

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

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report

Final Report

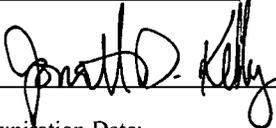
Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286
Facility Name Howell M #1 A meter run	Facility Type Natural gas meter run location
Surface Owner Private	Mineral Owner Private
API No. <u>30-095-22435</u>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	31	30N	8W					San Juan

Latitude N36.7624 Longitude W107.7183 (Decimal Degrees)

**NATURE OF RELEASE**

Type of Release Natural gas vapor and liquid	Volume of Release Estimated 422 MCF and 2.5 barrels condensate/water mix	Volume Recovered TBD
Source of Release Natural gas well location meter run	Date and Hour of Occurrence 12.11.2012 @ 04:00 hours (estimated)	Date and Hour of Discovery 12.12.2012 @ 16:30 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>RCVD MAY 9 '13</b>	
By Whom?	Date and Hour	<b>OIL CONS. DIV.</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>DIST. 3</b>	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Enterprise measurement department was notified by foreign operator of gas leak and stained soil at the Howell M#1 A meter tube location. Measurement dept. notified area Tech to respond. Upon arrival, Enterprise Tech shut in meter tube and applied lock out tag out (LOTO).		
Describe Area Affected and Cleanup Action Taken.* Enterprise dirt work and environmental contractors worked to remove approximately 5 yards of contaminated soil immediately after the discovery of the release. Additional work was conducted to achieve NM OCD soil closure standards in March 2013. Please refer to the attached third party corrective action report for details and analytic data for this location.		
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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: <u>9/24/2013</u>	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	
Date: <u>5-2-2013</u> Phone: (713)381-6684	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

n57K 1326741165

**RELEASE REPORT**

**Howell M #1A**

**SAN JUAN COUNTY,  
NEW MEXICO**

**RCVD MAY 9 '13  
OIL CONS. DIV.  
DIST. 3**

**April 10, 2013**

**SMA #5122104**

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



Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		USGS Topo Maps; Google Earth	Release is approximately 450 feet in elevation above Salvador Canyon Wash
50' to 99' = 10			
>100' = 0	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 is located approximately 1200 feet east of Salvador Canyon Wash
200'-1000' = 10	0		
>1000'	0		
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	0	NM State Engineer Water Well Database	No wells in Sections 1, 6 or 31
	0		
<b>Total Site Ranking</b>	<b>0</b>		
<b>Soil Remediation Standards</b>	0 to 9	10 to 19	>19
<b>Benzene</b>	10 PPM	10 PPM	10 PPM
<b>BTEX</b>	50 PPM	50 PPM	50 PPM
<b>TPH</b>	5000 PPM	1000 PPM	100 PPM

RELEASE INFORMATION			
Name	Howell M #1A		
Release Location	Latitude = 36.76245	Longitude = -107.71833	
	SW 1/4 SW 1/4 Section 31	Township 30N	Range 8 W
	San Juan County		
Date Reported	December 13, 2012		
Reported by	Aaron Dailey		
Land Owner	Private		
Regulatory Authority	NMOCD		
Reported to	NMOCD		
Enterprise Representative	Dwayne Dixon		
Source of Release	Rupture due to frozen meter tube.		
Release Contents	Condensate/Natural Gas Liquids		
Release Volume	Approximately 100 gallons		
Nearest Waterway	Salvador Canyon Wash approximately 1200' to the west		
SMA Response Date(s)	12/13/2012, 12/14/2012, 3/21/13, and 3/22/13		
Sub-contractor(s)	Southwest Field Services; Industrial Ecosystems Incorporated; Industrial Mechanics Incorporated		
Soil Disposal Facility	Industrial Mechanics Inc.; JFJ Landfarm		
Total Cubic Yards Removed	66		
<b>RELEASE RESPONSE SUMMARY</b>			
<p><b>Response Activities:</b> On December 13, 2012 Souder, Miller &amp; Associates (SMA) responded to a release at the Howell M #1A well site. Figure 1 illustrates the location of the site. The release was caused from a frozen meter tube that ruptured. Southwest Field Services was contracted to excavate the impacted soil with hand tools. The surface stained area measured approximately 330 square feet. Surface stained soils were excavated to a depth of approximately four inches below ground surface (bgs). On December 14, 2012 excavation of the hydrocarbon contaminated soil continued and soil samples were collected at random locations from approximately 4 inches bgs and field screened using a calibrated photo ionization detection (PID) meter. Once the majority of the stained surface soil had been excavated, three composite soil samples were collected within the excavated area and analyzed as described below. Figure 2 illustrates the extent of the release area and soil sample locations. Due to winter weather conditions and site accessibility, the excavated soil was stockpiled on top of and covered with plastic liner for later disposal at a properly permitted facility.</p> <p>From March 21, 2103 to March 22, 2103, Industrial Mechanics Incorporated (IMI) was contacted to excavate the impacted soil using a backhoe. Six test holes were excavated in the release area to determine the horizontal and vertical extent of the hydrocarbon contaminated soil. In addition, SMA guided the excavation activities by field screening soil samples with a PID. On March 22, 2013, at approximately 10:00 a.m., Mr. Aaron Daily of Enterprise arrived on site to observe the excavation activities. The excavation activities were ceased pending rush soil analytic results from a certified laboratory and the excavation was secured with temporary fencing. Approximately 66 cubic yards of hydrocarbon contaminated soil were excavated and transported by IEI for proper disposal. On Monday, April 1, 2013, IMI backfilled the excavation with clean imported fill and reinstalled the meterhouse. Bills of Lading are included as an attachment.</p>			
<p><b>Laboratory analysis:</b> All soil samples were analyzed per United States Environmental Protection Agency (USEPA) Methods 8021 Benzene, Toluene, Ethyl-Benzene, and Xylenes (BTEX) and 8015 Gasoline Range Organics/Diesel Range Organics. Laboratory results indicated that all soil samples collected on December 14, 2012 were above regulatory standards for contaminants of concern. Laboratory analysis for soil samples collected on March 22, 2013 indicated that all soil samples collected were below regulatory standards for contaminants of concern. Laboratory sample locations and analytical results are illustrated in Figures 2 and Figure 3 and are laboratory results are presented in the attached table. Laboratory analytical reports are included as an attachment.</p>			
<p><b>Recommendations:</b> SMA recommends that no further action is necessary at this site.</p>			



