensate Storage Tank Area)

Area 1 is defined as the northwestern portion of the Site and includes the out-of-service condensate storage tank battery associated with on-going investigation and/or corrective actions since a release from a condensate storage tank valve was reported to

the OCD in January of 2008. Additional detail regarding the investigative and corrective activities at Area 1 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011)*, and the *Corrective Action Pilot Study Report (SWG – October 10, 2011)*.

Area 2 (Valve Box Area)

Area 2 includes the new condensate storage tank battery and the immediately surrounding areas. This area is in the north central portion of the Site, immediately south of CR 379. During the construction of the new tank battery in June 2009, petroleum hydrocarbon impacted soils and groundwater were encountered in association with a former valve box and related appurtenances. Additional detail regarding the investigative and corrective activities at Area 2 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011)*.

Area 3 (Retention Pond Area)

Area 3 encompasses the northeast portion of the Site including the storm-water retention pond. Historical petroleum hydrocarbon affected soil and groundwater were identified during the construction of the retention pond in July of 2009, which apparently originated from historic oil and contact water treatment and storage in the area of the current retention pond. Additional detail regarding the investigative and corrective activities at Area 3 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011)*.

Area 4 (Compression & Dehydration Area)

Area 4 includes the remainder of the Site, which includes the active compression and treatment area comprised of two (2) compressor engines, a dehydration unit and related treated and inlet scrubbers. Soil and groundwater investigation activities pertaining to Area 4 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011)*.

1.2 Scope of Work

The objective of the groundwater monitoring event was to further evaluate the concentrations of constituents of concern (COCs) in groundwater at the Site.

1.3 Standard of Care & Limitations

The findings and recommendations contained in this report represent SWG's professional opinions based upon information derived from on-Site activities and other services performed under this scope of work and were arrived at in accordance with currently acceptable professional standards. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the geologic/hydrogeologic conditions at the Site for the purpose of this investigation are made from a limited number of available data points (i.e. soil borings and ground water samples) and site wide subsurface conditions may vary from these data points. SWG makes no warranties, express or implied, as to the services performed hereunder. Additionally, SWG does not warrant the work of third parties supplying information used

in the report (e.g. laboratories, regulatory agencies, or other third parties).

This report is based upon a specific scope of work requested by Enterprise. The agreement between SWG and Enterprise outlines the scope of work, and only those tasks specifically authorized by that agreement or outlined in this report were performed. This report has been prepared for the intended use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and SWG.

2.0 SAMPLING PROGRAM

A quarterly groundwater sampling event was conducted on January 27th through January 31st, 2012 by Kyle Summers, a SWG environmental professional.

SWG's groundwater sampling program consisted of the following:

Prior to sample collection, SWG gauged the depth to fluids in each monitoring well using an interface probe capable of detecting light non-aqueous phase liquids (LNAPL). Monitoring wells exhibiting LNAPL were not sampled.

Each monitoring well was micro-purged utilizing low-flow sampling techniques. Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. It does not necessarily refer to the flow rate of water discharged at the surface which can be affected by flow regulators or restrictions. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective is to pump in a manner that minimizes stress (drawdown) to the system, to the extent practical, taking into account established Site sampling objectives. Flow rates on the order of 0.1 to 0.5 L/min will be maintained during sampling activities, using dedicated sampling equipment.

The utilization of low-flow minimal drawdown techniques enables the isolation of the screened interval groundwater from the overlying stagnant casing water. The pump intake is placed within the screened interval such that the groundwater recovered is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone.

Subsequent to the completion of the micro-purge process, one groundwater sample was collected from each monitoring well that did not contain LNAPL. The groundwater samples were collected from each monitoring well once produced groundwater was consistent in color, clarity, pH, DO, ORP, temperature and conductivity.

Groundwater samples were collected in laboratory prepared containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

3.0 LABORATORY ANALYTICAL PROGRAM

The groundwater samples collected from the monitoring wells during the groundwater sampling event were analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA method SW-846#8015M, and benzene, toluene, ethylbenzene and xylenes (BTEX) utilizing EPA method SW-846 #8021B.

A summary of the analysis, sample type, sample frequency and EPA-approved methods are presented on the following table:

Analysis	Sample Type	No. of Samples	Method
<i>TPH GRO/DRO</i>	Groundwater	20	SW-846# 8015M
<i>BTEX</i>	Groundwater	20	SW-846# 8021B

Laboratory results are summarized in Table 1 included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

4.0 GROUNDWATER FLOW DIRECTION

The monitoring wells were historically surveyed for top-of-casing (TOC) elevations. Prior to sample collection, SWG gauged the depth to fluids in each monitoring well. The groundwater flow direction at the Site is generally towards the northwest, with a gradient that ranges from 0.002 ft/ft and 0.005 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event in January 2012 are presented with TOC elevations in Table 2, Appendix B. A groundwater gradient map for the January 2012 event is included as Figure 4 (Appendix A).

5.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to crude oil/condensate related releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the EMNRD/OCD rules, specifically NMAC 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

5.1 Groundwater Samples

SWG compared BTEX concentrations or practical quantitative limits (PQLs) associated with the groundwater samples collected from monitoring wells during the January 2012 sampling event to the New Mexico WQCC *Groundwater Quality Standards*; however, the New Mexico WQCC *Groundwater Quality Standards* may not be applicable since the initial groundwater-bearing unit would not be considered an "Underground Source of

Drinking Water" in accordance with 19.15.30 NMAC *Remediation*. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

Due to the presence of LNAPL hydrocarbons in association with the initial groundwater-bearing unit, monitoring wells MW-33, MW-35, and MW-37 were not sampled during the completion of field activities. Additionally, monitoring well MW-40 was effectively dry and was not sampled during the completion of sampling activities.

The groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, MW-15, MW-16, and MW-39 exhibited benzene concentrations ranging from 10 µg/L to 9,000 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the laboratory PQLs, which are below the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater samples collected from monitoring wells MW-12 and MW-39 exhibited toluene concentrations of 62 µg/L and 48 µg/L respectively, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit toluene concentrations above the laboratory PQLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, and MW-39 exhibited ethylbenzene concentrations ranging from 4.3 µg/L to 110 µg/L which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater sample collected from monitoring well MW-12 exhibited a xylene concentration of 1,500 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L. The groundwater sample collected from monitoring well MW-39 exhibited a xylene concentration of 79 µg/L, which is below the WQCC *Groundwater Quality Standard* of 620 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit xylene concentrations above the laboratory PQLs, which are below the WQCC *Groundwater Quality Standard* of 620 µg/L.

TPH Gasoline Range Organics/Diesel Range Organics

The groundwater samples collected from monitoring wells MW-3R, MW-7, MW-11, MW-12, MW-15, MW-16, MW-39, and MW-47 exhibited TPH GRO concentrations ranging from 0.096 mg/L to 21 mg/L, and TPH DRO concentrations ranging from <1.0 mg/L to 11 mg/L. The highest GRO concentration during the January 2012 sampling event was observed in the groundwater sample from monitoring well MW-7 (21 mg/L) and the

highest DRO concentration was observed in the sample from MW-12 (11 mg/L).

The groundwater samples collected from monitoring wells MW-6, MW-8, MW-9, MW-13, MW-14, MW-32, MW-34, MW-36, MW-38, MW-41, MW-42, and MW-43 did not exhibit TPH GRO or DRO concentrations above the laboratory PQLs during the January 2012 sampling event.

6.0 FINDINGS

During January 2012, SWG conducted a quarterly groundwater monitoring event at the Largo Compressor Station. The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s, and is located off of CR 379 in Section 15, Township 26N, Range 7W in Rio Arriba County, New Mexico. The objective of the groundwater monitoring event was to further evaluate the concentrations of COCs in groundwater.

- Prior to sample collection, SWG gauged the depth to fluids in each monitoring well. LNAPL was observed in monitoring wells MW-33, MW-35, and MW-37. Monitoring well MW-40 was effectively dry and was not sampled.
- During the completion of the sampling event, one (1) groundwater sample was collected from each monitoring well utilizing low-flow sampling techniques.
- The groundwater flow direction at the Site is generally towards the northwest, with a gradient that varies between 0.002 ft/ft and 0.005 ft/ft across the Site.
- The groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, MW-15, MW-16, and MW-39 exhibited benzene concentrations ranging from 10 µg/L to 9,000 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L. The analytical results from monitoring wells MW-7 and MW-39 indicate an increase in benzene concentrations when compared to the October 2011 analytical data, whereas the remaining monitoring well samples indicate a general decline.
- The groundwater sample collected from monitoring well MW-12 exhibited a xylene concentration of 1,500 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L.
- The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the WQCC *Groundwater Quality Standards*.
- The NAPL thicknesses measured in monitoring wells MW-33 and MW-35 appears to be strongly correlated with the fluctuations in the elevations of the groundwater table. As the elevation of the groundwater table rises, NAPL is often entrapped in the soil pore spaces, resulting in a reduction NAPL thickness. Conversely, as the groundwater table falls, NAPL entrapped in soil pore spaces is liberated, resulting in an increase in the measurable thickness of NAPL associated with the groundwater

bearing unit¹.

