3R - 446

GWMR

12 / 08 / 2011

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

December 08, 2011

Return Receipt Requested
7010 1870 0001 2945 4429

Mr. Glen Von Gonten
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Quarterly Groundwater Monitoring Report
K-51 Pipeline Release Site
Off County Road 537
NE ¼ Section 34 & NW ¼, Sec 35, T26N, R6W
Rio Arriba County, New Mexico

Dear Mr. Von Gonten:

Enterprise Field Services, LLC (Enterprise) is submitting two (2) copies of the enclosed *Quarterly Groundwater Monitoring Report*, dated October 19, 2011, for the release site referenced above. A release of approximately 10 barrels of condensate occurred at this location on April 13, 2010. The enclosed report provides the results of the last quarterly groundwater monitoring event, conducted during September 2011. The results of this monitoring event indicate that several monitor well locations currently exceed applicable New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards.

Based on these results, Enterprise recommends performing additional site investigations to ensure that the full extent of affected soil and groundwater at the site are delineated. Also, based on the results from the initial insitu chemical treatment of affected soil and groundwater performed at the site during May 2011, additional treatment events will be required. Quarterly groundwater monitoring events shall be continued until site closure is completed.

Enterprise wishes to proceed with the additional site delineation investigation as soon as possible. Following completion of the site delineation investigation, additional corrective actions to complete treatment of affected soils and groundwater at the site will be proposed to the Oil Conservation Division (OCD). If you have any questions, or require additional information, please do not hesitate to contact me at (713) 381-2286, or drsmith@eprod.com.

Sincerely,

David R. Smith, P.G.
Sr. Environmental Scientist

Rodney M. Sartor, REM
Manager, Remediation

/dep
Enclosures

cc: Brandon Powell, New Mexico Oil Conservation Division, 1000 Rio Brazos Road, Aztec, NM 87410

ec: Chris Mitchell, Southwest Geoscience
Kyle Summers, Southwest Geoscience

P. O. BOX 4324
HOUSTON, TX 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TX 77002-5227
www.epplp.com

QUARTERLY GROUNDWATER MONITORING REPORT

Property:

K-51 Pipeline Release
Sections 34 and 35, T26N, R6W
Rio Arriba County, New Mexico
SWG Project No. 0410003
October 19, 2011

Prepared for:
Enterprise Field Services, LLC
1100 Louisiana Street
Houston, Texas 77002
Attention: Mr. David R. Smith, P.G.

PREPARED BY:

Kyle Summers, C.P.G.
Senior Geologist/
Manager, Four Corners Office

B. Chris Mitchell, P.G.
Principal Geoscientist

Southwest
606 S. Rio Grande Avenue
Unit A, Downstairs West
Aztec, NM 87410
Ph: (505) 334-5200
Fax: (505) 334-5204

TABLE OF CONTENTS

QUARTERLY GROUNDWATER MONITORING REPORT

K-51 Pipeline Release
Sections 34 and 35, T26N, R6W
Rio Arriba County, New Mexico

SWG Project No. 0410003

1.0 INTRODUCTION

1.1 Site Description & Background

The K-51 pipeline release site is located at the boundary of Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site consists of silty/sandy canyon bottomland with native grasses, and is crossed by a natural gas pipeline operated by Enterprise Field Services, LLC (Enterprise).

On April 13, 2010, approximately 10 barrels of natural gas condensate were released from the Enterprise natural gas gathering pipeline at the Site, due to internal corrosion. Subsequent to the completion of excavation and off-site disposal of petroleum hydrocarbon affected soils, confirmation soil samples were collected from the excavation by Souder, Miller and Associates (SMA). In addition, one (1) groundwater sample was collected from the groundwater which recharged into the excavation. The excavation was then backfilled with unaffected soils.

In June 2010, eight (8) soil borings (BH-1 through BH-8) were advanced on-site by LT Environmental (LTE). Subsequent to advancement, four (4) of the soil borings were converted to groundwater monitoring wells (MW-1 through MW-4). Based on the results of soil and groundwater sampling activities, constituent of concern (COC) concentrations were identified in soil above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* (RALs) and in groundwater above the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards (GQSs).*

During April 2011, nine (9) soil borings (SB-9, SB-10, MW-11 through MW-14, SB-15, MW-16, and MW-17) were advanced in and around the former K-51 release area to further delineate the dissolve phase COC plume. Additionally, fifteen (15) injection points were installed to allow In-Situ Chemical Oxidation (ISCO) of the COCs. ISCO activities were performed during May 2011, and groundwater was subsequently sampled during July 2011. Based on the results of post-ISCO sampling activities, COCs are present in groundwater above the New Mexico WECC GQSs.

The Site is subject to regulatory oversight by the New Mexico Energy, Minerals, and Natural Resources Department OCD. To address activities related to condensate releases, the New Mexico OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the 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.

A topographic map is included as Figure 1, a 2005 aerial photograph of the Site vicinity is included as Figure 2, and a Site plan is included as Figure 3 of Appendix A.

