

GW-211

GW Report Largo C.S.

DATE:
Oct. 13, 2011

QUARTERLY GROUNDWATER MONITORING REPORT

GROUNDWATER DISCHARGE PLAN GW-211

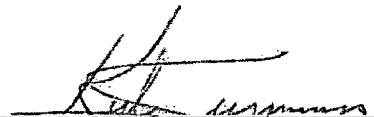
Property:

LARGO COMPRESSOR STATION
Section 15, Township 26N, Range 7W
Rio Arriba County, New Mexico
SWG Project No. 0410002
October 13, 2011

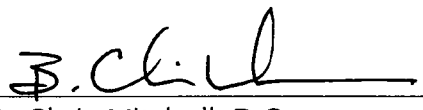
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TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Site Description & Background	1
1.2 Scope Of Work	2
1.3 Standard of Care & Limitations	2
2.0 SAMPLING PROGRAM	3
3.0 LABORATORY ANALYTICAL PROGRAM	4
4.0 GROUNDWATER FLOW DIRECTION	4
5.0 DATA EVALUATION	4
5.1 Groundwater Samples	4
6.0 FINDINGS	6
7.0 RECOMMENDATIONS	6

APPENDIX A FIGURES

- Figure 1: Topographic Map
- Figure 2: Site Vicinity Map
- Figure 3: Site Plan
- Figure 4A: Groundwater Gradient Map (April 22, 2011)
- Figure 4B: Groundwater Gradient Map (July 27, 2011)
- Figure 5: Groundwater Quality Exceedance Zone
(July 2011)

APPENDIX B TABLES

- Table 1: Groundwater Analytical Summary
- Table 2: Groundwater Elevations

APPENDIX C LABORATORY ANALYTICAL DATA & CHAIN-OF-CUSTODY DOCUMENTATION

QUARTERLY GROUNDWATER MONITORING REPORT
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, a condensate storage tank battery, which includes six (6) active 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 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 are 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 northeastern portion of the Site and includes the 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 chemicals of concern (COCs) in groundwater at the Site.

A Site Vicinity Map is included as Figure 2, and a Site Plan, which indicates the approximate locations of the monitoring wells in relation to pertinent structures and general Site boundaries, is included as Figure 3 of Appendix A.

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 July 28th and July 29th, 2011 by Kyle Summers, a SWG environmental professional.

SWG's groundwater sampling program consisted of the following:

- Collection of one groundwater sample from each monitoring well utilizing low-flow sampling techniques.

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). LNAPL was observed in monitoring wells MW-33, MW-35, and MW-37. Monitoring wells MW-40 and MW-42 were effectively dry and were not sampled.

Prior to sample collection, 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.

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
TPH GRO/DRO	Groundwater	19	SW-846# 8015M
BTEX	Groundwater	19	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 north-northwest, with a gradient that ranges from 0.003 ft/ft and 0.005 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event in July 2011 are presented with TOC elevations in Table 2, Appendix B. Groundwater gradient maps for April 2011 and July 2011 are included as Figure 4A and 4B, respectively (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 quantitation limits (PQLs) associated with the groundwater samples collected from monitoring wells during the July 2011 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 wells MW-40 and MW-42 were effectively dry and were 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 27 µg/L to 12,000 µg/L which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L. The groundwater sample collected from monitoring well MW-3R exhibited a benzene concentration of 1.5 µg/L which is below 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 sample collected from monitoring well MW-12 exhibited a toluene concentration of 2,300 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 750 µg/L. The groundwater sample collected from monitoring well MW-39 exhibited a toluene concentration of 14 µg/L which is 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, MW-15, MW-16, and MW-39 exhibited ethylbenzene concentrations ranging from 1.9 µg/L to 320 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 3,200 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L. The groundwater samples collected from monitoring wells MW-3R, MW-7, MW-11, MW-15, MW-39, and MW-47 exhibited xylene concentrations ranging from 7.1 µg/L to 76 µg/L which are 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.

6.0 FINDINGS

During July 2011, 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.

- During the completion of the sampling event, one (1) groundwater sample was collected from each monitoring well utilizing low-flow sampling techniques.
- 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 wells MW-40 and MW-42 were effectively dry and were not sampled.
- The groundwater flow direction at the Site is generally towards the north-northwest, with a gradient that varies between 0.003 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 27 µg/L to 12,000 µg/L which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.
- The groundwater sample collected from monitoring well MW-12 exhibited a toluene concentration of 2,300 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 750 µg/L.
- The groundwater samples collected from monitoring well MW-12 exhibited a xylene concentration of 3,200 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*.