7.0 RECOMMENDATIONS

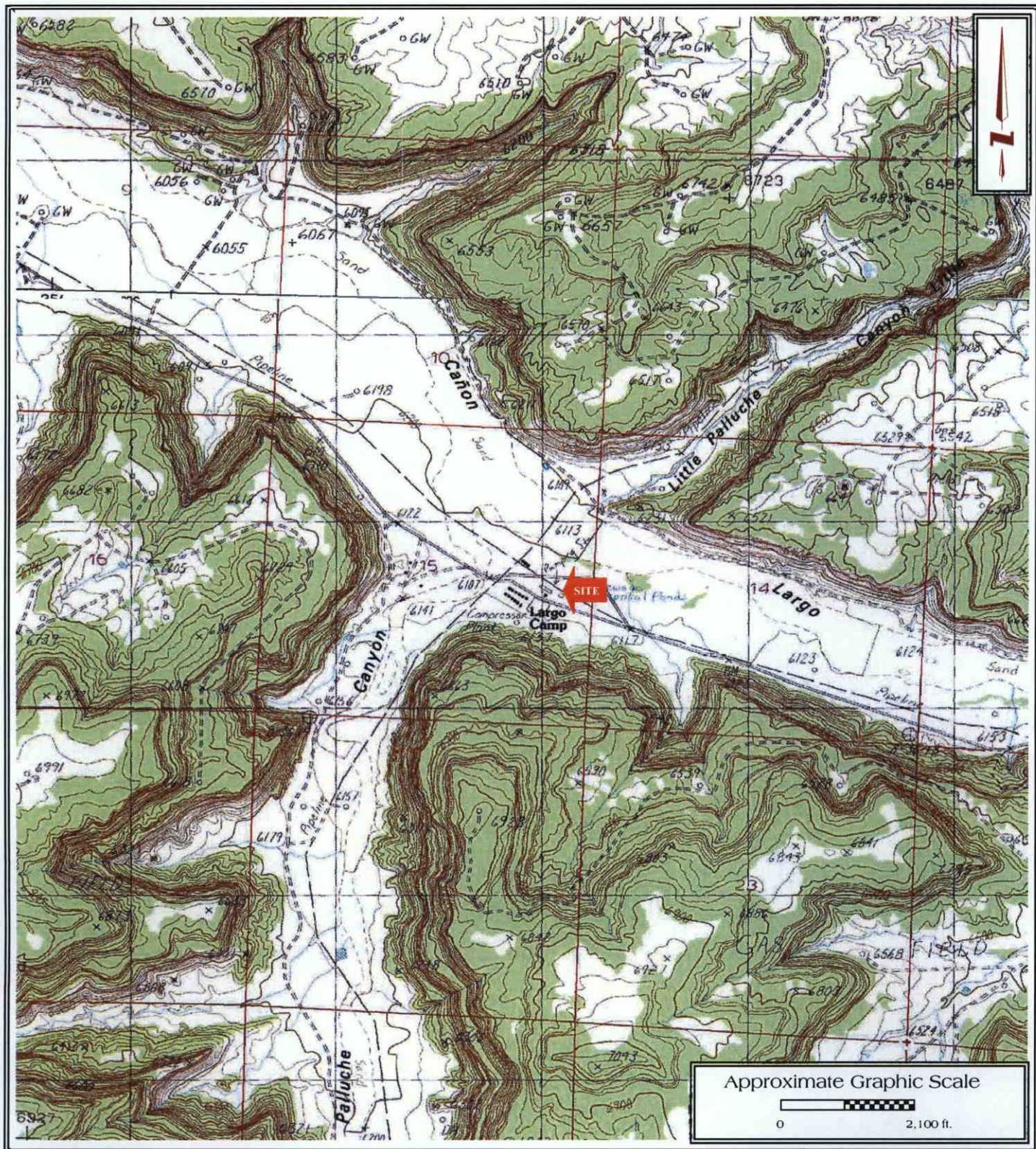
Based on the results of groundwater monitoring activities, SWG has the following recommendations:

- Report the groundwater monitoring results to the OCD;
- Perform Supplemental Site Investigation activities to further evaluate the extent of COCs in groundwater in the vicinity of Area 3 and Area 4 (in accordance with the *Proposed Supplemental Site Investigation Work Plan*, as submitted to the OCD in correspondence dated March 2, 2012); and,
- Pursuant to the completion of supplemental site investigation activities, continue the evaluation and execution of corrective actions to: 1.) Remove LNAPL from groundwater at the Site to the extent practical; and 2.) Reduce the concentrations of COCs in soil to below the OCD *Remediation Action Levels* and groundwater to below the New Mexico WQCC *Groundwater Quality Standards*.

¹ LNAPL Thickness in Monitoring Wells Considering Hysteresis and Entrapment, Fred Marinelli and Deana S. Durnford

APPENDIX A

Figures



Largo Compressor Station
 Condensate Storage Tank Battery
 SE1/4 of NE1/4, S15 T26N R7W
 Rio Arriba Co., New Mexico
 N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

Southwest
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FIGURE 1
 Topographic Map
 Smouse Mesa & Gould Pass,
 NM Quadrangle
 Contour Interval - 20 Feet
 1985

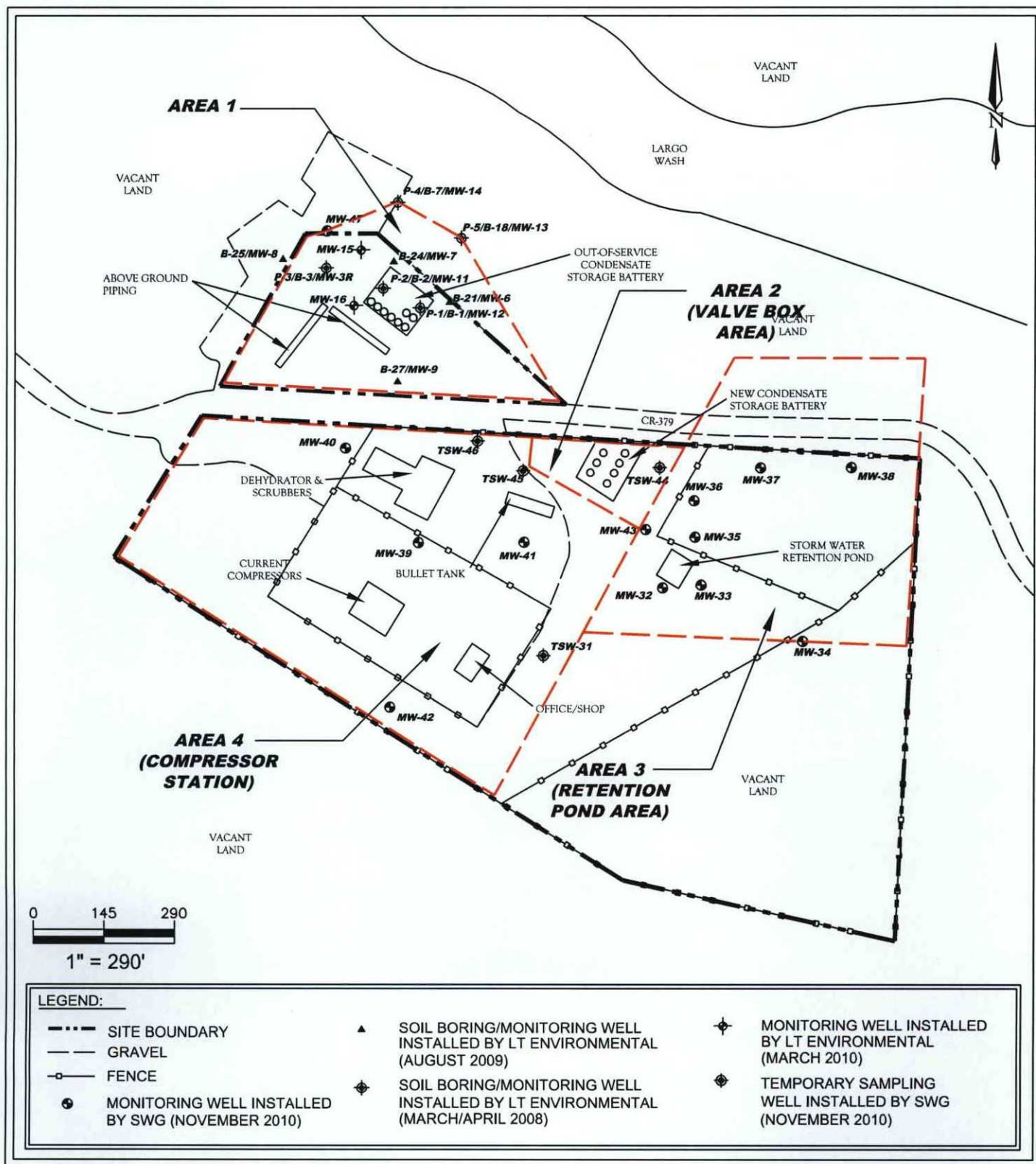


Largo Compressor Station
Condensate Storage Tank Battery
SE 1/4 of NE 1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 2
Site Vicinity Map
2010 Google Earth