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 September 22, 2011 by Jordon Dubuisson, 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 not observed in any of the Site monitoring wells.

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 have been surveyed to determine 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. The observed gradient during this monitoring event was approximately 0.007 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event in September 2011 are presented with TOC elevations in Table 2, Appendix B. A groundwater gradient map depicting the most recent gauging data 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 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*. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

The groundwater samples collected from monitoring wells MW-2, MW-3, MW-11, MW-12, MW-13, MW-16 and MW-17 during the September 2011 sampling event did not exhibit benzene, toluene, ethylbenzene or xylenes concentrations above the respective WQCC *Groundwater Quality Standards*.

The groundwater samples collected from monitoring wells MW-1, MW-4 and MW-14 during the September 2011 sampling event exhibited benzene concentrations ranging from 62 µg/L to 690 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from monitoring well MW-1during the September 2011 sampling event exhibited a toluene concentration of 1,200 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-1 and MW-4 exhibited xylene concentrations of 1,200 µg/L and 820 µg/L, respectively, which exceed the WQCC *Groundwater Quality Standard* of 620 µg/L.

6.0 FINDINGS

During September 2011, SWG conducted a quarterly groundwater monitoring event at the K-51 Pipeline release site. The Site is located at the boundary of Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico. The Site consists of silty/sandy canyon bottomland with native grasses, and is crossed by a natural gas pipeline operated by Enterprise.

- During the completion of the sampling event, one (1) groundwater sample was collected from each monitoring well utilizing low-flow sampling techniques.

- The groundwater samples collected from monitoring wells MW-2, MW-3, MW-11, MW-12, MW-13, MW-16 and MW-17 during the September 2011 sampling event did not exhibit benzene, toluene, ethylbenzene or xylenes concentrations above the respective WQCC *Groundwater Quality Standards*.

- The groundwater samples collected from monitoring wells MW-1, MW-4 and MW-14 during the September 2011 sampling event exhibited benzene concentrations ranging from 62 µg/L to 690 µg/L, which exceed the WQCC ***Groundwater Quality Standard*** of 10 µg/L.

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- The groundwater samples collected from monitoring wells MW-1 and MW-4 exhibited xylene concentrations of 1,200 µg/L and 820 µg/L, respectively, which exceed the WQCC ***Groundwater Quality Standard*** of 620 µg/L.

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; and,

- Pursuant to the completion of supplemental site investigation activities, continue the evaluation and execution of corrective actions to 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***.

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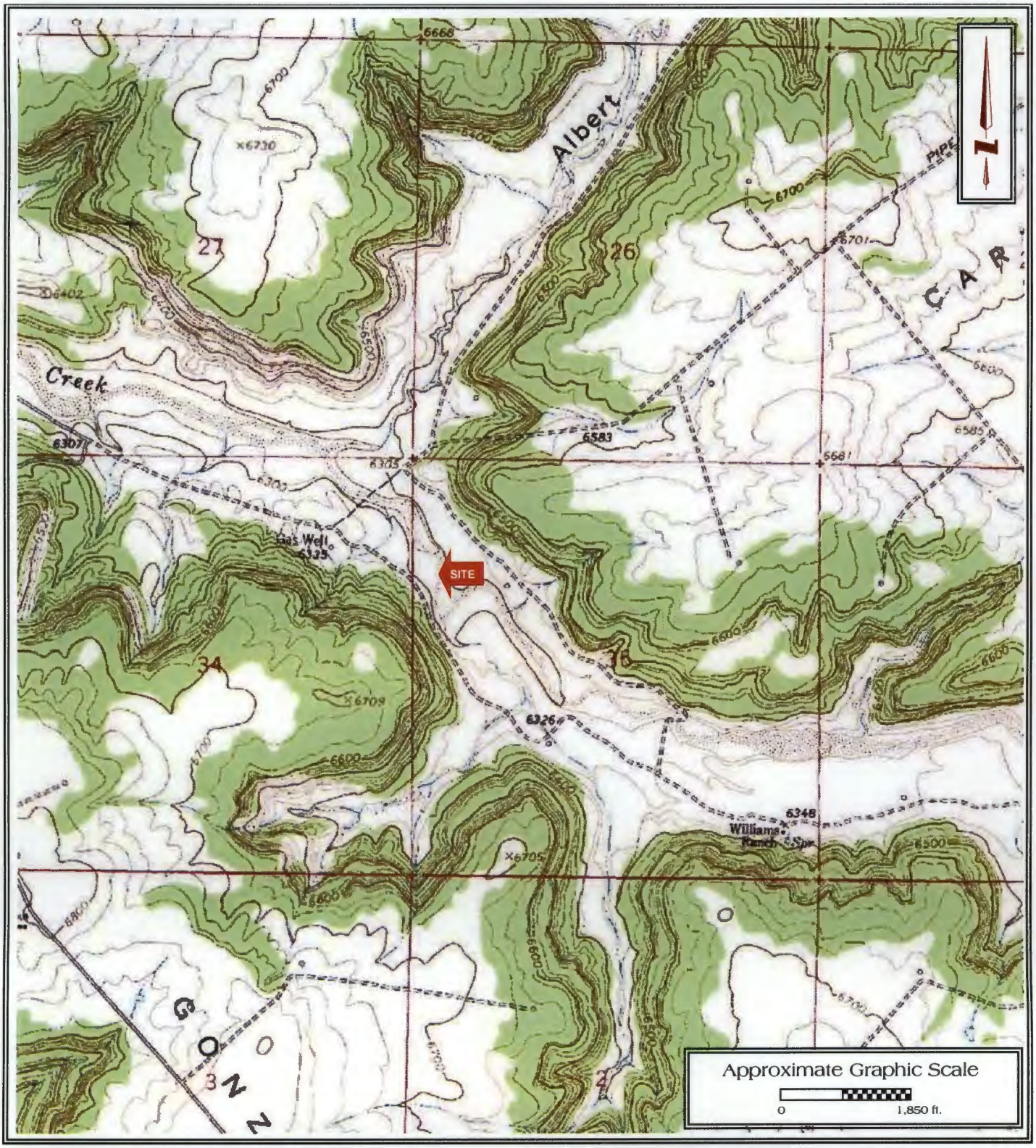
APPENDIX A