7.0 RECOMMENDATIONS

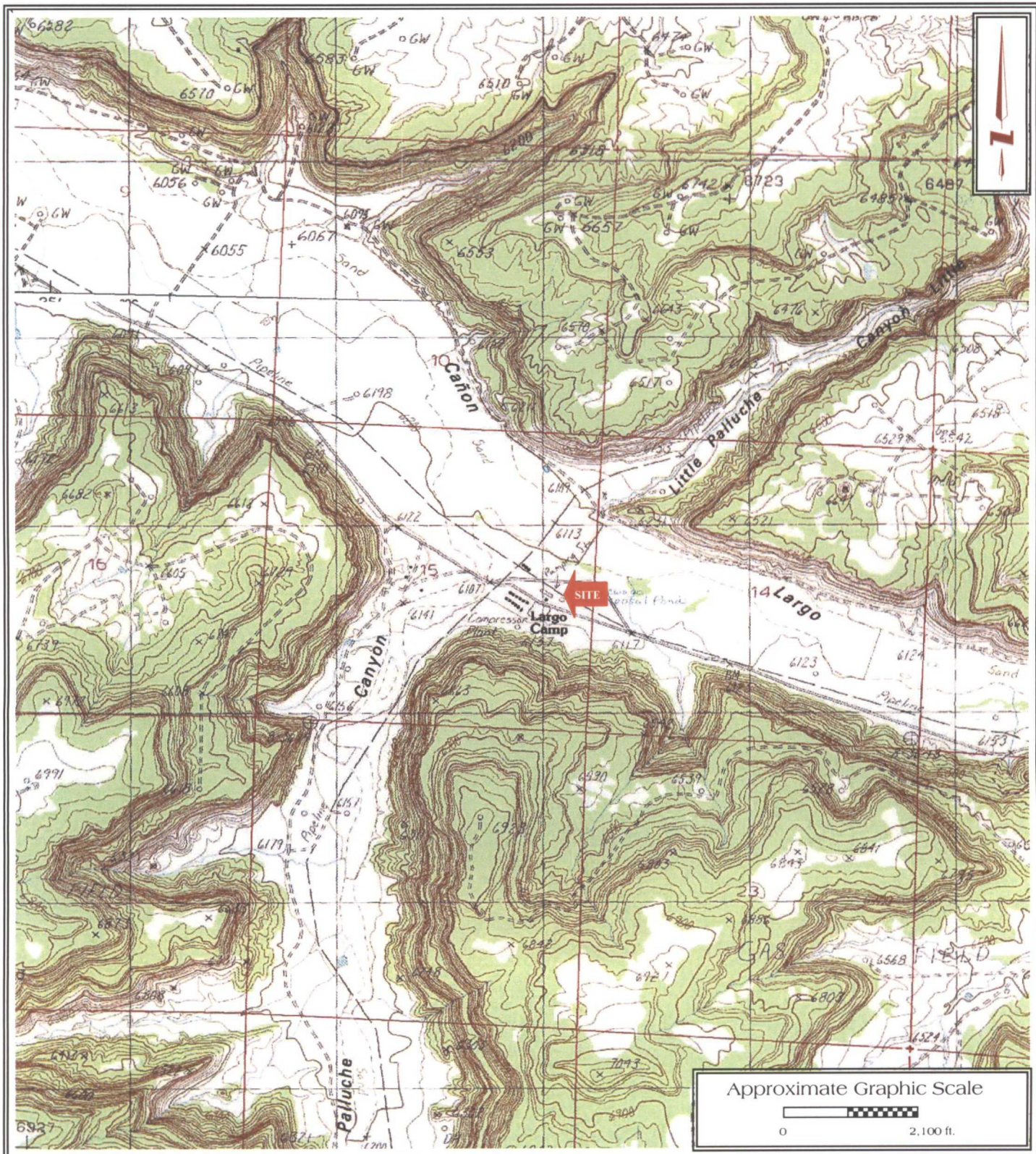
Based on the results of groundwater monitoring activities, SWG has the following recommendations:

- 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; 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*.

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"

