3R-1011

Release Report/ General Correspondence

Trunk 2B Gathering line

Date:5/23/14

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services	Contact: Thomas Long
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name **Trunk 2B Gathering Line**	Facility Type: Natural gas gathering line

Surface Owner: Navajo	Mineral Owner BLM	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	7	27N	11W					San Juan

Latitude N 36.594763 **Longitude** W 108.053748

NATURE OF RELEASE

Type of Release: Natural Gas Pipeline Release	Volume of Release Unknown	Volume Recovered: TBD (Dig and Haul Scheduled)
Source of Release: Corrosion hole	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 5.23.2013 @ 10:00 hours
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RCVD FEB 3'14
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During a routine line patrol conducted by Enterprise, evidence of a pipeline leak was discovered on the lateral 2B right of way. Enterprise operations isolated the pipeline and removed it from service. A one-call was submitted and repairs were made to the pipe leak location.

Describe Area Affected and Cleanup Action Taken.* A third party environmental contractor was dispatched to the leak location to delineate any impacted soil at the location. Approximately 320 cubic yards of petroleum contaminated soil was excavated and transported to an OCD permitted land farm facility. Additional delineation was performed by installing nine (9) soil borings to determine residual subsurface hydrocarbon This "final" c-141 report includes a third party corrective action report.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

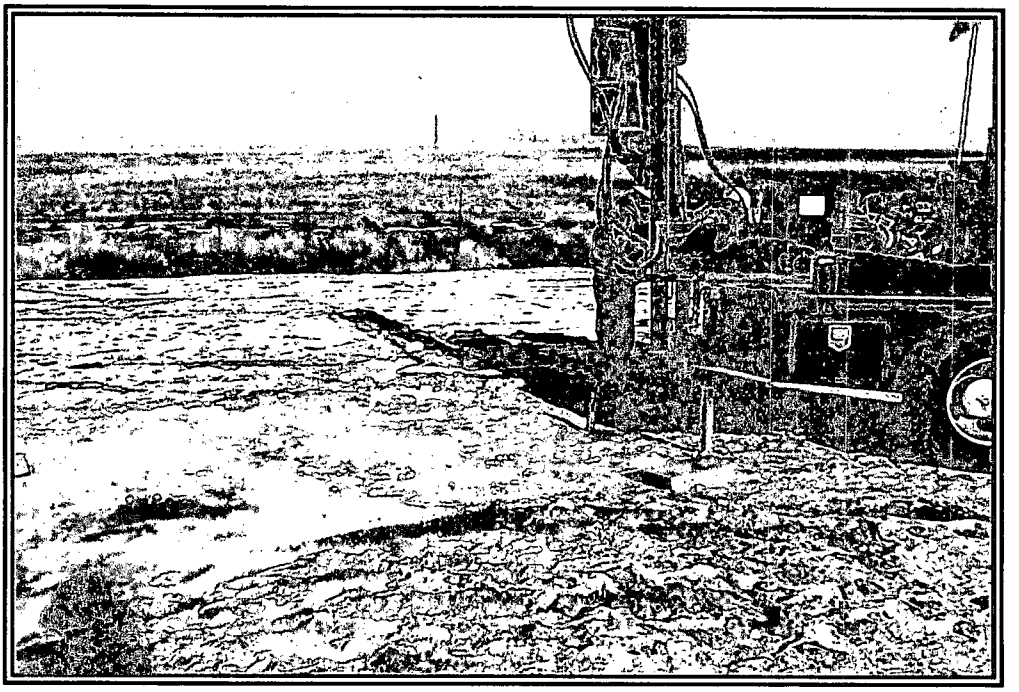
Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Sr. Director, Environmental	Approval Date: 5/14/14 Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 1-29-2014 Phone: 713-381-6684	

* Attach Additional Sheets If Necessary

#NCS 1413441243

Enterprise Products
Trunk 2B Pipeline Release
Latitude: North 36.594763 Longitude: West -108.053748
SW ¼, NW ¼ (UNIT E) Section 7 T27N R11W
San Juan County, New Mexico

December 31, 2013



Submitted To:

Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:

Souder, Miller & Associates
2101 San Juan Boulevard
Farmington, NM 87401
(505) 325-7535

Table of Contents

Figures:

Tables:

Appendices:

1.0 Executive Summary

On May 23, 2013 a pipeline release was reported on the Enterprise Products Trunk 2B Pipeline. , Souder, Miller & Associates (SMA) responded to the release from May 28, 2013 through December 17, 2013. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION					
Name	Trunk 2B				
Location	Latitude/Longitude		Section, Township, Range		
	36.594763	-108.053748	Unit E (SW ¼ NW ¼)	Section 7	T27N, R11W
Date Reported	May 23, 2013				
	Aaron Dailey				
Land Owner	Navajo Nation, Navajo Agricultural Products Industry (NAPI)				
Reported To	New Mexico Oil Conservation Division (NMOCD) and Navajo Nation Environmental Protection Agency (NNEPA), Navajo Ag. Products Ind. (NAPI) and Bureau of Land Management (BLM)				
Diameter of Pipeline	10 inches				
Source of Release	Over Pressure				
Release Contents	Natural Gas Liquids/Condensate				
Release Volume	Unknown				
Nearest Waterway	Unnamed Irrigation canal/pond				
Depth to Groundwater	Assumed to be greater than 50 feet, but less than 100 feet.				
Nearest Domestic Water Source	Greater than 1000 feet				
NMOCD Ranking	40				
SMA Response Dates	5/28/13, 7/15/13, 10/2/13, 12/16-12/17/13				
Subcontractors	West States Energy Contractors (WSEC), Kyvek Energy Services, Industrial Ecosystems, Inc (IEI)				
Disposal Facility	Envirotech Inc., Hill Top Landfarm				
Yd^3 Contaminated Soil Excavated and Disposed	320 cubic yards				

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Trunk 2B pipeline release. The Trunk 2B pipeline release was a result of over pressurization of the steel pipeline. The release was reported May 23, 2013. The release is located in Unit E (SW ¼, NW ¼) Section 7, Township 27 North, Range 11; GPS coordinates of North 36.594763, West -108.053748, in San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located on land owned by the Navajo Agricultural Products Industry with an elevation of approximately 6,100 feet above sea level. The release is located approximately 950 feet south of an unnamed irrigation pond and canal. After evaluation of the sites using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No wells are located in Section 7 of T27N-R11W. No wells were located within 1000 feet from the release location or within one mile of the release location.

The physical location of this release is within the jurisdiction of NAPI and NNEPA. In the absence of NNEPA regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standard. This release location has been assigned a NMOCD ranking of 40 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On May 28, 2013, SMA mobilized to the site to delineate the release area by the use of a hand auger and collecting samples for field screening with a calibrated photoionization detector (PID). SMA reported the results and provided a Proposed Excavation Map (included as Figure 3) to Enterprise personnel. WSEC repaired the release point. SMA was not onsite during excavation activities, however, and it was unclear whether all excavated hydrocarbon impacted soils associated with the hydrocarbon release were removed, and may have been used to partially backfill the excavation.

SMA requested that the impacted soils be excavated and hauled for disposal. Approximately 320 cubic yards were excavated and transported to Envirotech's Hill Top

Landfarm for disposal; however SMA was not onsite to oversee the excavation and collect closure samples. On October 2, 2013, SMA returned to the site to collect samples for field screening with a calibrated organic vapor analyzer equipped with a photo ionization detector (PID). The field screening indicated that most of the excavation was below standards, however, no closure samples were collected.

On December 6, 2013, Enterprise requested that SMA retain a drilling rig to collect closure samples. Kyvek Energy Services provided a track mounted Geoprobe drill rig to further delineate and collect closure samples. On December 16 and 17, 2013, SMA personnel guided the drilling activities by collecting soil samples for field screening with a calibrated PID.

The drilling depth ranged from approximately 0 to 12 feet below ground surface (bgs). Locations of the soil borings ranged from seven feet north and south of the Trunk 2B line, and spanned approximately 30 feet along the length of the pipeline. In all, nine soil borings were drilled to various depths, ranging from 8 to 12 feet bgs. In general, fill material was observed from the surface to approximately 6 to 8 feet bgs; native white sand and/or clay material was observed at approximately 8 to 10 feet bgs; a white sandstone bedrock layer was observed at approximately 9 to 12 feet bgs. Table 3 summarizes the field screening results of each sampling event.

SMA collected 10 soil samples from the soil borings from depths ranging from 4-12 feet bgs. Field screening of drill cuttings determined the location from which laboratory samples were to be collected. The field samples with the highest PID readings were collected and submitted for laboratory analysis.

All laboratory soil samples from the excavation were field screened with a calibrated PID and submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico. Figure 4 illustrates the extent of the drilling soil sample locations, and laboratory results.

Approximately 320 cubic yards of hydrocarbon contaminated soil were excavated and transported to Envirotech, Inc. Landfarm, near Bloomfield, New Mexico for proper disposal. Approximately 320 cubic yards of clean backfill material was imported to the site. Soil disposal documentation is included in Appendix C.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Laboratory analysis of the drilling samples detected benzene, total BTEX, and

TPH (GRO/DRO) at concentrations above the NMOCD Guidelines in only one location, GP-2 at 5 to 8 feet bgs with concentrations of <0.074 ppm benzene, 4.26 ppm total BTEX, and 197 ppm GRO/DRO. The next deeper sample collected (GP-2 at 8 to 10 feet bgs) did not contain detectable concentrations of any contaminants analyzed; therefore, SMA believes GP-2 at 5-8 feet bgs is an isolated zone of contamination that has minimal potential to impact ground water or other receptors. The vertical extent of contamination is defined within the vadose zone above the water table. Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 4. Laboratory reports are included in Appendix D.

SMA recommends no further action at this site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Steven Moskal or Reid Allan at 505-325-7535.