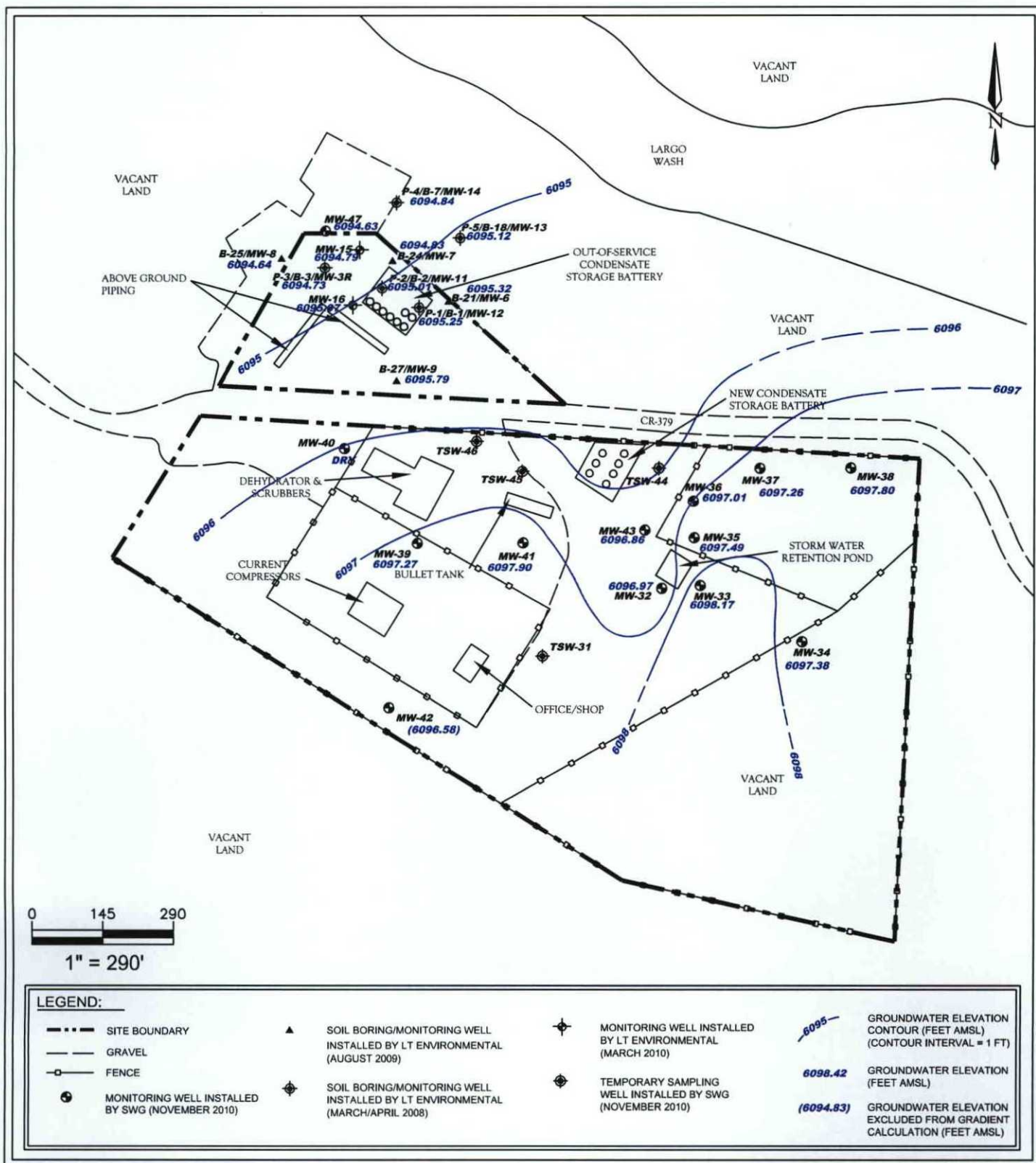


Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 3
SITE MAP

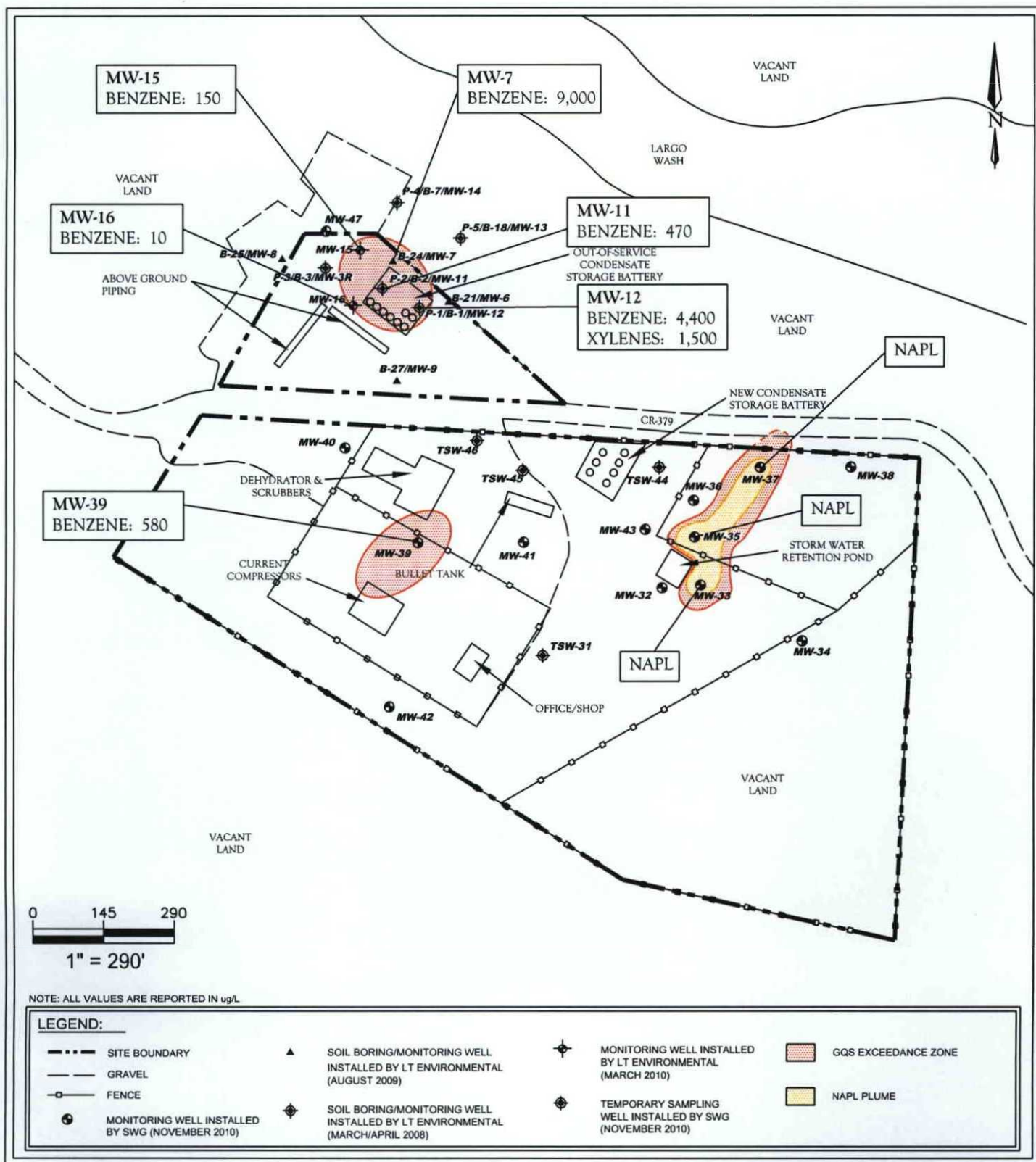


Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

Southwest
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FIGURE 4
GROUNDWATER
GRADIENT MAP
JANUARY 26, 2012



Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 5
GROUNDWATER (GQS)
EXCEEDANCE ZONE
IN GROUNDWATER

JANUARY 2012

APPENDIX B

Tables

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
Monitoring Wells Installed by Lodestar								
P-1	4.04.08	NA	5,700	2,200	310	5,500	53	<1.0
P-1	8.10.09	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
P-1	11.24.09	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
P-1	2.25.10	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-12 (P-1*)	4.05.10	NA	1,300	1,600	110	2,200	20	1.2
MW-12 (P-1*)	5.27.10	NA	3,300	1,800	180	3,200	NA	NA
MW-12 (P-1*)	7.13.10	NA	2,900	330	140	1,700	22	1.0
MW-12 (P-1*)	8.26.10	NA	1,200	420	70	1,300	13	<1.0
MW-12 (P-1*)	11.18.10	NA	1,100	69	61	720	6.3	<1.0
MW-12 (P-1*)	2.4.11	NA	5,900	<50	470	1,600	24	<1.0
MW-12 (P-1*)	4.19.11	NA	4,200	190	<100	330	14	<1.0
MW-12 (P-1*)	5.19.11	NA	1,000	520	36	660	13	15
MW-12 (P-1*)	7.28.11	NA	12,000	2,300	320	3,200	54	3.9
MW-12 (P-1*)	10.28.11	NA	4,900	59	130	3,300	29	7.3
MW-12 (P-1*)	1.31.12	n	4,400	62	110	1,500	18	11
P-2	4.04.08	NA	15,000	2,100	380	4,600	120	6.8
P-2	8.10.09	NA	9,800	110	170	1,400	NA	NA
P-2	11.24.09	NA	21,000	360	460	2,700	NA	NA
P-2	2.25.10	NA	19,000	380	380	2,800	NA	NA
MW-11 (P-2*)	4.05.10	NA	<1.0	<1.7	<1.0	3.3	0.22	<1.0
MW-11 (P-2*)	5.27.10	NA	4.4	<1.0	<1.0	<2.0	NA	NA
MW-11 (P-2*)	7.13.10	NA	700	4.5	11	56	3.6	1.2
MW-11 (P-2*)	8.26.10	NA	86	<1.0	1.3	4.9	0.4	<1.0
MW-11 (P-2*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	0.14	<1.0
MW-11 (P-2*)	2.4.11	NA	21	<1.0	<1.0	<1.0	0.075	<1.0
MW-11 (P-2*)	4.19.11	NA	96	12	1.2	27	0.39	<1.0
MW-11 (P-2*)	7.28.11	NA	46	<1.0	38	76	11	1.7
MW-11 (P-2*)	10.28.11	NA	1,600	<10	31	37	4.6	2.2
MW-11 (P-2*)	1.31.12	n	470	<10	12	<20	1.3	<1.0
P-3	4.04.08	NA	780	13	81	20	4.2	<1.0
P-3	8.10.09	NA	35	<1.0	3.8	<2.0	NA	NA
P-3	11.24.09	NA	1.4	<1.0	1.5	<2.0	NA	NA
P-3	2.25.10	NA	3.6	10	2	24	NA	NA
MW-3R (P-3*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-3R (P-3*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-3R (P-3*)	7.13.10	NA	13	<1.0	1.3	6.4	1.4	1
MW-3R (P-3*)	8.26.10	NA	5.0	<1.0	<1.0	2.3	0.46	<1.0
MW-3R (P-3*)	11.18.10	NA	3.9	<1.0	<1.0	<2.0	0.47	<1.0
MW-3R (P-3*)	2.1.11	NA	2.0	<1.0	<1.0	<2.0	0.16	<1.0
MW-3R (P-3*)	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3R (P-3*)	7.28.11	NA	1.5	<1.0	<1.0	7.1	1.50	<1.0
MW-3R (P-3*)	10.27.11	NA	1.1	<1.0	<1.0	<2.0	0.57	<1.0
MW-3R (P-3*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
P-4	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.42	<1.0
P-4	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-4	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-4	2.25.10	NA	2.5	7.5	<1.0	14	NA	NA
MW-14 (P-4*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-14 (P-4*)	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	2.1.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
P-5	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.1	<1.0
P-5	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-5	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-5	2.25.10	NA	1.8	6.1	<1.0	11	NA	NA
MW-13 (P-5*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-13 (P-5*)	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	2.3.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-7	8.10.09	NA	15,000	<100	380	310	NA	NA
MW-7	11.24.09	NA	13,000	<100	150	<200	NA	NA
MW-7	2.25.10	NA	3,000	<10	40	31	NA	NA
MW-7	4.05.10	NA	940	<10	<10	<20	4.2	1.3
MW-7	5.27.10	NA	700	<10	11	<20	NA	NA
MW-7	7.13.10	NA	15,000	<10	130	25	51	4.6
MW-7	8.26.10	NA	5,300	<20	35	<40	18	1.7
MW-7	11.18.10	NA	3,700	<20	62	<40	11	1.2
MW-7	2.1.11	NA	1,800	<1.0	10	4.6	2.2	<1.0
MW-7	4.19.11	NA	250	<1.0	2.9	2.4	0.75	<1.0
MW-7	5.19.11	NA	1,400	<5.0	15.0	<10	4.0	<1.0
MW-7	7.28.11	NA	75	<5.0	200	62.0	45	2.7
MW-7	10.28.11	NA	1,300	<10	140	<20	32	6.1
MW-7	1.31.12	NA	9,000	<10	110	<20	21	4.5
MW-8	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-15	4.05.10	NA	1.1	<1.0	<1.0	<2.0	<0.05	<1.0
MW-15	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-15	7.13.10	NA	490	2.2	7.2	15	3.2	<1.0
MW-15	8.26.10	NA	20	<1.0	<1.0	<2.0	0.095	<1.0
MW-15	11.18.10	NA	8.9	<1.0	<1.0	<2.0	0.19	<1.0
MW-15	2.1.11	NA	16	<1.0	<1.0	<2.0	0.06	<1.0
MW-15	4.18.11	NA	13	<1.0	<1.0	<2.0	0.14	<1.0
MW-15	7.28.11	NA	1500	<1.0	19	20	6.7	<1.0
MW-15	10.28.11	NA	810	<1.0	<1.0	<2.0	2.2	1.0
MW-15	1.30.12	NA	150	<1.0	<1.0	<2.0	0.51	<1.0
MW-16	4.05.10	NA	3.8	1.5	1.4	11	0.36	<1.0
MW-16	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-16	7.13.10	NA	47	<1.0	<1.0	<2.0	0.3	<1.0
MW-16	8.26.10	NA	16	<1.0	<1.0	<2.0	0.095	<1.0
MW-16	11.18.10	NA	3.4	<1.0	<1.0	<2.0	0.11	<1.0
MW-16	2.1.11	NA	61	<1.0	1.3	2.1	0.20	<1.0
MW-16	4.18.11	NA	34	<1.0	3.7	4.4	0.16	<1.0
MW-16	7.28.11	NA	43	<1.0	1.9	<2.0	0.29	<1.0
MW-16	10.27.11	NA	21	<1.0	<1.0	<2.0	0.19	<1.0
MW-16	1.30.12	NA	10	<1.0	<1.0	<2.0	0.096	<1.0
TSW-31	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-33	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-34	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-35	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-36	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	4.20.11	NA	<1.0	2.1	<1.0	<2.0	<0.050	<1.0
MW-36	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-37	2.4.11	NA	3,100	6,200	700	7,000	38	3.9
MW-37	4.20.11	NA	2,500	3,600	500	5,100	34	4.2
MW-37	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-38	1.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	4.20.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-39	1.26.11	NA	1,200	730	37	570	11	<1.0
MW-39	4.19.11	NA	120	<1.0	1.6	5.9	0.33	<1.0
MW-39	7.29.11	NA	27	14	1.9	18	0.80	<1.0
MW-39	10.27.11	NA	260	<1.0	1.2	3.5	0.44	<1.0
MW-39	1.27.12	NA	580	48	4.3	79	1.80	<1.0
MW-40	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40	4.20.11	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
MW-40	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40	10.26.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40	1.27.12	NA	Dry	Dry	Dry	Dry	Dry	Dry

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-41	1.31.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-41	4.18.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-41	7.29.11	NA	<5.0	<5.0	<5.0	<10	<0.050	<1.0
MW-41	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	2.4.11	NA	<5.0	<5.0	<5.0	<10	<0.25	NA
MW-42	3.3.11	75,400	NA	NA	NA	NA	NA	NA
MW-42	4.19.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-42	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-42	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	0.06	<1.0
MW-43	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-44	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-45	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-46	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-47	1.28.11	NA	<5.0	<5.0	<5.0	<10	1.3	2.5
MW-47	4.18.11	NA	<5.0	<5.0	<5.0	<10	2.0	1.2
MW-47	7.28.11	NA	<5.0	<5.0	<5.0	27.0	6.6	1.1
MW-47	10.28.11	NA	<5.0	<5.0	<5.0	<10	1.4	2.7
MW-47	1.30.12	NA	<5.0	<5.0	<5.0	<10	2.6	2.5