FIELD SCREENING RESULTS SUMMARY						
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Petro Flag Results	Lab Sample Collected Y/N
12/14/2012	8:55	SC-1	0.33	1539	N/A	Y
12/14/2012	8:57	SC-2	0.33	1452	N/A	Y
12/14/2012	9:01	SC-3	0.33	1698	N/A	Y
3/21/2013	10:12	SC-1/S-1	0.33	1379	N/A	N
3/21/2013	10:13	SC-2/S-2	0.33	1839	N/A	N
3/21/2013	10:14	SC-3/S-3	0.33	1096	N/A	N
3/21/2013	10:34	SC-4/S-4	0.33	623	N/A	N
3/21/2013	11:19	Testhole #1	3.5	1669	N/A	N
3/21/2013	11:39	Testhole #2	3.5	1713	N/A	N
3/21/2013	11:43	Testhole #3	3.5	59	N/A	N
3/21/2013	11:48	Testhole #4	3.5	5.1	N/A	N
3/21/2013	11:58	Testhole #5	2.0	1202	N/A	N
3/21/2013	1:02	Testhole #6	6.0	183.1	N/A	N
3/21/2013	2:00	S-5	3.5	1619	N/A	N
3/21/2013	2:12	S-6 East Wall Comp	1 to 5	1701	N/A	N
3/21/2013	2:43	S-7 East Wall Comp.	1 to 5	37.3	N/A	N
3/21/2013	2:44	S-8 South Wall Comp.	1 to 5	1553	N/A	N
3/22/2013	9:25	S-9 South Wall Comp.	1 to 5	1869	N/A	N
3/22/2013	9:26	S-10 East Wall Comp.	1 to 5	2139	N/A	N
3/22/2013	9:27	S-11 North Wall Comp.	1 to 5	1509	N/A	N
3/22/2013	9:28	S-12 Bottom	5.0	2700	N/A	N
3/22/2013	10:21	SC-1 @5'	5	685	N/A	Y
3/22/2013	10:22	SC-2	1 to 5	305	N/A	Y
3/22/2013	10:20	SC-3	1 to 5	183	N/A	Y
3/22/2013	10:19	SC-4	1 to 5	59.1	N/A	Y
3/22/2013	9:58	SC-5	1 to 5	1202	N/A	Y

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021.BTEX
12/14/2012	8:55	SC-1 @4"	0.33	3000	<9.7	19	301
12/14/2012	8:57	SC-2 @ 4"	0.33	2500	17	12	276
12/14/2012	9:01	SC-3 @ 4"	0.33	1000	13	3.7	125.3
3/22/2013	9:50	SC-1 @5'	5	9.1	<10	0.18	1.37
3/22/2013	9:52	SC-2	1 to 5	100	<10	0.13	11.87
3/22/2013	9:54	SC-3	1 to 5	9.2	<9.6	<0.050	0.56
3/22/2013	9:56	SC-4	1 to 5	<5.0	<10	<0.050	<0.10
3/22/2013	9:58	SC-5	1 to 5	6.3	<10	0.087	1.117



