

**3R-1011**

**Release Report/ General  
Correspondence**

**Enterprise SJ**

**Date: Jan-Mar 2014**

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jacquez LS#3 Well Site	Facility Type: Meter Tube/Methanol Tank

Surface Owner: Private	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

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

Latitude 36.78623 Longitude -107.71744

**NATURE OF RELEASE**

Type of Release: Natural gas/Methanol/Condensate liquids/Paraffin	Volume of Release: <b>Unknown</b>	Volume Recovered
Source of Release: Natural gas meter tube/meter run/Methanol Tank	Date and Hour of Occurrence: 12/17/2013 @ 10:12 a.m.	Date and Hour of Discovery: 12/17/2013 @ 10:12 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Thomas Long	Date and Hour 12/17/2013 4:02 p.m.	<b>RCUD JAN 6 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<b>OIL CONS. DIV.</b>

**DIST. 3**

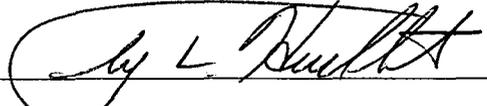
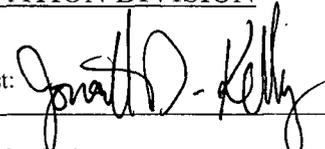
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A production company lease operator discovered a release associated with a methanol tank. The sight glass valve on the methanol tank froze and broke. The well was shut in and the meter run was blown down and LOTO was applied.

Describe Area Affected and Cleanup Action Taken.\*

Natural gas/Methanol/Condensate liquids/Paraffin impacted an area of approximately 60 feet long by 40 feet wide. Remediation activities were completed on December 21, 2013. Approximately 50 cubic yards of impacted soil and approximately 7 barrels of water and soil (hydro excavation material) were disposed of at a NMOCD approved landfarm. A "final" c-141 will be submitted once corrective action report has been completed.

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: Ferry L. Hurlburt	Approved by Environmental Specialist: 	
Title: Group Sr. Vice President	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/30/2013 Phone: 713-381-6595		

\* Attach Additional Sheets If Necessary

nJK1416930206  
NCS 143 385 3136

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Revised August 8, 2011

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**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: <b>Blanco 30-12 #100S</b>	Facility Type: Well Site – Meter Tube/Meter Run
Surface Owner: Private	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
O	10	30N	12W					San Juan

Latitude 36.8229 Longitude -108.0846

**NATURE OF RELEASE**

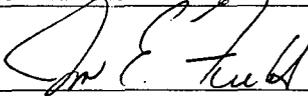
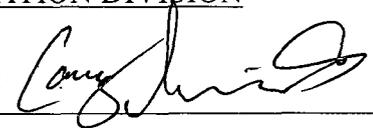
Type of Release: Natural gas and possible associated liquids	Volume of Release: <b>32mcf</b>	Volume Recovered: <b>To be determined</b>
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: <b>12/14/2013 @ 6:00 p.m.</b>	Date and Hour of Discovery: <b>12/14/2013 @ 6:00 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour	<b>RCVD JAN 2 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<b>OIL CDNS. DIV. DIST. 3</b>

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* On 12/14/2013 a gas leak occurred on a meter run at a producer's well location. An employee of the production company shut in the meter run and stopped the leak at about 6:00 PM. They estimate the leak lasted about 1.5 hours. The production company notified the Enterprise measurement department on 12/15/2013 at approximately 8:20 AM. An Enterprise measurement supervisor responded to the location to investigate and repair the problem. A gasket in the orifice flange had blown out due to liquids freezing in piping a meter tube. He replaced the gaskets and orifice plate and put the meter run back in service. Approximately 32 square feet of soil was stained from released water and condensate. Third party environmental contractor will oversee remediation activities and collect closure samples.

Describe Area Affected and Cleanup Action Taken.\* Approximately 32 square feet of soil was stained from released water and condensate. Third party environmental contractor will oversee remediation activities and collect closure samples.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: <u>5/6/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/20/2013	Phone: 713-381-6684	

\* Attach Additional Sheets If Necessary

# NCS 141 262 6966

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Revised August 8, 2011

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**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: EPNG COM D #5A	Facility Type: Well Site/Meter Tube

Surface Owner: BLM	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	36	30N	8W					San Juan

Latitude 36.77370 Longitude -107.63242

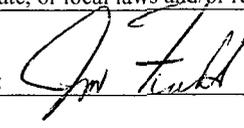
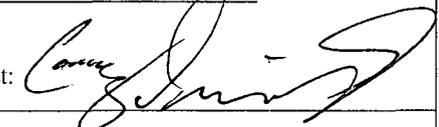
**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids/ produced water	Volume of Release: 45 mcf	Volume Recovered: To Be Determined
Source of Release: Equipment Failure on a Meter Tube	Date and Hour of Occurrence: 1/2/2014 @ 3:10 p.m.	Date and Hour of Discovery: 1/2/2014 @ 3:10 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly NMOCD, Brandon Powell NMOCD; Sherrie Landon BLM	
By Whom? Thomas Long	Date and Hour: 1/3/2014 @ 3:46 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A release from meter tube due to equipment failure at the well site called the EPNG Com D#5A. An area of approximately 1,900 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured.  
RCVD JAN 21 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\*  
A release from meter tube due to equipment failure at the well site called the EPNG Com D#5A. An area of approximately 1,900 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured. Third party environmental contractor oversaw remediation activities and collected closure samples on 1-10-14. Impacted soil was transported to a NMOCD land farm facility. A "final" c-141 will be submitted upon receipt of the 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 9/4/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-16-2014	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

#NCS 142 4749347

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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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Howell M#1A Well Site	Facility Type: Well Site Meter Run/Meter Tube
Surface Owner: BLM	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
M	31	30N	8W					San Juan

Latitude 36.7623 Longitude -107.7178

**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids	Volume of Release: <b>62 mcf</b>	Volume Recovered: Approximately 70 cubic yards
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: <b>12/13/2013 @ 10:00 a.m</b>	Date and Hour of Discovery: <b>12/13/2013 @ 10:00 a.m</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Thomas Long	Date and Hour 12/16/2013 7:16 a.m.	<b>PCUD JAN 2 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

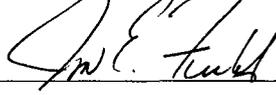
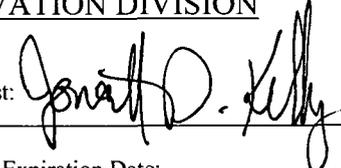
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A production company lease operator discovered gas leaking from a meter tube flange. The lease operator closed the upstream and downstream valves to stop the leak. The leak was due to a failed orifice flange gasket. LOTO was applied.

Describe Area Affected and Cleanup Action Taken.\*

An area of approximately 830 square feet was impacted. Remediation activities were completed on December 18, 2013. Approximately 70 cubic yards of impacted soil were disposed of at a NMOCD approved landfarm. A "final" c-141 will be submitted once corrective action report has been completed.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/20/2013	Phone: 713-381-6684	

\* Attach Additional Sheets If Necessary

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Revised August 8, 2011

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**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lambe #3M Well Site	Facility Type: Well Site Meter Run/Meter Tube
Surface Owner: BLM	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
J	21	31N	10W					San Juan

Latitude 36.87996 Longitude -107.88506

**NATURE OF RELEASE**

Type of Release: Natural gas and possible associated liquids	Volume of Release: <b>113 mcf</b>	Volume Recovered: <b>To be determined</b>
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: <b>12/12/2013 @ 1:30 p.m</b>	Date and Hour of Discovery: <b>12/12/2013 @ 1:30 p.m</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	<b>RCVD JAN 2 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

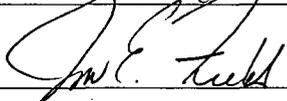
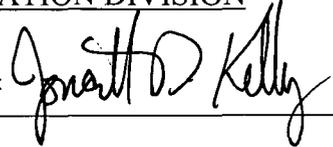
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Measurement technician found gas leaking from the orifice flange and the upstream flange when he visited location to calibrate meter. The technician locked and tagged out meter run and replaced both flange gaskets. There was not visual damage to the meter tube. An area of approximately 150 square feet (15 feet long by 10 feet wide) of soil staining was observed.

Describe Area Affected and Cleanup Action Taken.\*

An area of approximately 150 square feet of soil staining was observed. Third party environmental contractor is scheduled to collect closure samples during remediation activities scheduled for December 23, 2013. A "final" c-141 will be submitted once corrective actions and report have been completed.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/20/2013	Phone: 713-381-6684	

\* Attach Additional Sheets If Necessary

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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Gartner LS #6M Well Site	Facility Type: Well Site Meter Run/Meter Tube
Surface Owner: BLM	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
J	27	30N	8W					San Juan

Latitude 36.780385 Longitude -107.660152

**NATURE OF RELEASE**

Type of Release: Natural gas and possible associated liquids	Volume of Release: 113 mcf	Volume Recovered: To be determined
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/13/2013 @ 4:13 p.m	Date and Hour of Discovery: 12/13/2013 @ 4:13 p.m
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	RCVD JAN 2 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

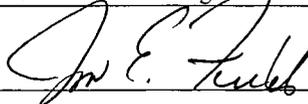
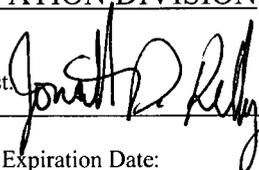
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Pipeline technician reported to supervisor that they had driven onto a location and discovered a coupon valve on the bottom of a dogleg was leaking and blowing gas. Supervisor and other area technicians arrived and LOTO was applied and the broken valve was replaced. An area of staining of approximately 10 feet wide by 10 feet long was observed.

Describe Area Affected and Cleanup Action Taken.\*

An area of approximately 10 feet wide by 10 feet long was observed. Third party environmental contractor is scheduled to collect closure samples during remediation activities scheduled for December 27, 2013. A "final" c-141 will be submitted once corrective actions and report have been completed.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: 6/18/2014	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/20/2013	Phone: 713-381-6684	

\* Attach Additional Sheets If Necessary

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1220 South St. Francis Dr.  
Santa Fe, NM 87505  
**JUN 16 2014**

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Rachael #2	Facility Type: Well Site

Surface Owner: NAPI/Navajo Tribal	Mineral Owner: NAPI/Navajo Tribal	API No. 30-045-22285
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North <u>South</u> Line	Feet from the	<u>East</u> West Line	County
J	34	26N	12W	1458		1010		San Juan

Latitude 36.441434 Longitude -108.093404

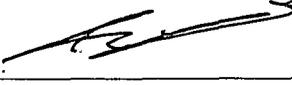
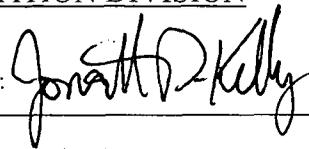
**NATURE OF RELEASE**

Type of Release: Natural Gas, Produced Water, and Condensate	Volume of Release: <b>Estimated 2-3 bbls of fluids; Estimated 5 MCF gas release</b>	Volume Recovered: <b>To be Determined</b>
Source of Release: Equipment Damage	Date and Hour of Occurrence: <b>5/30/2014 @ 11:43 a.m.</b>	Date and Hour of Discovery: <b>5/30/2014 @ 12:00 p.m.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith – NMOCD, Eric Trevizo – NAPI Safety, Steve Austin – NNEPA, Mike Freeman – NAPI Management	
By Whom? Thomas Long	Date and Hour <b>5/30/2014 @ 3:01 p.m. phone call and email</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* At 11:43 a.m. on May 30, 2014, a NAPI contractor (Wilbur-Ellis Company) was spraying herbicide at the NAPI 467A field when the contractor stuck the meter house and meter tube located at the Rachel #2 well site with the sprayer attached to the tractor. As a result of the collision, the drip on the meter tube was broken and the meter house was significantly damaged. Natural gas, condensate and water was released. The meter tube was shut in and LOTO was applied. An area of approximately 50 feet by 30 feet was affected. No fire or injuries resulted from the incident.

Describe Area Affected and Cleanup Action Taken.\* An area of approximately 50 feet by 30 feet was affected. Remediation activities are scheduled for the week of June 16, 2014. A third party environmental contractor will oversee remediation activities. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Ivan Zirbes	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: iwzirbes@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>6-11-14</u> Phone: (713) 381-1753		

\* Attach Additional Sheets If Necessary

nJK1416941605  
NCS 1433852671 (t)

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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Morris #3 Well Site	Facility Type: Well Site/Meter Tube
Surface Owner: BLM	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
P	14	27N	10W					San Juan

Latitude 36.56912 Longitude -107.8574

**NATURE OF RELEASE**

Type of Release: Natural Gas	Volume of Release: <b>950 MCF</b>	Volume Recovered: None
Source of Release: Drip Pot Knock Out/RTD on a Meter Tube	Date and Hour of Occurrence: <b>1/14/2014 @ 12:00 p.m.</b>	Date and Hour of Discovery: <b>1/14/2014 @ 12:00 p.m.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Charlie Perrin and Brandon Powell - NMOCD</b>	
By Whom? Thomas Long	Date and Hour: <b>1/14/2014 @ 1:50 p.m.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

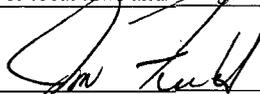
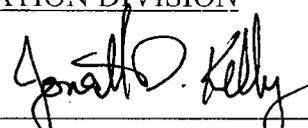
Describe Cause of Problem and Remedial Action Taken.\* The meter tube was damaged by a boulder rolling down the hill next to the well location damaging the drip pot and RTD. No fluids were released.

**OIL CONS. DIV DIST. 3**

**JAN 27 2014**

Describe Area Affected and Cleanup Action Taken.\* No fluids were released. No remediation required.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>1/14/2014</u>	Expiration Date:
E-mail Address: : jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>1-21-14</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

**nJK 1424750061**

①

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

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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Atlantic C#1A Well Site	Facility Type: Well Site/Meter Tube

Surface Owner: Private	Mineral Owner: BLM	API No.
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	35	31N	10W					San Juan

Latitude 36.86002 Longitude -107.8559

#### NATURE OF RELEASE

Type of Release: Natural gas and condensate liquids/ produced water	Volume of Release: <b>89 MCF</b>	Volume Recovered: To Be Determined
Source of Release: Orifice Flange on a Meter Tube	Date and Hour of Occurrence: <b>1/8/2014 @ 4:30 p.m.</b>	Date and Hour of Discovery: <b>1/8/2014 @ 4:30 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	<b>OIL CONS. DIV DIST. 3</b>
By Whom? Thomas Long	Date and Hour:	<b>JAN 27 2014</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

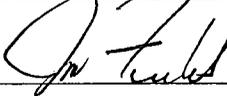
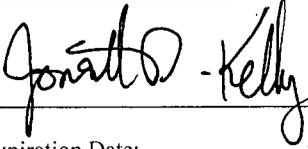
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A release from an orifice flange on a meter tube at the Atlantic C#1A well site. An area of 400 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured.

Describe Area Affected and Cleanup Action Taken.\*

A release from an orifice flange on a meter tube at the Atlantic C#1A well site. An area of 400 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured. Third party environmental contractor oversaw remediation activities and collected closure samples on 1-16-14. Approximately twenty-five (25) cubic yards of impacted soil was transported to a NMOCD land farm facility. A "final" c-141 will be submitted upon receipt of the 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>9/4/2014</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>1-20-2014</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

NJR 1424750531

①

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: JE Decker #3B Well Site	Facility Type: Well Site/Meter Tube

Surface Owner: BLM	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	17	32N	11W					San Juan

Latitude 36.98684 Longitude -108.0182

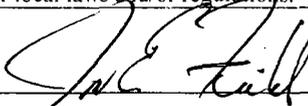
**NATURE OF RELEASE**

Type of Release: Natural Gas	Volume of Release: 60 MCF	Volume Recovered: To Be Determined
Source of Release: Orifice Flange on a Meter Tube	Date and Hour of Occurrence: 1/9/2014 @ 11:00 p.m.	Date and Hour of Discovery: 1/9/2014 @ 11:00 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>OIL CONS. DIV DIST. 3</b>	
By Whom? Thomas Long	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>JAN 27 2014</b>	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A release from an orifice flange on a meter tube at the JE Decker #3B well site. The well was isolated and LOTO (lock out tag out) was applied, repairs were completed, the meter run was put back in service. No fluids were released.

Describe Area Affected and Cleanup Action Taken.\* A release from an orifice flange on a meter tube at the JE Decker #3B well site. The well was isolated and LOTO (lock out tag out) was applied, repairs were completed, the meter run was put back in service. No fluids were released.

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: Jon 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 <input type="checkbox"/>
Date: 1-20-2014	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

# NCS 141 3531673

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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Gerk Com #1	Facility Type: Well Tie/Gathering Line
Surface Owner: Private	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
B	30	29N	9W					San Juan

Latitude 36.700710 Longitude -107.817140

**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: <b>Unknown</b>	Volume Recovered: Approximately 100 Cubic Yards
Source of Release: External Damage	Date and Hour of Occurrence: <b>1/14/2014 @ 1:15p.m.</b>	Date and Hour of Discovery: <b>1/14/2014 @ 1:15p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour: <b>1/22/2014 @ 1:00 p.m.</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

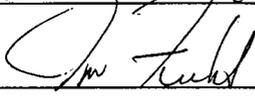
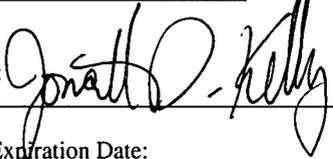
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A release from the well tie to the Gerk Gas Com #1. The release was due external damage to the pipeline. The well was isolated and LOTO (lock out tag out) was applied. Repairs are scheduled for the week of 1/20/14.

RCVD JAN 30 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\* An area of estimated twenty-five (25) feet by twenty-five (25) feet was impacted. Third party environmental contractor will oversee remediation activities and collected closure samples. Approximately one hundred (100) cubic yards of impacted soil was transported to a NMOCD land farm facility. A "final" c-141 will be submitted upon receipt of the 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>6/18/2014</u>	Expiration Date:
E-mail Address: : jefields@eprod.com	Conditions of Approval:	
Date: <u>1-24-2014</u> Phone: (713)381-6684	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

nJK 1416956720



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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral H-46/Bruington 15G Well Tie	Facility Type: Well Tie/Gathering Line

Surface Owner: Private	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter F	Section 15	Township 30N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.81439 Longitude -107.98055

**NATURE OF RELEASE**

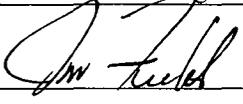
Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: <b>Unknown</b>	Volume Recovered: <b>Unknown</b>
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 1/23/2014 @ 10:30 a.m.	Date and Hour of Discovery: 1/23/2014 @ 10:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour.	<b>RCUD FEB 10 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Lateral H-46/Bruington 15G well tie on 1-23-14. The release is assumed to be from internal corrosion. The well was isolated and LOTO (lock out tag out) was applied. Repairs were completed during the week of January 27, 2014.

Describe Area Affected and Cleanup Action Taken.\* An area of estimated fifteen (15) feet by fifteen (15) feet was impacted. Third party environmental contractor has overseen initial remediation/excavation activities and will continue to oversee additional remediation activities scheduled for the week of January 10, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-5-2014</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

# NCS 141 185 5417

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District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
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1000 Rio Brazos Road, Aztec, NM 87410  
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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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Payne #221 Well Tie	Facility Type: Well Tie/Gathering Line
Surface Owner: Private	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
C	22	32N	10W					San Juan

Latitude 36.977664 Longitude -107.874914

**NATURE OF RELEASE**

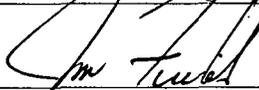
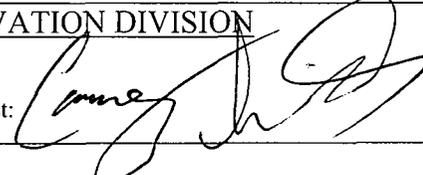
Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: <b>Unknown</b>	Volume Recovered: <b>Unknown</b>
Source of Release: External Damage	Date and Hour of Occurrence: 1/22/2014 @ 10:30 a.m.	Date and Hour of Discovery: 1/22/2014 @ 10:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy Notification to Jonathon Kelly - NMOCD	
By Whom? Thomas Long	Date and Hour: 1/24/2014 @ 11:37a.m.	RCVD FEB 10 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A release associated with the well tie to the Payne #221 well site. The release was due internal corrosion of to the pipeline. Approximately 35 gallons of produced water was release to the surface. The well was isolated and LOTO (lock out tag out) was applied. Repairs are completed the week of January 27, 2014.