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Level

NA = Not Analyzed

NE = Not Established

NAPL = Non-aqueous phase liquid

* = piezometer well was replaced with associated monitoring well

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation
MW-3R	4.5.10	6117.47	None Observed	21.83	0.0	6095.64
	5.27.10		None Observed	21.82	0.0	6095.65
	6.25.10		None Observed	22.22	0.0	6095.25
	7.13.10		None Observed	22.47	0.0	6095.00
	8.26.10		None Observed	22.24	0.0	6095.23
	11.18.10		None Observed	22.32	0.0	6095.15
	1.25.11		None Observed	22.13	0.0	6095.34
	4.22.11		None Observed	21.99	0.0	6095.48
	7.27.11		None Observed	22.81	0.0	6094.66
	10.26.11		None Observed	22.91	0.0	6094.56
MW-6	1.26.12	6115.47	None Observed	22.74	0.0	6094.73
	8.10.09		None Observed	20.28	0.0	6095.19
	11.24.09		None Observed	20.17	0.0	6095.30
	2.25.10		None Observed	19.54	0.0	6095.93
	4.5.10		None Observed	19.11	0.0	6096.36
	5.27.10		None Observed	19.28	0.0	6096.19
	6.25.10		None Observed	19.87	0.0	6095.60
	7.13.10		None Observed	20.09	0.0	6095.38
	8.26.10		None Observed	19.68	0.0	6095.79
	11.18.10		None Observed	19.72	0.0	6095.75
MW-7	1.25.11	6116.65	None Observed	19.51	0.0	6095.96
	4.22.11		None Observed	19.42	0.0	6096.05
	7.27.11		None Observed	20.4	0.0	6095.07
	10.26.11		None Observed	20.43	0.0	6095.04
	1.26.12		None Observed	20.15	0.0	6095.32
	8.10.09		None Observed	21.52	0.0	6095.13
	11.24.09		None Observed	21.73	0.0	6094.92
	2.25.10		None Observed	21.42	0.0	6095.23
	4.5.10		None Observed	20.96	0.0	6095.69
	5.27.10		None Observed	20.96	0.0	6095.69
MW-8	6.25.10	6118.28	None Observed	21.32	0.0	6095.33
	7.13.10		None Observed	21.46	0.0	6095.19
	8.26.10		None Observed	21.36	0.0	6095.29
	11.18.10		None Observed	21.42	0.0	6095.23
	1.25.11		None Observed	21.24	0.0	6095.41
	4.22.11		None Observed	21.22	0.0	6095.43
	7.27.11		None Observed	21.8	0.0	6094.85
	10.26.11		None Observed	21.94	0.0	6094.71
	1.26.12		None Observed	21.82	0.0	6094.83
	8.10.09		None Observed	23.17	0.0	6095.11
MW-8	11.24.09	6118.28	None Observed	23.43	0.0	6094.85
	2.25.10		None Observed	23.25	0.0	6095.03
	4.5.10		None Observed	22.97	0.0	6095.31
	5.27.10		None Observed	22.85	0.0	6095.43
	6.25.10		None Observed	23.01	0.0	6095.27
	7.13.10		None Observed	23.21	0.0	6095.07
	8.26.10		None Observed	23.23	0.0	6095.05
	11.18.10		None Observed	23.3	0.0	6094.98
	1.25.11		None Observed	23.1	0.0	6095.18
	4.22.11		None Observed	22.94	0.0	6095.34
MW-8	7.27.11		None Observed	23.56	0.0	6094.72
	10.26.11		None Observed	23.75	0.0	6094.53
	1.26.12		None Observed	23.64	0.0	6094.64

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation
MW-9	8.10.09	6117.83	None Observed	21.95	0.0	6095.88
	11.24.09		None Observed	21.98	0.0	6095.85
	2.25.10		None Observed	21.51	0.0	6096.32
	4.5.10		None Observed	21	0.0	6096.83
	5.27.10		None Observed	21.1	0.0	6096.73
	6.25.10		None Observed	21.56	0.0	6096.27
	7.13.10		None Observed	21.77	0.0	6096.06
	8.26.10		None Observed	21.58	0.0	6096.25
	11.18.10		None Observed	21.61	0.0	6096.22
	1.25.11		None Observed	21.43	0.0	6096.40
	4.22.11		None Observed	21.30	0.0	6096.53
	7.27.11		None Observed	22.15	0.0	6095.68
	10.26.11		None Observed	22.25	0.0	6095.58
	1.26.12		None Observed	22.04	0.0	6095.79
MW-11	4.5.10	6116.65	None Observed	20.57	0.0	6096.08
	5.27.10		None Observed	20.75	0.0	6095.90
	6.25.10		None Observed	21.33	0.0	6095.32
	7.13.10		None Observed	21.54	0.0	6095.11
	8.26.10		None Observed	21.17	0.0	6095.48
	11.18.10		None Observed	21.16	0.0	6095.49
	1.25.11		None Observed	21.02	0.0	6095.63
	4.22.11		None Observed	20.91	0.0	6095.74
	7.27.11		None Observed	21.89	0.0	6094.76
	10.26.11		None Observed	21.94	0.0	6094.71
MW-12	1.26.12		None Observed	21.64	0.0	6095.01
	4.5.10	6111.24	None Observed	14.88	0.0	6096.36
	5.27.10		None Observed	15.11	0.0	6096.13
	6.25.10		None Observed	15.67	0.0	6095.57
	7.13.10		None Observed	15.91	0.0	6095.33
	8.26.10		None Observed	15.55	0.0	6095.69
	11.18.10		None Observed	16.58	0.0	6094.66
	1.25.11		None Observed	15.73	0.0	6095.51
	4.22.11		None Observed	15.3	0.0	6095.94
	7.27.11		None Observed	16.1	0.0	6095.14
	10.26.11		None Observed	16.21	0.0	6095.03
MW-13	1.26.12		None Observed	15.99	0.0	6095.25
	4.5.10	6115.46	None Observed	19.26	0.0	6096.20
	5.27.10		None Observed	19.47	0.0	6095.99
	6.25.10		None Observed	20.07	0.0	6095.39
	7.13.10		None Observed	20.28	0.0	6095.18
	8.26.10		None Observed	19.86	0.0	6095.60
	11.18.10		None Observed	19.91	0.0	6095.55
	1.25.11		None Observed	19.71	0.0	6095.75
	4.22.11		None Observed	19.65	0.0	6095.81
	7.27.11		None Observed	20.59	0.0	6094.87
	10.26.11		None Observed	20.62	0.0	6094.84
MW-14	1.26.12		None Observed	20.34	0.0	6095.12
	4.5.10	6115.99	None Observed	20.09	0.0	6095.90
	5.27.10		None Observed	20.28	0.0	6095.71
	6.25.10		None Observed	20.94	0.0	6095.05
	7.13.10		None Observed	21.19	0.0	6094.80
	8.26.10		None Observed	20.70	0.0	6095.29
	11.18.10		None Observed	20.73	0.0	6095.26
	1.25.11		None Observed	20.52	0.0	6095.47
	4.22.11		None Observed	20.45	0.0	6095.54
	7.27.11		None Observed	21.47	0.0	6094.52
	10.26.11		None Observed	21.48	0.0	6094.51
	1.26.12		None Observed	21.15	0.0	6094.84

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation
MW-15	4.5.10	6116.49	None Observed	20.66	0.0	6095.83
	5.27.10		None Observed	20.82	0.0	6095.67
	6.25.10		None Observed	21.43	0.0	6095.06
	7.13.10		None Observed	21.64	0.0	6094.85
	8.26.10		None Observed	21.25	0.0	6095.24
	11.18.10		None Observed	21.36	0.0	6095.13
	1.25.11		None Observed	21.07	0.0	6095.42
	4.22.11		None Observed	20.95	0.0	6095.54
	7.27.11		None Observed	21.95	0.0	6094.54
	10.26.11		None Observed	21.98	0.0	6094.51
	1.26.12		None Observed	21.70	0.0	6094.79
MW-16	4.5.10	6117.57	None Observed	21.51	0.0	6096.06
	5.27.10		None Observed	51.59	0.0	6065.98
	6.25.10		None Observed	22.10	0.0	6095.47
	7.13.10		None Observed	22.29	0.0	6095.28
	8.26.10		None Observed	22.05	0.0	6095.52
	11.18.10		None Observed	22.11	0.0	6095.46
	1.25.11		None Observed	21.87	0.0	6095.70
	4.22.11		None Observed	21.76	0.0	6095.81
	7.27.11		None Observed	22.66	0.0	6094.91
	10.26.11		None Observed	22.71	0.0	6094.86
	1.26.12		None Observed	22.50	0.0	6095.07
MW-32	1.25.11	6110.2	None Observed	12.67	0.0	6097.53
	4.22.11		None Observed	12.49	0.0	6097.71
	7.27.11		None Observed	13.47	0.0	6096.73
	10.26.11		None Observed	13.56	0.0	6096.64
	1.26.12		None Observed	13.23	0.0	6096.97
MW-33	1.25.11*	6114	16.08	16.44	0.36	6097.88
	4.22.11		16.59	16.60	0.01	6097.41
	7.27.11		16.07	16.72	0.65	6097.85
	10.26.11		15.55	16.15	0.60	6098.38
	1.26.12		15.83	15.84	0.01	6098.17
MW-34	1.25.11	6115.36	None Observed	17.38	0.0	6097.98
	4.22.11		None Observed	17.20	0.0	6098.16
	7.27.11		None Observed	18.23	0.0	6097.13
	10.26.11		None Observed	18.32	0.0	6097.04
	1.26.12		None Observed	17.98	0.0	6097.38
MW-35	1.25.11*	6112.21	14.5	14.75	0.25	6097.68
	4.22.11		14.22	14.80	0.58	6097.92
	7.27.11		15.11	16.36	1.25	6096.95
	10.26.11		15.14	16.64	1.50	6096.89
	1.26.12		14.72	14.73	0.01	6097.49
MW-36	1.25.11	6111.42	None Observed	13.80	0.0	6097.62
	4.22.11		None Observed	13.65	0.0	6097.77
	7.27.11		None Observed	14.69	0.0	6096.73
	10.26.11		None Observed	14.45	0.0	6096.97
	1.26.12		None Observed	14.41	0.0	6097.01
MW-37	1.25.11	6110.79	None Observed	12.91	sheen	6097.88
	4.22.11		None Observed	12.78	0.0	6098.01
	7.27.11		13.81	13.84	0.03	6096.98
	10.26.11		13.88	13.92	0.04	6096.91
	1.26.12		13.54	13.54	0.01	6097.26
MW-38	1.25.11	6110.48	None Observed	12.06	0.0	6098.42
	4.22.11		None Observed	11.87	0.0	6098.61
	7.27.11		None Observed	13.01	0.0	6097.47
	10.26.11		None Observed	13.10	0.0	6097.38
	1.26.12		None Observed	12.68	0.0	6097.80
MW-39	1.25.11	6113.84	None Observed	16.21	0.0	6097.63
	4.22.11		None Observed	17.35	0.0	6096.49
	7.27.11		None Observed	16.43	0.0	6097.41
	10.26.11		None Observed	16.52	0.0	6097.32
	1.26.12		None Observed	16.57	0.0	6097.27