Submitted by:

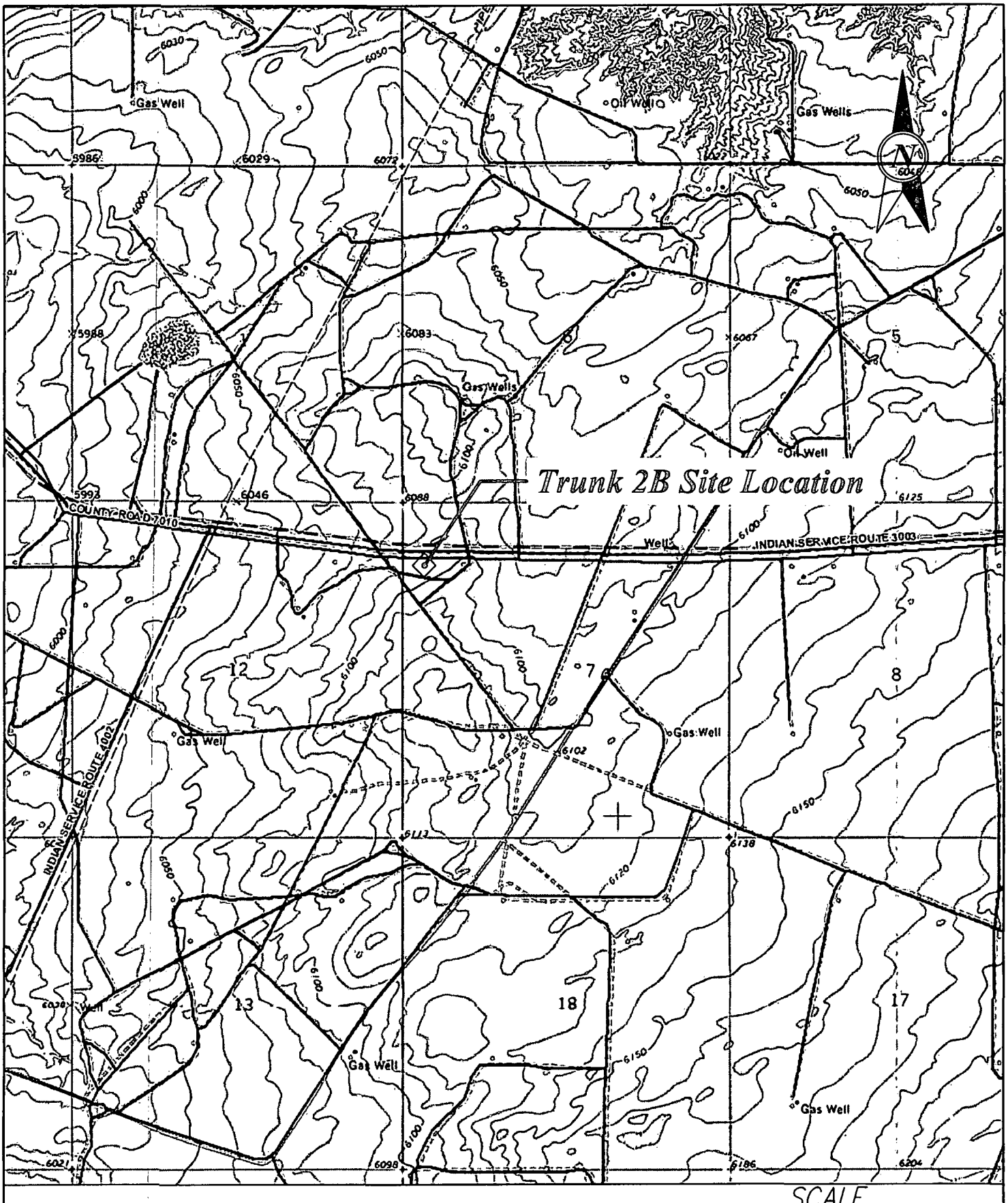
SOUDER, MILLER & ASSOCIATES

Steven J. Moskal
Project Scientist

Reviewed by:

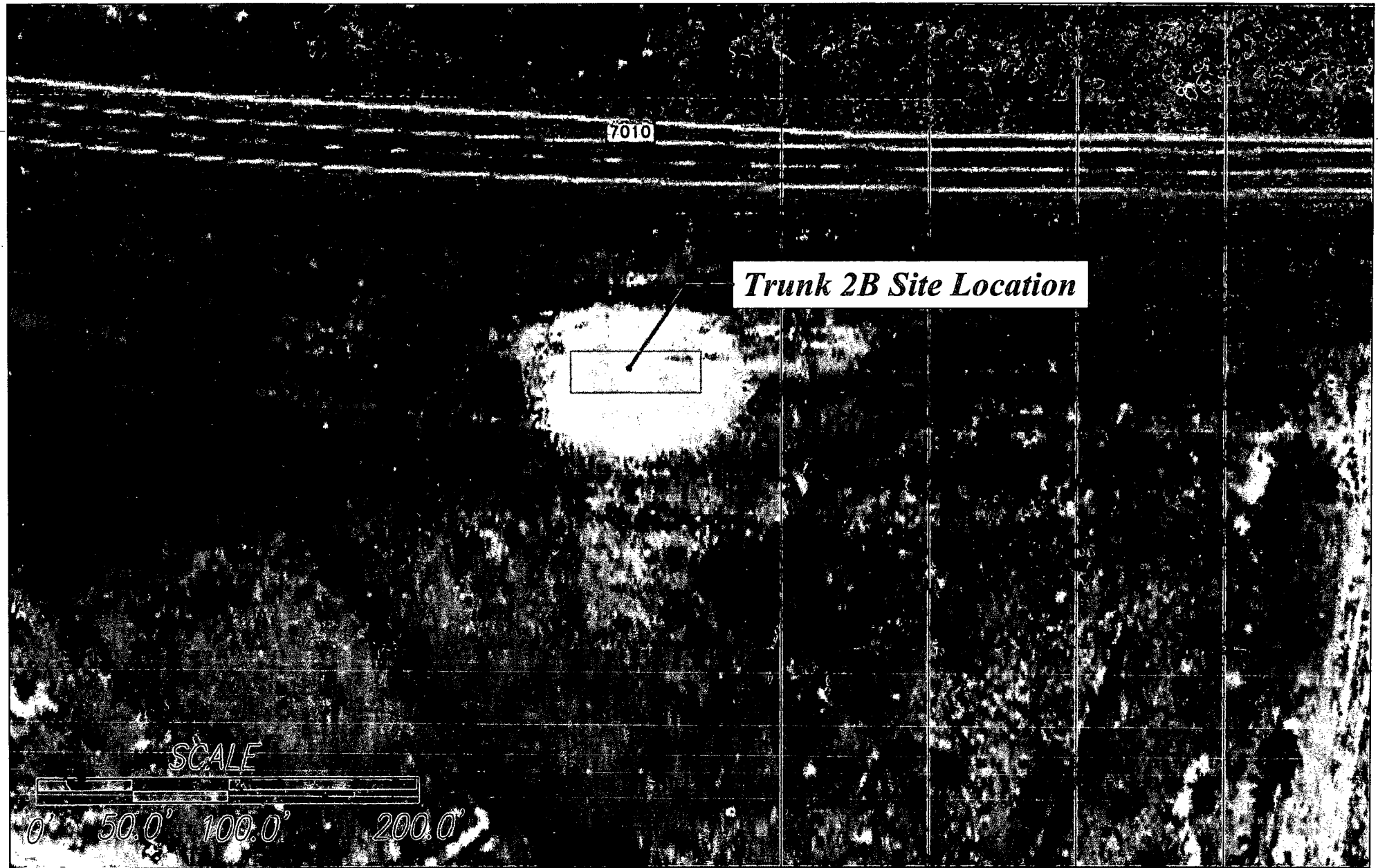
Reid S. Allan, PG
Principal Scientist

FIGURES



SMA Civil / Environmental Scientists & Engineers 2101 SAN JUAN BLVD FARMINGTON, NM 87401 FAX (505) 327-1496 PH. (505) 325-5667	APPROVED: RSA	DATE: 12/27/2013
	DRAWN BY: SMOSKAL	DATE: 12/24/2013
	REVISIONS BY:	DATE:
	PROJECT # 5122104	FIGURE: 1

VICINITY MAP
TRUNK 2B
UNIT E SECTION 7 T27N R11W
SAN JUAN COUNTY, NEW MEXICO



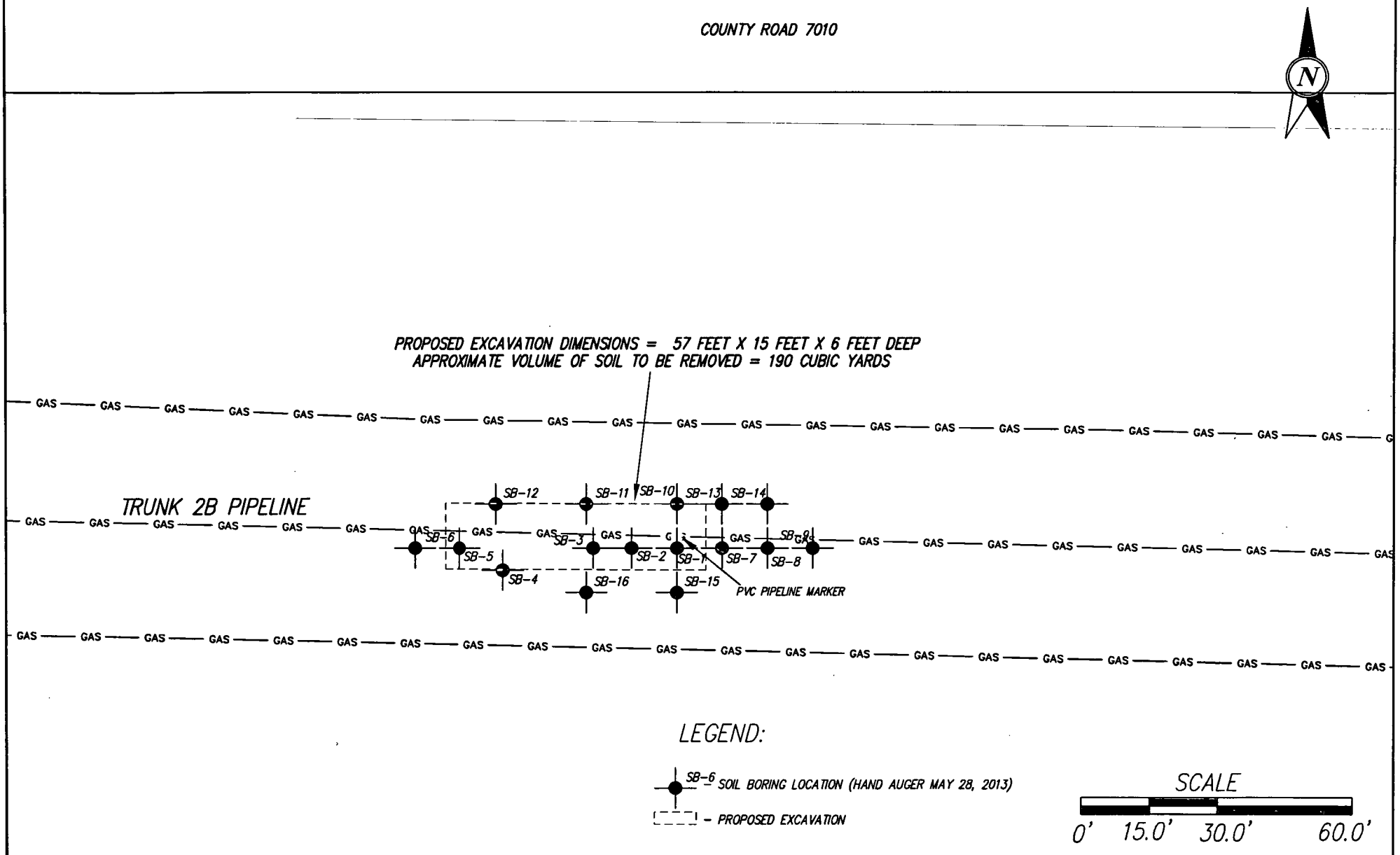
SMA
Civil / Environmental
Scientists & Engineers

2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA	DATE: 12/27/2013
DRAWN BY: SMOSKAL	DATE: 12/24/2013
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 2

SITE LOCATION
MAP
TRUNK 2B
UNIT E SECTION 7 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