Describe Area Affected and Cleanup Action Taken.\* An area of estimated thirty-five (35) feet by three (3) feet wide was impacted. Third party environmental contractor collected closure samples during the repair activities. Approximately thirty-five barrels of water and soils associated with hydro-excavation activities were transported to a NMOCD land farm facility. A "final" c-141 will be submitted upon receipt of the 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 4/25/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-5-2014 Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

#NCS 141 1805 64175

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District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lambe #3M Well Site	Facility Type: Well Site Meter Run/Meter Tube

Surface Owner: BLM	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
O	21	31N	10W					San Juan

Latitude 36.879697 Longitude -107.885211

**NATURE OF RELEASE**

Type of Release: Natural gas and possible associated liquids	Volume of Release: 113 MCF	Volume Recovered: Unknown
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/12/2013 @ 1:30 p.m	Date and Hour of Discovery: 12/12/2013 @ 1:30 p.m
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	RCUDEFER 10 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

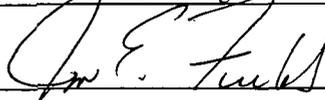
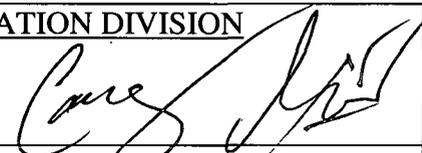
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Measurement technician found gas leaking from the orifice flange and the upstream flange when he visited location to calibrate meter. The technician locked and tagged out meter run and replaced both flange gaskets. There was not visual damage to the meter tube.

Describe Area Affected and Cleanup Action Taken.\*

An area of approximately 25 feet long by 25 feet wide was affected. Third party environmental oversaw remediation activities and collected closure samples. Approximately thirty-six (36) cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved land farm facility. A third party corrective action report is included with this "final" c-141.

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.

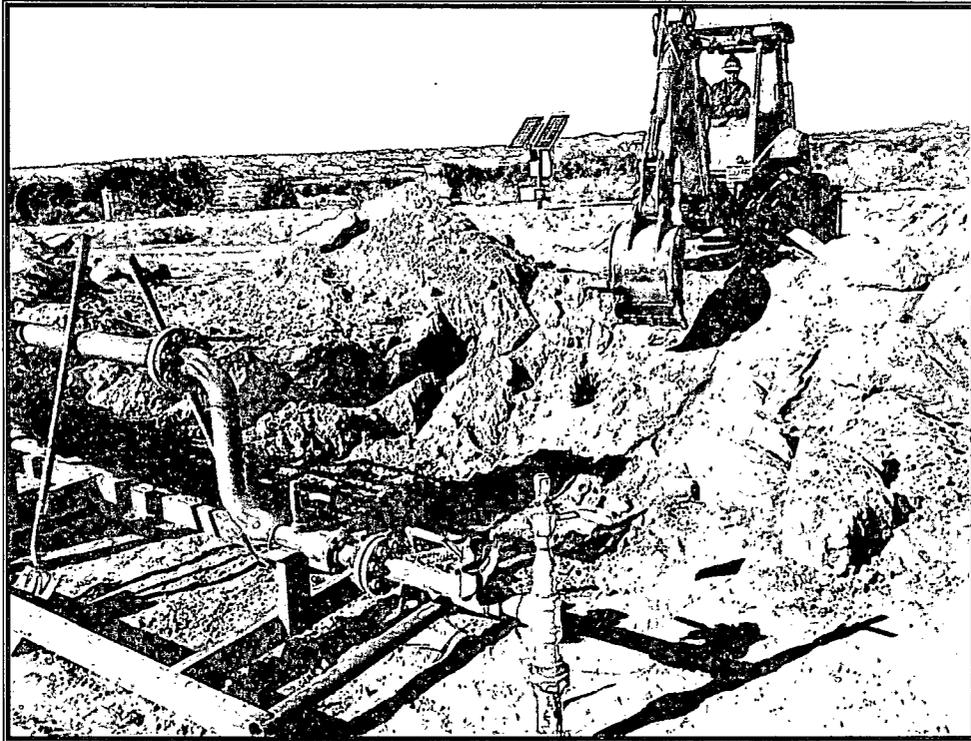
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Compliance	Approval Date: 5/9/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-5-2014 Phone: (713) 381-6684		

\* Attach Additional Sheets If Necessary

# NCS 141 2929 444

38

Enterprise Products  
Lambe #3M Meter Run Release  
Latitude North 36.879697, Longitude West -107.885211  
Unit O Section 21 T31N R10W  
San Juan County, New Mexico  
January 27, 2014



**Submitted To:**

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

**Submitted By:**

Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505) 325-7535

OIL CONS. DIV DIST. 3  
MAY 06 2014



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### **Appendices:**

- Appendix A: Field Notes
- Appendix B: Site Photography
- Appendix C: Soil Disposal Documentation
- Appendix D: Laboratory Analytical Reports

### 1.0 Executive Summary

Between December 23 and 27, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lambe #3M meter run. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lambe #3M Meter Run Release			
Location	Latitude/Longitude		Section, Township, Range (SW/SE)	
		36.879697	-107.885211	Unit O Section 21
Date Reported	December 18, 2013			
	Thomas Long			
Land Owner	Bureau of Land Management (BLM)			
Reported To	New Mexico Oil Conservation Division (NMOCD) and BLM			
Diameter of Pipeline	2 inches			
Source of Release	Freezing			
Release Contents	Natural Gas Liquids/Condensate			
Release Volume: Natural Gas	133 MCF			
Release Volume: Liquids/Condensate	Unknown			
Nearest Waterway	Hart Canyon			
Depth to Groundwater	Greater than 100 feet			
Nearest Domestic Water Source	Greater than 200 feet			
NMOCD Ranking	10			
SMA Response Dates	12/23/13, 12/24/13, 12/26/13, and 12/27/2013			
Subcontractors	Energy Maintenance Services (EMS)			
Disposal Facility	Industrial Ecosystems Incorporated (IEI)			
Yd <sup>3</sup> Contaminated Soil Excavated and Disposed	36			

## 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 2-inch meter run release. The release was due to the meter run freezing and 133 MCF of Natural Gas was lost. The amount of Liquids/Condensate lost is unknown. The release was reported December 18, 2013 and was located in (SW/SE) Unit O, Section 21, Township 31 North, Range 10 West, 36.879697, -107.885211, 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 approximately 500 feet south of an unnamed wash that is a tributary to the Hart Canyon wash on land owned by BLM with an elevation of approximately 6,200 feet above sea level. After evaluation of the sites using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 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 were located within 1,000 feet of the site. However, two wells were located within a 1-mile radius of the site, but there is no anticipated impact to these wells.

The physical location of this release is within the jurisdiction of BLM and NMOCD. This release location has been assigned a NMOCD ranking of 10 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 1,000 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

## 4.0 Summary of Field Activities

Upon discovery of the release, Enterprise personnel repaired the leaking meter tube. On December 23, 24, 26 and 27, 2013, SMA mobilized to the release site to oversee excavation activities and to delineate the release area through field screening using a calibrated photoionization detector (PID). During the excavation, soil samples were collected for field screening to determine the extent of the release. Under the supervision and direction of SMA, EMS excavated and transported the hydrocarbon impacted soil. Tables 3 summarize the field screening results. Field notes for these events are included in Appendix A.

The final excavation measured approximately 25 feet long by 25 feet wide with the excavation depth ranging from approximately 0.75 feet to 3.5 feet below ground surface.

---

Field screening of the excavated material determined that the soils removed were not suitable for use as backfill material. Approximately 36 cubic yards of impacted soil was transported to Industrial Ecosystems Inc. Landfarm, on Crouch Mesa near Bloomfield, New Mexico for disposal. A certificate of waste is included in Appendix C.

All laboratory soil samples 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 3 illustrates the extent of the excavation and laboratory results.

## 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 10: 10 ppm benzene, 50 ppm total BTEX, and 1000 ppm TPH. Sample SC-20 exceeded the individual standards for Toluene (0.056ppm) and DRO (23ppm), but both were below the NMOCD Guideline concentrations for total BTEX and TPH, respectively. Laboratory analysis of the excavation detected benzene, total BTEX, and TPH (GRO/DRO) at concentrations below the NMOCD Guidelines for all other samples. The impacted soil was hauled off site for disposal. 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.

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## 6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, 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 Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

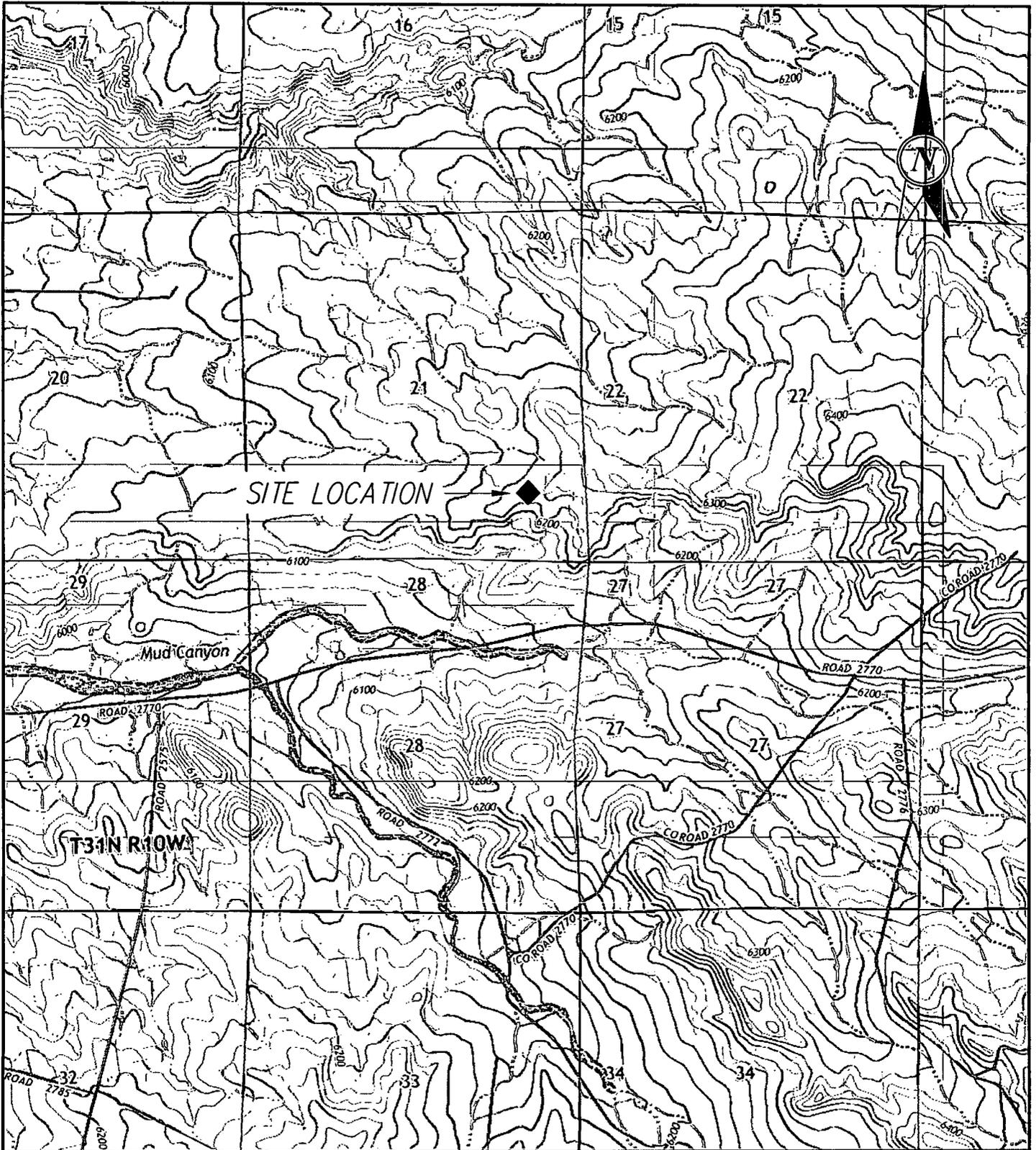


Steve Moskal  
Project Scientist

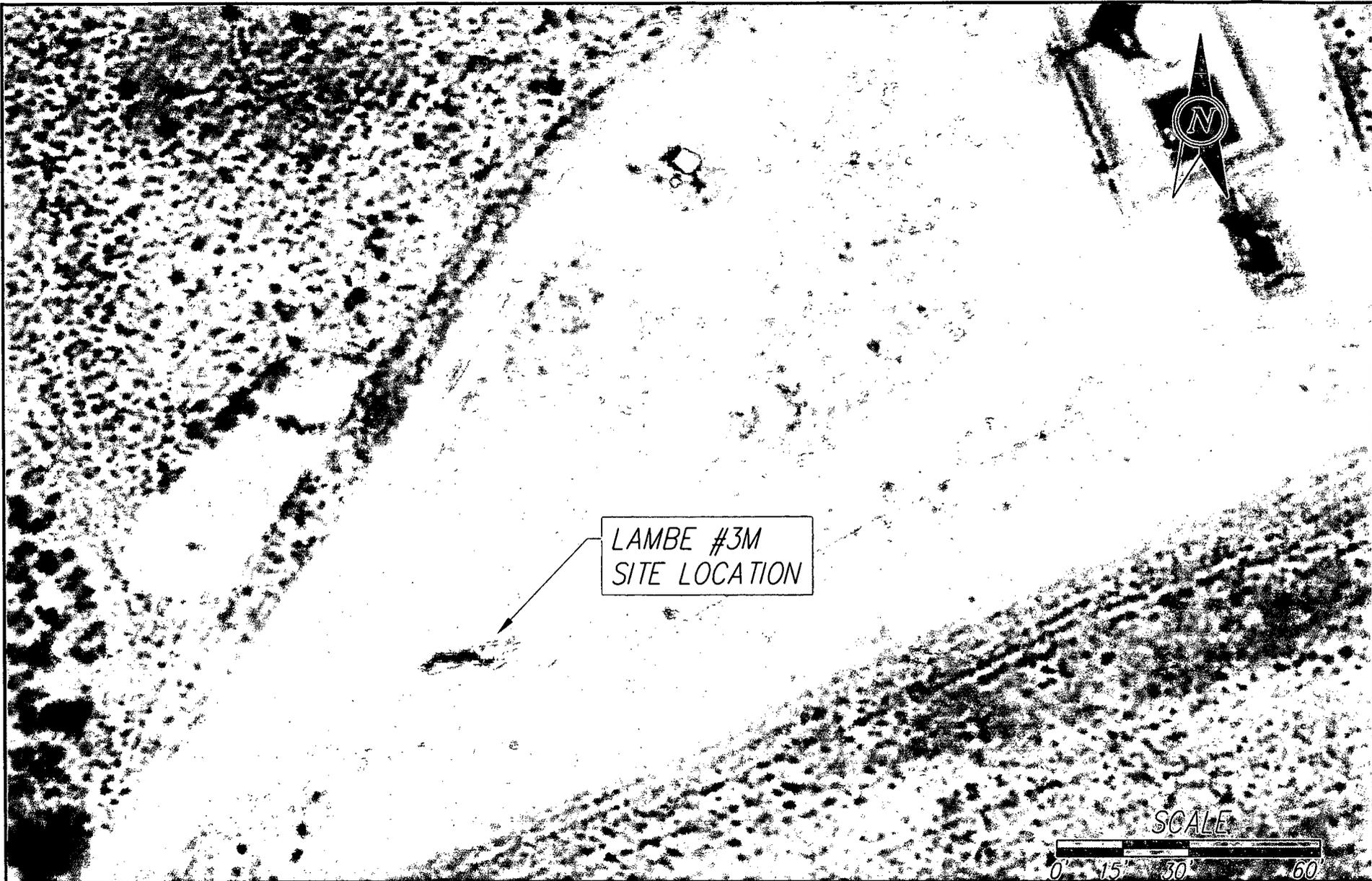


Reid S. Allan, PG  
Principal Scientist

## FIGURES



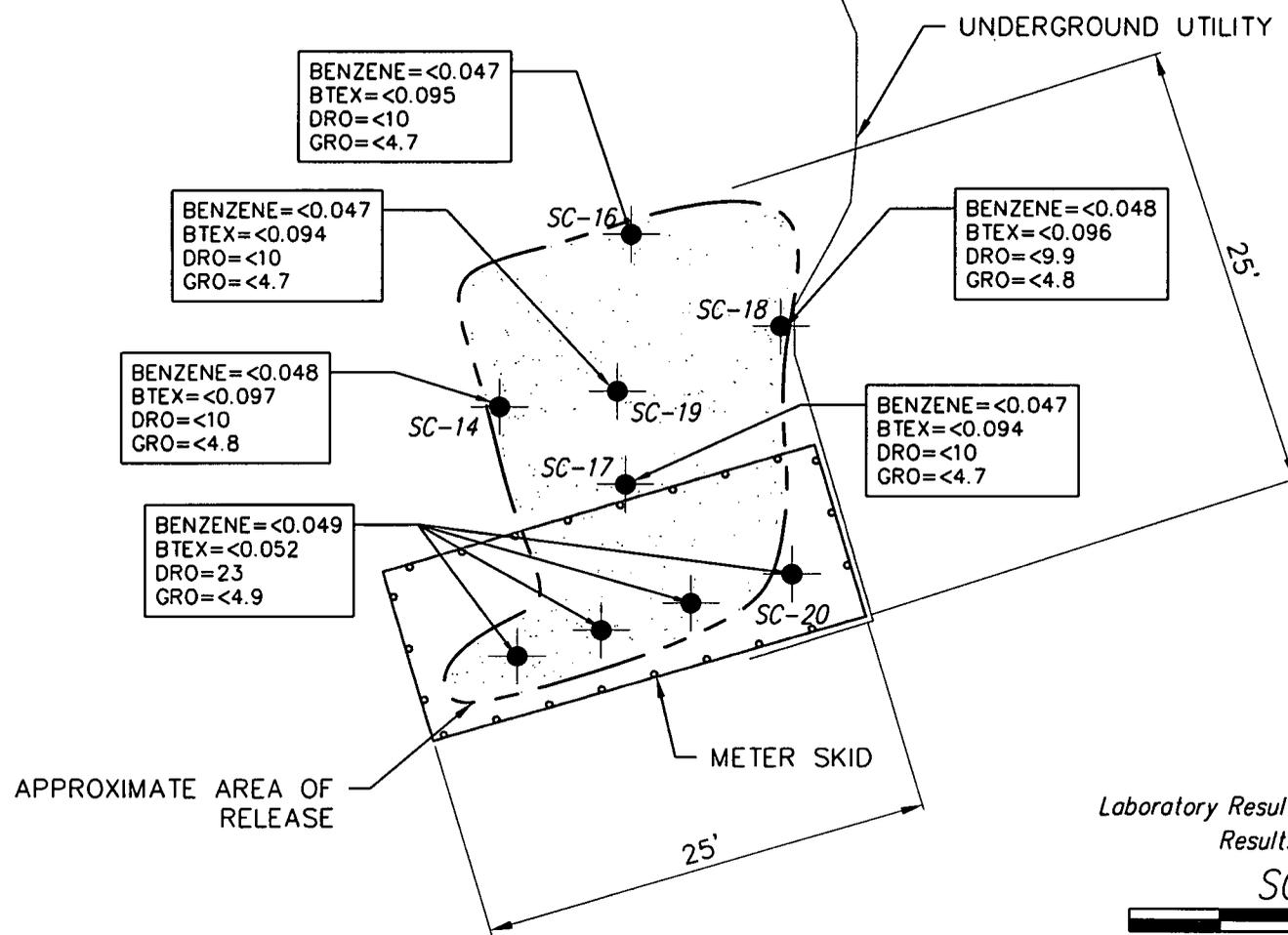
 <b>SMA</b> Engineering Environmental Surveying	<b>SOUDER, MILLER &amp; ASSOCIATES</b> 401 W. BROADWAY FARMINGTON, NM 87401 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045 www.soudermiller.com Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Cortez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT	<b>ENTERPRISE</b> FARMINGTON, NEW MEXICO		Designed SM	Drawn DJB	Checked RSA
		<b>VICINITY MAP</b> <b>LAMBE #3M</b> <b>SECTION 21, T31N, R10W</b> SAN JUAN COUNTY, NEW MEXICO			Date: 1/3/2014 Scale: Horiz: 1"=2000' Vert: N/A Project No: 5122104 Sheet: 1	