SCALE

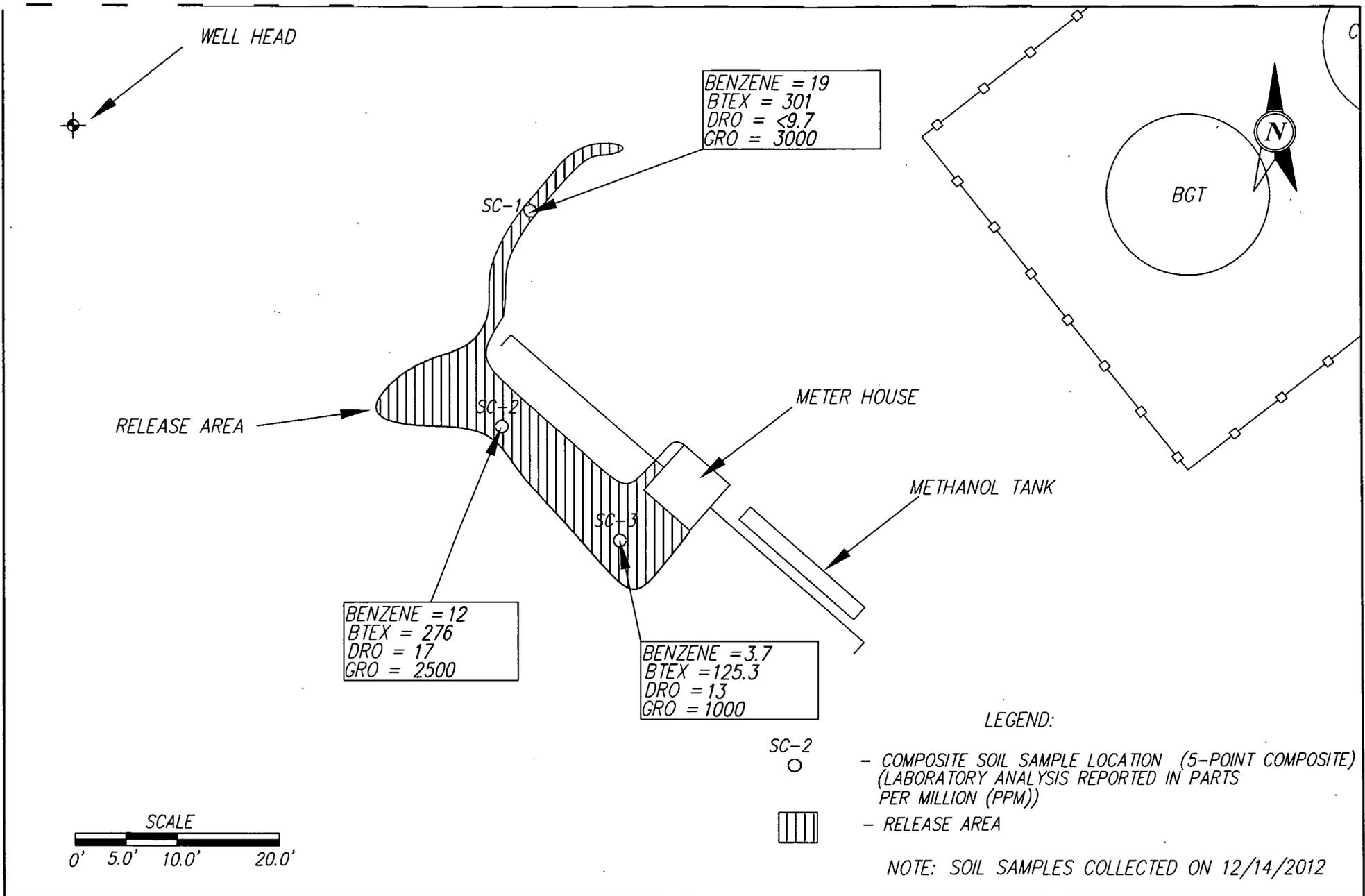


2101 SAN JUAN BLVD  
FARMINGTON, NM 87401

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

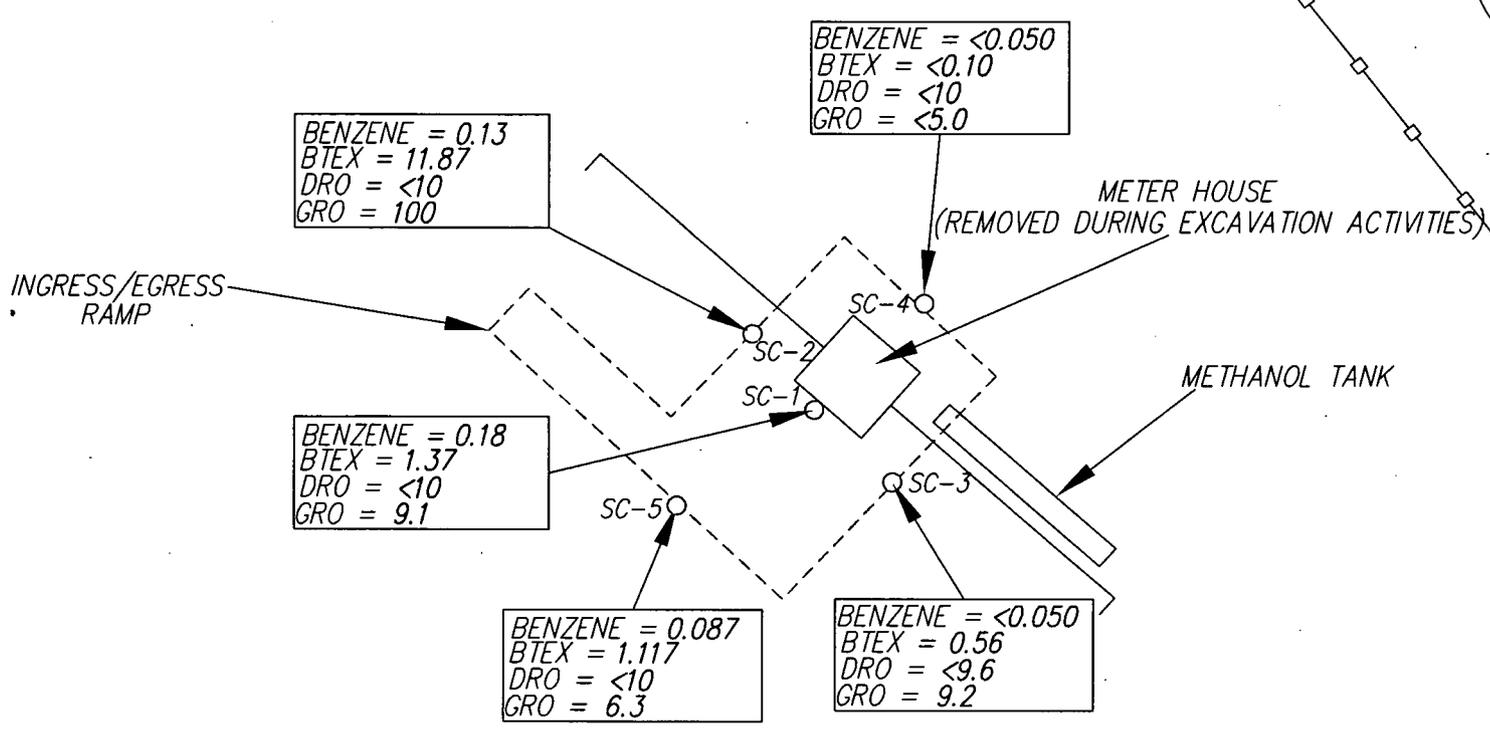
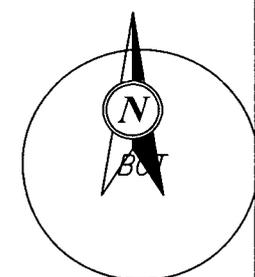
APPROVED: RSA	DATE: 12/22/2012
DRAWN BY: TLONG	DATE: 12/22/2012
REVISIONS BY: SJM	DATE: 01/03/13
PROJECT # 5122104	FIGURE: 1

VICINITY MAP  
HOWELL M #1A WELL SITE  
SW 1/4 SW 1/4 SECTION 33 T30N R8W  
SAN JUAN COUNTY, NEW MEXICO



 <p><b>SMA</b> Civil / Environmental Scientists &amp; Engineers</p> <p>2101 SAN JUAN BLVD FARMINGTON, NM 87401</p> <p>FAX (505) 327-1496 PH. (505) 325-5667</p>	APPROVED: RSA	DATE: 12/22/12	<b>SITE MAP AND SOIL CONTAMINANT CONCENTRATION MAP</b> <b>HOWELL M #1A WELL SITE</b> <b>SW 1/4 SW 1/4 SECTION 33 T30N R8W</b> <b>SAN JUAN COUNTY, NEW MEXICO</b>
	DRAWN BY: TLONG	DATE: 12/22/12	
	REVISIONS BY: SJM	DATE: 01/03/13	
	PROJECT # 5122104	FIGURE: 2	

WELL HEAD



LEGEND:

SC-2  
○ - COMPOSITE SOIL SAMPLE LOCATION (5-POINT COMPOSITE)  
(LABORATORY ANALYSIS REPORTED IN PARTS PER MILLION (PPM))

NOTE: SOIL SAMPLES COLLECTED ON 03/22/2013.