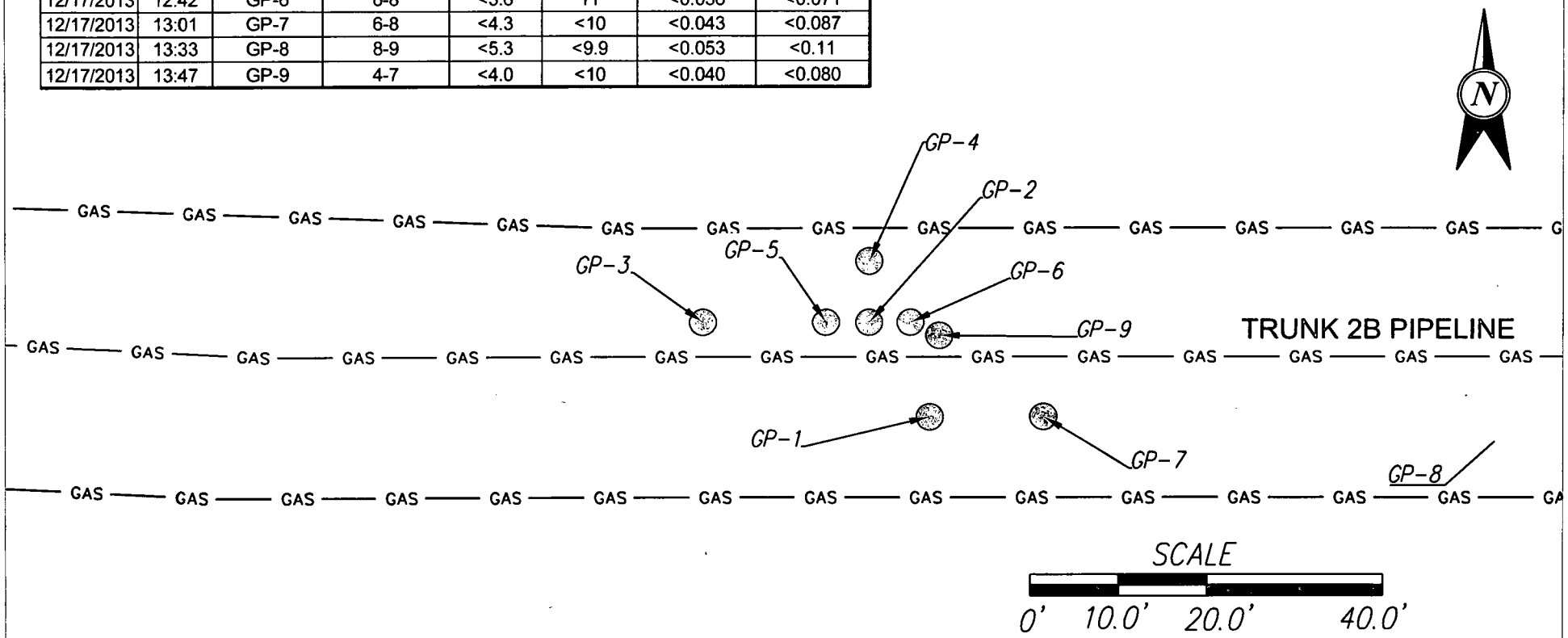


SMA
Civil / Environmental Scientists & Engineers
2101 SAN JUAN BLVD
FARMINGTON, NM 87401
FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA	DATE: 05/28/2013
DRAWN BY: TLONG	DATE: 05/28/2013
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 3

SITE MAP AND PROPOSED EXCAVATION MAP
TRUNK 2B
UNIT E SECTION 7 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
10/2/2013	11:02	SB-8	7	250.0	290	<0.25	37.4
12/16/2013	12:20	GP-1	8-10	<4.4	<10	<0.044	<0.088
12/17/2013	10:22	GP-2*	5-8	**67**	**130**	<0.074	4.26
12/17/2013	10:41	GP-2	8-10	<4.6	<10	<0.046	<0.092
12/17/2013	10:57	GP-3*	8-12	<5.3	<10	<0.053	<0.11
12/17/2013	11:47	GP-4	8-9	<4.5	<9.9	<0.045	<0.089
12/17/2013	12:03	GP-5	6-8	3.7	10	<0.034	0.23
12/17/2013	12:42	GP-6	6-8	<3.6	11	<0.036	<0.071
12/17/2013	13:01	GP-7	6-8	<4.3	<10	<0.043	<0.087
12/17/2013	13:33	GP-8	8-9	<5.3	<9.9	<0.053	<0.11
12/17/2013	13:47	GP-9	4-7	<4.0	<10	<0.040	<0.080



SMA
Civil / Environmental Scientists & Engineers
2101 SAN JUAN BLVD
FARMINGTON, NM 87401
FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA	DATE: 12/24/2013
DRAWN BY: SMOSKAL	DATE: 12/27/2013
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 4

SOIL BORING AND CONTAMINANT CONCENTRATION MAP
TRUNK 2B
UNIT E SECTION 7 T27N R11W
SAN JUAN COUNTY, NEW MEXICO

TABLES

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		USGS Topo Maps; Google Earth	Release is located on/near NAPI Elevation = 6100 feet, nearby pond elevation 6120 feet
50' to 99' = 10	10		
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	**NMOCD Numeric Rank for this Site**	**Source for Ranking**	**Notes**
< 200' = 20		USGS Topo Maps; Google Earth (Release location is in a wash)	Irrigation pond ~950 south of the site.
200'-1000' = 10	10		
>1000'			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	**NMOCD Numeric Rank for this Site**	**Source for Ranking**	**Notes**
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	20	NM State Engineer Water Well Database/ Aerial photograph.	No wells in Sections 5 or 6
Total Site Ranking	**40**		
Soil Remedation Standards	0 to 9	10 to 19	**>19**
Benzene	10 PPM	10 PPM	**10 PPM**
BTEX	50 PPM	50 PPM	**50 PPM**
TPH	5000 PPM	1000 PPM	**100 PPM**

Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results in PPM	Lab Sample Collected Y/N
5/28/2013	10:25	SB-1	1	176.0	N
5/28/2013	10:26	SB-1	2	580.0	N
5/28/2013	10:27	SB-1	3	188.0	N
5/28/2013	10:28	SB-1	4	151.0	N
5/28/2013	10:29	SB-1	5	118.0	N
5/28/2013	14:34	SB-1	6	16.0	N
5/28/2013	14:35	SB-1	7	45.0	N
5/28/2013	10:30	SB-2	1	622.0	N
5/28/2013	10:31	SB-2	2	501.0	N
5/28/2013	10:32	SB-2	3	932.0	N
5/28/2013	10:33	SB-2	4	884.0	N
5/28/2013	10:34	SB-2	5	1558.0	N
5/28/2013	14:36	SB-2	6	200.0	N
5/28/2013	14:37	SB-2	7	105.0	N
5/28/2013	10:35	SB-3	1	1934.0	N
5/28/2013	10:36	SB-3	2	987.0	N
5/28/2013	10:37	SB-3	3	1156.0	N
5/28/2013	10:38	SB-3	4	879.0	N
5/28/2013	11:16	SB-4	1	324.0	N
5/28/2013	11:17	SB-4	2	49.0	N
5/28/2013	1:18	SB-4	3	57.0	N
5/28/2013	11:19	SB-4	4	69.0	N
5/28/2013	11:20	SB-4	5	64.0	N
5/28/2013	11:21	SB-5	1	1251.0	N
5/28/2013	11:22	SB-5	2	1042.0	N
5/28/2013	11:23	SB-5	3	3009.0	N
5/28/2013	11:24	SB-5	4	708.0	N
5/28/2013	11:25	SB-5	5	413.0	N
5/28/2013	11:26	SB-6	1	58.0	N
5/28/2013	11:27	SB-6	2	74.0	N
5/28/2013	11:28	SB-6	3	101.0	N
5/28/2013	11:29	SB-6	4	112.0	N
5/28/2013	11:30	SB-6	5	104.0	N
5/28/2013	11:53	SB-7	1	51.0	N
5/28/2013	11:54	SB-7	2	130.0	N
5/28/2013	11:55	SB-7	3	77.0	N
5/28/2013	11:56	SB-7	4	49.0	N
5/28/2013	11:57	SB-7	5	58.0	N
5/28/2013	11:58	SB-8	1	44.0	N
5/28/2013	11:59	SB-8	2	41.0	N
5/28/2013	12:00	SB-8	3	47.0	N
5/28/2013	10:01	SB-8	4	52.0	N
5/28/2013	12:02	SB-8	5	52.0	N

Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results in PPM	Lab Sample Collected Y/N
5/28/2013	12:03	SB-9	1	5.0	N
5/28/2013	12:04	SB-9	2	1.7	N
5/28/2013	12:05	SB-9	3	9.0	N
5/28/2013	12:06	SB-9	4	9.0	N
5/28/2013	12:07	SB-9	5	12.0	N
5/28/2013	12:51	SB-10	1	150.0	N
5/28/2013	12:52	SB-10	2	46.0	N
5/28/2013	12:53	SB-10	3	54.0	N
5/28/2013	12:54	SB-10	4	54.0	N
5/28/2013	12:55	SB-11	1	1005.0	N
5/28/2013	12:56	SB-11	2	1107.0	N
5/28/2013	12:57	SB-11	3	557.0	N
5/28/2013	12:58	SB-11	4	323.0	N
5/28/2013	12:59	SB-11	5	26.0	N
5/28/2013	13:00	SB-12	1	25.0	N
5/28/2013	13:01	SB-12	2	5.0	N
5/28/2013	13:02	SB-12	3	27.0	N
5/28/2013	13:03	SB-12	4	45.0	N
5/28/2013	13:04	SB-12	5	13.0	N
5/28/2013	13:55	SB-13	1	41.0	N
5/28/2013	13:56	SB-13	2	68.0	N
5/28/2013	13:56	SB-13	3	38.0	N
5/28/2013	13:56	SB-13	4	17.0	N
5/28/2013	13:57	SB-13	5	26.0	N
5/28/2013	13:58	SB-14	1	17.0	N
5/28/2013	13:59	SB-14	2	7.0	N
5/28/2013	14:00	SB-14	3	5.0	N
5/28/2013	14:01	SB-14	4	6.0	N
5/28/2013	14:02	SB-14	5	23.0	N
5/28/2013	14:03	SB-15	1	97.0	N
5/28/2013	14:04	SB-15	2	82.0	N
5/28/2013	14:05	SB-15	3	19.0	N
5/28/2013	14:06	SB-15	4	124.0	N
5/28/2013	14:07	SB-15	5	172.0	N
5/28/2013	14:08	SB-16	1	32.0	N
5/28/2013	14:09	SB-16	2	70.0	N
5/28/2013	14:10	SB-16	3	31.0	N
5/28/2013	14:11	SB-16	4	22.0	N
5/28/2013	14:12	SB-16	5	24.0	N

Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results in PPM	Lab Sample Collected Y/N
12/16/2013	11:18	GP-1	0-4	2.7	N
12/16/2013	11:28	GP-1	4-6	1.3	N
12/16/2013	11:28	GP-1	6-8	8.4	N
12/16/2013	11:52	GP-1	8-10	2.3	Y
12/16/2013	11:52	GP-1	10-12	3.5	N
12/17/2013	10:16	GP-2	0-4	13.7	N
12/17/2013	10:16	GP-2	2-4	41.3	N
12/17/2013	10:22	GP-2	4-5	62.5	N
12/17/2013	10:22	GP-2	5-8	1481.0	Y
12/17/2013	10:30	GP-2	8-10	128.6	Y
12/17/2013	10:44	GP-3	0-4	1.1	N
12/17/2013	10:46	GP-3	4-6	0.8	N
12/17/2013	10:46	GP-3	6-8	1.1	N
12/17/2013	10:50	GP-3	8-12	0.5	Y
12/17/2013	11:20	GP-4	0-4	23.3	N
12/17/2013	11:25	GP-4	4-6	6.9	N
12/17/2013	11:25	GP-4	6-8	5.5	N
12/17/2013	11:30	GP-4	8-9	0.4	Y
12/17/2013	11:48	GP-5	0-4	33.6	N
12/17/2013	11:56	GP-5	4-6	103.7	N
12/17/2013	11:56	GP-5	6-8	268.3	Y
12/17/2013	12:21	GP-6	0-4	5.2	N
12/17/2013	12:32	GP-6	4-6	68.5	N
12/17/2013	12:32	GP-6	6-8	102.2	Y
12/17/2013	12:44	GP-7	0-2	1.2	N
12/17/2013	12:44	GP-7	2-4	0.8	N
12/17/2013	12:49	GP-7	4-6	5.1	N
12/17/2013	12:49	GP-7	6-8	2.6	Y
12/17/2013	12:54	GP-7	8-9	0.4	N
12/17/2013	12:54	GP-7	9-10	0.5	N
12/17/2013	13:10	GP-8	0-2	0.7	N
12/17/2013	13:10	GP-8	2-4	0.3	N
12/17/2013	13:15	GP-8	4-6	0.2	N
12/17/2013	13:15	GP-8	6-8	0.1	N
12/17/2013	13:21	GP-8	8-9	0.1	Y
12/17/2013	13:21	GP-8	9-10	0.3	N
12/17/2013	13:31	GP-9	0-4	0.1	N
12/17/2013	13:34	GP-9	4-7	0.7	Y
12/17/2013	13:34	GP-9	7-8	0.4	N
12/17/2013	13:40	GP-9	8-9	0.6	N
12/17/2013	13:40	GP-9	9-10	0.9	N

Enterprise Products
Table 4: Summary of Laboratory Analysis
Results in mg/kg

Trunk 2B
Pipeline Release
12/27/13

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
10/2/2013	11:02	SB-8	7	250.0	290	<0.25	37.4
12/16/2013	12:20	GP-1	8-10	<4.4	<10	<0.044	<0.088
12/17/2013	10:22	GP-2*	5-8	**67**	**130**	<0.074	4.26
12/17/2013	10:41	GP-2	8-10	<4.6	<10	<0.046	<0.092
12/17/2013	10:57	GP-3*	8-12	<5.3	<10	<0.053	<0.11
12/17/2013	11:47	GP-4	8-9	<4.5	<9.9	<0.045	<0.089
12/17/2013	12:03	GP-5	6-8	3.7	10	<0.034	0.23
12/17/2013	12:42	GP-6	6-8	<3.6	11	<0.036	<0.071
12/17/2013	13:01	GP-7	6-8	<4.3	<10	<0.043	<0.087
12/17/2013	13:33	GP-8	8-9	<5.3	<9.9	<0.053	<0.11
12/17/2013	13:47	GP-9	4-7	<4.0	<10	<0.040	<0.080

* NOTE: sample names were switched on laboratory labels and chain-of-custody; table correctly identifies results.

APPENDIX A

FIELD NOTES

SUBJECT: Trunk 2B

CLIENT: EPCO

PROJECT:

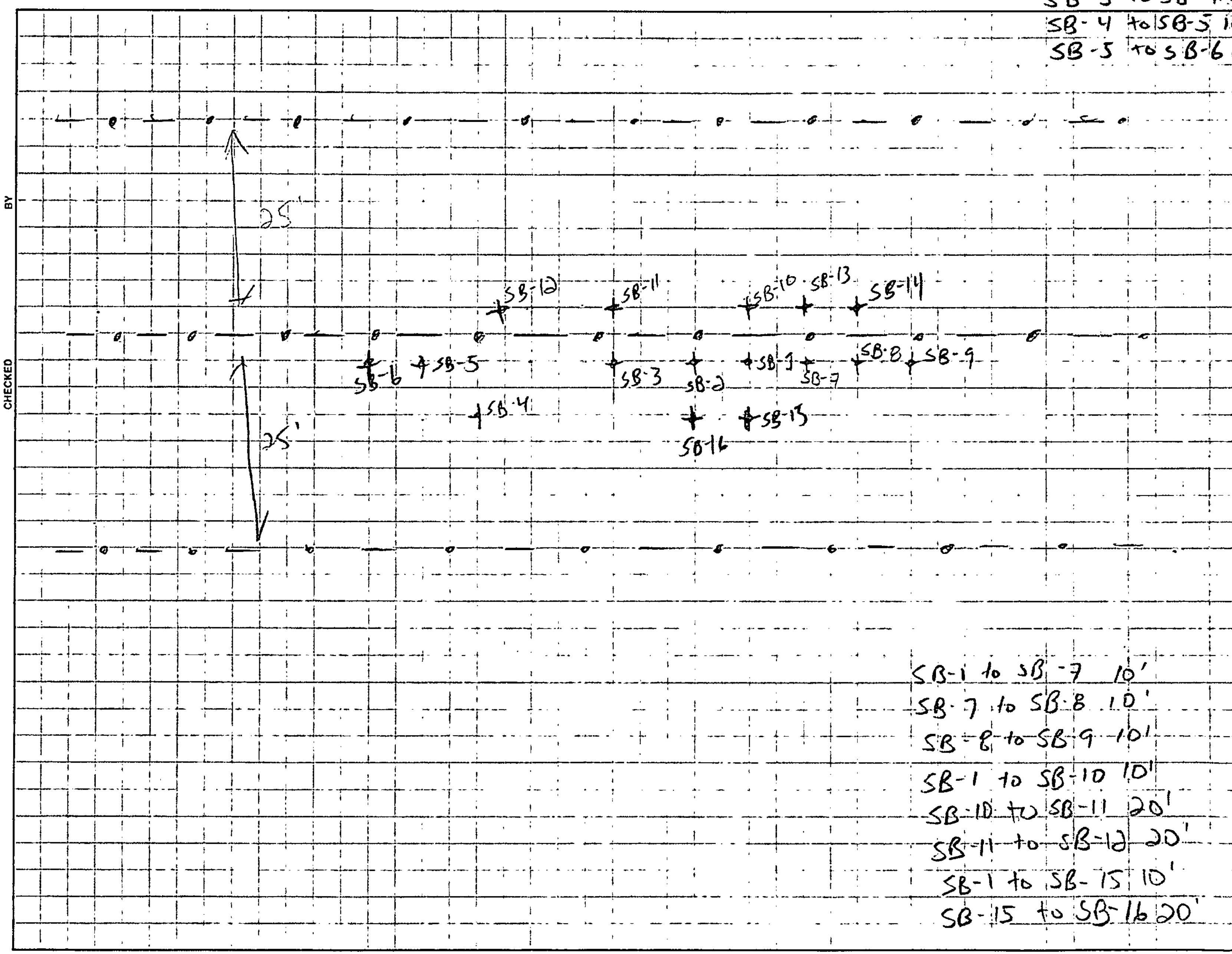
DATE: 5-28-13 BY: [initials]

CHECKED: BY:

PAGE:

↑N CR 7010

SB 1 to SB-2 10'
SB2 to SB-3 10'
SB-3 to SB-4 20'
SB-4 to SB-5 10'
SB-5 to SB-6 10'



SB-1 to SB-7 10'
SB-7 to SB-8 10'
SB-8 to SB-9 10'
SB-1 to SB-10 10'
SB-10 to SB-11 20'
SB-11 to SB-12 20'
SB-1 to SB-15 10'
SB-15 to SB-16 20'

SOUDER, MILLER & ASSOCIATES Serving - New Mexico • Colorado • Arizona • Utah

SUBJECT | PROJECT | PAGE

CLIENT | DATE | BY

CHECKED | BY

0930 : onsite, Excavation Backfill, call A.D.

0935 A.D wants SMA to delineate release with a Hand Auger and ok's another man to help.

1030 Steve onsite to help

1435 finished installing SB's ; load

1445 offsite

SUBJECT Trunk 2B PROJECT PAGE

CLIENT EPCO DATE 5-28-13 BY TJL

CHECKED BY

		Time	PID	Time
SB-1	1'	0940	176ppm	1025
SB-1	2'	0942	580 ppm	1026
SB-1	3'	0944	188 ppm	1027
SB-1	4'	0946	151 ppm	1028
SB-1	5'	0948	118 ppm	1029
SB-2	1'	1001	622ppm	1030
SB-2	2'	1003	501 ppm	1031
SB-2	3'	1005	932 ppm	1032
SB-2	4'	1007	884 ppm	1033
SB-2	5'	1009	1558 ppm	1034
SB-3	1'	1013	1934 ppm	1035
SB-3	2'	1015	987 ppm	1036
SB-3	3'	1017	1156 ppm	1037
SB-3	4'	1020	879 ppm	1038
SB-3	5'	1025	Sand falls out of Auger	

SUBJECT Transect 2B PROJECT PAGE

CLIENT EPCO DATE 5-22-13 BY TSL

CHECKED BY

		Time	PID	Time
SB-4	1'	1038	324 ppm	1116
SB-4	2'	1041	49 ppm	1117
SB-4	3'	1043	57 ppm	1118
SB-4	4'	1045	69 ppm	1119
SB-4	5'	1047	64 ppm	1120
SB-5	1'	1050	125 ppm	1121
SB-5	2'	1052	1042 ppm	1122
SB-5	3'	1054	3009 ppm	1123
SB-5	4'	1056	708 ppm	1124
SB-5	5'	1058	413 ppm	1125
SB-6	1'	1112	58 ppm	1126
SB-6	2'	1113	74 ppm	1127
SB-6	3'	1115	101 ppm	1128
SB-6	4'	1117	112 ppm	1129
SB-6	5'	1119	104 ppm	1130

SUBJECT Trunk 2B PROJECT PAGE

CLIENT EPCO DATE 5-28-13 BY TJL

CHECKED BY

		Time	PID	Time
SB-7	1'	1141	51 ppm	1153
SB-7	2'	1142	130 ppm	1154
SB-7	3'	1143	79 ppm	1155
SB-7	4'	1144	49 ppm	1156
SB-7	5'	1145	58 ppm	1157
SB-8	1'	1147	44 ppm	1158
SB-8	2'	1148	41 ppm	1159
SB-8	3'	1149	47 ppm	1200
SB-8	4'	1150	52 ppm	1201
SB-8	5'	1151	52 ppm	1202
SB-9	1'	1153	5 ppm	1203
SB-9	2'	1154	1.7 ppm	1204
SB-9	3'	1155	9 ppm	1205
SB-9	4'	1156	9 ppm	1206
SB-9	5'	1157	12 ppm	1207

SUBJECT Trunk 2B PROJECT PAGE

CLIENT EPCO DATE 5-28-13 BY TJL

CHECKED BY

	Time	PID	Time
SB-10 1'	1220	150 ppm	1251
SB-10 2'	1222	46 ppm	1252
SB-10 3'	1224	54 ppm	1253
SB-10 4'	1226	54 ppm	1254
SB-11 1'	1228	1005 ppm	1255
SB-11 2'	1229	1107 ppm	1256
SB-11 3'	1230	557 ppm	1257
SB-11 4'			
SB-11 ~~5~~	1232	26 ppm	1258
SB-12 1' ~~2'~~	1236	25 ppm	1300
SB-12 2'	1238	5 ppm	1301
SB-12 3'	1240	27 ppm	1302
SB-12 4'	1242	45 ppm	1303
SB-12 5'	1244	13 ppm	1304