LAMBE #3M  
SITE LOCATION



 <small>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</small>	<b>SOUDER, MILLER &amp; ASSOCIATES</b> 401 W. BROADWAY FARMINGTON, NM 87401 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045 <a href="http://www.soudermiller.com">www.soudermiller.com</a> Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Cortez - Grand Junction - Montrose, CO - Salt Lake City, UT - Moab, UT	<b>ENTERPRISE</b>  FARMINGTON, NEW MEXICO  <b>SITE LOCATION MAP</b> <b>LAMBE #3M</b> <b>SECTION 21, T31N, R10W</b>  SAN JUAN COUNTY, NEW MEXICO	<table border="1"> <tr> <td>Designed SM</td> <td>Drawn DJB</td> <td>Checked RSA</td> </tr> <tr> <td colspan="3">Date: 1/3/2014</td> </tr> <tr> <td colspan="3">Scale: Horiz: 1"=30' Vert: N/A</td> </tr> <tr> <td colspan="3">Project No: 5122104</td> </tr> <tr> <td colspan="3">Sheet: 2</td> </tr> </table>	Designed SM	Drawn DJB	Checked RSA	Date: 1/3/2014			Scale: Horiz: 1"=30' Vert: N/A			Project No: 5122104			Sheet: 2		
	Designed SM	Drawn DJB	Checked RSA															
	Date: 1/3/2014																	
	Scale: Horiz: 1"=30' Vert: N/A																	
Project No: 5122104																		
Sheet: 2																		



Laboratory Results Reported 1/9/2014  
Results in mg/kg



**SOUDER, MILLER & ASSOCIATES**  
401 W. BROADWAY  
FARMINGTON, NM 87401  
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ENTERPRISE	FARMINGTON, NEW MEXICO		
<b>SOIL CONTAMINANT CONCENTRATION MAP</b>			
<b>LAMBE #3M</b>			
<b>SECTION 15, T31N, R10W</b>			
SAN JUAN COUNTY, NEW MEXICO			
Designed SM	Drawn DJB	Checked RSA	Date: 1/3/2014
Scale: Horiz: 1"=10' Vert: N/A			
Project No: 5122104			
Sheet: 3			

35

## **TABLES**

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		Verified using Google earth and Topo Maps; Field verified	Closest waterway is a unnamed wash that is a tributary to Hart 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		Verified using Google earth and Topo Maps; Field verified	Closest waterway is a unnamed wash that is a tributary to Hart Canyon Wash.
200'-1000' = 10	10		
>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	New Mexico State Engineer's Office online water well data base	No water wells located within 1000'; Two wells located within a 1 mile radius
<b>Total Site Ranking</b>	<b>10</b>		
<b>Soil Remedation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	<b>10 PPM</b>	<b>10 PPM</b>	<b>10 PPM</b>
<b>BTEX</b>	<b>50 PPM</b>	<b>50 PPM</b>	<b>50 PPM</b>
<b>TPH</b>	<b>5000 PPM</b>	<b>1000 PPM</b>	<b>100 PPM</b>



Enterprise Products  
 Table 3: Summary of Excavation  
 Field Screening Results (PPM)

Lambe # 3M  
 Meter Run Release  
 1/27/2014

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
12/23/2013	10:30	SC-1	0	95.3	N
12/23/2013	10:32	SC-2	0	241.3	N
12/23/2013	10:33	SC-3	0	252.9	N
12/23/2013	10:34	SC-4	0	3.3	N
12/23/2013	10:35	SC-5	0	60.2	N
12/23/2013	10:36	SC-6	0	1.8	N
12/23/2013	11:05	SC-7	0.25	667.1	N
12/26/2013	11:30	SC-8	1.50	38.4	N
12/27/2013	9:42	SC-9 Comp.	0.25	1304	N
12/27/2013	9:50	SC-10	0.25	1257	N
12/27/2013	10:45	SC-11 N. Wall	0.30	1431	N
12/27/2013	10:46	SC-12 E. Wall	0.30	1787	N
12/27/2013	10:47	SC-13 S. Wall	0.30	409.8	N
12/27/2013	10:48	SC-14 W. Wall	0.30	163.8	Y
12/27/2013	10:49	SC-15 Base	3.00	612.1	N
12/27/2013	11:55	SC-16 N. Wall	3.50	11.2	Y
12/27/2013	11:56	SC-17 S. Wall Comp.	3.50	198.8	Y
12/27/2013	11:57	SC-18 E. Wall Comp.	3.50	51.5	Y
12/27/2013	11:59	SC-19 Base Comp.	3.50	38.2	Y
12/27/2013	12:17	SC-20 Skid	0.75	96.2	Y



LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 10		1,000ppm		10ppm	50ppm
12/27/2013	10:48	SC-14 W Wall	3.0	<4.8	<10	<0.048	<0.097
12/27/2013	11:55	SC-16 N Wall	3.5	<4.7	<10	<0.047	<0.095
12/27/2013	11:56	SC- 17 S Wall	3.5	<4.7	<10	<0.047	<0.094
12/27/2013	11:57	SC-18 E Wall	3.5	<4.8	<9.9	<0.048	<0.096
12/27/2013	11:59	SC-19 Base	3.5	<4.7	<10	<0.047	<0.094
12/27/2013	12:17	SC- 20 Skid	0.8	<4.9	23	<0.049	0.052



**APPENDIX A**

**FIELD NOTES**

- S. masked on site @ 10:20
- Bump test PID: 100.7 ppm
- Sign EPCO work permit, re-form JMTA safety form
- No visible staining; EMS on site and already reworked/sieved impacted material (approx. 2 yds<sup>3</sup>)
- collect field screen samples from surfaces

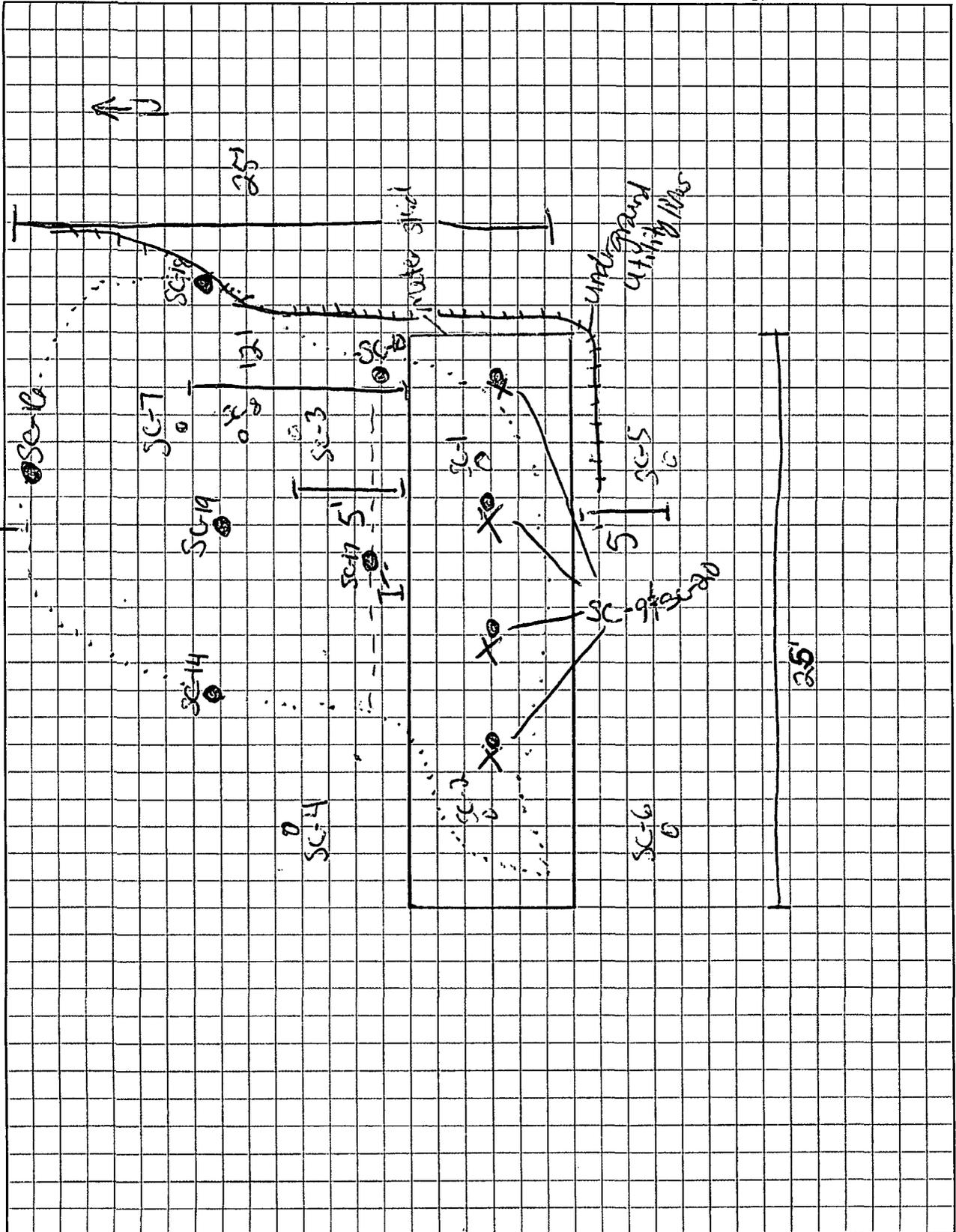
2' above ground meter run release

<u>Location</u>	<u>Depth</u>	<u>PID</u>	<u>Time Collected</u>	<u>Time Screened</u>	
SC-1	Surface	95.3	1030	1046	
SC-2	↓	241.3	1032	1047	
SC-3		252.9	1033	1048	
SC-4		3.3	1034	1048	
SC-5		60.2	1035	1049	
SC-6		1.8	1036	1050	
SC-7		0.25' bgs	66-7.1	1105	1113

- Ground hard/frozen. Only shovels & rakes available for excavation.
- Coordinate and schedule for backhoe, dump truck & backfill material to return on 12/26/13.
- Off site @ 11:45

- 12/26/13
- on site @ 10:00, conduct HASP and sign in w/ EPCO safe work permit, EMS not on site.
  - EMS on site @ 10:30, tailgate HASP
  - Bump test PID: 100.7
  - Job shutdown due to EPCO not having excavation permit or competent person. off site @ 1300

Approx Area of release



	<u>Location</u>	<u>Depth</u>	<u>PID</u>	<u>Sample collection</u>	<u>Sample Screen</u>
	SC-8	1.5'	38.4	1130	1137
12/27/13	SC-9	0.25' (Composite)	130.4	0942	0955
	SC-10	0.25'	125.7	0950	0958
	SC-11 Wall	0-3	148.1	1045	1059
	SC-12 E wall	0-3	178.7	1046	1059
	SC-13 S wall	0-3	409.8	1047	1100
	SC-14 W wall	0-3	166.8	1048	1101
	SC-15 Base	3.0	612.1	1049	1102
* Lab samples	SC-16 Wall	Comp 0-3.5	11.2	1155	1210
*	SC-17 <del>Wall</del> S wall	Comp 0-3.5	30.0 P.S. 8	1156	1211
*	SC-18 E wall	Comp 0-3.5	51.5	1157	1212
*	SC-19 Base	3.5 (Comp)	38.2	1159	1213
*	SC-20 Skid	0.75	96.2	1217	1231

- Material excavated was hauled to IEI.

- Off site @ 1315

**APPENDIX B**  
**SITE PHOTOGRAPHY**

**Site Photographs**  
**Enterprise Products for the Lambe #3M Meter Run Release**

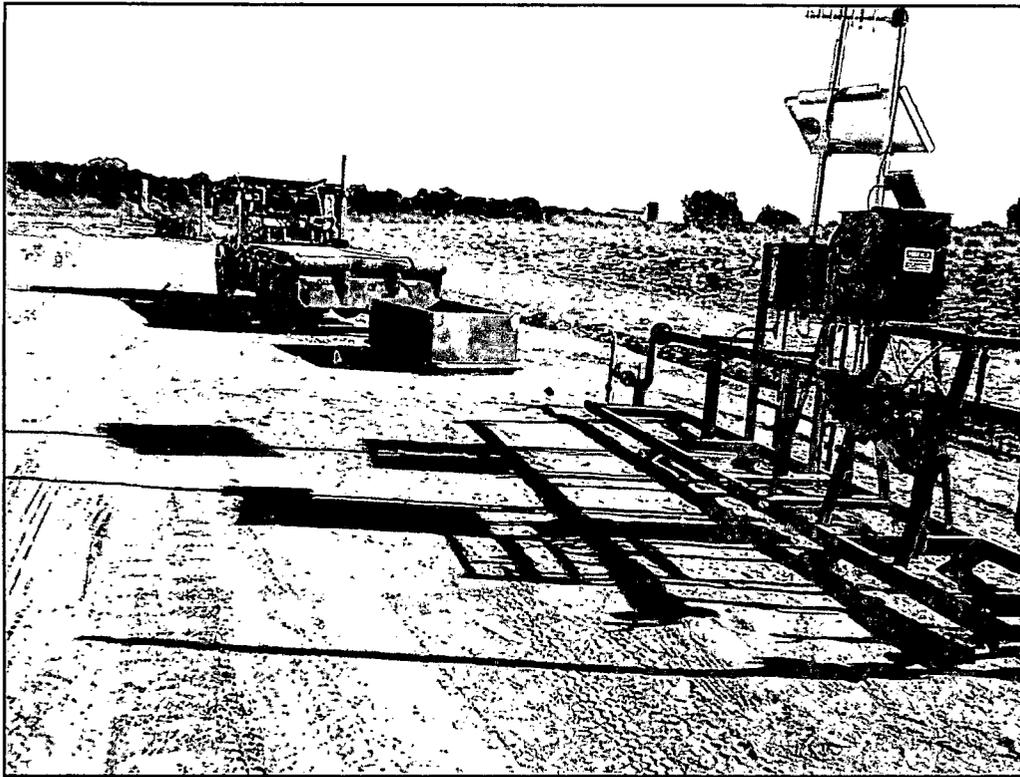


Photo 1: View of the Lambe #3M Meter Run release at the beginning of excavation activities.



Photo 2: View of the Lambe #3M remediation activities beneath the meter skid.

**Site Photographs**  
**Enterprise Products for the Lambe #3M Meter Run Release**



Photo 3: Photo documentation of impacted material being loaded for offsite disposal.

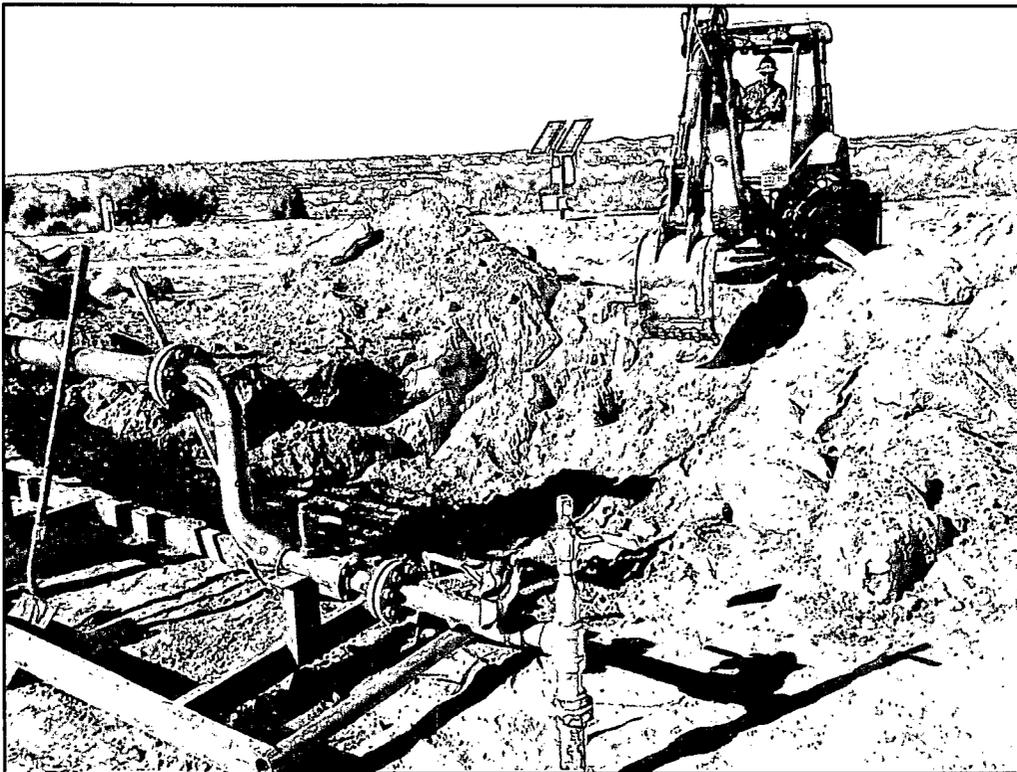


Photo 4: Near the final extent of the excavation on the Lambe #3M site.

**Site Photographs**  
**Enterprise Products for the Lambe #3M Meter Run Release**

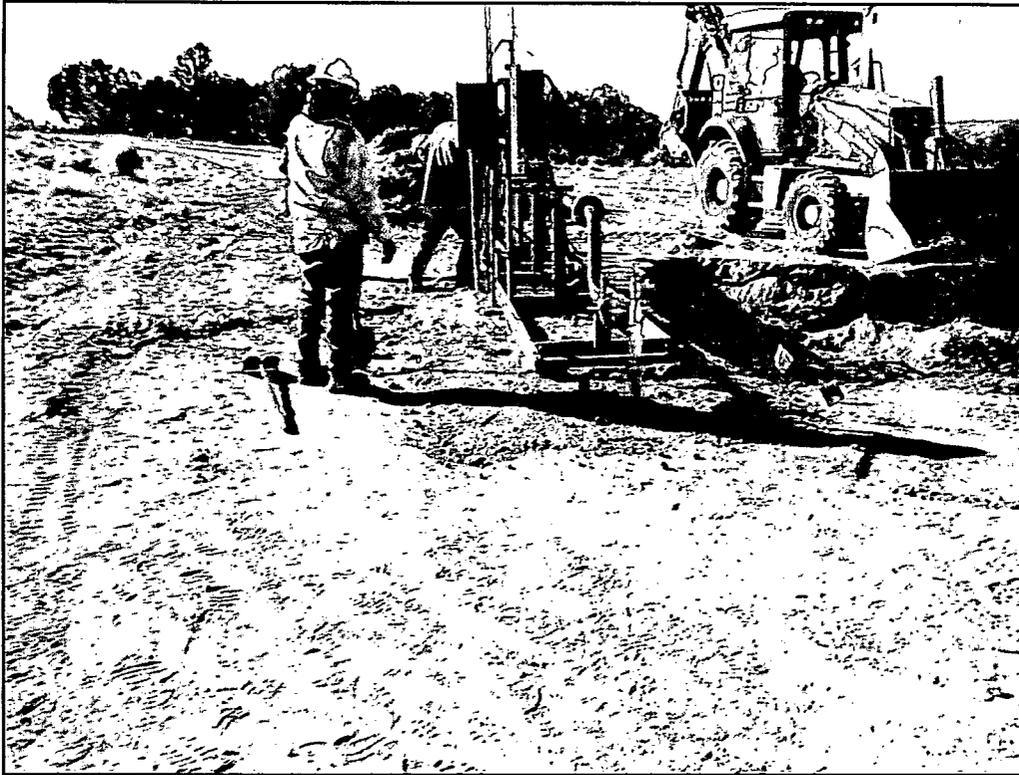


Photo 5: Photo of backfilling activities around the meter skid using imported material.