2101 SAN JUAN BLVD  
FARMINGTON, NM 87401  
FAX (505) 327-1496  
PH. (505) 325-5687

APPROVED: RSA	DATE: 03/27/13
DRAWN BY: TLONG	DATE: 03/27/13
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 3

SITE MAP AND SOIL CONTAMINANT  
CONCENTRATION MAP  
HOWELL M #1A WELL SITE  
SW 1/4 SW 1/4 SECTION 33 T30N R8W  
SAN JUAN COUNTY, NEW MEXICO

**Site Photographs**  
**Enterprise Products Howell M #1A Release Site**

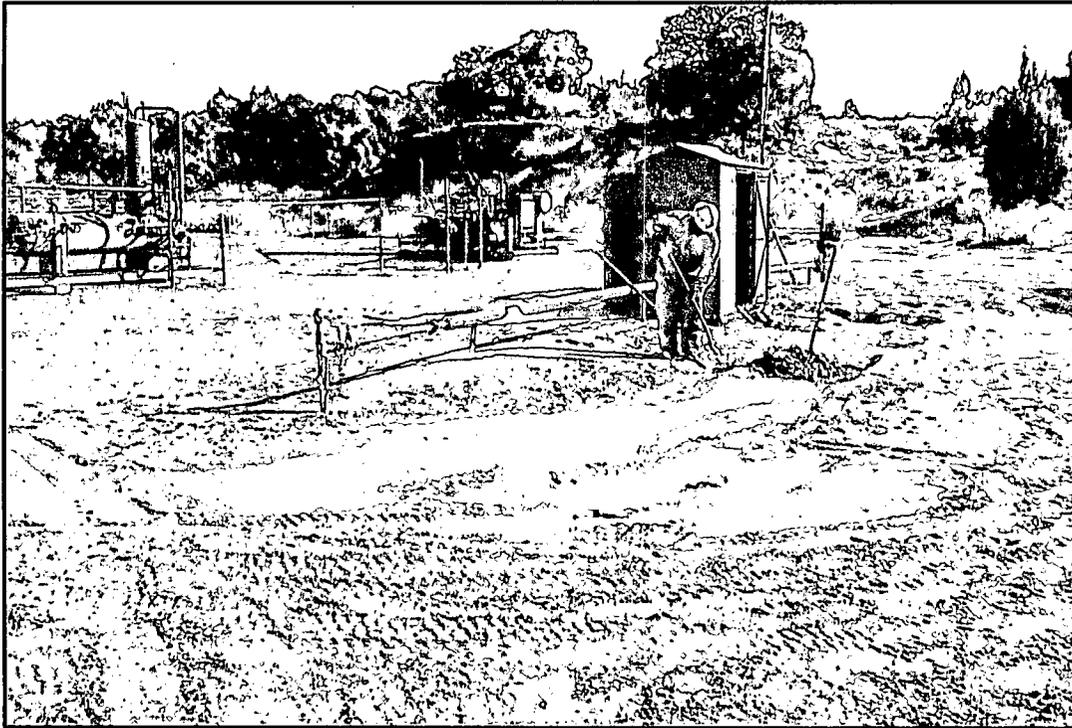


Photo 1: Extent of the Howell M #1A release on 12/14/12, view to the east.



Photo 2: Furthest extent of the Howell M #1A release on 12/14/12, view to the northeast.

Site Photographs  
Enterprise Products Howell M #1A Release Site

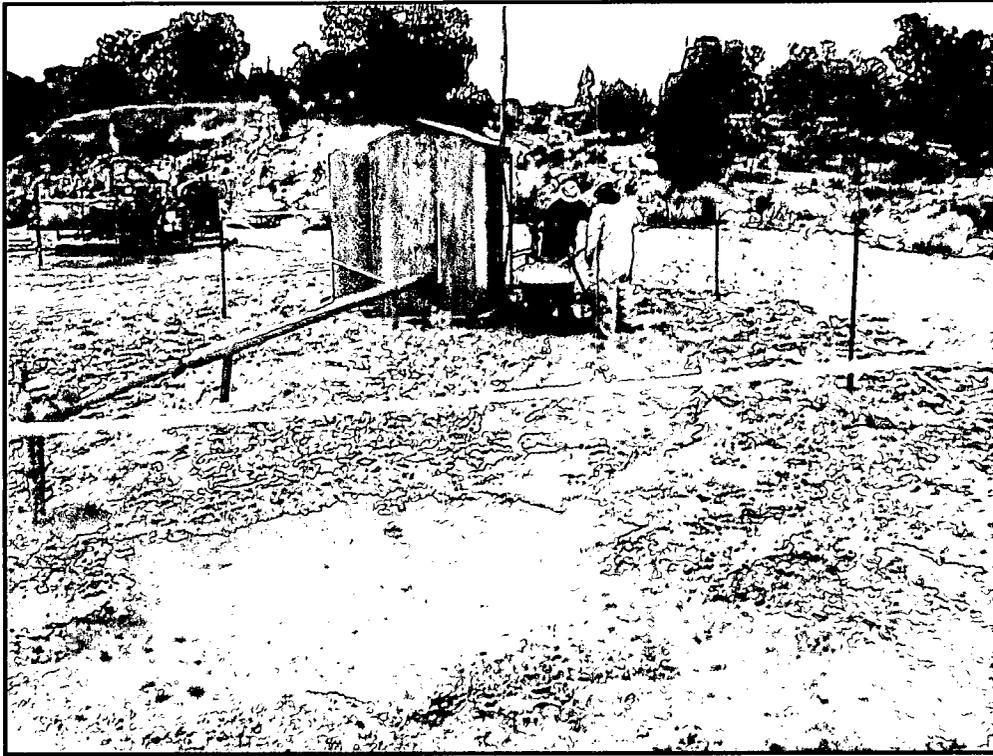


Photo 3: View of the excavation activities on 12/14/13 at the Howell M #1A well site.

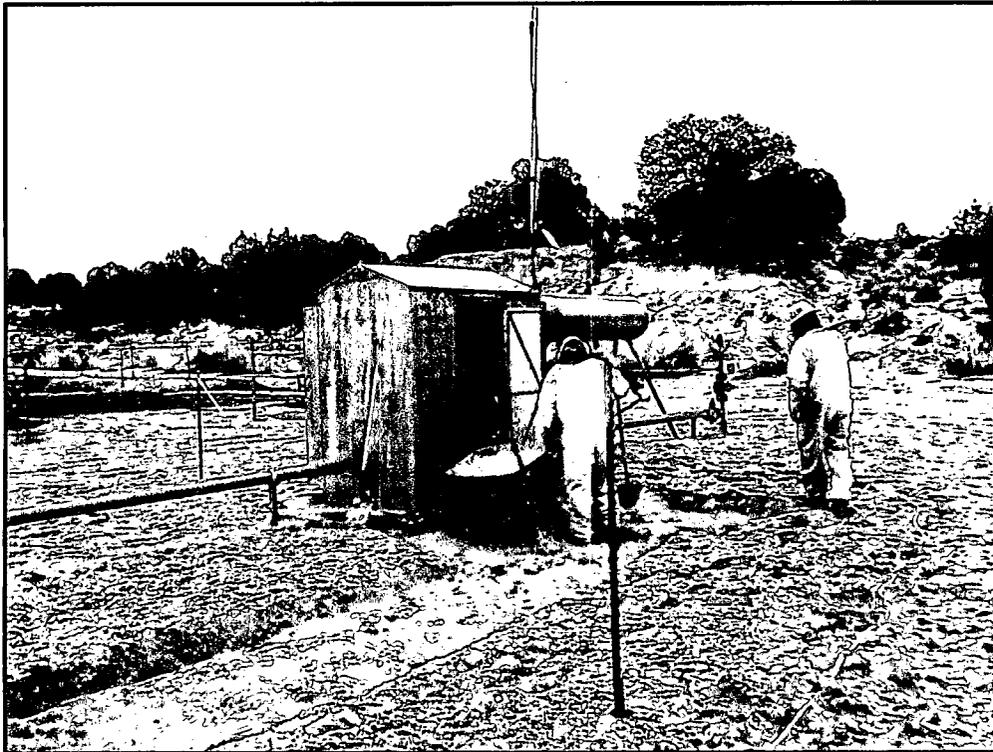


Photo 4: View of depth and extent of the excavation on 12/14/12 at the Howell M #1A well site.