SUBJECT Trunk 2B PROJECT PAGE

CLIENT EPCO DATE 5-28-13 BY TJL

CHECKED BY

	Collected	PPM	Field Screen Time
SB-13 @1'	1305	411	1355
SB-13 @2'	1307	68	1356
SB-13 @3'	1308	38	1356
SB-13 @4'	1310	17	1356
SB-13 @5'	1312	26	1357
SB-14 @1'	1314	17	1358
SB-14 @2'	1313	7	1359
SB-14 @3'	1315	5	1400
SB-14 @4'	1317	6	1401
SB-14 @5'	1320	23	1402
SB-15 @1'	1322	97	1403
SB-15 @2'	1324	82	1404
SB-15 @3'	1326	19	1405
SB-15 @4'	1328	129	1406
SB-15 @5'	1330	172	1407
SB-16 @1'	1334	32	1408
SB-16 @2'	1336	70	1409
SB-16 @3'	1338	31	1410
SB-16 @4'	1340	22	1411
SB-16 @5'	1342	24	1413

SUBJECT Truck 2B PROJECT PAGE

CLIENT BPO DATE 5-28-13 BY TJL

CHECKED BY

		Time	PPM	Time
SB-1	6'	1415	16ppm	1434
SB-1	7'	1417	45ppm	1435
SB-2	6'	1419	200ppm	1436
SB-2	7'	1421	105ppm	1437

SUBJECT Trunk 2B Soil Borings PROJECT 5122104 PAGE

CLIENT Enterprise DATE 12-16-13 BY

CHECKED BY

Arrive onsite @ 0915

Hydroexcavate (IEI) begin @ 1025 offsite @ 1130
- N pipe @ 1' depth
- mid @ 3'

Start geoprobe @ SB3 flag @ 1115

~~0-4'~~

Name/Depth	Time	PPM	PID time	Sample
~~SB3~~ GP1 0-4 (loose)	1118	2.7	1135	N
GP2 4-6 (clay)	1128	1.3	1143	N
6-8 (dry, sandy)	1128	8.4	1208	N
GP1 8-10	1152	2.3	1220	Y
10-12 (rocky sandy)	1152	3.5	1214	N
GP1 12'				

Geoprobe stuck

Leave site @ 1400

RCI - 1007805

SUBJECT Trunk 2B PROJECT 5122104 PAGE 1

CLIENT Enterprise DATE 12-17-13 BY

CHECKED BY

Arrive onsite @ 10:00
Kyvek here
Buck w/Enterprise. @ 10:0. Work permit

GP2 @ 8-10
I
GP3 @ 8-12

Begin probe @ 10:15

GP2 - near SB 8 - N of 2B Inc

Name	Time	PPM	PID Time	Sample	Notes
GP2@0-2	1016	13.7	1034	N	odor
2-4	1016	413	1035	N	
GP2@4-5	1022	625	1036	N	
@5-8	1022	1481	1038	Y	changes to sand
GP2@8-10	1030	128.6	1041	Y ?	no odor, white sand
GP3 - 15' W of GP2					
GP3@0-4	1044	1.1	1058	N	
GP3@4-6	1046	0.8	1054	N	no odor
GP3@6-8	1046	1.1	1056	N	
GP3@8-12	1050	0.5	1057	Y	hard SS
GP4 - 7' N of GP3, still S of outside Inc					
GP4@0-4	1120	23.3	1142	N	
GP4@4-6	1125	6.9	1143	N	
6-8	1125	5.5	1145	N	
GP4 8-9	1130	0.4	1147	Y	hard SS
GP5 - 5' W of GP2 btwn 2 & 3					
GP5@0-4	1148	33.6	1200	N	
GP5@4-6	1156	103.7	1202	N	slight odor
6-8	1156	268.3	1203	Y	native white sand
GP6 - 7' E of GP2					
GP6@0-4	1221	52	1240	N	red
GP6@4-6	1232	68.5	1241	N	white sand
6-8	1232	102.2	1242	Y	bottom 2" saturated

SUBJECT Trunk 2B PROJECT PAGE 2

CLIENT DATE 12-17-13 BY

CHECKED BY

GP7 ~7' E of GP1, S of 2B, just W of concrete markers

Name	Time	PPM	PID time	Sample	Notes
GP7@0-2	1244	1.2	1259	N	red fill
2-4	1244	0.8	1300	N	red fill, more compact w/ white
GP7@4-6	1249	5.1	1300	N	red fill
6-8	1249	2.6	1301	Y	red fill compact w/ white rocks
GP7@8-9	1254	0.4	1307	N	white
9-10	1254	0.5	1308	N	slight grey shale odor

GP8 - near SB9 & 10 on E end, ~20' E of GP7

Name	Time	PPM	PID time	Sample	Notes
GP8@0-2	1310	0.7	1324		
2-4	1310	0.3	1325		
GP8@4-6	1315	0.2	1326		loose, not full recov.
6-8	1315	0.1	1327		bottom 2" white, compacted
GP8@8-9	1321	0.1	1333	Y	sand/clay w/
9-10	1321	0.3	1334	N	white clay

GP9 directly N of GP1, N of pipe

Name	Time	PPM	PID time	Sample	Notes
GP9@0-4	1331	0.1	1343	N	loose
GP9@4-6	1334	0.7	1347	Y	red fill
6-8	1334	0.4	1347	N	white sand
GP9 8-9	1340	0.6	1355	N	compacted white
9-10	1340	0.9	1356	N	

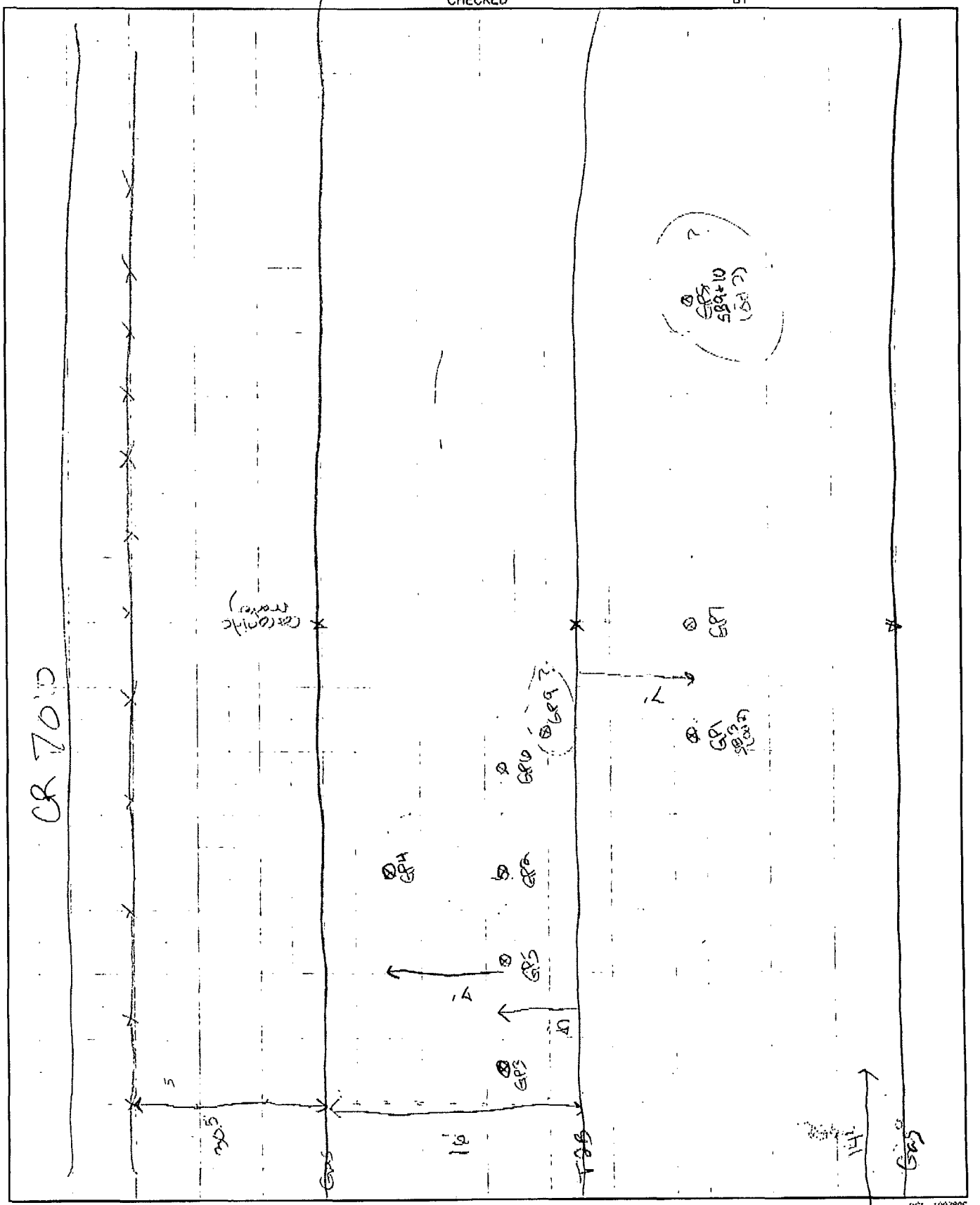
Kyvek offsite @ 1358
SMA offsite @ 1415

RCI - 1007805

SUBJECT PROJECT PAGE

CLIENT DATE BY

CHECKED BY



RCI - 1007805

APPENDIX B

SITE PHOTOGRAPHY

Site Photographs
Enterprise Products Trunk 2B Pipeline Release

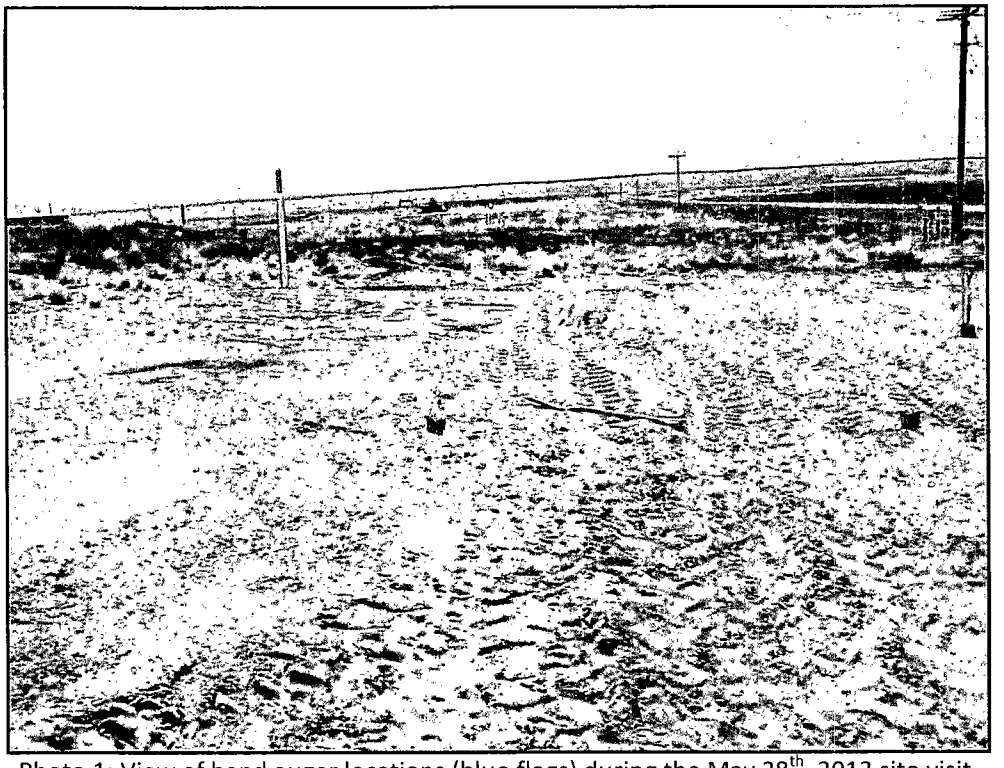


Photo 1: View of hand auger locations (blue flags) during the May 28th, 2013 site visit.