Photo 6: Backfilling activities of the larger portion of the Lambe #3M excavation.

**APPENDIX C**  
**SOIL DISPOSAL DOCUMENTATION**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
90 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

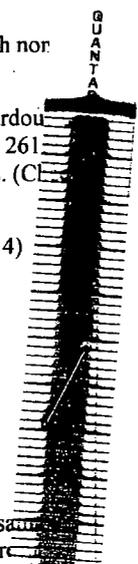
Form C-138  
Revised 08/01/11

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

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

W/O #499163

<b>1. Generator Name and Address:</b> Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
<b>2. Originating Site:</b> Lambe #3M Well Site
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> Unit J Sec 21 T 31 N R 10 W, San Juan County, NM; 36.87996, -107.88506
<b>4. Source and Description of Waste:</b> Source: Orifice Flange on a Meter Tube Description: Natural Gas Liquids (Condensate and Water) released from a meter tube Estimated Volume <u>10</u> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) <u>34</u> yd <sup>3</sup> / bbls
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b> I, Thomas Long <i>Thomas Long</i> , representative or authorized agent for Enterprise Products Operating do hereby <b>Generator Signature</b> 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) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous 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) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, Thomas Long <i>Thomas Long</i> , representative for Enterprise Products Operating authorize to complete <b>Generator Signature</b> the required testing/sign the Generator Waste Testing Certification. I, <i>[Signature]</i> , representative for <u>IEL, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the same 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.
<b>5. Transporter: To Be Determined</b>



#### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. \* Permit #: NM 01-0010B

Address of Facility: #49 CR 2150 Aztec, New Mexico

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: L. Machado

TITLE: Land Farm Administrator

DATE: 12-27-13

SIGNATURE: *[Signature]*

TELEPHONE NO.:

505-632-1782

Surface Waste Management Facility Authorized Agent

CL-2128  
PH-7

12-23-13

**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**



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)

January 09, 2014

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

RE: Lambe 3M

OrderNo.: 1312C66

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/30/2013 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. 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 qualifiers 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,

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

Analytical Report

Lab Order 1312C66

Date Reported: 1/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-14-W. Wall @ 3'

Project: Lambe 3M

Collection Date: 12/27/2013 10:48:00 AM

Lab ID: 1312C66-001

Matrix: SOIL

Received Date: 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2014 2:03:08 PM	11030
Surr: DNOP	67.4	66-131		%REC	1	1/2/2014 2:03:08 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/2/2014 3:52:27 PM	11036
Surr: BFB	98.1	74.5-129		%REC	1	1/2/2014 3:52:27 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	1/2/2014 3:52:27 PM	11036
Toluene	ND	0.048		mg/Kg	1	1/2/2014 3:52:27 PM	11036
Ethylbenzene	ND	0.048		mg/Kg	1	1/2/2014 3:52:27 PM	11036
Xylenes, Total	ND	0.097		mg/Kg	1	1/2/2014 3:52:27 PM	11036
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/2/2014 3:52:27 PM	11036

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

<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
	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 1312C66

Date Reported: 1/9/2014

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Souder, Miller and Associates

**Client Sample ID:** SC-16-N. Wall @ 3.5'

**Project:** Lambe 3M

**Collection Date:** 12/27/2013 11:55:00 AM

**Lab ID:** 1312C66-002

**Matrix:** SOIL

**Received Date:** 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2014 2:26:06 PM	11030
Surr: DNOP	86.4	66-131		%REC	1	1/2/2014 2:26:06 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/2/2014 5:18:15 PM	11036
Surr: BFB	89.9	74.5-129		%REC	1	1/2/2014 5:18:15 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	1/2/2014 5:18:15 PM	11036
Toluene	ND	0.047		mg/Kg	1	1/2/2014 5:18:15 PM	11036
Ethylbenzene	ND	0.047		mg/Kg	1	1/2/2014 5:18:15 PM	11036
Xylenes, Total	ND	0.095		mg/Kg	1	1/2/2014 5:18:15 PM	11036
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	1/2/2014 5:18:15 PM	11036

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

<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
	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: SC-17-S. Wall @ 3.5'  
 Project: Lambe 3M      Collection Date: 12/27/2013 11:56:00 AM  
 Lab ID: 1312C66-003      Matrix: SOIL      Received Date: 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2014 2:48:10 PM	11030
Surr: DNOP	79.6	66-131		%REC	1	1/2/2014 2:48:10 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/2/2014 7:12:46 PM	11036
Surr: BFB	93.9	74.5-129		%REC	1	1/2/2014 7:12:46 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	1/2/2014 7:12:46 PM	11036
Toluene	ND	0.047		mg/Kg	1	1/2/2014 7:12:46 PM	11036
Ethylbenzene	ND	0.047		mg/Kg	1	1/2/2014 7:12:46 PM	11036
Xylenes, Total	ND	0.094		mg/Kg	1	1/2/2014 7:12:46 PM	11036
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/2/2014 7:12:46 PM	11036

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

<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
	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 1312C66

Date Reported: 1/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-18-E. Wall @ 3.5'

Project: Lambe 3M

Collection Date: 12/27/2013 11:57:00 AM

Lab ID: 1312C66-004

Matrix: SOIL

Received Date: 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2014 3:10:25 PM	11030
Surr: DNOP	83.4	66-131		%REC	1	1/2/2014 3:10:25 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/2/2014 7:41:22 PM	11036
Surr: BFB	94.1	74.5-129		%REC	1	1/2/2014 7:41:22 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	1/2/2014 7:41:22 PM	11036
Toluene	ND	0.048		mg/Kg	1	1/2/2014 7:41:22 PM	11036
Ethylbenzene	ND	0.048		mg/Kg	1	1/2/2014 7:41:22 PM	11036
Xylenes, Total	ND	0.096		mg/Kg	1	1/2/2014 7:41:22 PM	11036
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/2/2014 7:41:22 PM	11036

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

<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
	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: SC-19-Base @ 3.5'  
 Project: Lambe 3M      Collection Date: 12/27/2013 11:59:00 AM  
 Lab ID: 1312C66-005      Matrix: SOIL      Received Date: 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2014 3:32:27 PM	11030
Surr: DNOP	88.4	66-131		%REC	1	1/2/2014 3:32:27 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/2/2014 8:09:55 PM	11036
Surr: BFB	90.3	74.5-129		%REC	1	1/2/2014 8:09:55 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	1/2/2014 8:09:55 PM	11036
Toluene	ND	0.047		mg/Kg	1	1/2/2014 8:09:55 PM	11036
Ethylbenzene	ND	0.047		mg/Kg	1	1/2/2014 8:09:55 PM	11036
Xylenes, Total	ND	0.094		mg/Kg	1	1/2/2014 8:09:55 PM	11036
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	1/2/2014 8:09:55 PM	11036

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

<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
	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 1312C66

Date Reported: 1/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-20-Skid @ 0.75'

Project: Lambe 3M

Collection Date: 12/27/2013 12:17:00 PM

Lab ID: 1312C66-006

Matrix: SOIL

Received Date: 12/30/2013 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	23	10		mg/Kg	1	1/2/2014 3:54:36 PM	11030
Surr: DNOP	82.9	66-131		%REC	1	1/2/2014 3:54:36 PM	11030
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2014 6:29:06 PM	11036
Surr: BFB	89.3	74.5-129		%REC	1	1/6/2014 6:29:06 PM	11036
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/6/2014 6:29:06 PM	11036
Toluene	0.052	0.049		mg/Kg	1	1/6/2014 6:29:06 PM	11036
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2014 6:29:06 PM	11036
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2014 6:29:06 PM	11036
Surr: 4-Bromofluorobenzene	93.9	80-120		%REC	1	1/6/2014 6:29:06 PM	11036

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

<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
	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#: 1312C66

09-Jan-14

**Client:** Souder, Miller and Associates

**Project:** Lambe 3M

Sample ID: <b>MB-11030</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>11030</b>	RunNo: <b>15821</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>12/31/2013</b>	SeqNo: <b>456574</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	8.5		10.00		84.5	66	131			

Sample ID: <b>LCS-11030</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>11030</b>	RunNo: <b>15821</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>12/31/2013</b>	SeqNo: <b>456617</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	113	60.8	145			
Surr: DNOP	4.6		5.000		92.0	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#: 1312C66  
 09-Jan-14

**Client:** Souder, Miller and Associates  
**Project:** Lambe 3M

Sample ID: <b>MB-11036</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>11036</b>	RunNo: <b>15860</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>1/2/2014</b>	SeqNo: <b>457799</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	920		1000		92.4	74.5	129			

Sample ID: <b>LCS-11036</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>11036</b>	RunNo: <b>15860</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>1/2/2014</b>	SeqNo: <b>457800</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	112	74.5	126			
Surr: BFB	1000		1000		103	74.5	129			

Sample ID: <b>1312C66-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SC-16-N. Wall @ 3.5</b>	Batch ID: <b>11036</b>	RunNo: <b>15860</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>1/2/2014</b>	SeqNo: <b>457803</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	27	4.7	23.63	0	116	69.5	145			
Surr: BFB	950		945.2		100	74.5	129			

Sample ID: <b>1312C66-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SC-16-N. Wall @ 3.5</b>	Batch ID: <b>11036</b>	RunNo: <b>15860</b>								
Prep Date: <b>12/31/2013</b>	Analysis Date: <b>1/2/2014</b>	SeqNo: <b>457804</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	26	4.7	23.63	0	111	69.5	145	4.20	20	
Surr: BFB	960		945.2		101	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#: 1312C66  
09-Jan-14

**Client:** Souder, Miller and Associates  
**Project:** Lambe 3M

Sample ID	MB-11036		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	11036		RunNo:	15860			
Prep Date:	12/31/2013		Analysis Date:	1/2/2014		SeqNo:	457835		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		106	80	120			

Sample ID	LCS-11036		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	11036		RunNo:	15860			
Prep Date:	12/31/2013		Analysis Date:	1/2/2014		SeqNo:	457836		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	1312C66-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-14-W. Wall @ 3'		Batch ID:	11036		RunNo:	15860			
Prep Date:	12/31/2013		Analysis Date:	1/2/2014		SeqNo:	457838		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9606	0	109	67.4	135			
Toluene	1.0	0.048	0.9606	0.009749	105	72.6	135			
Ethylbenzene	1.1	0.048	0.9606	0.01072	109	69.4	143			
Xylenes, Total	3.2	0.096	2.882	0.02752	109	70.8	144			
Surr: 4-Bromofluorobenzene	1.1		0.9606		113	80	120			

Sample ID	1312C66-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-14-W. Wall @ 3'		Batch ID:	11036		RunNo:	15860			
Prep Date:	12/31/2013		Analysis Date:	1/2/2014		SeqNo:	457839		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9615	0	107	67.4	135	2.10	20	
Toluene	1.0	0.048	0.9615	0.009749	104	72.6	135	1.10	20	
Ethylbenzene	1.1	0.048	0.9615	0.01072	109	69.4	143	0.0788	20	
Xylenes, Total	3.1	0.096	2.885	0.02752	108	70.8	144	0.695	20	
Surr: 4-Bromofluorobenzene	1.1		0.9615		110	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  
 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: 1312C66

RcptNo: 1

Received by/date: JB 12/30/13

Logged By: Michelle Garcia 12/30/2013 8:30:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 12/31/2013 8:49:55 AM *Michelle Garcia*

Reviewed By: IO 12/31/13

### 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? FedEx

### 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
- 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

# 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	3.6	Good	Yes			

# Chain-of-Custody Record

Client: Souder Miller & Associates

Mailing Address: 2101 San Juan Blvd  
Farmington, NM 87401

Phone #: 505-325-7535  
email or Fax#:

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

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

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

Turn-Around Time:

Standard  Rush

Project Name: Lambe 3M

Project #: 5122104 BG 25

Project Manager: Steven Moskale@soudermiller.com

Sampler: Steve Moskale

On Site:  Yes  No

Sample Temperature: 5.6°C



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMS's (8092)	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)
12/27/13	1048	soil	SC-14-W.wall @ 3'	#02X 1	Cool	-001	X	X										
	1155		SC-16-N.wall @ 3.5'			-002	X	X										
	1156		SC-17-S.wall @ 3.5'			-003	X	X										
	1157		SC-18-E.wall @ 3.5'			-004	X	X										
	1159		SC-19-Base @ 3.5'			-005	X	X										
	1217		SC-20-Skid @ 0.75'			-006	X	X										

Date: 12/27/13 Time: 1700 Relinquished by: [Signature]

Received by: [Signature] Date: 12/31/13 Time: 0850

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Relinquished by: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Remarks: Please Invoice to SMA & copy report to  
Shawn Chubuck @ soudermiller.com

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**

Updated Report  Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: <b>Lateral C-7 Line Leak</b>	Facility Type: Gas gathering system pipeline
Surface Owner: BLM	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
C	1	27N	9W					San Juan

Latitude 36.610106 Longitude -107.740523

**NATURE OF RELEASE**

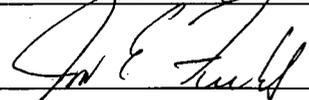
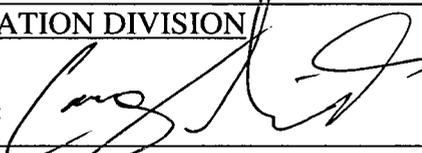
Type of Release: Natural gas and possible associated liquids	Volume of Release: <b>445 MCF</b>	Volume Recovered: <b>Unknown</b>
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: <b>12/9/2013</b>	Date and Hour of Discovery: <b>12/9/2013 @ 10:30 a.m.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, NMOCD	
By Whom? Thomas Long	Date and Hour 12/9/13 @ 10:25 a.m.	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>Unknown</b>	

If a Watercourse was Impacted, Describe Fully.\* A small unnamed ephemeral wash intersects CR 7007 and the release area. No visible surface impacts. Describe Cause of Problem and Remedial Action Taken.\* A technician discovered a pipeline leak on the Lateral C-7 pipeline. The line was isolated, depressurized and LOTO was applied. The release area is along the west side of CR 7007. The suspected cause is internal corrosion.

RCVD FEB 10 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\* Impacted area is along CR 7007. No noticeable surface impacts. Temporary repairs and initial remediation actions were completed in December 2013. Approximately 234 cubic yards of hydrocarbon impacted soil was excavated and transported to a NMOCD approved landfarm facility. Additional maintenance and remediation is schedule during the spring of 2014. Third party environmental contractor will oversee future remediation activities. A third party environmental contractor report is included with this "updated" C-141.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>5/2/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-5-2014</u> Phone: (713) 381-6684	<u>Continue Remediation</u>	

\* Attach Additional Sheets If Necessary

# NCS 1412253118  
Facility ID  
Enterprise pipeline San Juan (47)

**Enterprise Products**  
**Lateral C-7 Pipeline Release**  
**Latitude North 36.61010, Longitude West -107.74052**  
**Unit C Section 1 T27N R9W**  
**San Juan County, New Mexico**  
**January 10, 2014**

RCVD FEB 10 '14  
OIL CONS. DIV.  
DIST. 3



**Submitted To:**

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

**Submitted By:**

Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505)325-7535



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Appendix B: Site Photography

Appendix C: Soil Disposal Documentation

Appendix D: Laboratory Analytical Reports

## 1.0 Executive Summary

On December 6, 7, 9, 10, 11, 12, 2013, 13, 14, and 16, 2013 Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral C-7 pipeline. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION					
Name	Lateral C-7 Pipeline Release				
Location	Latitude/Longitude		Section, Township, Range		
		36.61010	-107.74052	Unit C	Section 1
Date Reported	December 5, 2013				
	Keith Roddy				
Land Owner	Bureau of Land Management (BLM)				
Reported To	BLM, NM Oil Conservation Division (NMOCD)				
Diameter of Pipeline	10 inches				
Source of Release	Internal Corrosion, Faulty Welds				
Release Contents	Natural Gas Liquids/Condensate				
Release Volume	Unknown				
Nearest Waterway	Unnamed Tributary Wash to Blanco Wash				
Depth to Groundwater	Assumed to be less than 50 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	40				
SMA Response Dates	12/6/13, 12/7/13, 12/9/13, 12/10/13, 12/11/13, 12/12/13, 12/13/13, 12/14/13, and 12/16/13				
Subcontractors	West States Energy Contractors (WSEC)				
Disposal Facility	Envirotech Landfarm				
Yd <sup>3</sup> Contaminated Soil Excavated and Disposed	234				

## 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 Lateral C-7 pipeline. The C-7 pipeline release was a result of internal corrosion and faulty spiral welds associated with the steel pipeline. In all, 10 release points were identified in an approximately 30 foot section of the 10 inch steel pipeline. The release was reported on December 5, 2013. The pipeline is located in Unit C, Section 1, Township 27 North, Range 9 West, 36.61010, -107.74052, 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 in an unnamed tributary wash of Blanco Wash on land managed by the Bureau of Land Management with an elevation of approximately 5,916 feet above sea level. After evaluation of the site 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 were located within 1,000 feet of the site, wells were located within a 1 mile radius of the site. However, there is no anticipated impact pertaining to these wells. The physical location of this release is within the jurisdiction of the Bureau of Land Management. 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 combined 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 December 6-7, 2013, December 9-14, 2013, and December 16, 2013 SMA mobilized to the release site to oversee excavation activities and to further delineate the release area through field screening on the excavation side walls, base and stock piled soil. Under the supervision of SMA, WSEC excavated the hydrocarbon impacted soil. WSEC identified 10 release points along an approximately 30 foot section of the steel pipeline. WSEC repaired the pipeline using an external coating method. SMA guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Table 3 summarizes the field screening results. Field notes are included in Appendix A.

Field screening results indicated that hydrocarbon impacted soil still remained after excavation ended. Two sets of soil samples were submitted for laboratory analysis. The first set was submitted on December 10, 2013 to determine the approximate horizontal and vertical extents of contamination and contaminant concentrations. The second set of samples was submitted on December 17, 2013 to confirm the status at the time of backfilling the excavation.

Soil samples for laboratory analysis 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 2 illustrates the extent of the excavation and composite soil sample locations and laboratory results.

The final excavation dimensions were approximately 135 feet long by 18 feet wide and 12 to 18 feet deep, covering an area of approximately 2,430 square feet. In total, approximately 1350 cubic yards of material were excavated. The vertical extent of the Trackhoe was met at a depth of 18 feet. Site photography is included in Appendix B. Approximately 234 cubic yards of hydrocarbon contaminated soil were excavated and transported by WSEC to Envirotech Land Farm near Bloomfield, New Mexico for proper disposal. Soil disposal documentation is included in Appendix C.

---

## 5.0 Conclusions and Recommendations

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 analytical results for samples collected on December 11, 2013 indicated that the north, east and west walls exceeded NMOCD Guidelines. Further, the base of the excavation from the pipeline release points to the northern extent of the excavation exceeded NMOCD Guidelines. At the conclusion of the excavation on December 16, 2013, samples collected on the west wall near the pipeline release area (SC-38: TPH 3,100 ppm, BTEX 634 ppm and benzene 23 ppm and SC-41: TPH 1,110 ppm) exceeded NMOCD Guidelines. Samples collected at the base of the excavation near the pipeline release, at 18 feet bgs (SC-40: TPH 2,480 ppm, Benzene 39 ppm, and BTEX 389 and SC-43: TPH 4,800 ppm, Benzene 35 ppm, and BTEX 525 ppm), also exceeded NMOCD Guidelines. Samples collected on the north side (SC-30, SC-33 and SC-34) and the south side (SC-37) demonstrated detection of benzene, BTEX and TPH below NMOCD Guidelines.

Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analysis is included in Table 4. Laboratory reports are included in Appendix D.

SMA understands that Enterprise Products plans for future excavation and additional repairs to the faulty section of pipeline. During the future work, SMA recommends further field screening of soil for contamination and excavation of the west wall, east wall and along the base near the release points along the pipeline. An approach to delineating remaining contamination to the east, prior to excavating adjacent to the east edge of the road, would be to install soil borings in the road to a minimum depth of 18 feet.

---

## 6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, 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 Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

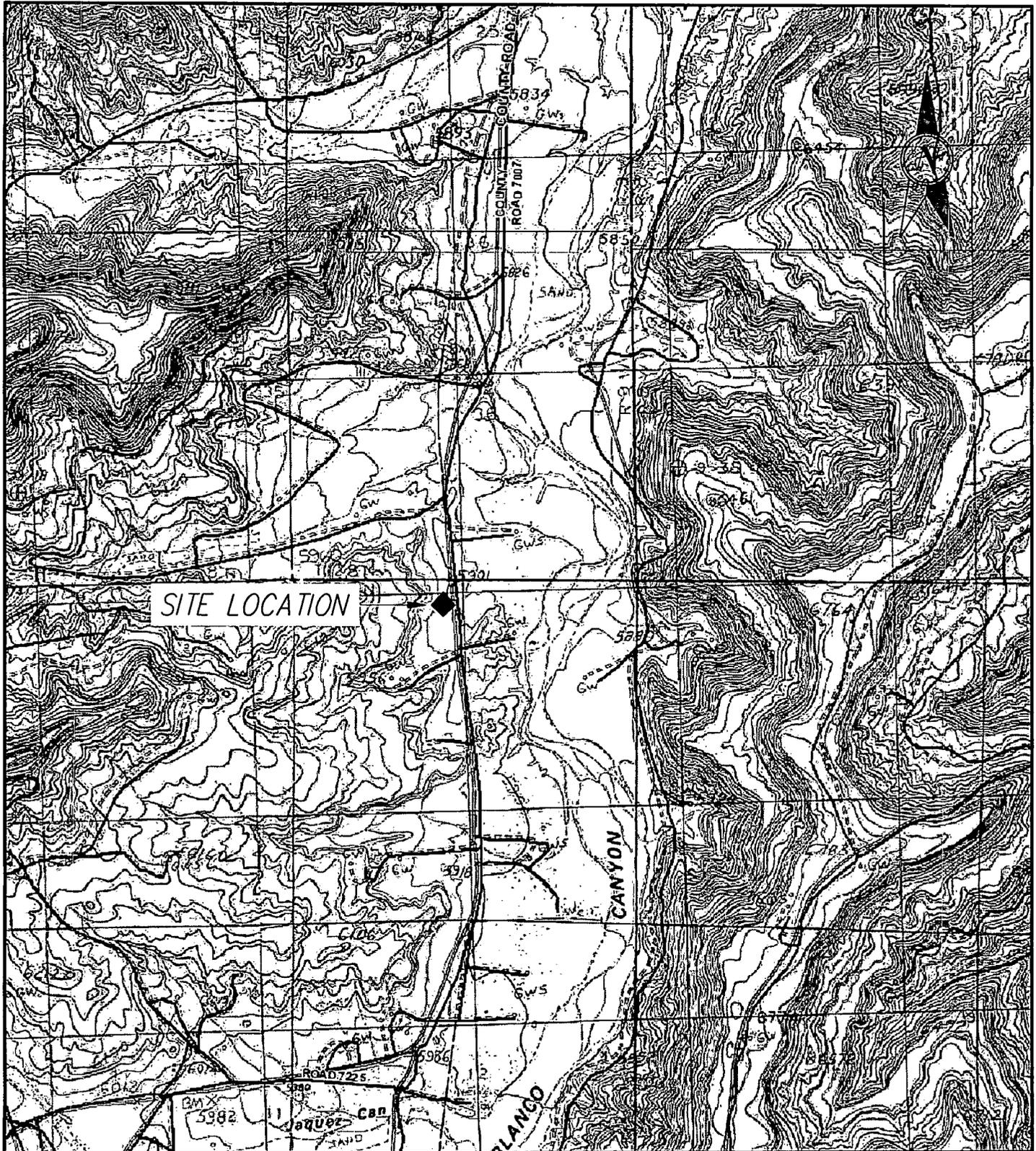


Steve Moskal  
Project Scientist



Reid S. Allan, PG  
Principal Scientist

## FIGURES



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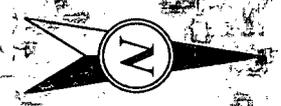
**SOUDER, MILLER & ASSOCIATES**  
 2101 SAN JUAN BOULEVARD  
 FARMINGTON, NM 87401-2247  
 Phone (505) 325-7335 Toll-Free (800) 519-0098 Fax (505) 325-0045  
 www.soudermiller.com  
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ENTERPRISE FARMINGTON, NEW MEXICO

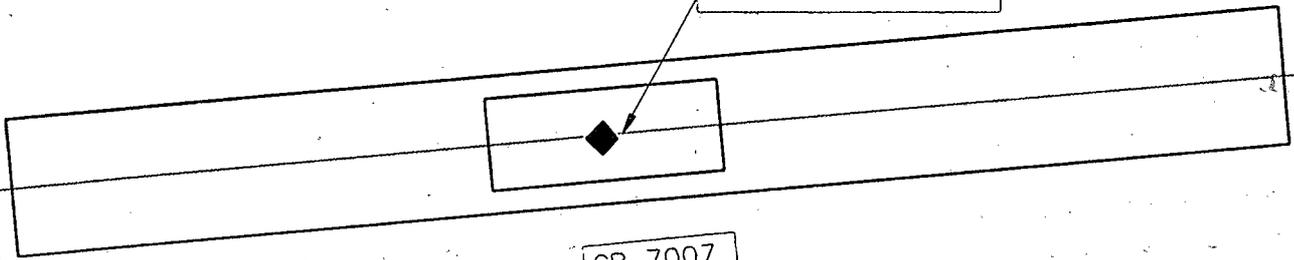
**VICINITY MAP  
 LATERAL C-7  
 SECTION 1, T27N, R9W**

SAN JUAN COUNTY, NEW MEXICO

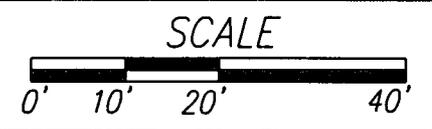
Designed	Drawn	Checked
SM	DJB	RSA
Date:	1/3/2014	
Scale:	Horiz: 1"=2000' Vert: N/A	
Project No:	5122104	
Sheet:	1	



SITE LOCATION



CR 7007



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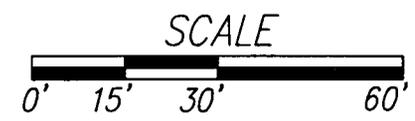
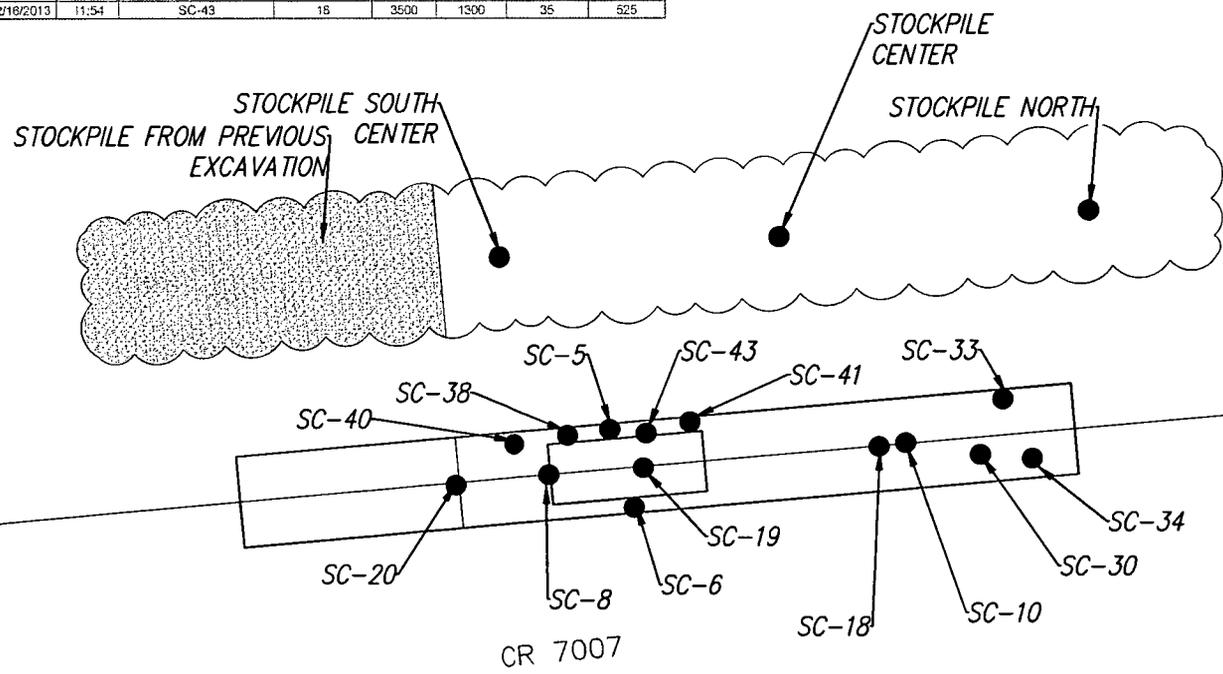
SITE LOCATION MAP  
LATERAL C-7  
SECTION 1, T27N, R9W

SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 1/3/2014		
Scale: Horiz: 1"=20'		
Vert: N/A		
Project No: 5122104		
Sheet: 2		

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LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 40		100 ppm		10 ppm	50 ppm
12/7/2013	11:25	SC-5 West Wall	10	1100	940	3.6	126.8
12/7/2013	11:37	SC-6 East Wall	10	980	820	1.1	60.8
12/7/2013	11:58	SC-10 North Wall	10	59	90	<0.037	5.1
12/7/2013	12:00	Stockpile South Center	0	160	230	<0.11	4.48
12/7/2013	12:03	Stockpile Mid Comp	0	34	32	<0.038	1.36
12/7/2013	12:05	Stockpile North Comp	0	36	19	<0.039	1.8
12/9/2013	1:05	SC-6 West Wall	0	<4.3	11	<0.043	0.10
12/9/2013	2:30	SC-6 Base	14	1300	610	7.7	197.7
12/9/2013	2:32	SC-19 Base	14	1030	930	2.7	115.3
12/9/2013	2:35	SC-20 Base	14	<4.3	<10	<0.043	<0.096
12/9/2013	3:20	SC-21 Stockpile South Comp	0	<3.5	<10	<0.035	0.218
12/14/2013	9:35	SC-30	15	<4.8	<10	<0.048	0.15
12/14/2013	9:52	SC-33	10	<5	<10	<0.050	<0.099
12/14/2013	9:55	SC-34	10	<4.8	<9.9	<0.048	0.44
12/14/2013	10:15	North Pie Comp	0	<4.6	<9.9	<0.046	0.21
12/16/2013	11:20	SC-37	12	14	37	<0.049	0.42
12/16/2013	11:32	SC-38	14	2030	1100	23	364
12/16/2013	11:38	SC-40	18	1800	680	39	389
12/16/2013	11:47	SC-41	14	460	650	<0.54	47.6
12/18/2013	11:54	SC-43	15	3500	1500	35	525



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ENTERPRISE	FARMINGTON, NEW MEXICO		Designed SM	Drawn DJB	Checked RSA
<b>SOIL CONTAMINANT CONCENTRATION</b>					
<b>LATERAL C-7</b>					
<b>SECTION 1, T27N, R9W</b>					
SAN JUAN COUNTY, NEW MEXICO					
Date: 1/3/2014			Scale: Horiz: 1"=20' Vert: N/A		
Project No: 5122104			Sheet: 3		

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## TABLES

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	Field verification that release is located within an unnamed wash.	Groundwater is assumed to be less than 50 feet below ground surface.
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	20	Field verification that release is located within an unnamed wash.	Release is located within an unnamed tributary wash of Blanco Wash.
200'-1000' = 10			
>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 recorded water wells located with 1000'; Ten wells located within a 1 mile radius.
<b>Total Site Ranking</b>	<b>40</b>		
<b>Soil Remedation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	<b>10 PPM</b>	<b>10 PPM</b>	<b>10 PPM</b>
<b>BTEX</b>	<b>50 PPM</b>	<b>50 PPM</b>	<b>50 PPM</b>
<b>TPH</b>	<b>5000 PPM</b>	<b>1000 PPM</b>	<b>100 PPM</b>



FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
12/6/2013	13:05	SC-1 SE Corner	3	386	N
12/6/2013	13:08	SC-2 Stockpile # 2	0	7021	N
12/6/2013	15:48	SC-3 Release Point	7	1462	N
12/7/2013	10:20	SC-4 Release Point W. Side Wall	7	1753	N
12/7/2013	11:35	SC-5 W. Wall	10	1771	Y
12/7/2013	11:37	SC-6 Release Point E. Wall	6	1606	Y
12/7/2013	11:39	SC-7 Release Point	14	295.7	N
12/7/2013	11:40	SC-8 S. Slope	9	740.9	N
12/7/2013	11:56	SC- 9 10ft. N. Release Point	10	640	N
12/7/2013	11:58	SC- 10 20ft. N. Release Point	10	751.6	Y
12/7/2013	12:00	Stockpile S. Center	0	1474	Y
12/7/2013	12:03	Stockpile Center	0	663.2	Y
12/7/2013	12:05	Stockpile N	0	883.4	Y
12/7/2013	11:55	SC-11 10ft. S. Release Point	6	131.7	N
12/9/2013	11:45	SC-12 W. of Pipeline	10	77.2	N
12/9/2013	11:55	SC-13 E. of Pipeline	10	20.1	N
12/9/2013	12:35	SC -14 E. Wall Comp.	4-10	13.8	N
12/9/2013	12:37	SC-15 W. Wall Comp.	4-10	40.2	N
12/9/2013	13:05	SC-16 W	4.5	138.5	Y
12/9/2013	13:07	SC-17 E	4	91.5	N
12/9/2013	14:30	SC-18 20ft N. Release Point Base	14	801	Y
12/9/2013	14:32	SC-19 Release Point	14	2882	Y
12/9/2013	14:33	SC-20 20ft. S. Release Point Base	14	1433	Y
12/9/2013	15:20	SC-21 S. Stockpile(carsonite)	0	102.2	Y
12/10/2013	14:30	South Stockpile #1	0	49.5	
12/10/2013	14:32	South Stockpile #2	0	57.5	
12/12/2013	12:50	South Stockpile #1	0	44.4	Y
12/12/2013	12:55	South Stockpile # 2	0	82.1	Y
12/12/2013	13:00	SC-22	0	27.8	Y
12/12/2013	13:02	SC-23 Stockpile South Center	0	28.2	Y
12/12/2013	13:05	SC-24 Stockpile Mid	0	443	Y
12/12/2013	13:10	SC-25 Stockpile North	0	1262	Y
12/14/2013	9:12	SC-26 E. Wall	12	247	N
12/14/2013	9:17	SC-27 Bottom	14	1266	N
12/14/2013	9:22	SC-28 Bottom	14	39.5	N
12/14/2013	9:28	SC-29 Bottom	14	216	N
12/14/2013	9:35	SC-30 Bottom	15	53.2	Y
12/14/2013	9:40	SC-31 Bottom	15	18.5	N
12/14/2013	9:44	SC- 32 Bottom	12	51.6	N
12/14/2013	9:52	SC-33 West Wall	10	72.7	Y
12/14/2013	9:55	SC-34 East Wall	10	47.4	Y
12/14/2013	10:05	SC-35 West Wall	11	73.8	N
12/14/2013	10:10	SC-36 Bottom	12	41.5	N
12/14/2013	10:15	North Pile Comp	0	16.9	Y
12/14/2013	10:26	HA 1	18	1173	N
12/14/2013	10:29	HA 1	22	1602	N
12/16/2013	11:20	SC-37 South Wall	12	19	Y
12/16/2013	11:32	SC-38 South W. Wall	14	1792	Y
12/16/2013	11:34	SC-39 Bottom	16	1365	N
12/16/2013	11:38	SC- 40 Bottom	18	4086	Y
12/16/2013	11:47	SC-41 North W. Wall	14	2421	Y
12/16/2013	11:50	SC-42 Bottom	16	3195	N
12/16/2013	11:54	SC-43 Bottom	18	1016	Y
12/16/2013	11:58	SC-44 North W. Wall	12	252	N



LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 40		100 ppm		10 ppm	50 ppm
12/7/2013	11:35	SC-5 West Wall	10	1100	940	3.6	126.8
12/7/2013	11:37	SC-6 East Wall	10	980	820	1.1	80.8
12/7/2013	11:58	SC-10 North Wall	10	59	90	<0.037	3.1
12/7/2013	12:00	Stockpile South Center	0	160	230	<0.11	4.48
12/7/2013	12:03	Stockpile Mid Comp	0	34	32	<0.038	1.36
12/7/2013	12:05	Stockpile North Comp	0	36	19	<0.039	1.8
12/9/2013	1:05	SC-6 West Wall	0	<4.3	11	<0.043	0.10
12/9/2013	2:30	SC-8 Base	14	1300	610	7.7	197.7
12/9/2013	2:32	SC-19 Base	14	1000	930	2.7	115.3
12/9/2013	2:33	SC-20 Base	14	<4.3	<10	<0.043	<0.086
12/9/2013	3:20	SC-21 Stockpile South Comp	0	<3.5	<10	<0.035	0.218
12/14/2013	9:35	SC-30	15	<4.8	<10	<0.048	0.15
12/14/2013	9:52	SC-33	10	<5	<10	<0.050	<0.099
12/14/2013	9:55	SC-34	10	<4.8	<9.9	<0.048	0.44
12/14/2013	10:15	North Pile Comp	0	<4.6	<9.9	<0.046	0.21
12/16/2013	11:20	SC-37	12	14	37	<0.049	0.42
12/16/2013	11:32	SC-38	14	2000	1100	23	364
12/16/2013	11:38	SC-40	18	1800	680	39	389
12/16/2013	11:47	SC-41	14	460	650	<0.94	47.6
12/16/2013	11:54	SC-43	18	3500	1300	35	525



**APPENDIX A**

**FIELD NOTES**

- 10" Line

On site @ 11:30  
 - Perform Tailgate safety / safe work permit review  
 - Calibrate PID meter

Excavation underway

GPS 36.608982  
 = 107.740622

- Collect field screen samples

Location	Collect Time	PID	Screen Time (warm up)
SC-1 - SE corner 2.5'	1305	386	1340
SC-2 - Stockpile #2	1308	7021	1343
SC-3 - Release point 7'	1348	462	1604

- Plan to return on 12/7/13 to continue repair / sampling work

- off site @ 1630

12/7/13

- On site @ 1000, refresh tailgate safety, sign into safe work permit

- Excavation underway

Location	Time	PID	Screening Time
SC-4 (Release point) (w. 3' diameter)	1020	1753	1120
SC-5 w wall @ 10'	1135	1771	1213
SC-6 E wall @ RP 10'	1137	1606	1212
SC-7 RP @ 14'	1139	295.71	1213
SC-8 S slope @ 91.5' RP	1140	740.9	1215
SC-9 10' N. RP @ 10'	1156	640.0	1228
SC-10 20' N. RP @ 10'	1158	751.6	1230
Stockpile S (center)	1200	1474	1225
Stockpile Center	1203	663.2	1226
Stockpile N	1205	883.4	1227
SC-11 10' S. RP @ 6'	1155	131.7	1229

- Continue excavation looking for additional leaks, 4 found @ this point w/in a 20' section.