**Site Photographs**  
**Enterprise Products Howell M #1A Release Site**

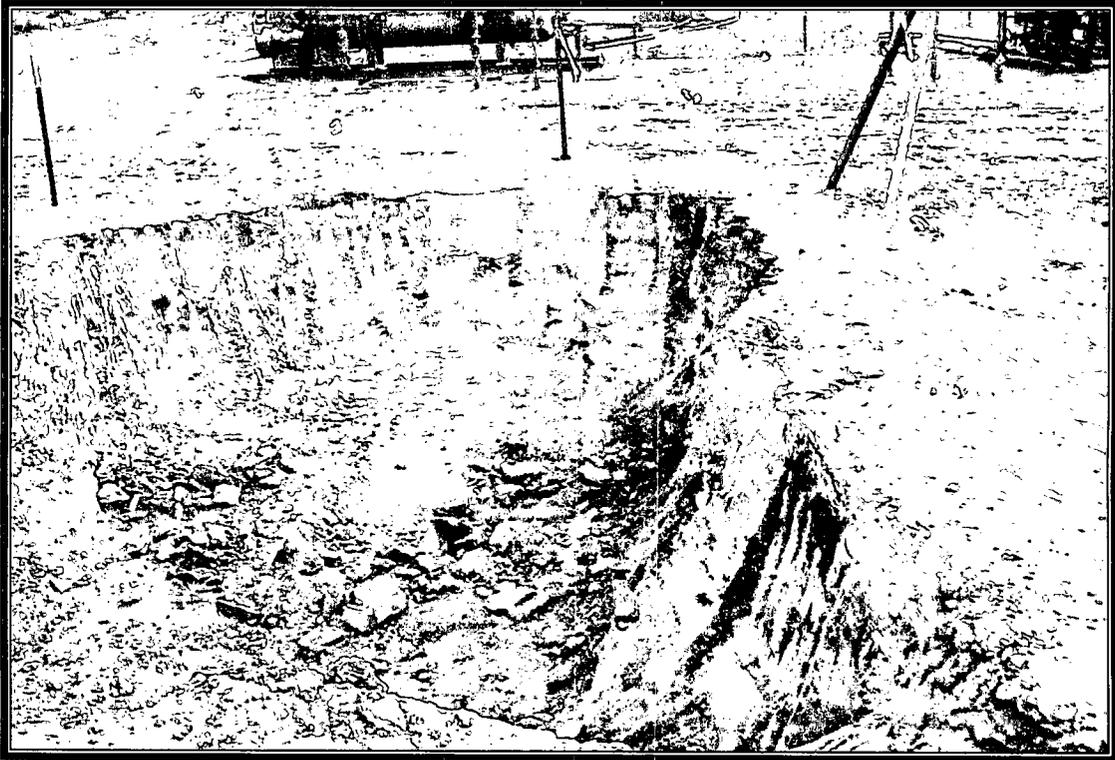


Photo 5: View of the excavation on 3/14/13 at the Howell M#1A site. View to the north.



Photo 6: View of the excavation on 3/14/13 at the Howell M#1A site. View to the west.



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

December 27, 2012

Tom Long

Souder, Miller and Associates  
2101 San Juan Boulevard  
Farmington, NM 87401  
TEL: (505) 330-0868  
FAX (505) 327-1496

RE: Enterprise Howell M #1A

OrderNo.: 1212695

Dear Tom Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/15/2012 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](http://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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 @ 4"

Project: Enterprise Howell M #1A

Collection Date: 12/14/2012 8:55:00 AM

Lab ID: 1212695-001

Matrix: SOIL

Received Date: 12/15/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/20/2012 11:19:57 PM
Surr: DNOP	88.9	72.4-120		%REC	1	12/20/2012 11:19:57 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	3000	97		mg/Kg	20	12/19/2012 11:49:40 PM
Surr: BFB	126	84-116	S	%REC	20	12/19/2012 11:49:40 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	19	0.97		mg/Kg	20	12/19/2012 11:49:40 PM
Toluene	150	4.9		mg/Kg	100	12/20/2012 4:13:34 PM
Ethylbenzene	12	0.97		mg/Kg	20	12/19/2012 11:49:40 PM
Xylenes, Total	120	1.9		mg/Kg	20	12/19/2012 11:49:40 PM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	20	12/19/2012 11:49:40 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Souder, Miller and Associates

**Client Sample ID:** SC-2 @ 4"

**Project:** Enterprise Howell M #1A

**Collection Date:** 12/14/2012 8:57:00 AM

**Lab ID:** 1212695-002

**Matrix:** SOIL

**Received Date:** 12/15/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	17	10		mg/Kg	1	12/20/2012 11:41:23 PM
Surr: DNOP	82.9	72.4-120		%REC	1	12/20/2012 11:41:23 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	2500	240		mg/Kg	50	12/20/2012 5:10:55 PM
Surr: BFB	115	84-116		%REC	50	12/20/2012 5:10:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	12	0.96		mg/Kg	20	12/20/2012 12:18:18 AM
Toluene	110	2.4		mg/Kg	50	12/20/2012 5:10:55 PM
Ethylbenzene	14	0.96		mg/Kg	20	12/20/2012 12:18:18 AM
Xylenes, Total	140	1.9		mg/Kg	20	12/20/2012 12:18:18 AM
Surr: 4-Bromofluorobenzene	119	80-120		%REC	20	12/20/2012 12:18:18 AM

<b>Qualifiers:</b>	* 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
	P Sample pH greater than 2	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:** SC-3 @ 4"