Figures



K-51 Pipeline Release
N36° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Arriba, New Mexico

SWG Project No. 0410003

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FIGURE 1
Topographic Map
Gonzales Mesa, NM Quadrangle
Contour Interval - 10 Feet

K-51 Pipeline Release
N36° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Arriba, New Mexico

SWG Project No. 0410003

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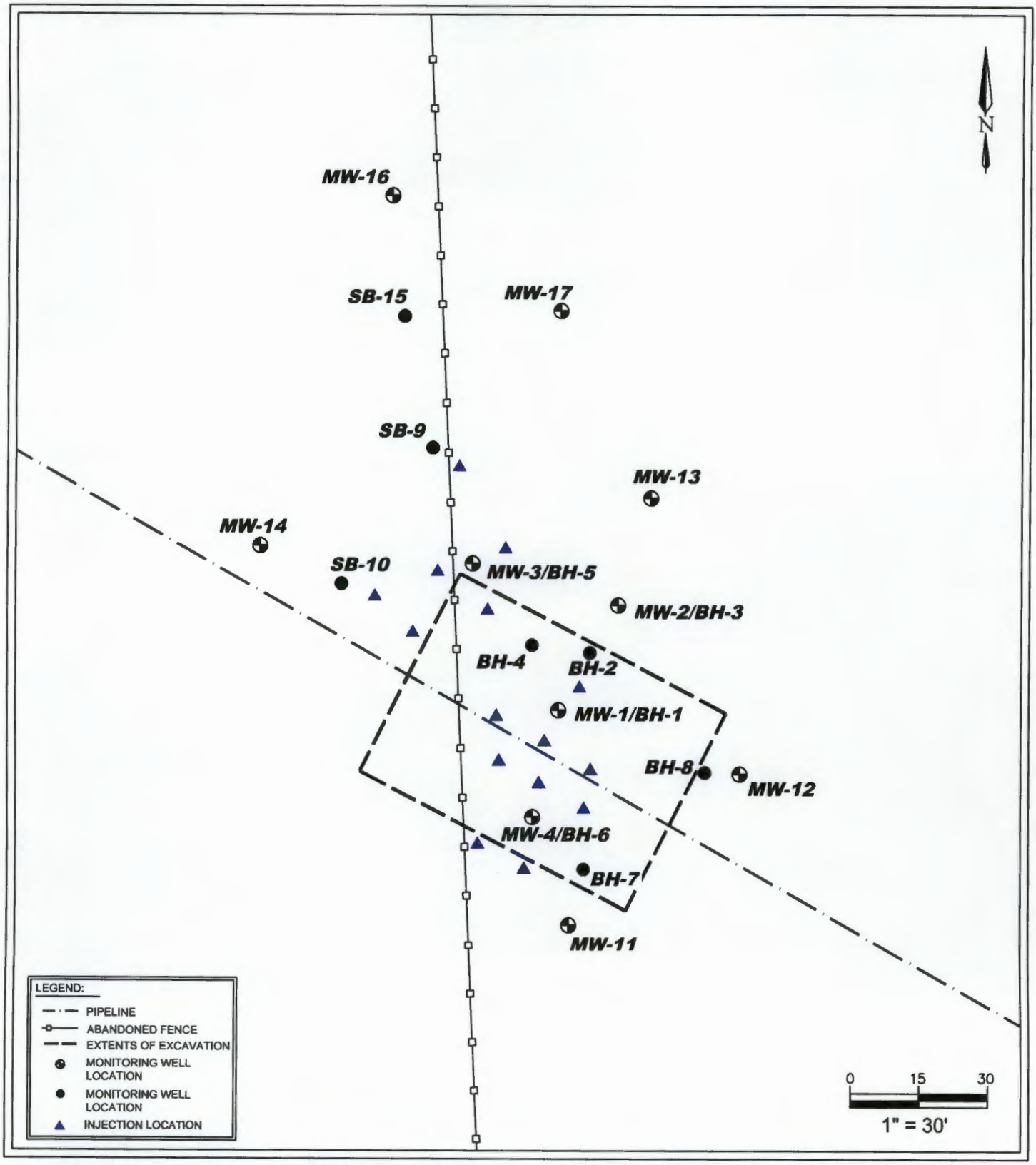
FIGURE 2
Site Vicinity Map
2005 Aerial Photograph