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation
MW-40	1.25.11	6115.69	None Observed	19.16	0.0	6096.53
	4.22.11		None Observed	dry	0.0	dry
	7.27.11		None Observed	dry	0.0	dry
	10.26.11		None Observed	dry	0.0	dry
	1.26.12		None Observed	dry	0.0	dry
MW-41	1.25.11	6112.1	None Observed	14.14	0.0	6097.96
	4.22.11		None Observed	14.18	0.0	6097.92
	7.27.11		None Observed	14.08	0.0	6098.02
	10.26.11		None Observed	14.97	0.0	6097.13
	1.26.12		None Observed	14.20	0.0	6097.90
MW-42	1.25.11	6121.5	None Observed	24.88	0.0	6096.62
	4.22.11**		None Observed	errant gauge	0.0	errant gauge
	7.27.11		None Observed	dry	0.0	dry
	10.26.11		None Observed	25.16	0.0	6096.34
	1.26.12		None Observed	24.92	0.0	6096.58
MW-43	1.25.11	6112.91	None Observed	15.41	0.0	6097.50
	4.22.11		None Observed	15.30	0.0	6097.61
	7.27.11		None Observed	16.27	0.0	6096.64
	10.26.11		None Observed	16.35	0.0	6096.56
	1.26.12		None Observed	16.05	0.0	6096.86
MW-47	1.25.11	6114.42	None Observed	19.22	0.0	6095.20
	4.22.11		None Observed	19.02	0.0	6095.40
	7.27.11		None Observed	19.69	0.0	6094.73
	10.26.11		None Observed	19.86	0.0	6094.56
	1.26.12		None Observed	19.79	0.0	6094.63

* - Regauged 1.31.11 to confirm product thickness

** - Aberrant gauging data

APPENDIX C

Laboratory Data Reports & Chain of Custody
Documentation



**HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY**

*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

February 06, 2012

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: LARGO CS

OrderNo.: 1201895

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 1/31/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience

Client Sample ID: MW-38

Project: LARGO CS

Collection Date: 1/27/2012 9:40:00 AM

Lab ID: 1201895-001

Matrix: AQUEOUS

Received Date: 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 9:59:22 AM
Surr: DNOP	104	61.3-164		%REC	1	2/1/2012 9:59:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 1:03:12 PM
Surr: BFB	93.7	69.3-120		%REC	1	2/1/2012 1:03:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 1:03:12 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 1:03:12 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 1:03:12 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 1:03:12 PM
Surr: 4-Bromofluorobenzene	98.3	76.5-115		%REC	1	2/1/2012 1:03:12 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-36**Project:** LARGO CS**Collection Date:** 1/27/2012 10:25:00 AM**Lab ID:** 1201895-002**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 10:21:00 AM
Surr: DNOP	100	61.3-164		%REC	1	2/1/2012 10:21:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 1:32:04 PM
Surr: BFB	95.3	69.3-120		%REC	1	2/1/2012 1:32:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 1:32:04 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 1:32:04 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 1:32:04 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 1:32:04 PM
Surr: 4-Bromofluorobenzene	101	76.5-115		%REC	1	2/1/2012 1:32:04 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-34**Project:** LARGO CS**Collection Date:** 1/27/2012 11:30:00 AM**Lab ID:** 1201895-003**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 10:42:27 AM
Surr: DNOP	104	61.3-164		%REC	1	2/1/2012 10:42:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 2:00:52 PM
Surr: BFB	95.3	69.3-120		%REC	1	2/1/2012 2:00:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 2:00:52 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 2:00:52 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 2:00:52 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 2:00:52 PM
Surr: 4-Bromofluorobenzene	99.8	76.5-115		%REC	1	2/1/2012 2:00:52 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-43**Project:** LARGO CS**Collection Date:** 1/27/2012 12:25:00 PM**Lab ID:** 1201895-004**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 11:04:07 AM
Surr: DNOP	105	61.3-164		%REC	1	2/1/2012 11:04:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 2:29:46 PM
Surr: BFB	95.1	69.3-120		%REC	1	2/1/2012 2:29:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 2:29:46 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 2:29:46 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 2:29:46 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 2:29:46 PM
Surr: 4-Bromofluorobenzene	99.6	76.5-115		%REC	1	2/1/2012 2:29:46 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience

Client Sample ID: MW-41

Project: LARGO CS

Collection Date: 1/27/2012 1:15:00 PM

Lab ID: 1201895-005

Matrix: AQUEOUS

Received Date: 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 11:25:33 AM
Surr: DNOP	96.0	61.3-164		%REC	1	2/1/2012 11:25:33 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 2:58:38 PM
Surr: BFB	95.7	69.3-120		%REC	1	2/1/2012 2:58:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 2:58:38 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 2:58:38 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 2:58:38 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 2:58:38 PM
Surr: 4-Bromofluorobenzene	101	76.5-115		%REC	1	2/1/2012 2:58:38 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1201895
Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-39**Project:** LARGO CS**Collection Date:** 1/27/2012 2:10:00 PM**Lab ID:** 1201895-006**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 11:47:24 AM
Surr: DNOP	103	61.3-164		%REC	1	2/1/2012 11:47:24 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1.8	0.10		mg/L	2	2/1/2012 3:27:29 PM
Surr: BFB	97.9	69.3-120		%REC	2	2/1/2012 3:27:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	580	10		µg/L	10	2/2/2012 3:42:00 PM
Toluene	48	2.0		µg/L	2	2/1/2012 3:27:29 PM
Ethylbenzene	4.3	2.0		µg/L	2	2/1/2012 3:27:29 PM
Xylenes, Total	79	4.0		µg/L	2	2/1/2012 3:27:29 PM
Surr: 4-Bromofluorobenzene	105	76.5-115		%REC	2	2/1/2012 3:27:29 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience

Client Sample ID: MW-32

Project: LARGO CS

Collection Date: 1/27/2012 3:15:00 PM

Lab ID: 1201895-007

Matrix: AQUEOUS

Received Date: 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 12:08:52 PM
Surr: DNOP	111	61.3-164		%REC	1	2/1/2012 12:08:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 3:56:16 PM
Surr: BFB	95.0	69.3-120		%REC	1	2/1/2012 3:56:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 3:56:16 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 3:56:16 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 3:56:16 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 3:56:16 PM
Surr: 4-Bromofluorobenzene	99.9	76.5-115		%REC	1	2/1/2012 3:56:16 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1201895
Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-8**Project:** LARGO CS**Collection Date:** 1/27/2012 4:00:00 PM**Lab ID:** 1201895-008**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 12:52:13 PM
Surr: DNOP	107	61.3-164		%REC	1	2/1/2012 12:52:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 4:25:06 PM
Surr: BFB	94.7	69.3-120		%REC	1	2/1/2012 4:25:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 4:25:06 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 4:25:06 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 4:25:06 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 4:25:06 PM
Surr: 4-Bromofluorobenzene	99.3	76.5-115		%REC	1	2/1/2012 4:25:06 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201895

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience

Client Sample ID: MW-9

Project: LARGO CS

Collection Date: 1/27/2012 4:45:00 PM

Lab ID: 1201895-009

Matrix: AQUEOUS

Received Date: 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 1:13:40 PM
Surr: DNOP	106	61.3-164		%REC	1	2/1/2012 1:13:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 4:53:55 PM
Surr: BFB	94.5	69.3-120		%REC	1	2/1/2012 4:53:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 4:53:55 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 4:53:55 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 4:53:55 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 4:53:55 PM
Surr: 4-Bromofluorobenzene	100	76.5-115		%REC	1	2/1/2012 4:53:55 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1201895
Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-6**Project:** LARGO CS**Collection Date:** 1/27/2012 5:30:00 PM**Lab ID:** 1201895-010**Matrix:** AQUEOUS**Received Date:** 1/31/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/1/2012 1:34:51 PM
Surr: DNOP	107	61.3-164		%REC	1	2/1/2012 1:34:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/1/2012 5:22:40 PM
Surr: BFB	94.9	69.3-120		%REC	1	2/1/2012 5:22:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/1/2012 5:22:40 PM
Toluene	ND	1.0		µg/L	1	2/1/2012 5:22:40 PM
Ethylbenzene	ND	1.0		µg/L	1	2/1/2012 5:22:40 PM
Xylenes, Total	ND	2.0		µg/L	1	2/1/2012 5:22:40 PM
Surr: 4-Bromofluorobenzene	99.6	76.5-115		%REC	1	2/1/2012 5:22:40 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201895