- off site @ 1415

- on site @ 10:30, Perform tailgate safety, LOTO w/ EPCO

- Begin excavation @ 11:30

Location	Time	PID	Time Screened
25 S. RP } SC-12 W. of Pipeline @ 10'	1145	77.2	1223
30 S. RP } SC-13 E. of pipeline @ 10'	1155	20.1	1221
SC-14 - Equal comp 4'-10'	1235	13.8	1257
SC-15 - Equal comp 4'-10'	1237	40.2	1258
25 N. RP } SC-16 W. @ 4'	1305	138.5	1330
SC-17 E @ 4'	1307	91.5	1331

- 8 leaks found @ 1350, Total 10 leak @ 1430

★ SC-18 20' N RP Base (3' (-1))	1430	801	1502
★ SC-19 RP @ 13' (-1)	1432	2882	1503
★ SC-20 20' S RP Base (3' (-1))	1433	57.2 (Black staining)	1504

Excavation 103' x 15' w x 12' D w/ 55' of pipeline exposed  
off site @ 1530 to take samples for lab submission

★ SC-21 S. Stockpile (consolid)	1520	102.2	1622
---------------------------------	------	-------	------

12/10/13

On site w/ Tom Long @	1145		
South Stockpile #1	Time 1430	49.5	1600
South Stockpile #2	1432	57.5	1601

off site @ 1500 Inspect suspect Drum in ROW. Drum is empty and has hole along side, Disposed of drum @ SMA office

(00 X 14 X 12) RP @ 44' from North (11:40 12/7/13)

SUBJECT Central C-7

PROJECT 12/11/13

PAGE

CLIENT FPCO

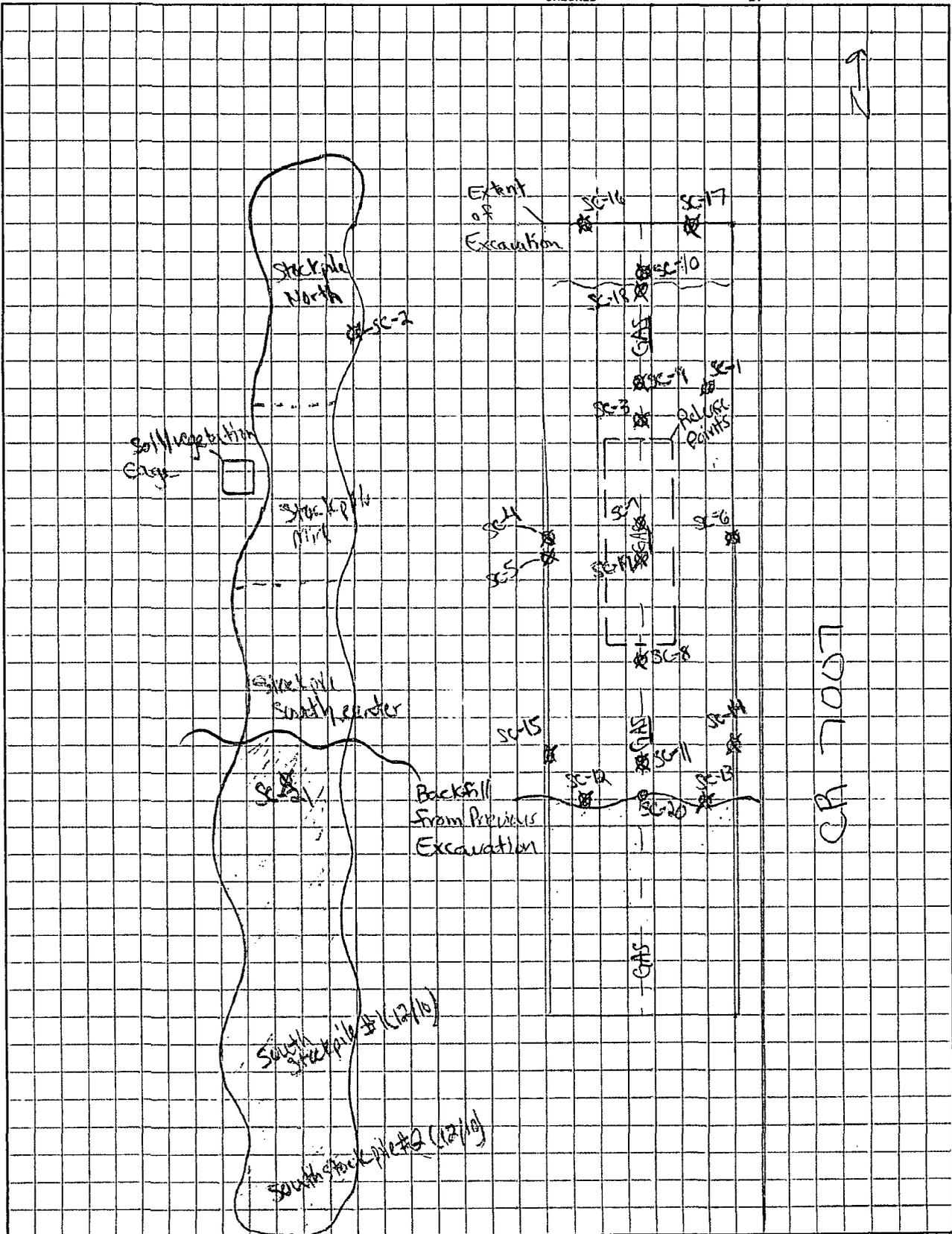
DATE

BY SJM

CHECKED

BY

- on site @ 1200 w/ Shawna Chubbuck for site orientation
- Explain to EMS the importance of not mixing the stockpile.



CHECKED BY

12:10	- ARRIVE @ SITE			
	SAFETY MEETING			
	DISCUSS WORK w/ JENETTE (ENTERPRISE)			
	PIPELINE IS BEING REPAIRED, WILL BE TITLED WHEN COMPLETE			
12:35	Calibrate PIDS			
	M.W. P.A.E. 2000 -	0.0 on ambient air		
		101 on 100 ppm Isobutylene		
	M.W. P.A.E. 3000 -	0.0 on ambient air		
		99.6 on 100 ppm Isobutylene		
12:50	RESAMPLE STOCKPILES			
	(ALL STOCKPILE SAMPLES ARE COMPOSITES)			
	SAMPLE	Time	HEADSPACE (PPM)	TIME SR
	SOUTH STOCKPILE #1	1250	44.4	1300
	SOUTH STOCKPILE #2	1255	82.1	1325
	SC-22 (SC 21 loc)	1300	27.8	1330
	SC-23 (stockpile S of center)	1303	28.3	1333
	SC-24 (stockpile MID)	1305	44.3	1336
	SC-25 (stockpile NORTH)	1310	136.2	1338
14:10	Discuss further excavation w/ Tom Long			
	NEED to scrape east side further before sampling			
	Overall expand to west and north -			
	collect confirmation samples if sidewalls			
	are clean.			
14:50	AJE off site			

SUBJECT Enterprise C-7 (atova)

PROJECT 5122104 8921 PAGE 1

CLIENT EPCO

DATE 12/13/17

BY ASE

CHECKED

BY

ST. MILE: 15/13.5

8:25	A. ESCHENBACHER arrives on site
8:30	CHECK-IN w/ RICHARD, H&B, LOTO.
8:35	CALIBRATE PID (M. J. RAE 2000) READING on FRESH AIR: 0.0 METHANE ISOBUTYLENE: 101
	REPAIRS on PIPELINE CONTINUE, CLEAN FILL BEING HAULED, PCS BEING HAULED OUT
10:30	DISCUSS WORK PROGRESS w/ RICHARD - WORKERS ARE PREPARING TO - I-WRAP, WILL EXCAVATE FURTHER TO THE NORTH THIS AFTERNOON. EXCAVATION WILL LIKELY GO INTO TOMORROW. RICHARD STATED <del>THEY</del> HE WILL NOT ALLOW ADDITIONAL EXCAVATION OF THE EAST WALL BC OF THE COUNTY ROAD.
10:50	Call Tom Long - update on work progress, if poss. excavation thru p.m. He said if exc. will not be done for sure - leave the site. Relayed Richards concerns about further excavation along CR - Tom said to clear (sample clean soil) at as many sides of excavation as possible.
11:10	Call Shanna back, relay above conversations
14:20	RICHARD DETERMINES NO EXCAVATION WILL BE DONE TODAY. Resume 8 a.m. tomorrow
19:30	leave site - call Tom Long, leave message call Shanna

CHECKED BY

7:55	- AJE ARRIVE ON GITE		
8:05	- RICHARD LOUARD ARRIVE ON GITE		
8:10	- CALIBRATE PID		
	READS 0.1 ON AMBIENT AIR		
	READS 100 ON 100 ppm Iso butylene		
8:30	EMS ARRIVES ON SITE - CONDUCT TAILGATE SAFETY MTR.		
9:00	- RESUME EXCAVATION TO NORTH		
<u>SOIL SAMPLES</u>			
<u>SAMPLE ID.</u>	<u>TIME</u>	<u>HEADSPACE</u>	<u>HEADSPACE TIME</u>
SC-26, 12' (E. WALL)	9:12	247	9:30
SC-27, 14' (Bottom)	9:17	196.6	9:31
SC-28, 14' (Bottom)	9:22	39.5	9:32
SC-29, 14' (Bottom)	9:28	216	9:38
* SC-30, 15' (Bottom)	9:35	53.2	9:50
SC-31, 15' (Bottom)	9:40	18.5	9:53
SC-32, 12' (Bottom)	9:44	51.6	9:58
* SC-33, 10' (w. wall)	9:52	73.7	10:18
* SC-34, 10' (E. WALL)	9:55	47.4	10:19
SC-35, 11' (w. WALL)	10:05	73.8	10:22
SC-36, 12' (Bottom)	10:10	41.5	10:26
* NORTH Pile Comp	10:15	16.9	10:32
10:20	- HAND ARMER ADJ to Pipe		
HAA 1, 2' (-16')	10:26	1173	10:50
HAA 1, 4' (-18')	10:29	160.2	11:00
11:30	No MORE EXCAVATION UNTIL I-WRAP REPAIR FULLY CURED		
	WORK WILL RESUME MONDAY		
	SIGN OUT AND LEAVE SITE		
12:50	- CALL TOM LONG - UPDATE HIM ON WORK PROGRESS		
* SAMPLE SPLITS FOR LAB ANALYSIS			

11669

SUBJECT LATERAL C-7

PROJECT 5122104 PAGE

CLIENT ENTERPRISE

DATE 12/16/13 BY AJE

CHECKED BY

7:55 - AEA environmental arrive on site

8:00 - EMS arrive on site

8:13 - Calibrate PID  
 READS 0.0 ON AMBIENT AIR  
 READS 100.0 ON 100 ppm Isobutylene

9:00 - Haul TRUCKS ARRIVE TAPDEN: 1      Belly: 1

9:15 - Tailgate w/ Richard

10:40 - Pressurize Line - NO LEAKS or REPAIR PIPE

10:30 - DE-PRESSURIZE LINE

11:00 - REMOVE TRENCH BOXES

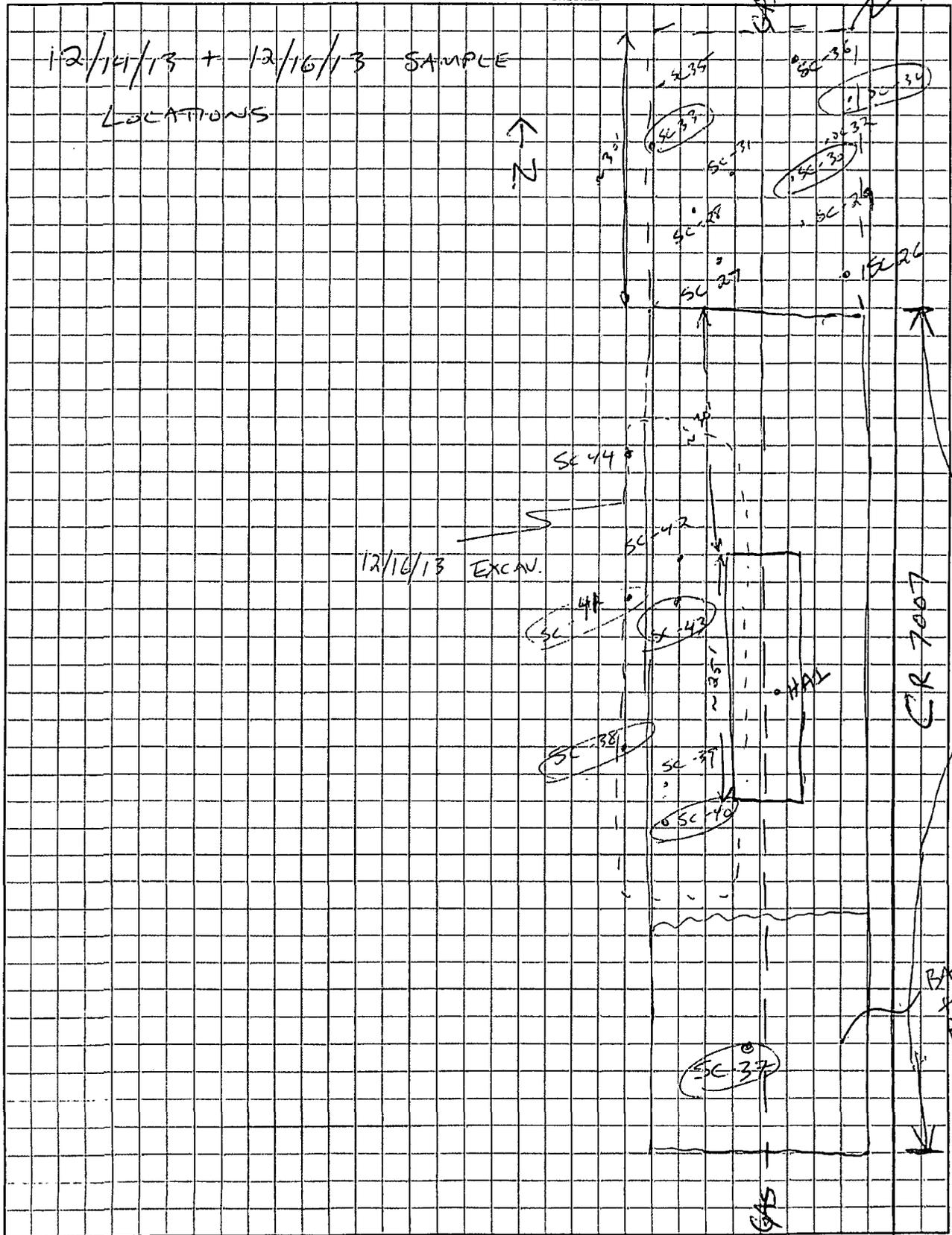
SAMPLE ID	TIME	HEADSPACE	TIME - HEADSPACE
* SC-37 (s. well), 12'	11:20	1792	12:08
* SC-38, 14' (s.w. well)	11:32	1792	12:10
SC-39, 16' (bottom)	11:34	1365	12:13
* SC-40, 18' (bottom)	11:38	4086	12:17
* SC-41, 14' (s.w. well)	11:47	2721	12:22
SC-42, 16' (bottom)	11:50	3195	12:26
* SC-43, 18' (bottom)	11:54	1016	12:28
SC-44, 12' (s.w. well)	11:58	252	12:31

\* SAMPLE SPLITS FOR LAB ANALYSIS

EXCAVATION EXTENDED AS FAR AS POSSIBLE.  
 NORTH AND SOUTH EXTENDED TO 100 ppm FIELD SCREENS  
 EAST LIMITED BY CR 2007. WEST LIMITED BY PIPE LINES.

13:15 - DISCUSS FIELD SCREENING w/ RICHARD  
S.G. out.

13:30 - Call: Tom Long (leave message)



**APPENDIX B**  
**SITE PHOTOGRAPHY**

**Site Photographs**  
**Enterprise Products Lateral C-7 Pipeline Release**



Photo 1: The beginning of excavation to determine the location of the release, December 6, 2013.



Photo 2: Discovery of the first release point with condensate flowing from the pipeline.

**Site Photographs**  
**Enterprise Products Lateral C-7 Pipeline Release**



Photo 3: Pipeline repair activity; note the staining on the western sidewall.

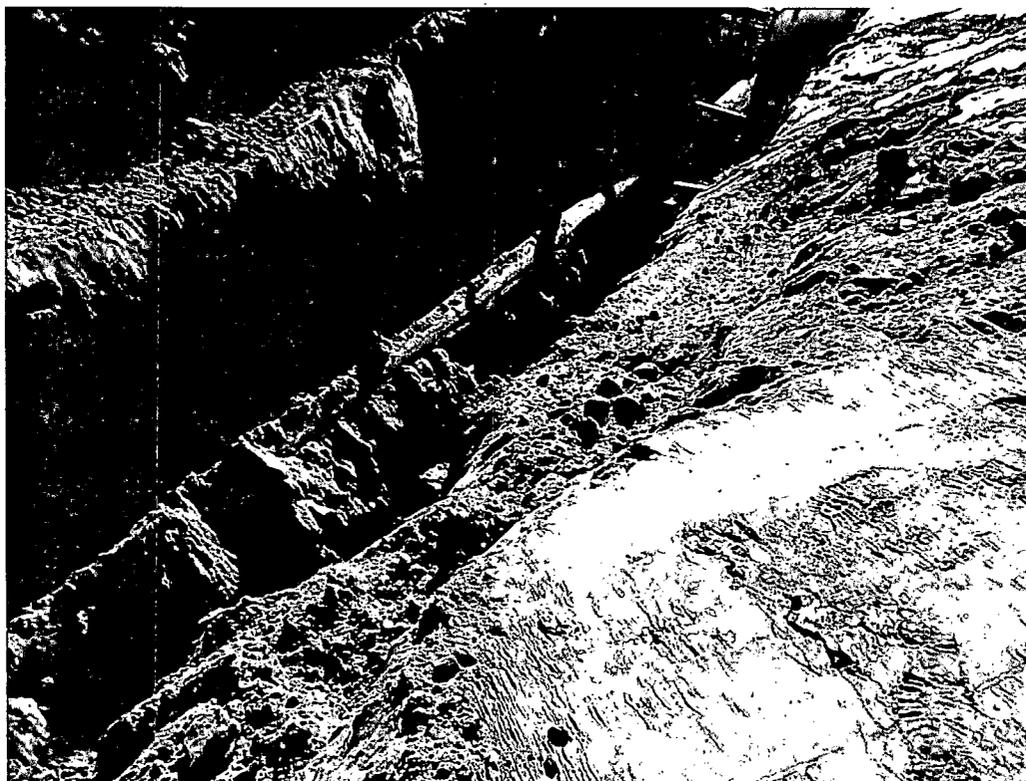


Photo 4: View of faulty section of Lateral C-7 pipeline, approximately 30 feet in length.