Photo 2: View of additional hand auger locations during the October 2nd, 2013 site visit.

Site Photographs
Enterprise Products Trunk 2B Pipeline Release

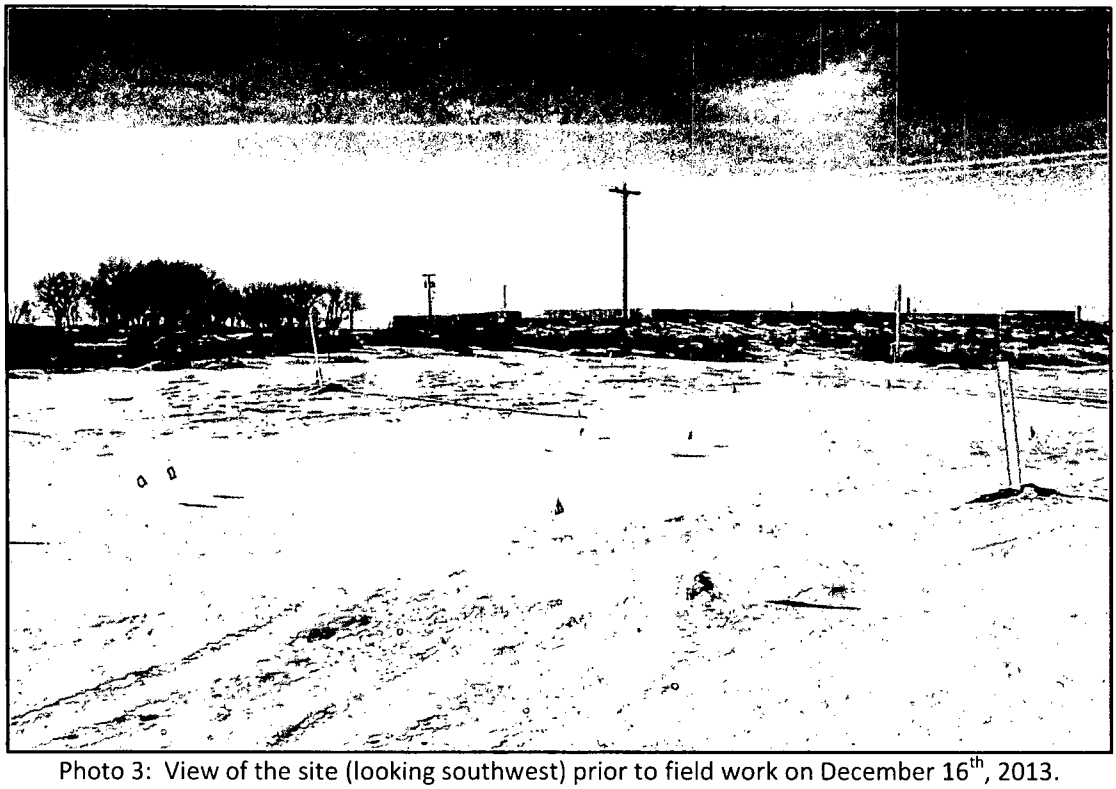


Photo 3: View of the site (looking southwest) prior to field work on December 16th, 2013.

Photo 4: View of the potholing and drilling activities during the December 16th, 2013 field activities.

Site Photographs
Enterprise Products Trunk 2B Pipeline Release

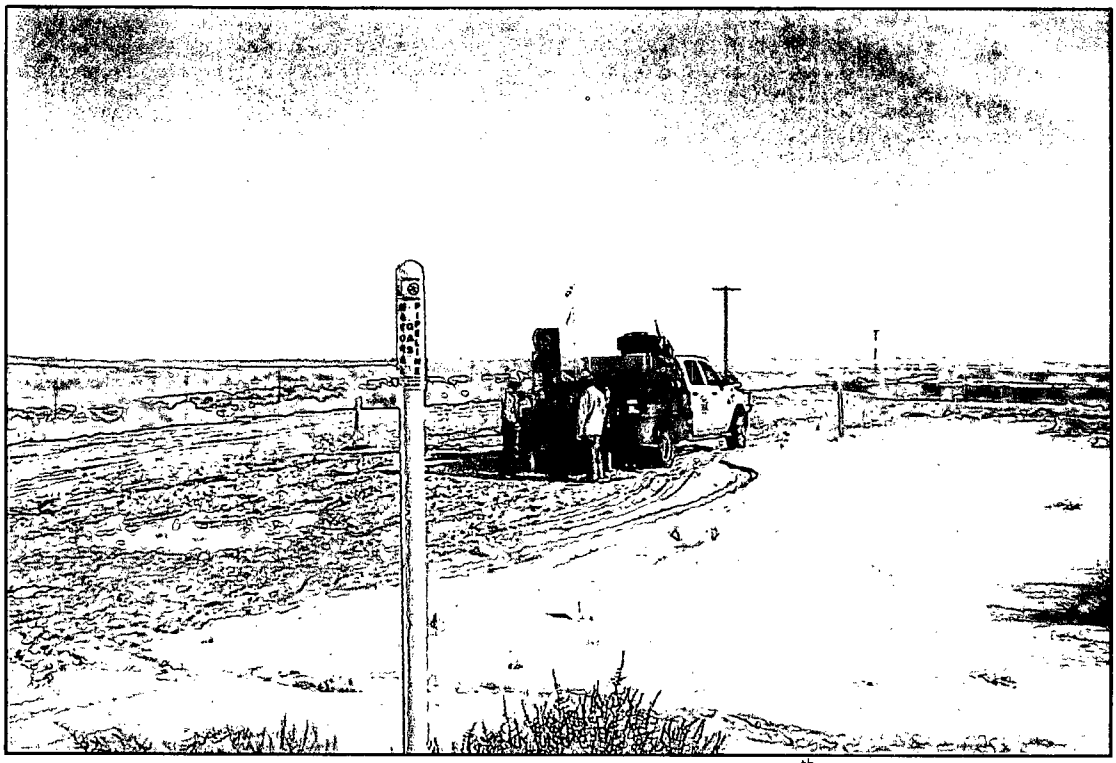


Photo 6: View of drilling activities on December 17th, 2013.

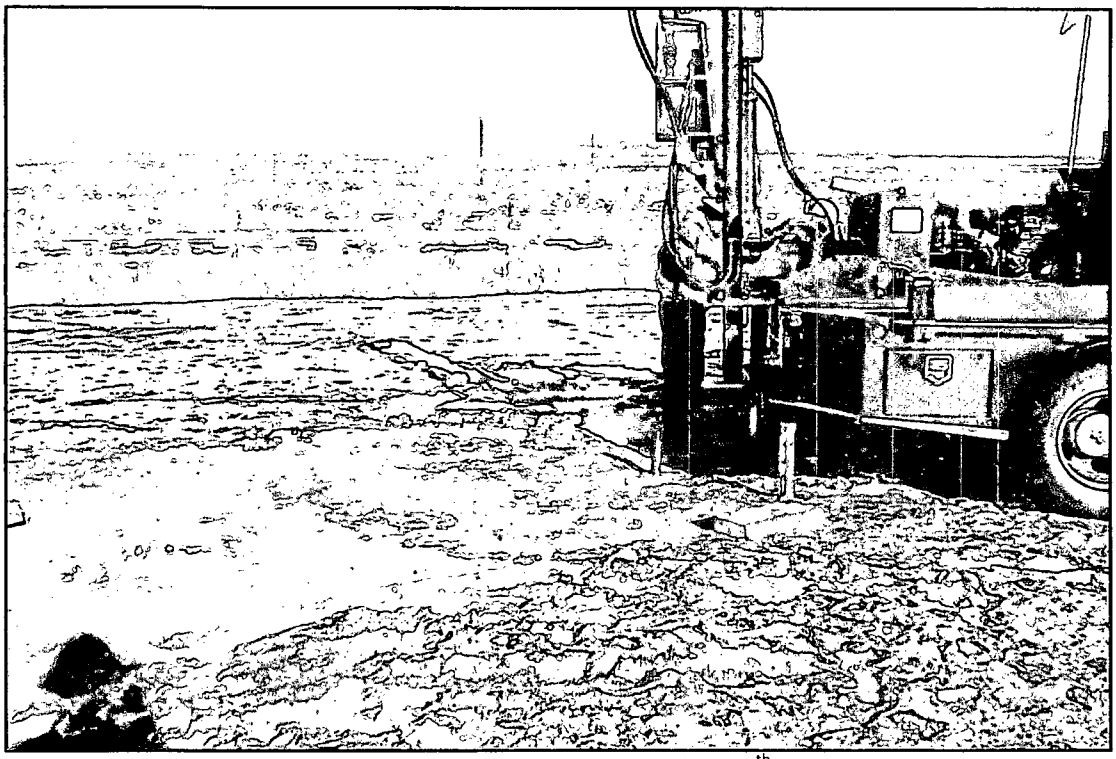


Photo 7: Drilling activities on December 17th, 2013.

APPENDIX C

SOIL DISPOSAL DOCUMENTATION

envirotech

Bill of Lading

MANIFEST # 44792

DATE 10-1-13 JOB # 97057-0594

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise Trunk 28 Pipeline	LF II	Cont. Soil	B21	10	✓	JP Trucking	JP2	1207	M. Tafoya
2	" "	" "	" "	B21	10	✓	" "	JP2	102	M. Tafoya
3	" "	" "	" "	B21	10	✓	" "	JP2	142	M. Tafoya
4	" "	" "	" "	B21	10	✓	" "	JP2	220	M. Tafoya
5	" "	" "	" "	B21	10	✓	" "	JP2	304	M. Tafoya
6	" "	" "	" "	B21	10	✓	" "	JP2	363	M. Tafoya
					60					

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
4292	CHLORIDE TEST	2	Devin Richardson BCW	
	PAINT FILTER TEST	2	Certification of above receival & placement	RP

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. JP Trucking NAME Mike Tafoya SIGNATURE M. Tafoya

COMPANY CONTACT John Parks PHONE 505-947-3073 DATE 10-1-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

envirotech

Bill of Lading

MANIFEST # 44798

DATE 10-1-13 JOB # 97057-0594

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise Trunk 2B pipeline	LFII	Cont. Sal	BZ1	10	-	Rosenbaum	114	324	Mark F.
2	" "	" "	" "	BZ1	10	-	Rosenbaum	007	334	
3	" "	" "	" "	BZ1	10	-	Rosenbaum	117	345	Tom B.
4	" "	" "	" "	BZ1	10	-	Rosenbaum	114	415	Mark F.
5	" "	" "	" "	BZ1	10	-	Rosenbaum	007	414	
					50					

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
<292	CHLORIDE TEST	2	Dewon Robinson Brew	
	PAINT FILTER TEST	2	Certification of above receival & placement	RD

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Rosenbaum NAME Mark Farragher SIGNATURE Mark F.