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

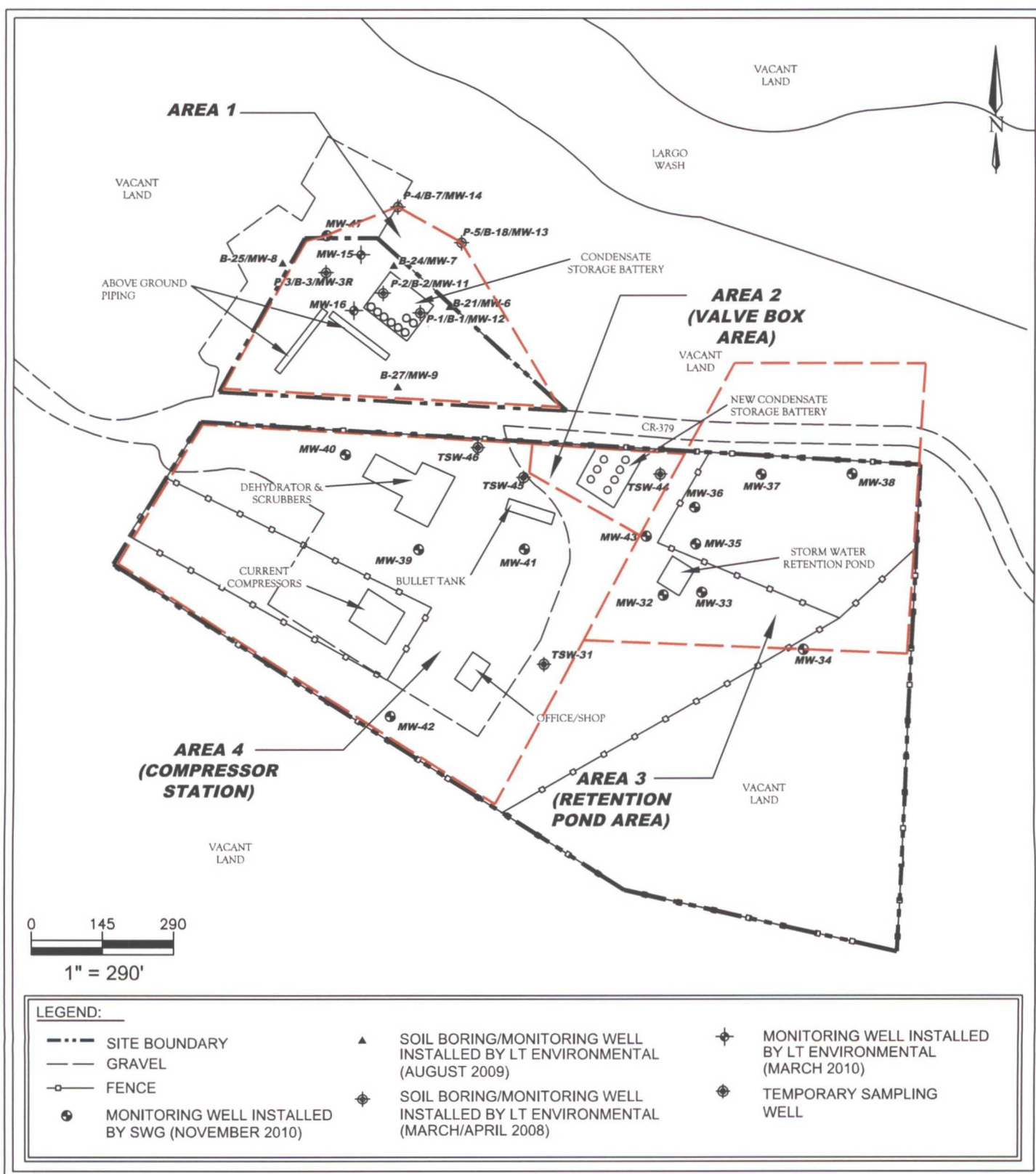


Largo Compressor Station
Condensate Storage Tank Battery
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 2
Site Vicinity Map
2010 Google Earth

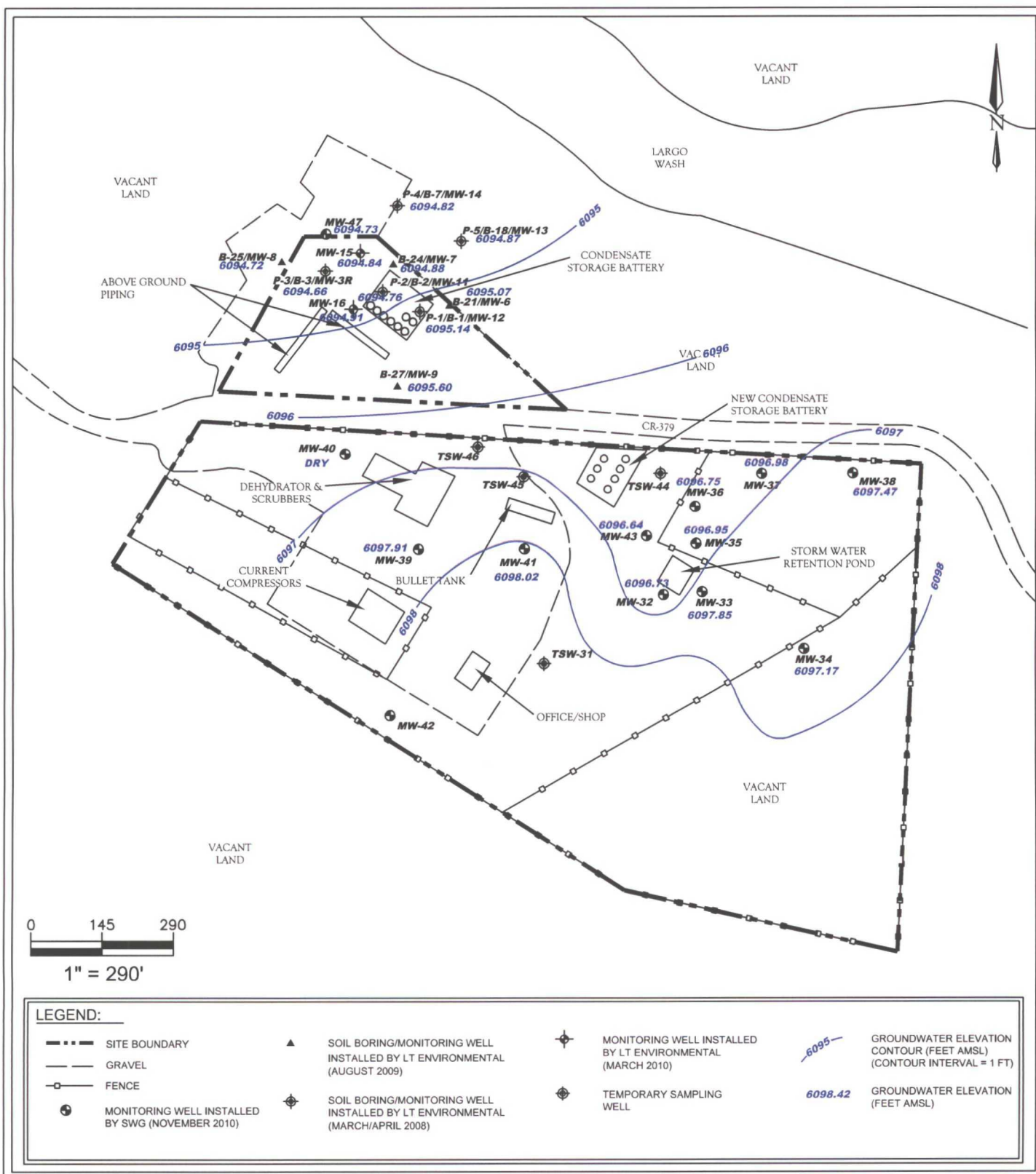


Largo Compressor Station
 SE1/4 of NE1/4, S15 T26N R7W
 Rio Arriba Co., New Mexico
 N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 3
SITE MAP