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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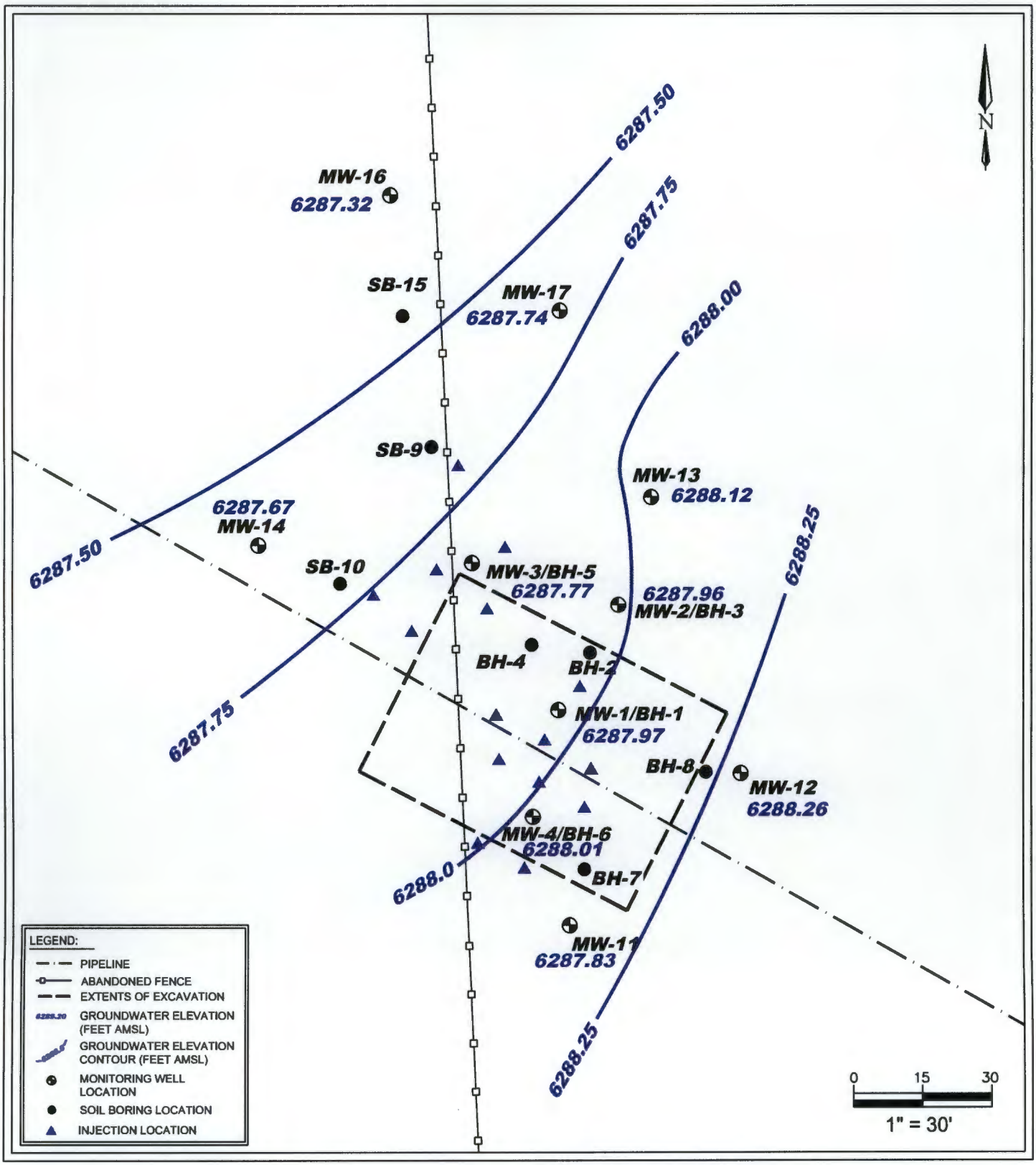
FIGURE 3