**Project:** Enterprise Howell M #1A

**Collection Date:** 12/14/2012 9:01:00 AM

**Lab ID:** 1212695-003

**Matrix:** SOIL

**Received Date:** 12/15/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	13			mg/Kg	1	12/21/2012 12:02:43 AM
Surr: DNOP	86.5	72.4-120		%REC	1	12/21/2012 12:02:43 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1000			mg/Kg	20	12/20/2012 6:08:34 PM
Surr: BFB	119	84-116	S	%REC	20	12/20/2012 6:08:34 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	3.7			mg/Kg	20	12/20/2012 12:47:00 AM
Toluene	46			mg/Kg	20	12/20/2012 6:08:34 PM
Ethylbenzene	6.6			mg/Kg	20	12/20/2012 12:47:00 AM
Xylenes, Total	69			mg/Kg	20	12/20/2012 12:47:00 AM
Surr: 4-Bromofluorobenzene	112	80-120		%REC	20	12/20/2012 12:47:00 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212695

27-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Howell M #1A

Sample ID	MB-5349	SampType	MBLK	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	PBS	Batch ID	5349	RunNo	7616					
Prep Date	12/19/2012	Analysis Date	12/20/2012	SeqNo	222041	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	8.4		10.00		84.0	72.4	120			

Sample ID	LCS-5349	SampType	LCS	TestCode	EPA Method 8015B: Diesel Range Organics					
Client ID	LCSS	Batch ID	5349	RunNo	7616					
Prep Date	12/19/2012	Analysis Date	12/20/2012	SeqNo	222042	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.3	47.4	122			
Surr: DNOP	3.8		5.000		75.4	72.4	120			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212695

27-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Howell M #1A

Sample ID	<b>MB-5297</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015B: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>5297</b>	RunNo:	<b>7599</b>					
Prep Date:	<b>12/17/2012</b>	Analysis Date:	<b>12/19/2012</b>	SeqNo:	<b>221170</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	84	116			

Sample ID	<b>LCS-5297</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015B: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>5297</b>	RunNo:	<b>7599</b>					
Prep Date:	<b>12/17/2012</b>	Analysis Date:	<b>12/19/2012</b>	SeqNo:	<b>221171</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.1	74	117			
Surr: BFB	960		1000		96.2	84	116			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212695

27-Dec-12

Client: Souder, Miller and Associates

Project: Enterprise Howell M #1A

Sample ID	<b>MB-5297</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>5297</b>	RunNo:	<b>7599</b>					
Prep Date:	<b>12/17/2012</b>	Analysis Date:	<b>12/19/2012</b>	SeqNo:	<b>221199</b>	Units:	<b>mg/Kg</b>			
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	1.0		1.000		105	80	120			

Sample ID	<b>LCS-5297</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>5297</b>	RunNo:	<b>7599</b>					
Prep Date:	<b>12/17/2012</b>	Analysis Date:	<b>12/19/2012</b>	SeqNo:	<b>221200</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	76.3	117			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	77	116			
Xylenes, Total	3.1	0.10	3.000	0	103	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

### 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               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

**Sample Log-In Check List**

Client Name: SMA-FARM Work Order Number: 1212695  
 Received by/date: AF 12/15/12  
 Logged By: Anne Thorne 12/15/2012 12:00:00 PM *Anne Thorne*  
 Completed By: Anne Thorne 12/17/2012 *Anne Thorne*  
 Reviewed By: *mg* 12/17/12

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

18. Additional remarks:

**19. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			





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

March 26, 2013

Tom Long

Souder, Miller and Associates  
2101 San Juan Boulevard  
Farmington, NM 87401  
TEL: (505) 330-0868  
FAX:

RE: Enterprise Howell M #1A

OrderNo.: 1303943

Dear Tom Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/23/2013 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](http://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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-1 @ 5'**Project:** Enterprise Howell M #1A**Collection Date:** 3/22/2013 9:50:00 AM**Lab ID:** 1303943-001**Matrix:** SOIL**Received Date:** 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2013 12:53:28 PM
Surr: DNOP	101	72.4-120		%REC	1	3/25/2013 12:53:28 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	9.1	5.0		mg/Kg	1	3/26/2013 1:22:37 AM
Surr: BFB	93.7	84-116		%REC	1	3/26/2013 1:22:37 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	0.18	0.050		mg/Kg	1	3/25/2013 3:44:01 PM
Toluene	0.59	0.050		mg/Kg	1	3/25/2013 3:44:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/25/2013 3:44:01 PM
Xylenes, Total	0.60	0.10		mg/Kg	1	3/25/2013 3:44:01 PM
Surr: 1,2-Dichloroethane-d4	90.8	70-130		%REC	1	3/25/2013 3:44:01 PM
Surr: 4-Bromofluorobenzene	90.7	70-130		%REC	1	3/25/2013 3:44:01 PM
Surr: Dibromofluoromethane	92.2	70-130		%REC	1	3/25/2013 3:44:01 PM
Surr: Toluene-d8	103	70-130		%REC	1	3/25/2013 3:44:01 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-2

Project: Enterprise Howell M #1A

Collection Date: 3/22/2013 9:52:00 AM

Lab ID: 1303943-002

Matrix: SOIL

Received Date: 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2013 11:48:06 AM
Surr: DNOP	102	72.4-120		%REC	1	3/25/2013 11:48:06 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	100	50		mg/Kg	10	3/26/2013 1:52:33 AM
Surr: BFB	93.5	84-116		%REC	10	3/26/2013 1:52:33 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	0.13	0.050		mg/Kg	1	3/25/2013 12:55:28 PM
Toluene	3.6	0.050		mg/Kg	1	3/25/2013 12:55:28 PM
Ethylbenzene	0.64	0.050		mg/Kg	1	3/25/2013 12:55:28 PM
Xylenes, Total	7.5	0.10		mg/Kg	1	3/25/2013 12:55:28 PM
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	3/25/2013 12:55:28 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%REC	1	3/25/2013 12:55:28 PM
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	3/25/2013 12:55:28 PM
Surr: Toluene-d8	97.0	70-130		%REC	1	3/25/2013 12:55:28 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3

Project: Enterprise Howell M #1A

Collection Date: 3/22/2013 9:54:00 AM

Lab ID: 1303943-003

Matrix: SOIL

Received Date: 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/25/2013 12:09:46 PM
Surr: DNOP	101	72.4-120		%REC	1	3/25/2013 12:09:46 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	9.2	5.0		mg/Kg	1	3/26/2013 2:22:33 AM
Surr: BFB	94.5	84-116		%REC	1	3/26/2013 2:22:33 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.050		mg/Kg	1	3/25/2013 1:23:46 PM
Toluene	0.19	0.050		mg/Kg	1	3/25/2013 1:23:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/25/2013 1:23:46 PM
Xylenes, Total	0.37	0.10		mg/Kg	1	3/25/2013 1:23:46 PM
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	1	3/25/2013 1:23:46 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%REC	1	3/25/2013 1:23:46 PM
Surr: Dibromofluoromethane	94.2	70-130		%REC	1	3/25/2013 1:23:46 PM
Surr: Toluene-d8	104	70-130		%REC	1	3/25/2013 1:23:46 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4