06-Feb-12

Client: Southwest Geoscience

Project: LARGO CS

Sample ID: MB-523	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range								
Client ID: PBW	Batch ID: 523	RunNo: 679								
Prep Date: 1/31/2012	Analysis Date: 2/1/2012	SeqNo: 19476			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		104	61.3	164			

Sample ID: LCS-523	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSW	Batch ID: 523	RunNo: 679								
Prep Date: 1/31/2012	Analysis Date: 2/1/2012	SeqNo: 19478			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	74	157			
Surr: DNOP	0.52		0.5000		104	61.3	164			

Sample ID: LCSD-523	SampType: LCSD	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSS02	Batch ID: 523	RunNo: 679								
Prep Date: 1/31/2012	Analysis Date: 2/1/2012	SeqNo: 19486			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.3	1.0	5.000	0	106	74	157	2.96	23	
Surr: DNOP	0.52		0.5000		104	61.3	164	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201895

06-Feb-12

Client: Southwest Geoscience

Project: LARGO CS

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBW	Batch ID: R713	RunNo: 713								
Prep Date:	Analysis Date: 2/1/2012	SeqNo: 20355			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		94.1	69.3	120			

Sample ID: 2.5GRO LCS	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSW	Batch ID: R713	RunNo: 713								
Prep Date:	Analysis Date: 2/1/2012	SeqNo: 20359		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	81.8	120			
Surr: BFB	20		20.00		101	69.3	120			

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21217		Units: %REC						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		91.4	69.3	120			

Sample ID: 2.5GRO LCS	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21221		Units: %REC						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	20		20.00		100	69.3	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
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R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201895

06-Feb-12

Client: Southwest Geoscience

Project: LARGO CS

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: R713	RunNo: 713								
Prep Date:	Analysis Date: 2/1/2012	SeqNo: 20448			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		99.9	76.5	115			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: R713	RunNo: 713								
Prep Date:	Analysis Date: 2/1/2012	SeqNo: 20467	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	20	1.0	20.00	0	101	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	61	2.0	60.00	0	102	78.6	121			
Surr: 4-Bromofluorobenzene	20		20.00		102	76.5	115			

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21241		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 4-Bromofluorobenzene	19		20.00		95.1	76.5	115			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21246 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		98.4	76.5	115			

Qualifiers:

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ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Southwest Geoscience

Work Order Number: 1201665

Received by/date: LM

Logged By: Lindsay Mangin

1/31/12
1/31/2012 9:45:00 AM

Judy Mayo

Completed By: Lindsay Mangin

1/31/2012 3:13:46 PM

Judy Mayo

Reviewed By: JO 1/31/2012

Chain of Custody

- | | | | |
|----------------------------------|---------|----|---------------|
| 1. Were seals intact? | Yes | No | Not Present ✓ |
| 2. Is Chain of Custody complete? | Yes ✓ | No | Not Present |
| 3. How was the sample delivered? | Courier | | |

Log In

- | | | | |
|--|-------|------|--|
| 4. Coolers are present? (see 19. for cooler specific information) | Yes ✓ | No | NA |
| 5. Was an attempt made to cool the samples? | Yes ✓ | No | NA |
| 6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 5.0°C | Yes ✓ | No | NA |
| 7. Sample(s) in proper container(s)? | Yes ✓ | No | |
| 8. Sufficient sample volume for indicated test(s)? | Yes ✓ | No | |
| 9. Are samples (except VOA and ONG) properly preserved? | Yes ✓ | No | |
| 10. Was preservative added to bottles? | Yes | No ✓ | NA |
| 11. VOA vials have zero headspace? | Yes ✓ | No | No VOA Vials |
| 12. Were any sample containers received broken? | Yes | No ✓ | |
| 13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes ✓ | No | # of preserved bottles checked for pH: |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ✓ | No | (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | Yes ✓ | No | Adjusted? |
| 16. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes ✓ | No | Checked by: |

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA ✓

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

eMail

Phone

Fax

In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

Southwest

GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location Aztec

Project Manager H. Summers

Sample Name	Rye Summers
-------------	-------------

Laboratory: Hall
Address: Albuquerque

Contact: Andy Freeman

Phone:

PO/SO #:

Sampler's Signature

ANALYSIS
REQUESTED

Lab use only
Due Date:

Temp. of coolers ^{ON 10}
when received (C°): 1.7

1	2	3	4	5
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Page 1 of 1

Proj. No. 0410002

Project Name LARGO CS

No/Type of Containers

Matrix	Date	Time	Comp	G rab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L.	250 ml	P/O	TPH	B.T.							Lab Sample ID (Lab Use Only)
W	1/27/12	0940	X		MW-38			5				X	X							120189B-1
		1025			MW-36															-2
		1130			MW-34															-3
		1225			MW-43															-4
		1315			MW-41															-5
		1410			MW-39															-6
		1515			MW-32															-7
		1600			MW-8															-8
		1645			MW-9															-9
W	1/27/12	1730	X		MW-6							X	X							-10

Turn around time	<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> 25% Rush	<input type="checkbox"/> 50% Rush	<input type="checkbox"/> 100% Rush
------------------	--	-----------------------------------	-----------------------------------	------------------------------------

Relinquished by (Signature) <i>[Signature]</i>	Date: 12/12	Time: 753	Received by: (Signature) <i>[Signature]</i>	Date: 12/12	Time: 753
Relinquished by (Signature) <i>[Signature]</i>	Date: 12/12	Time: 1707	Received by: (Signature) <i>[Signature]</i>	Date: 12/31/12	Time: 0945
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:

Matrix	WW - Wastewater	W - Water	S - Soil	SD - Solid	L - Liquid	A - Air Bag	C - Charcoal tube	SL - sludge	O - Oil
Container	VOA - 40 ml vial	AG - Amber / Or Glass 1 Liter			250 ml - Glass wide mouth		P/O - Plastic or other		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 06, 2012