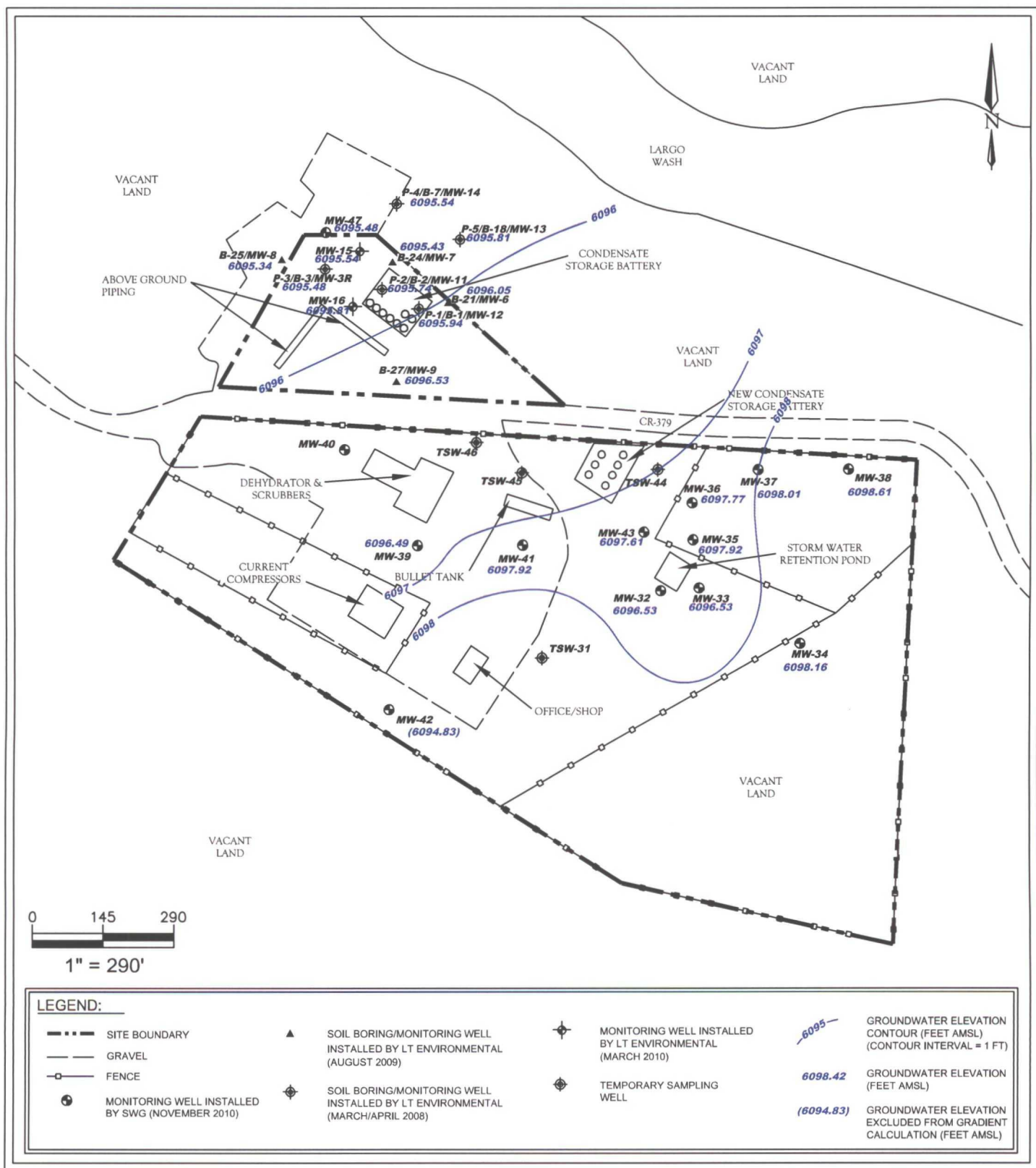
Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

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FIGURE 4B
GROUNDWATER
GRADIENT MAP

JULY 27, 2011



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 4A
GROUNDWATER
GRADIENT MAP

APRIL 22, 2011

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	4
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
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

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								
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
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-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

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample ID	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								
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	<10	10	4.6	2.2	<1.0
MW-7	4.19.11	NA	250	<10	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	200.0	62.0	45.0	2.7
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-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

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								
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-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
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-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-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-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-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-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-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

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-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-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	Dry	Dry	Dry	Dry	Dry	Dry	Dry
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-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	Dry	Dry	Dry	Dry	Dry	Dry	Dry
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
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

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
MW-6	7.27.11	6115.47	None Observed	22.81	0.0	6094.66
	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
	1.25.11		None Observed	19.51	0.0	6095.96
	4.22.11		None Observed	19.42	0.0	6096.05
MW-7	7.27.11	6116.65	None Observed	20.4	0.0	6095.07
	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
	6.25.10		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
MW-8	7.27.11	6118.28	None Observed	21.8	0.0	6094.85
	8.10.09		None Observed	23.17	0.0	6095.11
	11.24.09		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-9	7.27.11	6117.83	None Observed	23.56	0.0	6094.72
	8.10.09		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
MW-9	7.27.11		None Observed	22.15	0.0	6095.68

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-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
MW-12	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
MW-13	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
MW-14	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
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
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
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
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
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

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-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
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
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
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
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
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
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
MW-42	1.25.11	6121.5	None Observed	24.88	0.0	6096.62
	4.22.11		None Observed	26.67	0.0	6094.83
	7.27.11		None Observed	dry	0.0	dry
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
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

NS - Not Surveyed

* - Regauged 1.31.11 to confirm product thickness

APPENDIX C

Laboratory Data Reports
& Chain-of-Custody Documentation

COVER LETTER

Friday, August 12, 2011

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410

TEL: (214) 350-5469

FAX (214) 350-2914

RE: Largo CS

Order No.: 1108125

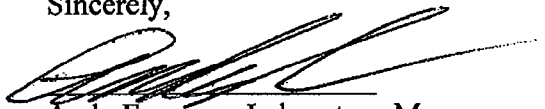
Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 19 sample(s) on 8/2/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682



Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-8

Lab Order: 1108125

Collection Date: 7/28/2011 8:50:00 AM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 5:58:30 AM
Surr: DNOP	86.4	81.1-147		%REC	1	8/4/2011 5:58:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/5/2011 7:01:25 PM
Surr: BFB	87.5	65.4-141		%REC	1	8/5/2011 7:01:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/5/2011 7:01:25 PM
Toluene	ND	1.0		µg/L	1	8/5/2011 7:01:25 PM
Ethylbenzene	ND	1.0		µg/L	1	8/5/2011 7:01:25 PM
Xylenes, Total	ND	2.0		µg/L	1	8/5/2011 7:01:25 PM
Surr: 4-Bromofluorobenzene	83.2	89.6-125	S	%REC	1	8/5/2011 7:01:25 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-47