Site Photographs  
Enterprise Products Lateral C-7 Pipeline Release

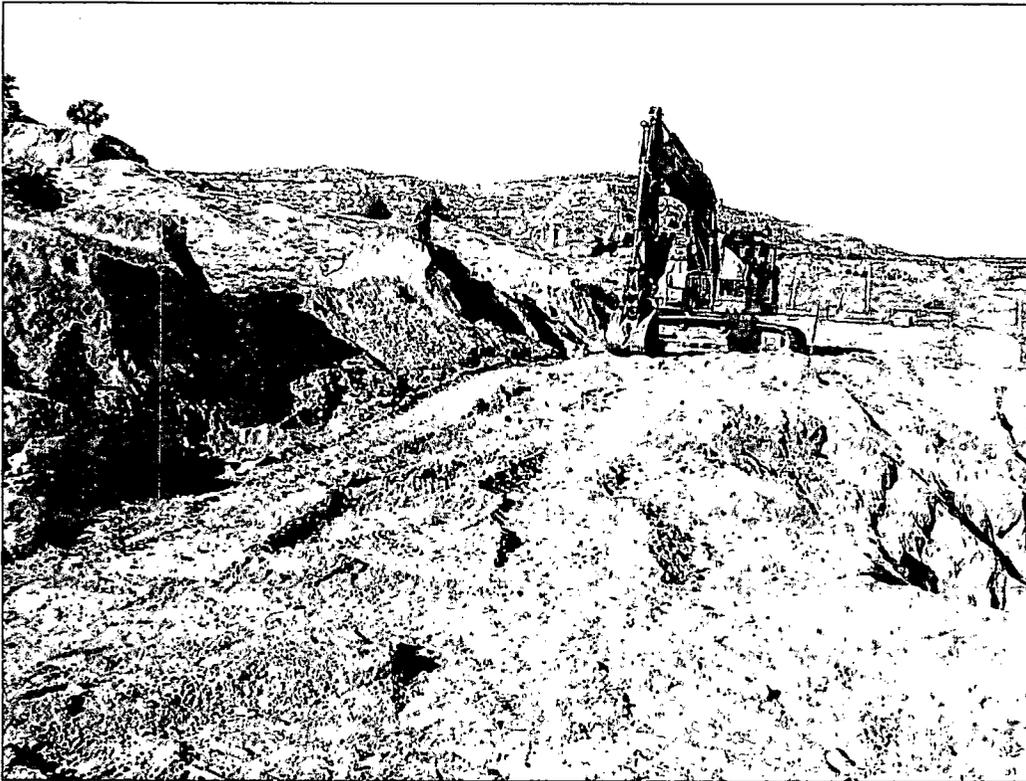


Photo 6: Excavated material stockpiled on the western side of the excavation.

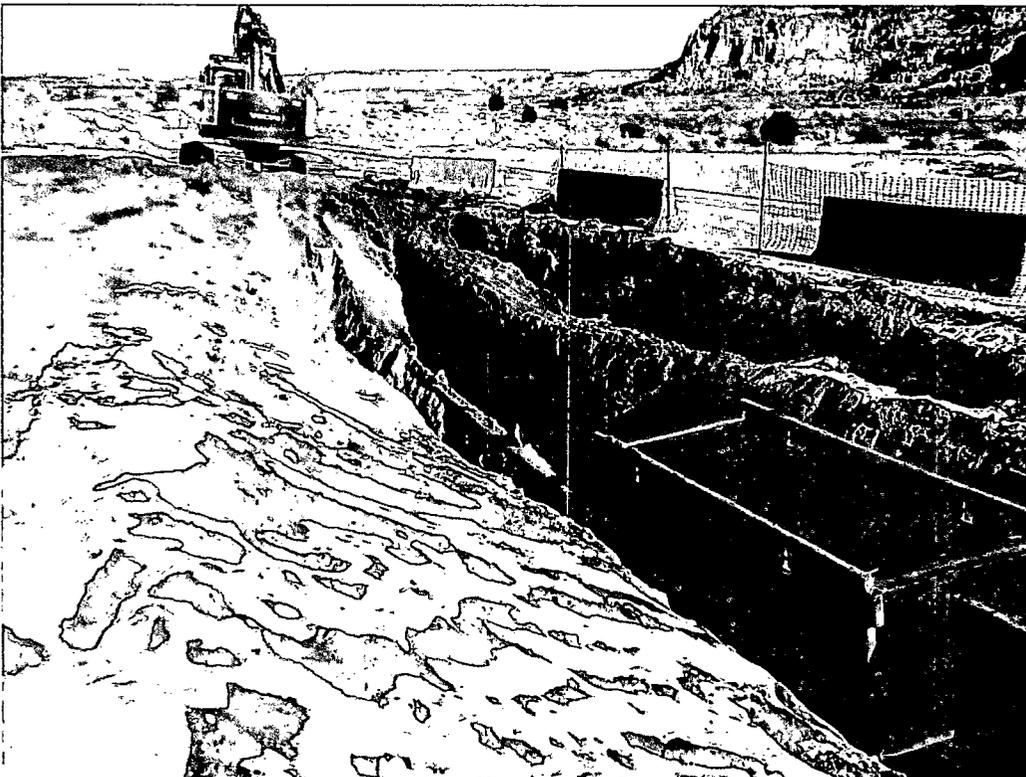


Photo 7: View of the northern section of the excavation. County road along east side of excavation

**APPENDIX C**  
**SOIL DISPOSAL DOCUMENTATION**



# Bill of Lading

MANIFEST # 45379 0611  
 DATE 12-12-13 JOB # 97057-~~12001~~

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	
2	E-tech <del>conts</del>	Enterprise CR7 C-7	CLEAN Fill	-	10	-	EMS	310- <del>309</del>	13:15	Reginald Tosi	
2	"	"	"	-	10	-	EMS	310- <del>309</del>	15:30	Reginald Tosi	
					20						
RESULTS:		LANDFARM EMPLOYEE:		 EL Certification of above receipt & placement				NOTES:			
/	CHLORIDE TEST	/									
/	PAINT FILTER TEST	/									

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. EMS NAME Reginald Tosi SIGNATURE Reginald Tosi  
 COMPANY CONTACT Mike Sanchez PHONE (505) 333-2003 DATE 12-12-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45414

DATE 12-16-13 JOB # 97057-0611

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
<u>2</u>	<u>E-tech</u>	<u>ENTERPRISE BLANCO CANYON CATC-7</u>	<u>CLEAN Fill</u>	<u>-</u>	<u>20</u>	<u>-</u>	<u>FLYING M</u>	<u>20</u>	<u>11:15</u>	<u>Toby Walker</u>
					<u>20</u>					
RESULTS:		LANDFARM EMPLOYEE: <u>Dave</u> <u>EL</u>		NOTES:						
<input checked="" type="checkbox"/>	CHLORIDE TEST	Certification of above receipt & placement								
<input checked="" type="checkbox"/>	PAINT FILTER TEST			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. Flying M NAME Toby Walker SIGNATURE Toby Walker  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45413

DATE 12-16-13 JOB # 97057-0611

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 BLANCO CAMP W CAT C-7	LFIH-5	Cont Soil	N-26	20	-	Flying M	20	11:15	Toby Wahler
2	" " " "	" " " "	" " " "	N-26	20	-	" "	20	13:45	Toby Wahler
					40					
RESULTS:			LANDFARM	EL EMPLOYEE:		NOTES:				
<287	CHLORIDE TEST	1	EMPLOYEE:							
	PAINT FILTER TEST	1	Certification of above receipt & placement			RDC				

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. Flying M NAME Toby Wahler SIGNATURE Toby Wahler  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.





# Bill of Lading

MANIFEST # 45411

DATE 12-16-13 JOB # 97057-0611

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
2	ENTERPISC BLANCO CANYON CAT C-7	LFI-5	cont Soil	N-26	10	-	EMS	310-309	10:30	Reggie Tsosy
2	"	"	"	N-26	10	-	"	310-309	12:55	Reggie Tsosy
					20					
RESULTS:			LANDFARM EMPLOYEE: <u>EL</u>			NOTES:				
<287	CHLORIDE TEST	1	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	1								

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. EMS NAME Reggie Tsosy SIGNATURE Reggie Tsosy  
 COMPANY CONTACT Nik Sanchez PHONE (505) 793-4426 DATE 12-16-13

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# Bill of Lading

MANIFEST # 45395  
 DATE 12-13-13 JOB # 97057-0611

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 Blanco Canyon Cat C-7	LFI-25	Cont SOIL	N-26	20	-	Flying M.	20	1117	<i>Toby Walker</i>	
2	"	"	"	N-26	20	-	"	20	15:05	<i>Toby Walker</i>	
					40						
RESULTS:		LANDFARM EMPLOYEE: <i>[Signature]</i>				NOTES ENTERED DEC 20 2013					
287	CHLORIDE TEST	1	Certification of above receipt & placement				RDC				
	PAINT FILTER TEST	1									

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. Flying M NAME Toby Walker SIGNATURE *Toby Walker*  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

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# Bill of Lading

MANIFEST # 45394  
 DATE 12-13-13 JOB # 97057-0611

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
2	E-tech	ENTERPRISE BLANCO CANYON CAT C-7	Clean Fill	-	20	-	Pichey	21	10:53	<i>[Signature]</i>
					20					
RESULTS:		LANDFARM EMPLOYEE:	<i>[Signature]</i> EL			NOTES:				
/	CHLORIDE TEST	/	Certification of above receipt & placement							
/	PAINT FILTER TEST	/				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. \_\_\_\_\_ NAME *[Signature]* SIGNATURE *[Signature]*  
 COMPANY CONTACT \_\_\_\_\_ PHONE 639-3550 DATE Dec 13 13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45393  
 DATE 12-13-13 JOB # 97057-0611

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
2	SWAMPYRRISE BLAND CANYON	LF#-5	cont soil	L-26	20	-	Richey	71	10:53	<i>[Signature]</i>
2	CAF C-7	" "	" "	N-26	20	-	" "	21	14:50	<i>[Signature]</i>
					40					
RESULTS:		LANDFARM EMPLOYEE:		<i>[Signature]</i> EL		NOTES:				
<287	CHLORIDE TEST	1	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	1								

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. \_\_\_\_\_ NAME *[Signature]* SIGNATURE *[Signature]*  
 COMPANY CONTACT \_\_\_\_\_ PHONE 505 352 3562 DATE Dec 13 13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45392

DATE 12-13-13 JOB # 97057-0611

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
2	E-tech	EUTRAPP 2.5C Biosolids Cap 100 Lot 6-7	Clean Fill	-	20	-	YUCCA	AF4	16:55	
					20					
RESULTS:		LANDFARM				NOTES:				
<input checked="" type="checkbox"/>	CHLORIDE TEST	EMPLOYEE:								
<input checked="" type="checkbox"/>	PAINT FILTER TEST	Certification of above receipt & 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. \_\_\_\_\_ NAME Henry Armenta SIGNATURE

COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45391

DATE 12-13-13 JOB # 97057-0611

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	E/RAAR. S - BIANCO CANYON CAT C-7	LF II - 5	cont SOIL	L-26	20	-	YUCCA	AF4	10:55	
2	" " " "	" " " "	" " " "	L-26	20	-	" "	AF4	11:50	
					40					
RESULTS:		LANDFARM EMPLOYEE:		EL		NOTES:				
< 287	CHLORIDE TEST	1								
	PAINT FILTER TEST	1	Certification of above receipt & placement		RDL					

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. \_\_\_\_\_ NAME Henry Armita SIGNATURE

COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45390

DATE 12-13-13 JOB # 97057-0611

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	Envirotech	Enterprise Blanco Canyon	Clean Fill Soil	—	12	-	EMC 310	39	10:25	Reginald Tsoy
2	"	"	"	—	12	-	EMC	310 309	13:15	Reginald Tsoy
					24					
RESULTS:		LANDFARM EMPLOYEE: <u>Gary Robinson</u>		EL		NOTES:				
/	CHLORIDE TEST	/	Certification of above receipt & placement			RD				
/	PAINT FILTER TEST	/								

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. EMC NAME Reggie Tsoy SIGNATURE Reggie Tsoy  
 COMPANY CONTACT Mike Sanchez PHONE (505) 793-4426 DATE 12-13-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45389  
 DATE 12-13-13 JOB # 97057-0611

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 Blanco Canyon	LFII-5	CON + SOIL	N-26	12	-	EMS 310-39	310	1025	Reggie Tsoni
2	Lat C-7	44	44	4	N-26	12	EMS	309	13:15	Reggie Tsoni
					24				15:55	Reggie Tsoni
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
< 287	CHLORIDE TEST	1	Gary Robinson <sup>EL</sup>							
	PAINT FILTER TEST	1	Certification of above receipt & placement		RDC					

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. EMS NAME Reggie Tsoni SIGNATURE Reggie Tsoni  
 COMPANY CONTACT Mike Sanchez PHONE (505) 793-4424 DATE 12-13-13

Signatures required prior to distribution of the legal document.







# Bill of Lading

MANIFEST # 45381

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

DATE 12-12-13 JOB # 97057-D611

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
7	E-tech	SANTA RITA CAT C-7	CLEAN Fill	-	20	-	Richey	471	13:50	<i>Elmer T. Richey</i>
					20					
RESULTS:		LANDFARM EMPLOYEE:		EL		NOTES:				
/	CHLORIDE TEST	/	<i>Dave L</i>							
/	PAINT FILTER TEST	/	Certification of above receipt & 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: \_\_\_\_\_ NAME Elmer T Richey SIGNATURE *Elmer T Richey*  
 COMPANY CONTACT \_\_\_\_\_ PHONE 632 3536 DATE Dec 12 13

Signatures required prior to distribution of the legal document.

**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jacquez LS#3 Well Site	Facility Type: Meter Tube/Methanol Tank
Surface Owner: Private	Mineral Owner: BLM
API No.	

**LOCATION OF RELEASE**

Unit Letter <b>C</b>	Section <b>30</b>	Township <b>30N</b>	Range <b>8W</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>San Juan</b>
-------------------------	----------------------	------------------------	--------------------	---------------	------------------	---------------	----------------	---------------------------

Latitude 36.78623 Longitude -107.71744

**NATURE OF RELEASE**

Type of Release: Natural gas/Methanol/Condensate liquids/Paraffin	Volume of Release: <b>Unknown</b>	Volume Recovered <b>Unknown</b>
Source of Release: Natural gas meter tube/meter run/Methanol Tank	Date and Hour of Occurrence: <b>12/17/2013 @ 10:12 a.m</b>	Date and Hour of Discovery: <b>12/17/2013 @ 10:12 a.m</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Thomas Long	Date and Hour 12/17/2013 4:02 p.m.	<b>RCVD FEB 13 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

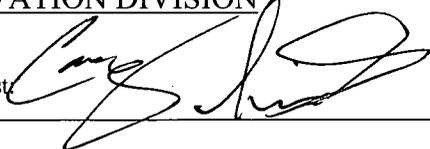
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A production company lease operator discovered a release associated with a methanol tank. The sight glass valve on the methanol tank froze and broke. The well was shut in and the meter run was blown down and LOTO was applied.

Describe Area Affected and Cleanup Action Taken.\*

Natural gas/Methanol/Condensate liquids/Paraffin impacted an area of approximately 100 feet long by 50 feet wide. Remediation activities were completed on December 21, 2013. Approximately 50 cubic yards of impacted soil and approximately 7 barrels of water and soil (hydro excavation material) were disposed of at a NMOCD approved landfarm. A third party corrective action report is included with this "final" c-141.

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: Jon E. Fields	Approved by Environmental Specialist 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: <u>jefields@eprod.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-5-14</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

#NCS 141185 3607

100

SUBJECT LATERAL C-7

PROJECT 5122104 PAGE

CLIENT ENTERPRISE

DATE 12/16/13 BY AJE

CHECKED BY 12/21

7:55 - AERONAUTICAL arrive on site

8:00 - EMS arrive on site

8:13 - Calibrate PID  
 READS 0.0 ON AMBIENT AIR  
 READS 100.0 ON 100 ppm Isobutylene

9:00 - Have TRUCKS ARRIVE TAPPER: 1 BERRY: 1

9:15 - Tailgate w/ Richard

10:40 - Pressurize Line - NO LEAKS or REPAIR PIPE

11:30 - DE-PRESSURIZE LINE

11:00 - REMOVE TRENCH BOXES

SAMPLE ID	TIME	HEADSPACE	TIME - HEADSPACE
* SC-37 (s. well), 12'	11:20	1792	12:00
* SC-38, 14' (s.well)	11:32	1792	12:10
SC-39, 16' (bottom)	11:34	1365	12:13
* SC-40, 18' (bottom)	11:38	4086	13:17
* SC-41, 14' (s.well)	11:47	2721	12:22
SC-42, 16' (bottom)	11:50	3175	12:26
* SC-43, 18' (bottom)	11:54	1016	12:38
SC-44, 12' (s.well)	11:58	252	12:31
* SAMPLE SPLITS FOR LABS ANALYSIS			

EXCAVATION EXTENDED AS FAR AS POSSIBLE  
 NORTH AND SOUTH EXTENDED TO 100 ppm FIELD SCREENS  
 EAST LIMITED BY CR 2007. WEST LIMITED BY PIPE LINES

13:15 - DISCUSS FIELD SCREENING w/ RICHARD  
 S.G. out.

13:30 - Call: Tom Long (leave message)



**APPENDIX B**  
**SITE PHOTOGRAPHY**

**Site Photographs**  
**Enterprise Products Lateral C-7 Pipeline Release**



Photo 1: The beginning of excavation to determine the location of the release, December 6, 2013.



Photo 2: Discovery of the first release point with condensate flowing from the pipeline.

Site Photographs  
Enterprise Products Lateral C-7 Pipeline Release



Photo 3: Pipeline repair activity; note the staining on the western sidewall.

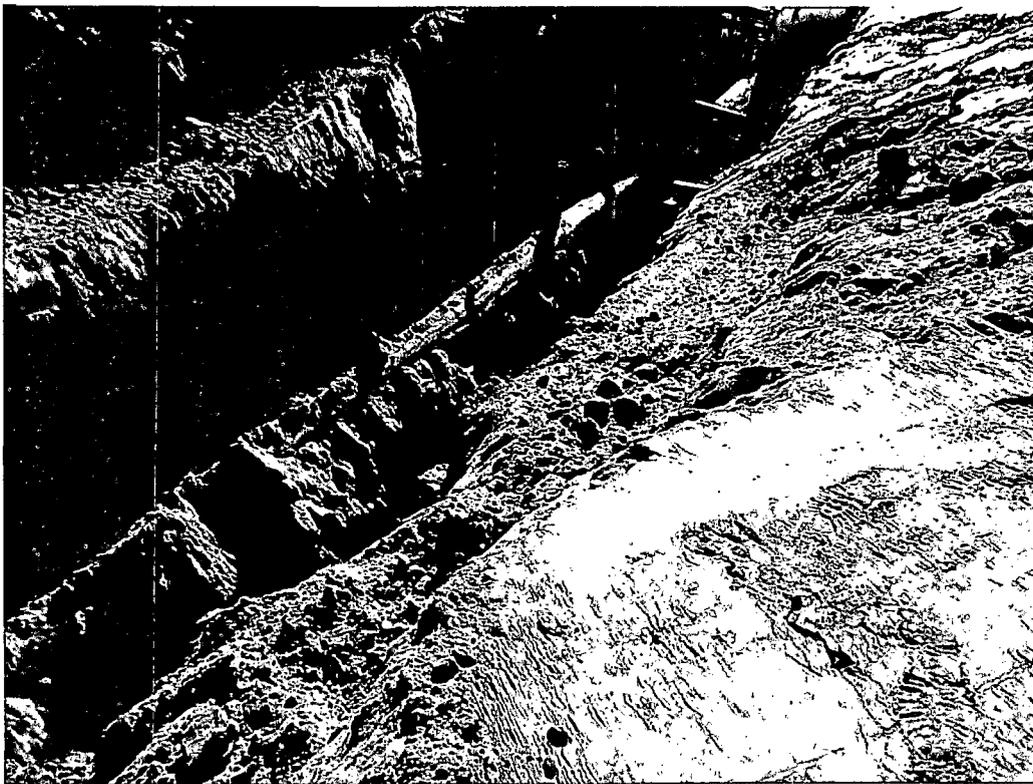


Photo 4: View of faulty section of Lateral C-7 pipeline, approximately 30 feet in length.