SITE MAP



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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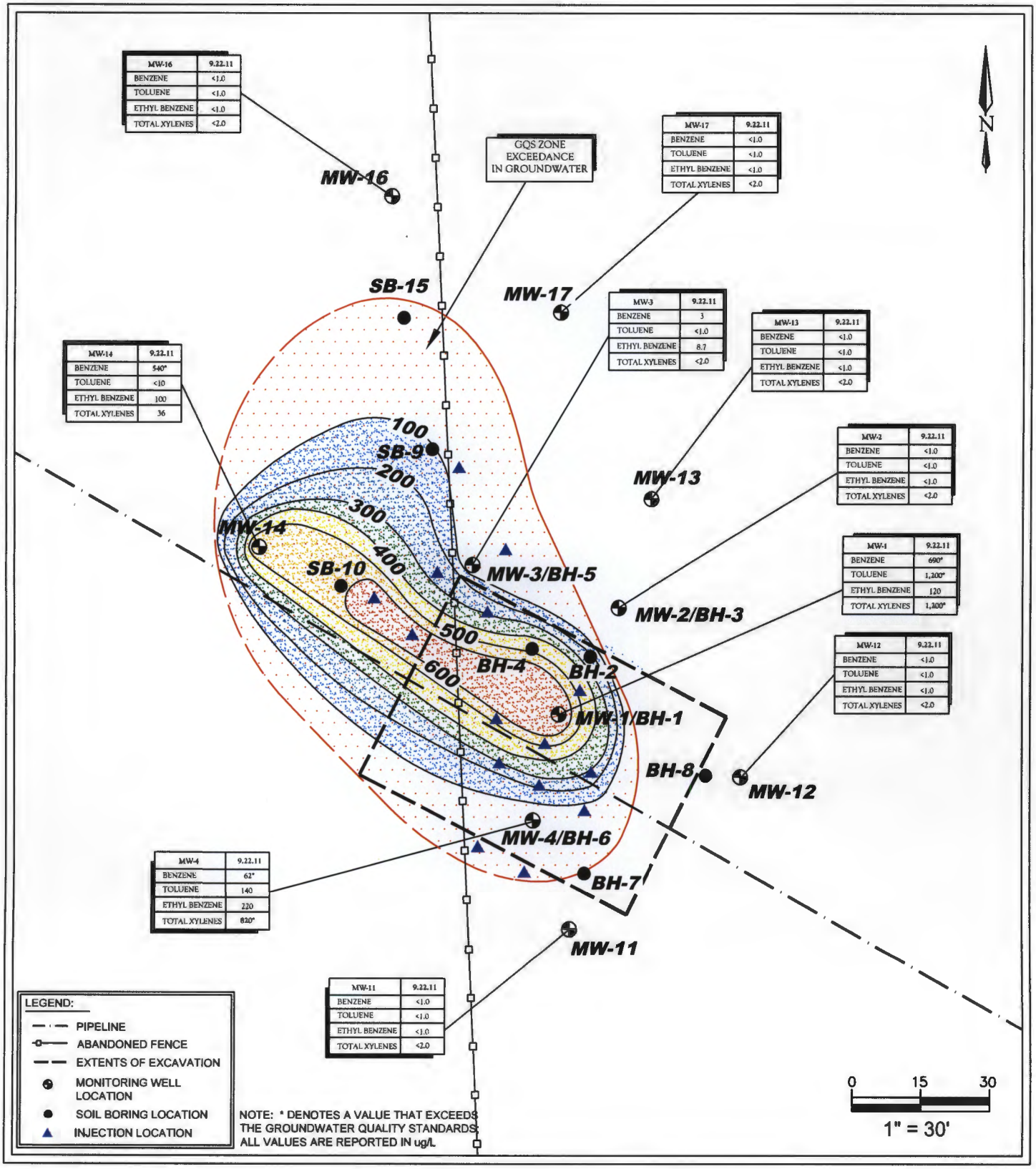
FIGURE 4

GROUNDWATER GRADIENT MAP

SEPTEMBER 2011



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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FIGURE 5

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE IN GROUNDWATER MAP

SEPTEMBER 22, 2011

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APPENDIX B

Tables

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TABLE 1
K-51 PIPELINE RELEASE
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	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 Commmission Groundwater Quality Standards		10	750	750	620	NE	NE
SMA Data from Open Excavation							
Excavation	4.21.10	**7,000**	**13,000**	540	**5,200**	NA	NA
SWG Groundwater Samples							
MW-1	6.21.10	**8,400**	**1,300**	560	**4,200**	NA	NA
	9.24.10	**2,300**	28	200	520	8.4	<1.0
	4.21.11	**430**	<20	120	60	2.1	<1.0
	6.21.11	**820**	370	33	140	5.1	130
	9.22.11	**690**	**1,200**	120	**1,200**	8.9	30
MW-2	6.21.10	**200**	53	14	96	NA	NA
	9.24.10	2.3	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.11	3.3	<1.0	<1.0	<2.0	0.065	<1.0
	6.21.11	2.2	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	6.21.10	**640**	57	72	**1,000**	NA	NA
	9.24.10	**150**	<1.0	16	28	0.48	<1.0
	4.21.11	**52**	<1.0	17	10	0.25	<1.0
	6.21.11	**62**	14	13	160	0.67	<1.0
	9.22.11	3	<1.0	8.7	<2.0	0.066	<1.0
MW-4	6.21.10	**3,600**	**10,000**	600	**6,600**	NA	NA
	9.24.10	**870**	**870**	260	**1,600**	12	1
	4.21.11	**670**	<20	520	**790**	6.3	<1.0
	6.21.11	**17**	22	36	77	0.64	1.1
	9.22.11	**62**	140	220	**820**	3.8	1.2
MW-11	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-12	4.21.11	1.9	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	4.6	<1.0	<1.0	<2.0	0.063	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14	4.21.11	**2,800**	<100	280	**720**	8.7	<1.0
	6.21.11	**470**	<10	37	210	1.9	<1.0
	9.22.11	**540**	<10	100	36	1.7	<1.0
MW-16	4.21.11	4.4	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
MW-17	4.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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