Lab Order: 1108125

Collection Date: 7/28/2011 9:25:00 AM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	8/4/2011 6:32:35 AM
Surr: DNOP	83.4	81.1-147		%REC	1	8/4/2011 6:32:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	6.6	0.25		mg/L	5	8/5/2011 7:31:29 PM
Surr: BFB	290	65.4-141	S	%REC	5	8/5/2011 7:31:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	5.0		µg/L	5	8/5/2011 7:31:29 PM
Toluene	ND	5.0		µg/L	5	8/5/2011 7:31:29 PM
Ethylbenzene	ND	5.0		µg/L	5	8/5/2011 7:31:29 PM
Xylenes, Total	27	10		µg/L	5	8/5/2011 7:31:29 PM
Surr: 4-Bromofluorobenzene	120	89.6-125		%REC	5	8/5/2011 7:31:29 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-03

Client Sample ID: MW-15
Collection Date: 7/28/2011 10:20:00 AM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 7:08:55 AM
Surr: DNOP	90.1	81.1-147		%REC	1	8/4/2011 7:08:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	6.7	0.050		mg/L	1	8/5/2011 8:31:53 PM
Surr: BFB	764	65.4-141	S	%REC	1	8/5/2011 8:31:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	1500	50		µg/L	50	8/10/2011 3:24:04 PM
Toluene	ND	1.0		µg/L	1	8/5/2011 8:31:53 PM
Ethylbenzene	19	1.0		µg/L	1	8/5/2011 8:31:53 PM
Xylenes, Total	20	2.0		µg/L	1	8/5/2011 8:31:53 PM
Surr: 4-Bromofluorobenzene	199	89.6-125	S	%REC	1	8/5/2011 8:31:53 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-04

Client Sample ID: MW-14
Collection Date: 7/28/2011 11:05:00 AM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 7:41:16 AM
Surr: DNOP	96.5	81.1-147		%REC	1	8/4/2011 7:41:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/7/2011 4:14:46 PM
Surr: BFB	78.2	65.4-141		%REC	1	8/7/2011 4:14:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/7/2011 4:14:46 PM
Toluene	ND	1.0		µg/L	1	8/7/2011 4:14:46 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2011 4:14:46 PM
Xylenes, Total	ND	2.0		µg/L	1	8/7/2011 4:14:46 PM
Surr: 4-Bromofluorobenzene	72.6	89.6-125	S	%REC	1	8/7/2011 4:14:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11
Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-05

Client Sample ID: MW-3R
Collection Date: 7/28/2011 11:55:00 AM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 8:15:39 AM
Surr: DNOP	84.3	81.1-147		%REC	1	8/4/2011 8:15:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1.5	0.050		mg/L	1	8/5/2011 9:32:07 PM
Surr: BFB	493	65.4-141	S	%REC	1	8/5/2011 9:32:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	1.5	1.0		µg/L	1	8/5/2011 9:32:07 PM
Toluene	ND	1.0		µg/L	1	8/5/2011 9:32:07 PM
Ethylbenzene	ND	1.0		µg/L	1	8/5/2011 9:32:07 PM
Xylenes, Total	7.1	2.0		µg/L	1	8/5/2011 9:32:07 PM
Surr: 4-Bromofluorobenzene	144	89.6-125	S	%REC	1	8/5/2011 9:32:07 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-06

Client Sample ID: MW-13
Collection Date: 7/28/2011 12:55:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 8:50:16 AM
Surr: DNOP	100	81.1-147		%REC	1	8/4/2011 8:50:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 1:02:11 AM
Surr: BFB	94.0	65.4-141		%REC	1	8/6/2011 1:02:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 1:02:11 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 1:02:11 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 1:02:11 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 1:02:11 AM
Surr: 4-Bromofluorobenzene	86.7	89.6-125	S	%REC	1	8/6/2011 1:02:11 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-07

Client Sample ID: MW-6
Collection Date: 7/28/2011 1:35:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 9:25:09 AM
Surr: DNOP	111	81.1-147		%REC	1	8/4/2011 9:25:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 1:32:21 AM
Surr: BFB	86.4	65.4-141		%REC	1	8/6/2011 1:32:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 1:32:21 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 1:32:21 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 1:32:21 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 1:32:21 AM
Surr: 4-Bromofluorobenzene	77.8	89.6-125	S	%REC	1	8/6/2011 1:32:21 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-08

Client Sample ID: MW-11
Collection Date: 7/28/2011 2:35:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	1.7	1.0		mg/L	1	8/4/2011 9:59:46 AM
Surr: DNOP	115	81.1-147		%REC	1	8/4/2011 9:59:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	11	0.50		mg/L	10	8/7/2011 4:44:49 PM
Surr: BFB	117	65.4-141		%REC	10	8/7/2011 4:44:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	46	1.0		µg/L	1	8/8/2011 2:18:00 PM
Toluene	ND	1.0		µg/L	1	8/8/2011 2:02:26 AM
Ethylbenzene	38	1.0		µg/L	1	8/8/2011 2:02:26 AM
Xylenes, Total	76	2.0		µg/L	1	8/8/2011 2:02:26 AM
Surr: 4-Bromofluorobenzene	185	89.6-125	S	%REC	1	8/8/2011 2:02:26 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-09