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Largo CS

OrderNo.: 1202038

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/1/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-42**Project:** Largo CS**Collection Date:** 1/30/2012 10:40:00 AM**Lab ID:** 1202038-001**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 2:32:39 PM
Surr: DNOP	94.1	61.3-164		%REC	1	2/2/2012 2:32:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/2/2012 4:10:47 PM
Surr: BFB	96.6	69.3-120		%REC	1	2/2/2012 4:10:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/2/2012 4:10:47 PM
Toluene	ND	1.0		µg/L	1	2/2/2012 4:10:47 PM
Ethylbenzene	ND	1.0		µg/L	1	2/2/2012 4:10:47 PM
Xylenes, Total	ND	2.0		µg/L	1	2/2/2012 4:10:47 PM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	1	2/2/2012 4:10:47 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-47**Project:** Largo CS**Collection Date:** 1/30/2012 11:45:00 AM**Lab ID:** 1202038-002**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	2.5	1.0		mg/L	1	2/2/2012 2:54:21 PM
Surr: DNOP	95.3	61.3-164		%REC	1	2/2/2012 2:54:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	2.6	0.25		mg/L	5	2/2/2012 4:39:38 PM
Surr: BFB	192	69.3-120	S	%REC	5	2/2/2012 4:39:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	5.0		µg/L	5	2/2/2012 4:39:38 PM
Toluene	ND	5.0		µg/L	5	2/2/2012 4:39:38 PM
Ethylbenzene	ND	5.0		µg/L	5	2/2/2012 4:39:38 PM
Xylenes, Total	ND	10		µg/L	5	2/2/2012 4:39:38 PM
Surr: 4-Bromofluorobenzene	105	76.5-115		%REC	5	2/2/2012 4:39:38 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1202038
Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-14**Project:** Largo CS**Collection Date:** 1/30/2012 12:25:00 PM**Lab ID:** 1202038-003**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 3:15:40 PM
Surr: DNOP	105	61.3-164		%REC	1	2/2/2012 3:15:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/2/2012 6:35:02 PM
Surr: BFB	95.2	69.3-120		%REC	1	2/2/2012 6:35:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/2/2012 6:35:02 PM
Toluene	ND	1.0		µg/L	1	2/2/2012 6:35:02 PM
Ethylbenzene	ND	1.0		µg/L	1	2/2/2012 6:35:02 PM
Xylenes, Total	ND	2.0		µg/L	1	2/2/2012 6:35:02 PM
Surr: 4-Bromofluorobenzene	100	76.5-115		%REC	1	2/2/2012 6:35:02 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-13**Project:** Largo CS**Collection Date:** 1/30/2012 1:05:00 PM**Lab ID:** 1202038-004**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 3:36:58 PM
Surr: DNOP	113	61.3-164		%REC	1	2/2/2012 3:36:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	2/2/2012 8:30:19 PM
Surr: BFB	94.0	69.3-120		%REC	1	2/2/2012 8:30:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/2/2012 8:30:19 PM
Toluene	ND	1.0		µg/L	1	2/2/2012 8:30:19 PM
Ethylbenzene	ND	1.0		µg/L	1	2/2/2012 8:30:19 PM
Xylenes, Total	ND	2.0		µg/L	1	2/2/2012 8:30:19 PM
Surr: 4-Bromofluorobenzene	98.1	76.5-115		%REC	1	2/2/2012 8:30:19 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-3R**Project:** Largo CS**Collection Date:** 1/30/2012 1:45:00 PM**Lab ID:** 1202038-005**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 3:58:07 PM
Surr: DNOP	107	61.3-164		%REC	1	2/2/2012 3:58:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.16	0.050		mg/L	1	2/2/2012 10:54:24 PM
Surr: BFB	123	69.3-120	S	%REC	1	2/2/2012 10:54:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	2/2/2012 10:54:24 PM
Toluene	ND	1.0		µg/L	1	2/2/2012 10:54:24 PM
Ethylbenzene	ND	1.0		µg/L	1	2/2/2012 10:54:24 PM
Xylenes, Total	ND	2.0		µg/L	1	2/2/2012 10:54:24 PM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	1	2/2/2012 10:54:24 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-16**Project:** Largo CS**Collection Date:** 1/30/2012 2:30:00 PM**Lab ID:** 1202038-006**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 4:19:37 PM
Surr: DNOP	104	61.3-164		%REC	1	2/2/2012 4:19:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.096	0.050		mg/L	1	2/2/2012 11:23:11 PM
Surr: BFB	104	69.3-120		%REC	1	2/2/2012 11:23:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	10	1.0		µg/L	1	2/2/2012 11:23:11 PM
Toluene	ND	1.0		µg/L	1	2/2/2012 11:23:11 PM
Ethylbenzene	ND	1.0		µg/L	1	2/2/2012 11:23:11 PM
Xylenes, Total	ND	2.0		µg/L	1	2/2/2012 11:23:11 PM
Surr: 4-Bromofluorobenzene	101	76.5-115		%REC	1	2/2/2012 11:23:11 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-15**Project:** Largo CS**Collection Date:** 1/30/2012 3:15:00 PM**Lab ID:** 1202038-007**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 5:02:25 PM
Surr: DNOP	106	61.3-164		%REC	1	2/2/2012 5:02:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.51	0.50		mg/L	10	2/2/2012 11:52:00 PM
Surr: BFB	96.6	69.3-120		%REC	10	2/2/2012 11:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	150	10		µg/L	10	2/2/2012 11:52:00 PM
Toluene	ND	10		µg/L	10	2/2/2012 11:52:00 PM
Ethylbenzene	ND	10		µg/L	10	2/2/2012 11:52:00 PM
Xylenes, Total	ND	20		µg/L	10	2/2/2012 11:52:00 PM
Surr: 4-Bromofluorobenzene	100	76.5-115		%REC	10	2/2/2012 11:52:00 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-7**Project:** Largo CS**Collection Date:** 1/31/2012 9:50:00 AM**Lab ID:** 1202038-008**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	4.5	1.0		mg/L	1	2/2/2012 5:24:00 PM
Surr: DNOP	103	61.3-164		%REC	1	2/2/2012 5:24:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	21	0.50		mg/L	10	2/3/2012 12:49:35 AM
Surr: BFB	121	69.3-120	S	%REC	10	2/3/2012 12:49:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	9,000	200		µg/L	200	2/3/2012 12:20:48 AM
Toluene	ND	10		µg/L	10	2/3/2012 12:49:35 AM
Ethylbenzene	110	10		µg/L	10	2/3/2012 12:49:35 AM
Xylenes, Total	ND	20		µg/L	10	2/3/2012 12:49:35 AM
Surr: 4-Bromofluorobenzene	107	76.5-115		%REC	10	2/3/2012 12:49:35 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1202038

Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-11**Project:** Largo CS**Collection Date:** 1/31/2012 10:40:00 AM**Lab ID:** 1202038-009**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/2/2012 5:45:52 PM
Surr: DNOP	104	61.3-164		%REC	1	2/2/2012 5:45:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1.3	0.50		mg/L	10	2/3/2012 2:15:48 AM
Surr: BFB	95.5	69.3-120		%REC	10	2/3/2012 2:15:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	470	10		µg/L	10	2/3/2012 2:15:48 AM
Toluene	ND	10		µg/L	10	2/3/2012 2:15:48 AM
Ethylbenzene	12	10		µg/L	10	2/3/2012 2:15:48 AM
Xylenes, Total	ND	20		µg/L	10	2/3/2012 2:15:48 AM
Surr: 4-Bromofluorobenzene	99.5	76.5-115		%REC	10	2/3/2012 2:15:48 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1202038
Date Reported: 2/6/2012

CLIENT: Southwest Geoscience**Client Sample ID:** MW-12**Project:** Largo CS**Collection Date:** 1/31/2012 11:40:00 AM**Lab ID:** 1202038-010**Matrix:** AQUEOUS**Received Date:** 2/1/2012 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	11	1.0		mg/L	1	2/3/2012 6:03:44 AM
Surr: DNOP	108	61.3-164		%REC	1	2/3/2012 6:03:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	18	2.5		mg/L	50	2/3/2012 3:13:26 AM
Surr: BFB	96.7	69.3-120		%REC	50	2/3/2012 3:13:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	4,400	50		µg/L	50	2/3/2012 3:13:26 AM
Toluene	62	50		µg/L	50	2/3/2012 3:13:26 AM
Ethylbenzene	110	50		µg/L	50	2/3/2012 3:13:26 AM
Xylenes, Total	1,500	100		µg/L	50	2/3/2012 3:13:26 AM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	50	2/3/2012 3:13:26 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202038

06-Feb-12

Client: Southwest Geoscience

Project: Largo CS

Sample ID: MB-546	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range								
Client ID: PBW	Batch ID: 546	RunNo: 715								
Prep Date: 2/2/2012	Analysis Date: 2/2/2012	SeqNo: 20553 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		102	61.3	164			

Sample ID: LCS-546	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSW	Batch ID: 546	RunNo: 715								
Prep Date: 2/2/2012	Analysis Date: 2/2/2012	SeqNo: 20698 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.9	1.0	5.000	0	98.9	74	157			
Surr: DNOP	0.53		0.5000		107	61.3	164			

Sample ID: LCSD-546	SampType: LCSD	TestCode: EPA Method 8015B: Diesel Range								
Client ID: LCSS02	Batch ID: 546	RunNo: 715								
Prep Date: 2/2/2012	Analysis Date: 2/2/2012	SeqNo: 20786 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	113	74	157	13.6	23	
Surr: DNOP	0.54		0.5000		107	61.3	164	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202038

06-Feb-12

Client: Southwest Geoscience

Project: Largo CS

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21217 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.4	69.3	120			

Sample ID: 2.5GRO LCS	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21221 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	81.8	120			
Surr: BFB	20		20.00		100	69.3	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1202038

06-Feb-12

Client: Southwest Geoscience

Project: Largo CS

Sample ID: 5ML-RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21241		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		95.1	76.5	115			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: R734	RunNo: 734								
Prep Date:	Analysis Date: 2/2/2012	SeqNo: 21246		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	20	1.0	20.00	0	99.4	80	120			
Xylenes, Total	60	2.0	60.00	0	100	78.6	121			
Surr: 4-Bromofluorobenzene	20		20.00		98.4	76.5	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Southwest Geoscience Aztec Work Order Number: 1202038

Received by/date: AT 02/01/12

Logged By: Anne Thorne 2/1/2012 9:30:00 AM *Ann Thorne*

Completed By: Anne Thorne 2/1/2012 *Ann Thorne*

Reviewed By: *[Signature]* 2/1/12

Chain of Custody

1. Were seals intact? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

<h1 style="margin: 0;">Southwest</h1> <h2 style="margin: 0;">GEOSCIENCE</h2> <p style="margin: 0;">Environmental & Hydrogeologic Consultants</p>		Laboratory: <u>Hall</u> Address: <u>Albuquerque</u> Contact: <u>Andy</u> Phone: _____ PO/SO #: _____		ANALYSIS REQUESTED <div style="transform: rotate(-90deg); transform-origin: left top; position: relative; height: 150px;"> TPH GAO/DRA 8015 BTX 8021B </div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>2.3</u> <div style="display: flex; justify-content: space-between;"> X 2 3 4 5 </div> Page <u>1</u> of <u>1</u>							
		Office Location <u>Aztec</u> Project Manager <u>P. Summers</u> Sampler's Name <u>Kyle Summers</u> Sampler's Signature <u>[Signature]</u>											
Proj. No. <u>D410002</u> Project Name <u>Largo CS</u> No/Type of Containers _____													
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	P/O	Lab Sample ID (Lab Use Only)	
W	1/30/12	1040		X	MW-42			3				X	1202038 -1
		1145			MW-47			5					-2
		1225			MW-14			5					-3
		1305			MW-13			5					-4
		1345			MW-3R			5					-5
		1430			MW-16			5					-6
	1/31/12	1515			MW-15			5					-7
	1/31/12	0950			MW-7			5					-8
		1040			MW-11			5					-9
		1140			MW-12			5					-10
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush													
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>1/31/12</u> Time: <u>1500</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>1/31/12</u> Time: <u>1506</u>		NOTES:					
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>1/31/12</u> Time: <u>1725</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>02/01/12</u> Time: <u>0930</u>							
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____							
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____							
Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other													