NA = Not Analyzed

NE = Not Established

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TABLE 2
K-51 Pipeline Release
GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation* (feet AMSL)
MW-1	4.21.11	ND	11.80	ND	6300.89	6289.09
MW-1	6.21.11	ND	12.16	ND	6300.89	6288.73
MW-1	9.22.11	ND	12.92	ND	6300.89	6287.97
MW-2	4.21.11	ND	10.55	ND	6299.82	6289.27
MW-2	6.21.11	ND	11.87	ND	6299.82	6287.95
MW-2	9.22.11	ND	11.86	ND	6299.82	6287.96
MW-3	4.21.11	ND	11.30	ND	6300.22	6288.92
MW-3	6.21.11	ND	11.64	ND	6300.22	6288.58
MW-3	9.22.11	ND	12.45	ND	6300.22	6287.77
MW-4	4.21.11	ND	11.90	ND	6300.91	6289.01
MW-4	6.21.11	ND	12.18	ND	6300.91	6288.73
MW-4	9.22.11	ND	12.90	ND	6300.91	6288.01
MW-11	4.21.11	ND	11.98	ND	6301.19	6289.21
MW-11	6.21.11	ND	12.40	ND	6301.19	6288.79
MW-11	9.22.11	ND	13.07	ND	6301.19	6288.12
MW-12	4.21.11	ND	8.96	ND	6299.08	6290.12
MW-12	6.21.11	ND	9.42	ND	6299.08	6289.66
MW-12	9.22.11	ND	10.82	ND	6299.08	6288.26
MW-13	4.21.11	ND	9.07	ND	6298.27	6289.20
MW-13	6.21.11	ND	9.51	ND	6298.27	6288.76
MW-13	9.22.11	ND	10.15	ND	6298.27	6288.12
MW-14	4.21.11	ND	12.54	ND	6301.20	6288.66
MW-14	6.21.11	ND	12.88	ND	6301.20	6288.32
MW-14	9.22.11	ND	13.53	ND	6301.20	6287.67
MW-16	4.21.11	ND	12.06	ND	6299.89	6287.83
MW-16	6.21.11	ND	12.26	ND	6299.89	6287.63
MW-16	9.22.11	ND	12.57	ND	6299.89	6287.32
MW-17	4.21.11	ND	9.90	ND	6298.57	6288.67
MW-17	6.21.11	ND	9.56	ND	6298.57	6289.01
MW-17	9.22.11	ND	10.83	ND	6298.57	6287.74

BTOC - below top of casing
AMSL - aboce mean sea level
TOC - top of casing
* - corrected for presence of phase-sepated hydrocarbon using a site-specific density correction factor of 0.63
ND - Not Detected

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APPENDIX C

Laboratory Data Reports & Chain-of-Custody Documentation

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, September 30, 2011

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

TEL: (903) 821-5603
FAX

RE: K 51 Release

Order No.: 1109898

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 9/23/2011 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: *30-Sep-11*

Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-13
Lab Order:	1109898	**Collection Date:**	9/22/2011 9:45:00 AM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-01	**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	9/27/2011 2:05:54 AM
Surr: DNOP	146	81.1-147		%REC	1	9/27/2011 2:05:54 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/27/2011 6:56:26 PM
Surr: BFB	90.4	65.4-141		%REC	1	9/27/2011 6:56:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/27/2011 6:56:26 PM
Toluene	ND	1.0		µg/L	1	9/27/2011 6:56:26 PM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2011 6:56:26 PM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2011 6:56:26 PM
Surr: 4-Bromofluorobenzene	96.5	76.5-115		%REC	1	9/27/2011 6:56:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-14
Lab Order:	1109898	**Collection Date:**	9/22/2011 10:30:00 AM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-02	**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	9/27/2011 2:40:18 AM
Surr: DNOP	127	81.1-147		%REC	1	9/27/2011 2:40:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1.7	0.50		mg/L	10	9/28/2011 7:33:48 PM
Surr: BFB	98.0	65.4-141		%REC	10	9/28/2011 7:33:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	540	10		µg/L	10	9/28/2011 7:33:48 PM
Toluene	ND	10		µg/L	10	9/28/2011 7:33:48 PM
Ethylbenzene	100	10		µg/L	10	9/28/2011 7:33:48 PM
Xylenes, Total	36	20		µg/L	10	9/28/2011 7:33:48 PM
Surr: 4-Bromofluorobenzene	99.9	76.5-115		%REC	10	9/28/2011 7:33:48 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-16
Lab Order:	1109898	**Collection Date:**	9/22/2011 11:00:00 AM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-03	**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	9/27/2011 3:14:25 AM
Surr: DNOP	129	81.1-147		%REC	1	9/27/2011 3:14:25 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.065	0.050		mg/L	1	9/27/2011 11:44:42 PM
Surr: BFB	103	65.4-141		%REC	1	9/27/2011 11:44:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/27/2011 11:44:42 PM
Toluene	ND	1.0		µg/L	1	9/27/2011 11:44:42 PM
Ethylbenzene	ND	1.0		µg/L	1	9/27/2011 11:44:42 PM
Xylenes, Total	ND	2.0		µg/L	1	9/27/2011 11:44:42 PM
Surr: 4-Bromofluorobenzene	100	76.5-115		%REC	1	9/27/2011 11:44:42 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-17
Lab Order:	1109898	**Collection Date:**	9/22/2011 11:20:00 AM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-04	**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	9/27/2011 3:48:34 AM
Surr: DNOP	129	81.1-147		%REC	1	9/27/2011 3:48:34 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/28/2011 12:13:27 AM
Surr: BFB	90.8	65.4-141		%REC	1	9/28/2011 12:13:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/28/2011 12:13:27 AM
Toluene	ND	1.0		µg/L	1	9/28/2011 12:13:27 AM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2011 12:13:27 AM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2011 12:13:27 AM
Surr: 4-Bromofluorobenzene	95.7	76.5-115		%REC	1	9/28/2011 12:13:27 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-2
Lab Order:	1109898	**Collection Date:**	9/22/2011 12:10:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-05	**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	9/27/2011 4:57:24 AM
Surr: DNOP	136	81.1-147		%REC	1	9/27/2011 4:57:24 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/28/2011 12:42:22 AM
Surr: BFB	90.8	65.4-141		%REC	1	9/28/2011 12:42:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/28/2011 12:42:22 AM
Toluene	ND	1.0		µg/L	1	9/28/2011 12:42:22 AM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2011 12:42:22 AM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2011 12:42:22 AM
Surr: 4-Bromofluorobenzene	96.0	76.5-115		%REC	1	9/28/2011 12:42:22 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-3
Lab Order:	1109898	**Collection Date:**	9/22/2011 12:40:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-06	**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	9/27/2011 5:31:32 AM
Surr: DNOP	141	81.1-147		%REC	1	9/27/2011 5:31:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	0.066	0.050		mg/L	1	9/28/2011 1:11:13 AM
Surr: BFB	104	65.4-141		%REC	1	9/28/2011 1:11:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	3.0	1.0		µg/L	1	9/28/2011 1:11:13 AM
Toluene	ND	1.0		µg/L	1	9/28/2011 1:11:13 AM
Ethylbenzene	8.7	1.0		µg/L	1	9/28/2011 1:11:13 AM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2011 1:11:13 AM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	1	9/28/2011 1:11:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-1
Lab Order:	1109898	**Collection Date:**	9/22/2011 1:15:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	30	1.0		mg/L	1	9/27/2011 6:05:23 AM
Surr: DNOP	152	81.1-147	S	%REC	1	9/27/2011 6:05:23 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	8.9	1.0		mg/L	20	9/28/2011 1:40:06 AM
Surr: BFB	93.4	65.4-141		%REC	20	9/28/2011 1:40:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	690	20		µg/L	20	9/28/2011 1:40:06 AM
Toluene	1200	20		µg/L	20	9/28/2011 1:40:06 AM
Ethylbenzene	120	20		µg/L	20	9/28/2011 1:40:06 AM
Xylenes, Total	1200	40		µg/L	20	9/28/2011 1:40:06 AM
Surr: 4-Bromofluorobenzene	98.5	76.5-115		%REC	20	9/28/2011 1:40:06 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-12
Lab Order:	1109898	**Collection Date:**	9/22/2011 1:50:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-08	**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	9/27/2011 6:39:32 AM
Surr: DNOP	125	81.1-147		%REC	1	9/27/2011 6:39:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/28/2011 2:08:53 AM
Surr: BFB	89.5	65.4-141		%REC	1	9/28/2011 2:08:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/28/2011 2:08:53 AM
Toluene	ND	1.0		µg/L	1	9/28/2011 2:08:53 AM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2011 2:08:53 AM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2011 2:08:53 AM
Surr: 4-Bromofluorobenzene	94.1	76.5-115		%REC	1	9/28/2011 2:08:53 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