COMPANY CONTACT Cody. PHONE 330-3155. DATE 10-1-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

envirotech

Bill of Lading

MANIFEST # 44795

DATE 10-1-13 JOB # 97057-0594

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise 2B Pipeline	LF II	Cont. Soil	BZ1	10	-	Rosenbaum	114	1214	Mark F.
2	"	"	"	BZ1	10	-	"	007	12:35	Mark Farragher
3	"	"	"	BZ1	10	-	"	117	12:45	Tom Bf
4	"	"	"	BZ1	10	-	"	114	108	Mark F.
5	"	"	"	BZ1	10	-	"	117	126	Tom Bf
6	"	"	"	BZ1	10	-	"	007	120	Mark Farragher
7	"	"	"	BZ1	10	-	"	114	152	Mark F.
8	"	"	"	BZ1	10	-	"	007	210	Mark Farragher
9	"	"	"	BZ1	10	-	"	117	217	Tom Bf
10	"	"	"	BZ1	10	-	"	114	241	Mark F.
11	"	"	"	BZ1	10	-	"	007	251	Mark Farragher
12	"	"	"	BZ1	10	-	"	117	257	Tom Bf

RESULTS:			LANDFARM EMPLOYEE:	NOTES:
<292	CHLORIDE TEST	3	Dennis Robertson 120 BGW	
	PAINT FILTER TEST	3	Certification of above receival & placement	RP

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Rosenbaum NAME Mark Farragher SIGNATURE Mark Farragher

COMPANY CONTACT Cody Hickey PHONE 330-3155 DATE 10-1-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

san juan reproduction 578-126

envirotech

Bill of Lading

MANIFEST # 44794

DATE 10-1-13 JOB # 97057-0594

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise Trunk ZBP Deluxe	LF II	Cont. Sol	BZ1	10	-	La Plata Construction	7	1208	
2	" "	" "	" "	BZ1	10	-	" "	5	1208	
3	" "	" "	" "	BZ1	10	-	" "	5	1257	
4	" "	" "	" "	BZ1	10	-	" "	7	205	
5	" "	" "	" "	BZ1	10	-	" "	5	234	
6	" "	" "	" "	BZ1	10	-	" "	7	245	
7	" "	" "	" "	BZ1	10	-	" "	5	313	
8	" "	" "	" "	BZ1	10	-	" "	7	326	
9	" "	" "	" "	BZ1	10	-	" "	7	1604	
					90					

RESULTS:			LANDFARM EMPLOYEE: Dean Rebarber BDW	NOTES:
<292	CHLORIDE TEST	2		
	PAINT FILTER TEST	2	Certification of above receival & placement	RD

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. La Plata Const. NAME Benjamin Coyle SIGNATURE

COMPANY CONTACT _____ PHONE _____ DATE _____

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-0594

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site:
Trunk 2B Pipeline

3. Location of Material (Street Address, City, State or ULSTR):
Unit E Sec 7 T 27 N R 11 W, San Juan County, NM

4. Source and Description of Waste:
Source: Natural Gas Gathering Line
Description: Exempt petroleum contaminated soil from cleanup associated with release from this pipeline
Estimated Volume 60 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 320 (yd³) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Jim Stitt, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Jim Stitt, representative for Enterprise Products Operating authorize Envirotech to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Kendra Rumuna, representative for Envirotech, Inc. do hereby certify that
Representative/Agent Signature
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: EMS Rosenbaum, La Plata Construction, JP Trucking

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:
☒ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Rumuna TITLE: Waste Coordinator DATE: 10/1/13
SIGNATURE: Kendra Rumuna TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

APPENDIX D

LABORATORY ANALYTICAL REPORTS

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

October 08, 2013

Thomas Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-7535
FAX (505) 327-1496

RE: Enterprise Trunk 2B OrderNo.: 1310194

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/3/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1310194**
Date Reported: **10/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: SB-8 @ 7'
Project: Enterprise Trunk 2B
Collection Date: 10/2/2013 11:02:00 AM
Lab ID: 1310194-001 **Matrix:** SOIL **Received Date:** 10/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	290	10		mg/Kg	1	10/7/2013 12:07:45 PM	9653
Surr: DNOP	98.5	63-147		%REC	1	10/7/2013 12:07:45 PM	9653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	250	49		mg/Kg	10	10/7/2013 4:11:51 PM	9636
Surr: BFB	182	80-120	S	%REC	10	10/7/2013 4:11:51 PM	9636
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.25		mg/Kg	10	10/7/2013 4:11:51 PM	9636
Toluene	4.6	0.49		mg/Kg	10	10/7/2013 4:11:51 PM	9636
Ethylbenzene	2.8	0.49		mg/Kg	10	10/7/2013 4:11:51 PM	9636
Xylenes, Total	30	0.99		mg/Kg	10	10/7/2013 4:11:51 PM	9636
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	10	10/7/2013 4:11:51 PM	9636

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310194**

08-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **MB-9653**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **9653**	RunNo: **13829**
Prep Date: **10/4/2013**	Analysis Date: **10/4/2013**	SeqNo: **395809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.6	63	147			

Sample ID **LCS-9653**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **9653**	RunNo: **13829**
Prep Date: **10/4/2013**	Analysis Date: **10/4/2013**	SeqNo: **395810** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	77.1	128			
Surr: DNOP	5.1		5.000		102	63	147			

Sample ID **MB-9663**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **9663**	RunNo: **13861**
Prep Date: **10/7/2013**	Analysis Date: **10/7/2013**	SeqNo: **396476** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		99.6	63	147			

Sample ID **LCS-9663**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **9663**	RunNo: **13861**
Prep Date: **10/7/2013**	Analysis Date: **10/7/2013**	SeqNo: **396477** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.9	63	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310194

08-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID	MB-9636	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	9636		RunNo:	13860					
Prep Date:	10/3/2013	Analysis Date:	10/4/2013		SeqNo:	396249	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		102	80	120				

Sample ID	LCS-9636	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	9636		RunNo:	13860					
Prep Date:	10/3/2013	Analysis Date:	10/4/2013		SeqNo:	396250	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	74.5	126				
Surr: BFB	1100		1000		106	80	120				

Sample ID	MB-9657 MK	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R13873		RunNo:	13873					
Prep Date:		Analysis Date:	10/7/2013		SeqNo:	396882	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	990		1000		99.4	80	120				

Sample ID	LCS-9657 MK	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R13873		RunNo:	13873					
Prep Date:		Analysis Date:	10/7/2013		SeqNo:	396883	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1100		1000		114	80	120				

Sample ID	MB-9657	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	9657		RunNo:	13873					
Prep Date:	10/4/2013	Analysis Date:	10/7/2013		SeqNo:	396887	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	990		1000		99.4	80	120				

Sample ID	LCS-9657	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	9657		RunNo:	13873					
Prep Date:	10/4/2013	Analysis Date:	10/7/2013		SeqNo:	396889	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1100		1000		114	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310194**

08-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **MB-9636**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **9636**	RunNo: **13860**
Prep Date: **10/3/2013**	Analysis Date: **10/4/2013**	SeqNo: **396276** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			

Sample ID **LCS-9636**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **9636**	RunNo: **13860**
Prep Date: **10/3/2013**	Analysis Date: **10/4/2013**	SeqNo: **396277** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.4	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID **MB-9657 MK**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R13873**	RunNo: **13873**
Prep Date:	Analysis Date: **10/7/2013**	SeqNo: **396916** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID **LCS-9657 MK**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R13873**	RunNo: **13873**
Prep Date:	Analysis Date: **10/7/2013**	SeqNo: **396917** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID **MB-9657**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **9657**	RunNo: **13873**
Prep Date: **10/4/2013**	Analysis Date: **10/7/2013**	SeqNo: **396920** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310194**

08-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **LCS-9657**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**	
Client ID: **LCSS**	Batch ID: **9657**	RunNo: **13873**	
Prep Date: **10/4/2013**	Analysis Date: **10/7/2013**	SeqNo: **396921**	Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: SMA-FARM | Work Order Number: 1310194 | RcptNo: 1

Received by/date: LM 10/03/13

Logged By: Michelle Garcia 10/3/2013 10:00:00 AM Michelle Garcia

Completed By: Michelle Garcia 10/3/2013 11:46:00 AM Michelle Garcia

Reviewed By: AT 10/03/13

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 2101 San Juan Blvd.
Farmington, NM 87401

Phone #: 505.325.7535

email or Fax#: tom.long@saundermiller.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Enterprise Trunk 2B

Project #: 5122104

Project Manager: Thomas Long

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1310194	Analysis Request: BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10-2-13	1102	Soil	SB-8 @ 7'	4oz Jar	Cool	-001	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
10-2-13	1650	Thomas Long	[signature]	10/2/13	1650
10/2/13	1800	[signature]	[signature]	10/03/13	1000

Remarks: Bill To Enterprise

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 20, 2013

Shawna Chubbuck
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Enterprise Trunk 2B OrderNo.: 1312902