Client Sample ID: MW-12
Collection Date: 7/28/2011 3:30:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	3.9	1.0		mg/L	1	8/4/2011 11:08:55 AM
Surr: DNOP	90.0	81.1-147		%REC	1	8/4/2011 11:08:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	54	2.5		mg/L	50	8/6/2011 3:02:29 AM
Surr: BFB	88.5	65.4-141		%REC	50	8/6/2011 3:02:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	12000	200		µg/L	200	8/7/2011 5:44:54 PM
Toluene	2300	50		µg/L	50	8/6/2011 3:02:29 AM
Ethylbenzene	320	50		µg/L	50	8/6/2011 3:02:29 AM
Xylenes, Total	3200	100		µg/L	50	8/6/2011 3:02:29 AM
Surr: 4-Bromofluorobenzene	87.6	89.6-125	S	%REC	50	8/6/2011 3:02:29 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value.
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-10

Client Sample ID: MW-16
Collection Date: 7/28/2011 4:50:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 11:43:49 AM
Surr: DNOP	86.7	81.1-147		%REC	1	8/4/2011 11:43:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.29	0.050		mg/L	1	8/6/2011 4:02:23 AM
Surr: BFB	120	65.4-141		%REC	1	8/6/2011 4:02:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	43	1.0		µg/L	1	8/6/2011 4:02:23 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 4:02:23 AM
Ethylbenzene	1.9	1.0		µg/L	1	8/6/2011 4:02:23 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 4:02:23 AM
Surr: 4-Bromofluorobenzene	92.8	89.6-125		%REC	1	8/6/2011 4:02:23 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-11

Client Sample ID: MW-7
Collection Date: 7/28/2011 5:30:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	2.7	1.0		mg/L	1	8/4/2011 12:18:23 PM
Surr: DNOP	99.8	81.1-147		%REC	1	8/4/2011 12:18:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	45	2.5		mg/L	50	8/7/2011 6:15:04 PM
Surr: BFB	110	65.4-141		%REC	50	8/7/2011 6:15:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	75	1.0		µg/L	1	8/8/2011 2:46:55 PM
Toluene	ND	5.0		µg/L	5	8/6/2011 4:32:27 AM
Ethylbenzene	200	5.0		µg/L	5	8/6/2011 4:32:27 AM
Xylenes, Total	62	10		µg/L	5	8/6/2011 4:32:27 AM
Surr: 4-Bromofluorobenzene	160	89.6-125	S	%REC	5	8/6/2011 4:32:27 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-38

Lab Order: 1108125

Collection Date: 7/29/2011 9:00:00 AM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-12

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 12:53:15 PM
Surr: DNOP	120	81.1-147		%REC	1	8/4/2011 12:53:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 5:32:52 AM
Surr: BFB	90.0	65.4-141		%REC	1	8/6/2011 5:32:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 5:32:52 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 5:32:52 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 5:32:52 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 5:32:52 AM
Surr: 4-Bromofluorobenzene	79.4	89.6-125	S	%REC	1	8/6/2011 5:32:52 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-36

Lab Order: 1108125

Collection Date: 7/29/2011 9:35:00 AM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-13

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 1:28:23 PM
Surr: DNOP	96.3	81.1-147		%REC	1	8/4/2011 1:28:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 6:02:49 AM
Surr: BFB	80.9	65.4-141		%REC	1	8/6/2011 6:02:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 6:02:49 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 6:02:49 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 6:02:49 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 6:02:49 AM
Surr: 4-Bromofluorobenzene	70.2	89.6-125	S	%REC	1	8/6/2011 6:02:49 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-9

Lab Order: 1108125

Collection Date: 7/29/2011 10:35:00 AM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-14

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8016B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 2:03:45 PM
Surr: DNOP	120	81.1-147		%REC	1	8/4/2011 2:03:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 6:32:52 AM
Surr: BFB	99.0	65.4-141		%REC	1	8/6/2011 6:32:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 6:32:52 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 6:32:52 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 6:32:52 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 6:32:52 AM
Surr: 4-Bromofluorobenzene	86.4	89.6-125	S	%REC	1	8/6/2011 6:32:52 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience

Client Sample ID: MW-41

Lab Order: 1108125

Collection Date: 7/29/2011 12:05:00 PM

Project: Largo CS

Date Received: 8/2/2011

Lab ID: 1108125-15

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 2:38:42 PM
Surr: DNOP	106	81.1-147		%REC	1	8/4/2011 2:38:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/6/2011 7:02:50 AM
Surr: BFB	82.8	65.4-141		%REC	1	8/6/2011 7:02:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/6/2011 7:02:50 AM
Toluene	ND	1.0		µg/L	1	8/6/2011 7:02:50 AM
Ethylbenzene	ND	1.0		µg/L	1	8/6/2011 7:02:50 AM
Xylenes, Total	ND	2.0		µg/L	1	8/6/2011 7:02:50 AM
Surr: 4-Bromofluorobenzene	71.6	89.6-125	S	%REC	1	8/6/2011 7:02:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-16

Client Sample ID: MW-43
Collection Date: 7/29/2011 12:45:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 3:13:16 PM
Surr: DNOP	94.5	81.1-147		%REC	1	8/4/2011 3:13:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/7/2011 7:15:05 PM
Surr: BFB	85.7	65.4-141		%REC	1	8/7/2011 7:15:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/7/2011 7:15:05 PM
Toluene	ND	1.0		µg/L	1	8/7/2011 7:15:05 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2011 7:15:05 PM
Xylenes, Total	ND	2.0		µg/L	1	8/7/2011 7:15:05 PM
Surr: 4-Bromofluorobenzene	80.2	89.6-125	S	%REC	1	8/7/2011 7:15:05 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-17