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-4
Lab Order:	1109898	**Collection Date:**	9/22/2011 2:15:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	9/27/2011 7:13:42 AM
Surr: DNOP	127	81.1-147		%REC	1	9/27/2011 7:13:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	3.8	1.0		mg/L	20	9/28/2011 2:37:42 AM
Surr: BFB	99.6	65.4-141		%REC	20	9/28/2011 2:37:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	62	20		µg/L	20	9/28/2011 2:37:42 AM
Toluene	140	20		µg/L	20	9/28/2011 2:37:42 AM
Ethylbenzene	220	20		µg/L	20	9/28/2011 2:37:42 AM
Xylenes, Total	820	40		µg/L	20	9/28/2011 2:37:42 AM
Surr: 4-Bromofluorobenzene	102	76.5-115		%REC	20	9/28/2011 2:37:42 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Sep-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-11
Lab Order:	1109898	**Collection Date:**	9/22/2011 2:40:00 PM
Project:	K 51 Release	**Date Received:**	9/23/2011
Lab ID:	1109898-10	**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	9/27/2011 7:47:51 AM
Surr: DNOP	128	81.1-147		%REC	1	9/27/2011 7:47:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/28/2011 3:06:27 AM
Surr: BFB	91.3	65.4-141		%REC	1	9/28/2011 3:06:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	9/28/2011 3:06:27 AM
Toluene	ND	1.0		µg/L	1	9/28/2011 3:06:27 AM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2011 3:06:27 AM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2011 3:06:27 AM
Surr: 4-Bromofluorobenzene	97.4	76.5-115		%REC	1	9/28/2011 3:06:27 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

QA/QC SUMMARY REPORT

Client: Southwest Geoscience
Project: K 51 Release **Work Order:** 1109898

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-28571		*MBLK*				Batch ID:	**28571**	Analysis Date:		9/26/2011 8:21:25 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Sample ID: LCS-28571		*LCS*				Batch ID:	**28571**	Analysis Date:		9/26/2011 8:56:20 PM	
Diesel Range Organics (DRO)	4.613	mg/L	1.0	5	0	92.3	74	157			
Sample ID: LCSD-28571		*LCSD*				Batch ID:	**28571**	Analysis Date:		9/26/2011 9:30:28 PM	
Diesel Range Organics (DRO)	5.361	mg/L	1.0	5	0	107	74	157	15.0	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: b 1		*MBLK*				Batch ID:	**R48017**	Analysis Date:		9/27/2011 10:43:15 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: b 10		*MBLK*				Batch ID:	**R48048**	Analysis Date:		9/28/2011 2:01:37 PM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R48017**	Analysis Date:		9/27/2011 12:39:18 PM	
Gasoline Range Organics (GRO)	0.5532	mg/L	0.050	0.5	0	111	92.1	117			
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R48048**	Analysis Date:		9/28/2011 1:32:50 PM	
Gasoline Range Organics (GRO)	0.5608	mg/L	0.050	0.5	0	112	92.1	117			
Method: EPA Method 8021B: Volatiles											
Sample ID: b 1		*MBLK*				Batch ID:	**R48017**	Analysis Date:		9/27/2011 10:43:15 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 10		*MBLK*				Batch ID:	**R48048**	Analysis Date:		9/28/2011 2:01:37 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: 100NG BTEX LCS		*LCS*				Batch ID:	**R48017**	Analysis Date:		9/27/2011 1:08:11 PM	
Benzene	20.37	µg/L	1.0	20	0.4978	99.4	80	120			
Toluene	20.64	µg/L	1.0	20	0	103	80	120			
Ethylbenzene	20.66	µg/L	1.0	20	0	103	80	120			
Xylenes, Total	62.09	µg/L	2.0	60	0	103	80	120			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R48048**	Analysis Date:		9/28/2011 12:06:20 PM	
Benzene	19.79	µg/L	1.0	20	0.3166	97.4	80	120			
Toluene	19.61	µg/L	1.0	20	0.3746	96.2	80	120			
Ethylbenzene	19.93	µg/L	1.0	20	0.2626	98.3	80	120			
Xylenes, Total	59.56	µg/L	2.0	60	0	99.3	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: 9/23/2011

Work Order Number 1109898 | Received by: AMG

Checklist completed by: Signature 9/23/11 Date | Sample ID labels checked by: Initials

Matrix: | Carrier name Courier

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.2°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: ~~BASE~~ HALL Analytical

Address: Albuquerque, NM

Contact: Andy Freeman

Phone: (505) 345-3975

PO/SO #:

Sampler's Name: J. Dubuisson

Sampler's Signature:

Proj. No.: 0410003

Project Name: K-51 Release

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: BTEX 8021	TPH GRO/DRO 8016	Lab Sample ID (Lab Use Only)
W	9-22-11	0945		X	MW-13	—	—	4				X	X	1109898-1
↑	↑	1030		↑	MW-14	↑	↑	↑				↑	↑	-2
		1100			MW-16									-3
		1120			MW-17									-4
		1210			MW-2									-5
		1240			MW-3 DUP									-6
		1315			MW-1									-7
		1350			MW-12									-8
		1415			MW-4									-9
↓	↓	1440		↓	MW-11	↓	↓	↓				↓	↓	-10

Turn around time: (X) Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
J. Dubuisson	9-22-11	16:48	Mustafa Walker	9/22/11	1648
Mustafa Walker	9-23-11	810		9/23/11	1300

NOTES: 2.2°C

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; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other