Project: Enterprise Howell M #1A

Collection Date: 3/22/2013 9:56:00 AM

Lab ID: 1303943-004

Matrix: SOIL

Received Date: 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2013 12:31:37 PM
Surr: DNOP	103	72.4-120		%REC	1	3/25/2013 12:31:37 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2013 2:52:32 AM
Surr: BFB	94.7	84-116		%REC	1	3/26/2013 2:52:32 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.050		mg/Kg	1	3/25/2013 4:12:26 PM
Toluene	ND	0.050		mg/Kg	1	3/25/2013 4:12:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/25/2013 4:12:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/25/2013 4:12:26 PM
Surr: 1,2-Dichloroethane-d4	86.1	70-130		%REC	1	3/25/2013 4:12:26 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	3/25/2013 4:12:26 PM
Surr: Dibromofluoromethane	94.4	70-130		%REC	1	3/25/2013 4:12:26 PM
Surr: Toluene-d8	102	70-130		%REC	1	3/25/2013 4:12:26 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-5

Project: Enterprise Howell M #1A

Collection Date: 3/22/2013 9:58:00 AM

Lab ID: 1303943-005

Matrix: SOIL

Received Date: 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/25/2013 11:26:16 AM
Surr: DNOP	106	72.4-120		%REC	1	3/25/2013 11:26:16 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	6.3	5.0		mg/Kg	1	3/26/2013 3:24:39 AM
Surr: BFB	93.2	84-116		%REC	1	3/26/2013 3:24:39 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	0.087	0.050		mg/Kg	1	3/25/2013 4:40:25 PM
Toluene	0.46	0.050		mg/Kg	1	3/25/2013 4:40:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/25/2013 4:40:25 PM
Xylenes, Total	0.57	0.10		mg/Kg	1	3/25/2013 4:40:25 PM
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	3/25/2013 4:40:25 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%REC	1	3/25/2013 4:40:25 PM
Surr: Dibromofluoromethane	92.6	70-130		%REC	1	3/25/2013 4:40:25 PM
Surr: Toluene-d8	104	70-130		%REC	1	3/25/2013 4:40:25 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303943

26-Mar-13

**Client:** Souder, Miller and Associates

**Project:** Enterprise Howell M #1A

Sample ID: <b>MB-6637</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>6637</b>	RunNo: <b>9387</b>								
Prep Date: <b>3/25/2013</b>	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268026</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		95.2	72.4	120			

Sample ID: <b>LCS-6637</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>6637</b>	RunNo: <b>9387</b>								
Prep Date: <b>3/25/2013</b>	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268027</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	95.0	47.4	122			
Surr: DNOP	5.1		5.000		103	72.4	120			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1303943

26-Mar-13

**Client:** Souder, Miller and Associates

**Project:** Enterprise Howell M #1A

Sample ID: <b>MB-6617</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>6617</b>	RunNo: <b>9401</b>								
Prep Date: <b>3/22/2013</b>	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268400</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.0	84	116			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>6617</b>	RunNo: <b>9401</b>								
Prep Date:	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268401</b>	Units: <b>%REC</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.6	84	116			

Sample ID: <b>MB-6617</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R9401</b>	RunNo: <b>9401</b>								
Prep Date: <b>3/22/2013</b>	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268424</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	84	116			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R9401</b>	RunNo: <b>9401</b>								
Prep Date:	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268425</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	62.6	136			
Surr: BFB	1000		1000		99.6	84	116			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1303943

26-Mar-13

**Client:** Souder, Miller and Associates

**Project:** Enterprise Howell M #1A

Sample ID: <b>5ml-rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R9399</b>	RunNo: <b>9399</b>								
Prep Date:	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268552</b>	Units: <b>mg/Kg</b>							
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: 1,2-Dichloroethane-d4	0.45		0.5000		89.5	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.1	70	130			
Surr: Toluene-d8	0.48		0.5000		95.0	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R9399</b>	RunNo: <b>9399</b>								
Prep Date:	Analysis Date: <b>3/25/2013</b>	SeqNo: <b>268558</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	70	130			
Toluene	1.0	0.050	1.000	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.6	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.3	70	130			
Surr: Toluene-d8	0.47		0.5000		94.5	70	130			

**Qualifiers:**

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

Client Name: SMA-FARM

Work Order Number: 1303943

RcptNo: 1

Received by/date: AT 03/23/13

Logged By: **Anne Thorne** 3/23/2013 10:26:00 AM

Completed By: **Anne Thorne** 3/23/2013

Reviewed By: AT 03/23/13

**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?

**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? Yes  No   
(Note discrepancies on chain of custody)
- 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? Yes  No   
(If no, notify customer for authorization.)

# 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	1.6	Good	Yes			

# Chain-of-Custody Record

Turn-Around Time:

Standard  Rush same Day

Project Name: Enterprise Howell M #1A

Project #: 5132104

Project Manager: Thomas Long

Sampler: Thomas Long

On Ice:  Yes  No

Sample Temperature: 16

AT 03/23/13  
Container Type and #  
Meott kits

Preservative Type: ICE

HEAL No: 1303943

(1) 102 Jar



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Client: SMA

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

Phone #: 505-325-7535

email or Fax#: Tom.Long@Sawden-Miller.com

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

Accreditation  
 NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Request ID	AT 03/23/13 Container Type and # Meott kits	Preservative Type	HEAL No	BTEX + MTBE + TMS (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
2-13	0950	Soil	SC-1 @ 5'	(1) 102 Jar	ICE	-001	Y	Y										
	0950		SC-2			-002	Y	Y										
	0954		SC-3			-003	Y	Y										
	0956		SC-4			-004	Y	Y										
	0958		SC-5			-005	Y	Y										

Date: 2-13 Time: 1546 Relinquished by: Thomas Long

Received by: Christina Waetjen Date: 3/12/13 Time: 1546

Date: 1/22/13 Time: 1725 Relinquished by: Christina Waetjen

Received by: Chris Long Date: 03/23/13 Time: 1026

Remarks: Bill To Enterprise USE Names on Labels

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.