Client Sample ID: MW-32
Collection Date: 7/29/2011 1:35:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 8:58:54 PM
Surr: DNOP	123	81.1-147		%REC	1	8/4/2011 8:58:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/7/2011 7:45:10 PM
Surr: BFB	88.5	65.4-141		%REC	1	8/7/2011 7:45:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/7/2011 7:45:10 PM
Toluene	ND	1.0		µg/L	1	8/7/2011 7:45:10 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2011 7:45:10 PM
Xylenes, Total	ND	2.0		µg/L	1	8/7/2011 7:45:10 PM
Surr: 4-Bromofluorobenzene	81.4	89.8-125	S	%REC	1	8/7/2011 7:45:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-18

Client Sample ID: MW-34
Collection Date: 7/29/2011 2:10:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 9:33:17 PM
Surr: DNOP	98.8	81.1-147		%REC	1	8/4/2011 9:33:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/7/2011 8:15:11 PM
Surr: BFB	90.9	65.4-141		%REC	1	8/7/2011 8:15:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	8/7/2011 8:15:11 PM
Toluene	ND	1.0		µg/L	1	8/7/2011 8:15:11 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2011 8:15:11 PM
Xylenes, Total	ND	2.0		µg/L	1	8/7/2011 8:15:11 PM
Surr: 4-Bromofluorobenzene	85.1	89.6-125	S	%REC	1	8/7/2011 8:15:11 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Aug-11

Analytical Report

CLIENT: Southwest Geoscience
Lab Order: 1108125
Project: Largo CS
Lab ID: 1108125-19

Client Sample ID: MW-39
Collection Date: 7/29/2011 2:50:00 PM
Date Received: 8/2/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 10:07:46 PM
Surr: DNOP	96.5	81.1-147		%REC	1	8/4/2011 10:07:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.80	0.050		mg/L	1	8/7/2011 8:45:12 PM
Surr: BFB	89.2	65.4-141		%REC	1	8/7/2011 8:45:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	27	1.0		µg/L	1	8/8/2011 3:15:49 PM
Toluene	14	1.0		µg/L	1	8/7/2011 8:45:12 PM
Ethylbenzene	1.9	1.0		µg/L	1	8/7/2011 8:45:12 PM
Xylenes, Total	18	2.0		µg/L	1	8/7/2011 8:45:12 PM
Surr: 4-Bromofluorobenzene	89.7	89.6-125		%REC	1	8/7/2011 8:45:12 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Southwest Geoscience
Project: Largo CS

Work Order: 1108125

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-27883		MBLK									
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Sample ID: MB-27892		MBLK									
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Sample ID: LCS-27883		LCS									
Diesel Range Organics (DRO)	4.709	mg/L	1.0	5	0	94.2	74	157			
Sample ID: LCS-27892		LCS									
Diesel Range Organics (DRO)	5.754	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-27883		LCSD									
Diesel Range Organics (DRO)	4.828	mg/L	1.0	5	0	96.6	74	157	2.50	23	
Sample ID: LCSD-27892		LCSD									
Diesel Range Organics (DRO)	5.662	mg/L	1.0	5	0	113	74	157	1.61	23	

Method: EPA Method 8015B: Gasoline Range

Sample ID: 1108125-01A MSD		MSD									
Gasoline Range Organics (GRO)	0.5076	mg/L	0.050	0.5	0	102	66.1	127	2.41	15.5	
Sample ID: 1108125-16A MSD		MSD									
Gasoline Range Organics (GRO)	0.5202	mg/L	0.050	0.5	0	104	66.1	127	0.690	15.5	
Sample ID: 5ML-RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: B		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 5ML-RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5476	mg/L	0.050	0.5	0	110	92.1	117			
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5636	mg/L	0.050	0.5	0	113	92.1	117			
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5266	mg/L	0.050	0.5	0	106	92.1	117			
Sample ID: 1108125-01A MS		MS									
Gasoline Range Organics (GRO)	0.5200	mg/L	0.050	0.5	0	104	66.1	127			
Sample ID: 1108125-16A MS		MS									
Gasoline Range Organics (GRO)	0.5238	mg/L	0.050	0.5	0	105	66.1	127			

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Southwest Geoscience

Project: Largo CS

Work Order: 1108125

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB	MBLK										
Batch ID: R47061	Analysis Date: 8/5/2011 10:08:05 AM										
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: B	MBLK										
Batch ID: R47067	Analysis Date: 8/7/2011 3:44:47 PM										
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: B	MBLK										
Batch ID: R47043	Analysis Date: 8/8/2011 1:06:39 PM										
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ML-RB	MBLK										
Batch ID: R47098	Analysis Date: 8/10/2011 7:15:33 AM										
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS	LCS										
Batch ID: R47061	Analysis Date: 8/5/2011 12:37:14 PM										
Benzene	19.94	µg/L	1.0	20	0	99.7	80	120			
Toluene	20.11	µg/L	1.0	20	0	101	80	120			
Ethylbenzene	19.67	µg/L	1.0	20	0	98.3	80	120			
Xylenes, Total	60.17	µg/L	2.0	60	0	100	80	120			
Sample ID: 100NG BTEX LCS	LCS										
Batch ID: R47067	Analysis Date: 8/7/2011 3:14:40 PM										
Benzene	19.63	µg/L	1.0	20	0.15	97.4	80	120			
Toluene	19.66	µg/L	1.0	20	0.134	97.6	80	120			
Ethylbenzene	19.39	µg/L	1.0	20	0.168	96.1	80	120			
Xylenes, Total	58.38	µg/L	2.0	60	0	97.3	80	120			
Sample ID: 100NG BTEX LCS	LCS										
Batch ID: R47043	Analysis Date: 8/8/2011 12:37:45 PM										
Benzene	19.29	µg/L	1.0	20	0	96.5	80	120			
Toluene	19.88	µg/L	1.0	20	0	99.4	80	120			
Ethylbenzene	20.09	µg/L	1.0	20	0	100	80	120			
Xylenes, Total	60.93	µg/L	2.0	60	0	102	80	120			
Sample ID: 100NG BTEX LCS	LCS										
Batch ID: R47098	Analysis Date: 8/10/2011 12:03:31 PM										
Benzene	19.57	µg/L	1.0	20	0.174	97.0	80	120			
Toluene	19.62	µg/L	1.0	20	0	98.1	80	120			
Ethylbenzene	19.65	µg/L	1.0	20	0.124	97.6	80	120			
Xylenes, Total	60.90	µg/L	2.0	60	0	102	80	120			

Qualifiers:

E Estimated value

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limits

NC Non-Chlorinated

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SOUTHWEST GEOSCIENCE

Date Received:

8/2/2011

Work Order Number 1108125

Received by: LNM

Checklist completed by:

Signature

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	2.9°	<6° C Acceptable If given sufficient time to cool.	