Dear Shawna Chubbuck:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/19/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1312902**
Date Reported: **12/20/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Trunk 2B
Lab ID: 1312902-001
Matrix: MEOH (SOIL)
Client Sample ID: GP1@8-10'
Collection Date: 12/16/2013 12:20:00 PM
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2013 11:34:23 AM	10889
Surr: DNOP	88.3	66-131		%REC	1	12/19/2013 11:34:23 AM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	12/19/2013 1:44:47 PM	R15621
Surr: BFB	84.3	74.5-129		%REC	1	12/19/2013 1:44:47 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.044		mg/Kg	1	12/19/2013 1:44:47 PM	R15621
Toluene	ND	0.044		mg/Kg	1	12/19/2013 1:44:47 PM	R15621
Ethylbenzene	ND	0.044		mg/Kg	1	12/19/2013 1:44:47 PM	R15621
Xylenes, Total	ND	0.088		mg/Kg	1	12/19/2013 1:44:47 PM	R15621
Surr: 4-Bromofluorobenzene	96.9	80-120		%REC	1	12/19/2013 1:44:47 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP2@5-8'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 10:22:00 AM
Lab ID: 1312902-002
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2013 11:56:29 AM	10889
Surr: DNOP	88.3	66-131		%REC	1	12/19/2013 11:56:29 AM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	12/19/2013 2:15:08 PM	R15621
Surr: BFB	82.4	74.5-129		%REC	1	12/19/2013 2:15:08 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.053		mg/Kg	1	12/19/2013 2:15:08 PM	R15621
Toluene	ND	0.053		mg/Kg	1	12/19/2013 2:15:08 PM	R15621
Ethylbenzene	ND	0.053		mg/Kg	1	12/19/2013 2:15:08 PM	R15621
Xylenes, Total	ND	0.11		mg/Kg	1	12/19/2013 2:15:08 PM	R15621
Surr: 4-Bromofluorobenzene	93.1	80-120		%REC	1	12/19/2013 2:15:08 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP2@8-10'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 10:41:00 AM
Lab ID: 1312902-003
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2013 12:19:23 PM	10889
Surr: DNOP	89.4	66-131		%REC	1	12/19/2013 12:19:23 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/19/2013 2:45:24 PM	R15621
Surr: BFB	85.9	74.5-129		%REC	1	12/19/2013 2:45:24 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.046		mg/Kg	1	12/19/2013 2:45:24 PM	R15621
Toluene	ND	0.046		mg/Kg	1	12/19/2013 2:45:24 PM	R15621
Ethylbenzene	ND	0.046		mg/Kg	1	12/19/2013 2:45:24 PM	R15621
Xylenes, Total	ND	0.092		mg/Kg	1	12/19/2013 2:45:24 PM	R15621
Surr: 4-Bromofluorobenzene	97.5	80-120		%REC	1	12/19/2013 2:45:24 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP3@8-12'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 10:57:00 AM
Lab ID: 1312902-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	12/19/2013 12:41:35 PM	10889
Surr: DNOP	85.3	66-131		%REC	1	12/19/2013 12:41:35 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	67	7.4		mg/Kg	2	12/19/2013 3:15:43 PM	R15621
Surr: BFB	255	74.5-129	S	%REC	2	12/19/2013 3:15:43 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.074		mg/Kg	2	12/19/2013 3:15:43 PM	R15621
Toluene	0.26	0.074		mg/Kg	2	12/19/2013 3:15:43 PM	R15621
Ethylbenzene	0.40	0.074		mg/Kg	2	12/19/2013 3:15:43 PM	R15621
Xylenes, Total	3.6	0.15		mg/Kg	2	12/19/2013 3:15:43 PM	R15621
Surr: 4-Bromofluorobenzene	124	80-120	S	%REC	2	12/19/2013 3:15:43 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order **1312902**
Date Reported: **12/20/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Trunk 2B
Lab ID: 1312902-005
Client Sample ID: GP4@8-9'
Collection Date: 12/17/2013 11:47:00 AM
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/19/2013 1:25:57 PM	10889
Surr: DNOP	86.9	66-131		%REC	1	12/19/2013 1:25:57 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	12/19/2013 3:45:59 PM	R15621
Surr: BFB	86.5	74.5-129		%REC	1	12/19/2013 3:45:59 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.045		mg/Kg	1	12/19/2013 3:45:59 PM	R15621
Toluene	ND	0.045		mg/Kg	1	12/19/2013 3:45:59 PM	R15621
Ethylbenzene	ND	0.045		mg/Kg	1	12/19/2013 3:45:59 PM	R15621
Xylenes, Total	ND	0.089		mg/Kg	1	12/19/2013 3:45:59 PM	R15621
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/19/2013 3:45:59 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP5@6-8'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 12:03:00 PM
Lab ID: 1312902-006
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	12/19/2013 1:48:02 PM	10889
Surr: DNOP	84.5	66-131		%REC	1	12/19/2013 1:48:02 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3.7	3.4		mg/Kg	1	12/19/2013 4:16:11 PM	R15621
Surr: BFB	95.6	74.5-129		%REC	1	12/19/2013 4:16:11 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.034		mg/Kg	1	12/19/2013 4:16:11 PM	R15621
Toluene	ND	0.034		mg/Kg	1	12/19/2013 4:16:11 PM	R15621
Ethylbenzene	ND	0.034		mg/Kg	1	12/19/2013 4:16:11 PM	R15621
Xylenes, Total	0.23	0.068		mg/Kg	1	12/19/2013 4:16:11 PM	R15621
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	12/19/2013 4:16:11 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Project: Enterprise Trunk 2B
Lab ID: 1312902-007

Client Sample ID: GP6@6-8'
Collection Date: 12/17/2013 12:42:00 PM
Matrix: MEOH (SOIL) **Received Date:** 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	11	10		mg/Kg	1	12/19/2013 2:10:10 PM	10889
Surr: DNOP	73.8	66-131		%REC	1	12/19/2013 2:10:10 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	12/19/2013 4:46:20 PM	R15621
Surr: BFB	85.4	74.5-129		%REC	1	12/19/2013 4:46:20 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.036		mg/Kg	1	12/19/2013 4:46:20 PM	R15621
Toluene	ND	0.036		mg/Kg	1	12/19/2013 4:46:20 PM	R15621
Ethylbenzene	ND	0.036		mg/Kg	1	12/19/2013 4:46:20 PM	R15621
Xylenes, Total	ND	0.071		mg/Kg	1	12/19/2013 4:46:20 PM	R15621
Surr: 4-Bromofluorobenzene	96.9	80-120		%REC	1	12/19/2013 4:46:20 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP7@6-8'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 1:01:00 PM
Lab ID: 1312902-008
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2013 2:32:16 PM	10889
Surr: DNOP	84.1	66-131		%REC	1	12/19/2013 2:32:16 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	12/19/2013 5:16:21 PM	R15621
Surr: BFB	91.0	74.5-129		%REC	1	12/19/2013 5:16:21 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.043		mg/Kg	1	12/19/2013 5:16:21 PM	R15621
Toluene	ND	0.043		mg/Kg	1	12/19/2013 5:16:21 PM	R15621
Ethylbenzene	ND	0.043		mg/Kg	1	12/19/2013 5:16:21 PM	R15621
Xylenes, Total	ND	0.087		mg/Kg	1	12/19/2013 5:16:21 PM	R15621
Surr: 4-Bromofluorobenzene	94.4	80-120		%REC	1	12/19/2013 5:16:21 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP8@8-9'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 1:33:00 PM
Lab ID: 1312902-009
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/19/2013 2:54:34 PM	10889
Surr: DNOP	85.4	66-131		%REC	1	12/19/2013 2:54:34 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	12/19/2013 5:46:44 PM	R15621
Surr: BFB	83.7	74.5-129		%REC	1	12/19/2013 5:46:44 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.053		mg/Kg	1	12/19/2013 5:46:44 PM	R15621
Toluene	ND	0.053		mg/Kg	1	12/19/2013 5:46:44 PM	R15621
Ethylbenzene	ND	0.053		mg/Kg	1	12/19/2013 5:46:44 PM	R15621
Xylenes, Total	ND	0.11		mg/Kg	1	12/19/2013 5:46:44 PM	R15621
Surr: 4-Bromofluorobenzene	96.9	80-120		%REC	1	12/19/2013 5:46:44 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

60

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates
Client Sample ID: GP9@4-7'
Project: Enterprise Trunk 2B
Collection Date: 12/17/2013 1:47:00 PM
Lab ID: 1312902-010
Matrix: MEOH (SOIL)
Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2013 3:16:43 PM	10889
Surr: DNOP	88.0	66-131		%REC	1	12/19/2013 3:16:43 PM	10889
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	12/19/2013 11:49:02 PM	R15621
Surr: BFB	83.6	74.5-129		%REC	1	12/19/2013 11:49:02 PM	R15621
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.040		mg/Kg	1	12/19/2013 11:49:02 PM	R15621
Toluene	ND	0.040		mg/Kg	1	12/19/2013 11:49:02 PM	R15621
Ethylbenzene	ND	0.040		mg/Kg	1	12/19/2013 11:49:02 PM	R15621
Xylenes, Total	ND	0.080		mg/Kg	1	12/19/2013 11:49:02 PM	R15621
Surr: 4-Bromofluorobenzene	94.7	80-120		%REC	1	12/19/2013 11:49:02 PM	R15621

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312902**

20-Dec-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **MB-10889**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **10889**	RunNo: **15594**
Prep Date: **12/19/2013**	Analysis Date: **12/19/2013**	SeqNo: **450080** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.0	66	131			

Sample ID **LCS-10889**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **10889**	RunNo: **15594**
Prep Date: **12/19/2013**	Analysis Date: **12/19/2013**	SeqNo: **450081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	62.1	127			
Surr: DNOP	4.7		5.000		94.7	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312902**

20-Dec-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450272** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.8	74.5	129			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450273** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74.5	126			
Surr: BFB	880		1000		88.4	74.5	129			

Sample ID **1312902-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **GP1@8-10'**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450275** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.4	21.91	0	91.4	69.5	145			
Surr: BFB	790		876.4		89.7	74.5	129			

Sample ID **1312902-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **GP1@8-10'**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450276** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.4	21.91	0	91.2	69.5	145	0.131	20	
Surr: BFB	800		876.4		91.3	74.5	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312902**

20-Dec-13

Client: Souder, Miller and Associates

Project: Enterprise Trunk 2B

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450331** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **1312902-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **GP2@5-8'**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450335** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.037	0.7331	0	97.8	67.4	135			
Toluene	0.71	0.037	0.7331	0.01444	94.6	72.6	135			
Ethylbenzene	0.70	0.037	0.7331	0	96.1	69.4	143			
Xylenes, Total	2.1	0.073	2.199	0.02474	96.6	70.8	144			
Surr: 4-Bromofluorobenzene	0.75		0.7331		103	80	120			

Sample ID **1312902-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **GP2@5-8'**	Batch ID: **R15621**	RunNo: **15621**
Prep Date:	Analysis Date: **12/19/2013**	SeqNo: **450336** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.037	0.7331	0	96.7	67.4	135	1.14	20	
Toluene	0.70	0.037	0.7331	0.01444	93.0	72.6	135	1.74	20	
Ethylbenzene	0.70	0.037	0.7331	0	95.1	69.4	143	1.08	20	
Xylenes, Total	2.1	0.073	2.199	0.02474	95.7	70.8	144	0.929	20	
Surr: 4-Bromofluorobenzene	0.71		0.7331		96.5	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: SMA-FARM | Work Order Number: 1312902 | RcptNo: 1

Received by/date: LM 12/19/13

Logged By: Michelle Garcia 12/19/2013 9:45:00 AM Michelle Garcia

Completed By: Michelle Garcia 12/19/2013 9:51:07 AM Michelle Garcia

Reviewed By: 12/19/13

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: SMA

Mailing Address: 2101 San Juan Blvd Farmington NM 87401

Phone #: (505) 325-5667

email or Fax#:

QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: ☐ Standard ☒ Rush 24 hr 12/20

Project Name: Enterprise Trunk 28

Project #: 51222104

Project Manager: Shawna Chubbuck

Sampler: SLC

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.1

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1312902	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
12-16-13	1200	Soil	GP1@8-10'	4oz jar	Ice	-001	X		X									
12-17-13	1022	"	GP2@5-8'			-002	X		X									
12-17-13	1041	"	GP2@8-10'			-003	X		X									
	1057	"	GP3@8-12'			-004	X		X									
	1147	"	GP4@8-9'			-005	X		X									
	1203	"	GP5@6-8'			-006	X		X									
	1242	"	GP6@6-8'			-007	X		X									
	1301	"	GP7@6-8'			-008	X		X									
	1333	"	GP8@8-9'			-009	X		X									
↓	1347	"	GP9@4-7'	↓	↓	-010	X		X									

Date:	Time:	Relinquished by:	Received by:	Date	Time
12-17-13	1515	Shawna Chubbuck	Christine Walker	12/18/13	1315
12/18/13	1759	Christine Walker		12/19/13	0945

Remarks: Bill to Enterprise

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.