22590



**Industrial Ecosystems Inc.**

#49 C.R. 3150 • Aztec, NM 87410  
Phone: 505-632-1782 • Fax: 505-632-1876

Customer Enterprise

Unit: 47-2  
Employee: Excavation  
Contact: Aaron Dainley  
Date: 3-21-13  
PO#: \_\_\_\_\_  
Billing Code: \_\_\_\_\_

Location Name Howell m #1A

Jicarilla Apache Land  Southern Ute Land

LABOR	HRS/UNITS	RATE	TOTAL
Equipment Operator	41000.1	Hours/Day	Per hour/day
General Laborer	41000.1	Hours	Per hour
Project Manager	41000.1	Hours	Per hour
Per Diem	41000.1	Hours	Per day/man
Travel Time	41000.1	Hours	Per hour
PSI	41000.1	Hours	Per hour
Route Survey	41000.1	Hours	Per hour
<b>EQUIPMENT</b>			
4wd Pickup	42000.1	Miles	Per mile
12yd Dump Truck	42000.1	Hours	Per hour
18yd Side Dump	42000.1	Hours	Per hour
Backhoe with Operator	42000.1	Hours	Per hour
Loader with Operator	42000.1	Hours	Per hour
Excavator with Operator	42000.1	Hours	Per hour
Portable Pressure Wash	42000.1	Hours/Day	Per hour/day
Portable Pres. Wash Unit	42000.1	Hours	Per hour
80 Barrel Vacuum Truck	42000.1	Hours	Per hour
King Vac.Truck with Crew	42000.1	Hours	Per hour
Mileage	42000.1	Miles	Per mile
SCBA (Breathing Apparatus)	42000.1	Day	Per day
SCBA Refill	42000.1	Each	Per Refill
LEL,O <sub>2</sub> ,H <sub>2</sub> S Monitoring	42000.1	Day	Per day
Compressor	42000.1	Hours/Day	Per hour/day
Air Horn	42000.1	Day	Per day
Line Locator	42000.1	Day	Per day
<b>SERVICES</b>			
Chloride Test	45000.2	1 Each	\$ 15.00 Per test
Mobile Dewatering	42100.1	Hours/Day	Per hour/day
Mob/Demob	42100.1	Hours	Per hour
Monthly Maintenance	45000.1	Month	Per month
<b>SUPPLIES</b>			
Soap/Degreaser		Gallons	Per gallon
Virgin Soil/Gravel	45500.2	44 Cubic yard	\$ 5.50 Per yard
<b>DISPOSAL &amp; MISC.</b>			
Disposal Fee (solids)	44000.2	44 Cubic yard	\$ 18.50 Per yard
Disposal Fee (liquids)	44100.2	Per barrel	Per barrel
Facility Use Fee	42000.2	Each	Each

Comments: Cont Soil

Sub Total	1,071.00
Tax	
Total	

Employee Signature \_\_\_\_\_

Customer Signature \_\_\_\_\_

FOR BILLING INQUIRIES PLEASE CALL (505) 632-1782  
AMOUNTS ARE DUE NET 30 DAYS. PURCHASER AGREES TO PAY FINANCE CHARGES OF 1.5% PER MONTH (ANNUAL PERCENTAGE RATE OF 18%) OR A MINIMUM CHARGE OF .50 PER MONTH. ACCOUNTS THAT HAVE BEEN PLACED FOR COLLECTION WILL BE CHARGED A \$100.00 COLLECTION FEE IN ADDITION TO REASONABLE ATTORNEY FEES AND COLLECTION CHARGES.



# Industrial Ecosystems Inc.

#49 C.R. 3150 • Aztec, NM 87410  
 Phone: 505-632-1782 • Fax: 505-632-1876

22593

Customer Enterprise

Unit: 2,47  
 Employee: Excavation  
 Contact: Aaron Daily  
 Date: 3-22-13

Location Name Howell m #1A

Jicarilla Apache Land  Southern Ute Land

Billing Code: \_\_\_\_\_

LABOR	HRS/UNITS	RATE	TOTAL
Equipment Operator	41000.1	Hours/Day \$	Per hour/day \$
General Laborer	41000.1	Hours \$	Per hour \$
Project Manager	41000.1	Hours \$	Per hour \$
Per Diem	41000.1	Hours \$	Per day/man \$
Travel Time	41000.1	Hours \$	Per hour \$
PSI	41000.1	Hours \$	Per hour \$
Route Survey	41000.1	Hours \$	Per hour \$
<b>EQUIPMENT</b>			
4wd Pickup	42000.1	Miles \$	Per mile \$
12yd Dump Truck	42000.1	Hours \$	Per hour \$
18yd Side Dump	42000.1	Hours \$	Per hour \$
Backhoe with Operator	42000.1	Hours \$	Per hour \$
Loader with Operator	42000.1	Hours \$	Per hour \$
Excavator with Operator	42000.1	Hours \$	Per hour \$
Portable Pressure Wash	42000.1	Hours/Day \$	Per hour/day \$
Portable Pres. Wash Unit	42000.1	Hours \$	Per hour \$
80 Barrel Vacuum Truck	42000.1	Hours \$	Per hour \$
King Vac Truck with Crew	42000.1	Hours \$	Per hour \$
Mileage	42000.1	Miles \$	Per mile \$
SCBA (Breathing Apparatus)	42000.1	Day \$	Per day \$
SCBA Refill	42000.1	Each \$	Per Refill \$
LEL, O <sub>2</sub> , H <sub>2</sub> S Monitoring	42000.1	Day \$	Per day \$
Compressor	42000.1	Hours/Day \$	Per hour/day \$
Air Horn	42000.1	Day \$	Per day \$
Line Locator	42000.1	Day \$	Per day \$
<b>SERVICES</b>			
Chloride Test	45000.2	Each \$	Per test \$
Mobile Dewatering	42100.1	Hours/Day \$	Per hour/day \$
Mob/Demob	42100.1	Hours \$	Per hour \$
Monthly Maintenance	45000.1	Month \$	Per month \$
<b>SUPPLIES</b>			
Soap/Degreaser		Gallons \$	Per gallon \$
Virgin Soil/Gravel	45500.2	Cubic yard \$5.30	Per yard \$121.00
<b>DISPOSAL &amp; MISC.</b>			
Disposal Fee (solids)	44000.2	Cubic yard \$18.50	Per yard \$407.00
Disposal Fee (liquids)	44100.2	Per barrel \$	Per barrel \$
Facility Use Fee	42000.2	Each \$	Each \$

Comments: Cont Soil

Sub Total 528.00  
 Tax County  
 Total

Employee Signature \_\_\_\_\_  
 Customer Signature \_\_\_\_\_

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