Number of preserved
bottles checked for
pH:

<2 >12 unless noted
below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Southwest GEOSCIENCE Environmental & Hydrogeologic Consultants Office Location <u>Artec</u>						Laboratory: <u>Hall</u> Address: <u>Albuquerque</u> Contact: <u>Andy Freeman</u> Phone: <u>505 345 3975</u> PO/SO #: _____ Sampler's Signature: _____						ANALYSIS REQUESTED <u>TPH 68/DBD 80/5</u> <u>BTEX 80/21</u>						Lab use only Due Date: Temp. of coolers when received (C°): <u>29</u> 12345 Page <u>1</u> of <u>2</u>					
Proj. No.		Project Name		No./Type of Containers				Lab Sample ID (Lab Use Only)															
Matrix	Date	Time	C o m p	G r a b	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	P/O												
W	7/28/11	0850	X		MW-8			5			1108125 -1												
I		0925			MW-47						-2												
I		1020			MW-15						-3												
I		1105			MW-14						-4												
I		1155			MW-3R						-5												
I		1255			MW-13						-6												
I		1335			MW-6						-7												
I		1435			MW-11						-8												
I		1530			MW-12						-9												
I		1650			MW-16						-10												

Turn around time		☒ Normal		☐ 25% Rush		☐ 50% Rush		☐ 100% Rush		NOTES:	
Relinquished by (Signature)	<u>[Signature]</u>	Date:	<u>7/29/11</u>	Time:	<u>1645</u>	Received by: (Signature)	<u>[Signature]</u>	Date:	<u>7/29/11</u>	Time:	<u>1645</u>
Relinquished by (Signature)	<u>[Signature]</u>	Date:	<u>8/1/11</u>	Time:	<u>1710</u>	Received by: (Signature)	<u>[Signature]</u>	Date:	<u>8/2/11</u>	Time:	<u>0900</u>
Relinquished by (Signature)	<u>[Signature]</u>	Date:		Time:		Received by: (Signature)		Date:		Time:	
Relinquished by (Signature)	<u>[Signature]</u>	Date:		Time:		Received by: (Signature)		Date:		Time:	

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE Environmental & Hydrogeologic Consultants		Laboratory: <u>Hall</u> Address: <u>Albuquerque</u> Contact: _____ Phone: _____ PO/ISO #: _____		ANALYSIS REQUESTED TPH GRD/DRO 8015 BTEX 8021		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>29</u> 1 2 3 4 5 Page <u>2</u> of <u>2</u>																																																																																																																																																
Office Location: <u>Aztec</u> Project Manager: <u>K. Summers</u> Sampler's Name: <u>Nyle Summers</u>		Project Name: <u>Large CS</u> No/Type of Containers: _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Matrix</th> <th>Date</th> <th>Time</th> <th>C o m p</th> <th>G r a b</th> <th>Identifying Marks of Sample(s)</th> <th>Start Depth</th> <th>End Depth</th> <th>VOA</th> <th>AVG 1 L</th> <th>250 ml</th> <th>P/O</th> <th>Lab Sample ID (Lab Use Only)</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>7/28/11</td> <td>1730</td> <td></td> <td>X</td> <td>MW-7</td> <td></td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td>1108125-11</td> </tr> <tr> <td></td> <td>7/29/11</td> <td>0900</td> <td></td> <td></td> <td>MW-38</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-12</td> </tr> <tr> <td></td> <td></td> <td>0935</td> <td></td> <td></td> <td>MW-36</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-13</td> </tr> <tr> <td></td> <td></td> <td>1035</td> <td></td> <td></td> <td>MW-9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-14</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>MW-40 - M.S.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-15</td> </tr> <tr> <td></td> <td></td> <td>1205</td> <td></td> <td></td> <td>MW-41</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-16</td> </tr> <tr> <td></td> <td></td> <td>1245</td> <td></td> <td></td> <td>MW-43</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-17</td> </tr> <tr> <td></td> <td></td> <td>1335</td> <td></td> <td></td> <td>MW-32</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-18</td> </tr> <tr> <td></td> <td></td> <td>1410</td> <td></td> <td></td> <td>MW-34</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-19</td> </tr> <tr> <td></td> <td></td> <td>1450</td> <td></td> <td></td> <td>MW-39</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-20</td> </tr> </tbody> </table>				Matrix	Date	Time	C o m p	G r a b	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AVG 1 L	250 ml	P/O	Lab Sample ID (Lab Use Only)	W	7/28/11	1730		X	MW-7			5				1108125-11		7/29/11	0900			MW-38							-12			0935			MW-36							-13			1035			MW-9							-14						MW-40 - M.S.							-15			1205			MW-41							-16			1245			MW-43							-17			1335			MW-32							-18			1410			MW-34							-19			1450			MW-39							-20
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Matrix: <u>WW - Wastewater</u> Container: <u>VOA - 40 ml vial</u>		W - Water A/G - Amber / Or Glass 1 Liter		S - Soil SD - Solid 250 ml - Glass wide mouth		L - Liquid A - Air Bag C - Charcoal tube P/O - Plastic or other		SL - sludge O - Oil																																																																																																																																														