Site Photographs  
Enterprise Products Lateral C-7 Pipeline Release

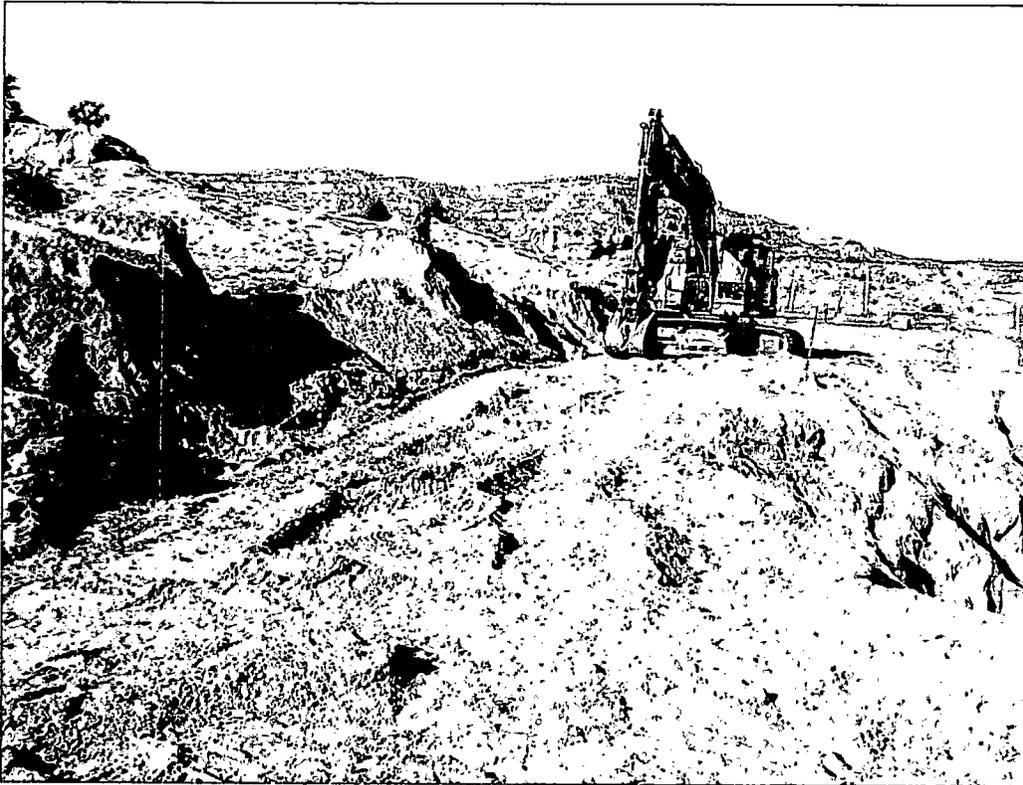


Photo 6: Excavated material stockpiled on the western side of the excavation.

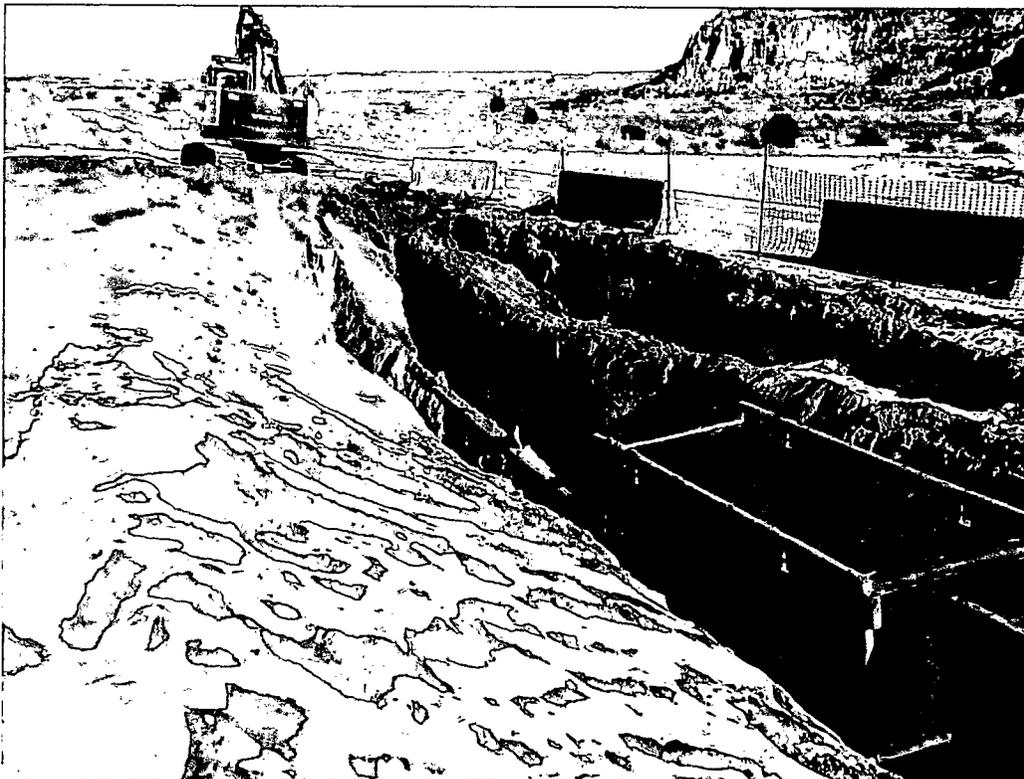


Photo 7: View of the northern section of the excavation. County road along east side of excavation

**APPENDIX C**  
**SOIL DISPOSAL DOCUMENTATION**



# Bill of Lading

MANIFEST # 45379 0611  
 DATE 12-12-13 JOB # 97057-1700

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
2	E-tech <del>cont</del>	Enterprise LOT C-7	CLEAN Fill	-	10	-	EMS	312- <del>309</del>	13:15	Reginald H.
2	4	4	4	4	-	10	EMS	310 309	15:30	Reginald H.
					20					
RESULTS:		LANDFARM EMPLOYEE:	Certification of above receipt & placement				NOTES:			
/	CHLORIDE TEST	/								
/	PAINT FILTER TEST	/								

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. EMS NAME Reginald H. Tsoyi SIGNATURE Reginald H.  
 COMPANY CONTACT Mike Smother PHONE (505) 333-2003 DATE 12-12-13

Signatures required prior to distribution of the legal document.





# Bill of Lading

MANIFEST # 45413  
 DATE 12-16-13 JOB # 97057-0611

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	ENRIQUE BLANCO CANYON CAT C-7	LFIH-5	CONT SOIL	N-26	20	-	Flying M	20	11:15	Toby Wahler
2	"	U U	U R	U	N-26	20	"	"	13:45	Toby Wahler
					40					
RESULTS:			LANDFARM EMPLOYEE:	 EL			NOTES:			
<287	CHLORIDE TEST	1	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	1								

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. Flying M NAME Toby Wahler SIGNATURE   
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



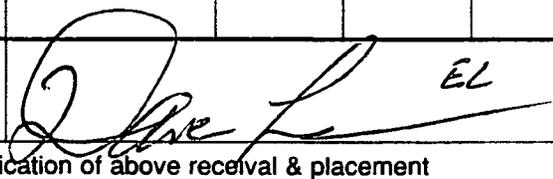


# Bill of Lading

MANIFEST # 45411

DATE 12-16-13 JOB # 97057-0611

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
2	ENTERPISC BLANCO CANYON CAT C-7	LFI-5	CONF Soil	N-26	10	-	EMS	310-309	10:30	Reggie Trosu
2	"	"	"	N-26	10	-	"	310-309	12:55	Reggie Trosu
					20					
RESULTS:		LANDFARM EMPLOYEE:		 Certification of above receipt & placement		NOTES:				
<247	CHLORIDE TEST	1								
	PAINT FILTER TEST	1		RSC						

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. EMS NAME Reggie Trosu SIGNATURE Reggie Trosu  
 COMPANY CONTACT Nick Sanchez PHONE (505) 793-4426 DATE 12-16-13

Signatures required prior to distribution of the legal document.





# Bill of Lading

MANIFEST # 45395  
 DATE 12-13-13 JOB # 97257-0611

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 Blanco Canyon Cat C-7	LFI-25	CONT SOIL	N-26	20	-	Flying M.	20	1117	<i>Toby Walker</i>	
2	"	"	"	N-26	20	-	"	20	15:05	<i>Toby Walker</i>	
					40						
RESULTS:		LANDFARM EMPLOYEE: <i>Dave L</i>				NOTES ENTERED DEC 20 2013					
287	CHLORIDE TEST	1	Certification of above receipt & placement				RDC				
	PAINT FILTER TEST	1									

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. Flying M NAME Toby Walker SIGNATURE *Toby Walker*  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45394

DATE 12-13-13 JOB # 97057-0611

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
2	E-tech	ENHARISC DIAMOND CANYON CAT C-7	clean Fill	-	20	-	Pichey	21	10:53	<i>[Signature]</i>
					20					
RESULTS:		LANDFARM EMPLOYEE:	<i>[Signature]</i> EL			NOTES:				
/	CHLORIDE TEST	/	Certification of above receipt & placement			RD				
/	PAINT FILTER TEST	/								

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. \_\_\_\_\_ NAME *[Signature]* SIGNATURE *[Signature]*  
 COMPANY CONTACT \_\_\_\_\_ PHONE 699-3550 DATE Dec 13 13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45393

DATE 12-13-13 JOB # 97057-0611

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
2	Enterprise Blanco Canyon	LF#-5	cont Soil	L-26	20	-	Richey	71	10:53	[Signature]
2	CAF C-7	u u	u u	N-26	20	-	u u	21	14:50	[Signature]
					40					
RESULTS:			LANDFARM EMPLOYEE: <u>Dave L EL</u>			NOTES:				
<287	CHLORIDE TEST	1	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	1								

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. \_\_\_\_\_ NAME Chas. T. Richey SIGNATURE [Signature]  
 COMPANY CONTACT \_\_\_\_\_ PHONE 632 3562 DATE Dec 13 13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45392  
 DATE 12-13-13 JOB # 97057-0611

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
2	E-tech	ENTRAP-3C BIA 120 CA-100 KAT C-7	Clean Fill	-	20	-	YUCCA	AF4	16:55	
					20					
RESULTS:		LANDFARM	EL			NOTES:				
<input checked="" type="checkbox"/>	CHLORIDE TEST	EMPLOYEE:								
<input checked="" type="checkbox"/>	PAINT FILTER TEST	Certification of above receipt & 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. \_\_\_\_\_ NAME Henry Armenta SIGNATURE   
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45391

DATE 12-13-13 JOB # 97257-0611

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	E/RAAR. S - BIANCO CANYON CAT C-7	LF II - 5	cont SOIL	E-26	20	-	YUCCA	AF4	10:55	
2	" " " "	" "	" "	L-26	20	-	" "	AF4	11:50	
					40					
RESULTS:		LANDFARM EMPLOYEE:		EL		NOTES:				
< 287	CHLORIDE TEST	1				RDC				
	PAINT FILTER TEST	1	Certification of above receipt & placement							

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. \_\_\_\_\_ NAME Henry Armita SIGNATURE

COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE \_\_\_\_\_

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45390

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

DATE 12-13-13 JOB # 97057-0611

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotech	Enterprise Blanco Canyon	Clean Fill Soil	—	12	-	EMC 310	-39	10:25	Reginald Tsoy
2	"	"	"	—	12	-	EMC 310	309	13:15	Reginald Tsoy
					24					
RESULTS:		LANDFARM EMPLOYEE: <u>Gary Robinson</u>		EL		NOTES:				
/	CHLORIDE TEST	/	Certification of above receipt & placement			RD				
	PAINT FILTER TEST									

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. EMC NAME Reggie Tsoy SIGNATURE Reggie Tsoy  
 COMPANY CONTACT Mike Sanchez PHONE (505) 793-4126 DATE 12-13-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45389  
 DATE 12-13-13 JOB # 97057-0611

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 Blanco Canyon	LFII-5	CON + SOIL	N-26	12	-	EMS 310-39	310	1025	Reginald
2	Lat C. 7	4"	4"	N-26	12	-	EMS	309	13:15	Reginald
					24				15:55	Reginald
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
< 247	CHLORIDE TEST	1	Gary Robinson <sup>EL</sup>							
	PAINT FILTER TEST	1	Certification of above receipt & placement		RDC					

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. ETUS NAME Reggie Asari SIGNATURE Reginald  
 COMPANY CONTACT Mike Sanchez PHONE (505) 793-4424 DATE 12-13-13

Signatures required prior to distribution of the legal document.







# Bill of Lading

MANIFEST # 45381

DATE 12-12-13 JOB # 97057-0611

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
7	E-tech	ENTERPRISE LAY C-7	CLEAN Fill	-	20	-	Richey	471	13:50	<i>Elmer T Richey</i>
					20					
RESULTS:		LANDFARM EMPLOYEE: <i>Dave L</i> EL		NOTES:						
/	CHLORIDE TEST	/	Certification of above receipt & placement							
/	PAINT FILTER TEST	/				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: \_\_\_\_\_ NAME Elmer T Richey SIGNATURE *Elmer T Richey*  
 COMPANY CONTACT \_\_\_\_\_ PHONE 632 3536 DATE Dec 12 13

Signatures required prior to distribution of the legal document.

**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**

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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Jacquez LS#3 Well Site	Facility Type: Meter Tube/Methanol Tank
Surface Owner: Private	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
C	30	30N	8W					San Juan

Latitude 36.78623 Longitude -107.71744

**NATURE OF RELEASE**

Type of Release: Natural gas/Methanol/Condensate liquids/Paraffin	Volume of Release: <b>Unknown</b>	Volume Recovered <b>Unknown</b>
Source of Release: Natural gas meter tube/meter run/Methanol Tank	Date and Hour of Occurrence: <b>12/17/2013 @ 10:12 a.m</b>	Date and Hour of Discovery: <b>12/17/2013 @ 10:12 a.m</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Thomas Long	Date and Hour 12/17/2013 4:02 p.m.	RCVD FEB 13 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

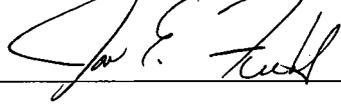
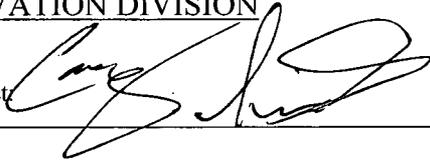
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A production company lease operator discovered a release associated with a methanol tank. The sight glass valve on the methanol tank froze and broke. The well was shut in and the meter run was blown down and LOTO was applied.

Describe Area Affected and Cleanup Action Taken.\*

Natural gas/Methanol/Condensate liquids/Paraffin impacted an area of approximately 100 feet long by 50 feet wide. Remediation activities were completed on December 21, 2013. Approximately 50 cubic yards of impacted soil and approximately 7 barrels of water and soil (hydro excavation material) were disposed of at a NMOCD approved landfarm. A third party corrective action report is included with this "final" c-141.

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: Jon E. Fields	Approved by Environmental Specialist 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-5-14</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

#NCS 141185 3607

100



January 20, 2014

Project Number: 97057-0612

Mr. Tom Long  
Enterprise Products  
614 Reilly Avenue  
Farmington, New Mexico 87401

Phone: (505) 599-2124

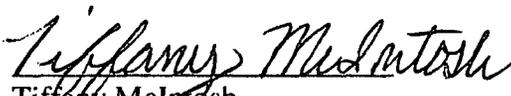
**RE: SPILL CLEANUP REPORT FOR JACQUEZ LS #3 WELL SITE LOCATED IN SECTION 30, TOWNSHIP 30 NORTH, RANGE 8 WEST, SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Long,

Enclosed please find the *Spill Cleanup Report* detailing cleanup activities from a release of methanol and paraffin at the Jacquez LS #3 well site, located in Section 30, Township 30 North, Range 8 West, San Juan County, New Mexico.

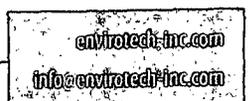
We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,  
**ENVIROTECH, INC.**

  
Tiffany McIntosh  
Staff Scientist  
[tmcintosh@envirotech-inc.com](mailto:tmcintosh@envirotech-inc.com)

Enclosures: Spill Cleanup Report

Cc: Client File No. 97057



**ENTERPRISE  
SPILL CLEANUP REPORT  
JACQUEZ LS #3  
SECTION 30, TOWNSHIP 30N, RANGE 8W  
SAN JUAN COUNTY, NEW MEXICO**

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                  Figure 3, Site Map 12/20/2013  
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Appendices:  Appendix A, Site Photography  
                  Appendix B, Analytical Results

## INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup activities for a release of methanol and paraffin at the Jacquez LS #3 well site, located in Section 30, Township 30 North, Range 8 West, San Juan County, New Mexico; see enclosed *Figure 1, Vicinity Map*. The sight glass on the dripper broke, releasing methanol and paraffin into the surrounding area. The release impacted the immediate area around the meter run and the down-slope area south of it. The impacted area had approximate dimensions of 50 feet by 100 feet. Activities included sample collection and analysis, documentation and reporting.

## ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on December 19, 2013, with a request to respond to a release of methanol and paraffin that occurred at the above referenced location. Methanol and paraffin were observed to be yellow and layered along the surface of the impacted area; see enclosed *Appendix A, Site Photography, Picture 1 and 2*. The extents of the contamination were estimated to be approximately 50 feet by 100 feet; see enclosed *Figure 2, Site Map and Appendix A, Site Photography, Picture 1 and 2*. Because depth to groundwater was less than 50 feet, nearest surface water was between 200 and 1000 feet, and the well site was not located within a well head protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

One (1) five (5)-point composite sample, *South Perimeter Composite ~50' Horizontal*, was collected from approximately 50 feet south of the meter run, within a shrubby area of vegetation; see enclosed *Figure 2, Site Map 12/19/2013* for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results slightly above the regulatory standard for TPH, but below the regulatory standard for organic vapor; see enclosed *Appendix B, Analytical Results and Table 1, Summary of Analytical Results*. Equipment Maintenance Services (EMS) utilized a backhoe to remove the vegetation in the impacted area south of the meter run, along with approximately one (1) inch of topsoil.

Automation electrical lines ran underground directly south of the meter run. Therefore, extra precaution had to be used when excavating the soil in that area. Utilizing hand shovels, approximately five (5) inches of soil were removed from the area immediately south of the meter run. One (1) five (5)-point composite sample, *Near Electrical Lines ~5" BGS Composite*, was collected from the area immediately south of the meter run; see enclosed *Figure 2, Site Map 12/19/2013* for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results above the regulatory standard for TPH and organic vapor; see enclosed *Appendix B, Analytical Results and Table 1, Summary of Analytical Results*. A determination was made to proceed with

hydrovac activities around the electrical lines.

On December 20, 2013, Envirotech, Inc. personnel returned to the above referenced location for continued spill cleanup activities. Hydrovac activities were conducted on the area directly south of the meter run to expose the electrical lines; see enclosed **Appendix A, Site Photography, Picture 3, 4, and 5**. To assess the depth of the contamination, two (2) trenches were dug, using a backhoe, on either side of the electrical lines, to a depth of approximately two (2) feet below ground surface (BGS). Another trench was dug west of the previously mentioned two (2) trenches, to a depth of approximately 1.5 feet BGS. Three (3) grab samples were collected from the trenches south of the meter run: *Grab Sample ~1.5' BGS*, from the western trench, *North Grab Sample ~2' BGS*, from the trench north of the electrical lines, and *South Grab Sample ~2' BGS*, from the trench south of the electrical lines; see enclosed **Figure 3, Site Map 12/20/2013** for sample locations. All three (3) samples returned results slightly above the regulatory standard for TPH, but below the regulatory standard for organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**.

The area above the electrical lines was hydrovaced to the depth of approximately one (1) foot BGS. One grab sample, *Grab Sample Over Electrical Lines ~1' BGS*, was collected; see enclosed **Figure 3, Site Map 12/20/2013** for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results above the regulatory standard for TPH and organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. A determination was made to continue hydrovac activities around the electrical lines.

The previously mentioned area where the vegetation had been cleared, south of the meter run, was divided into two (2) sections: middle section and south section. Each section measured approximately 15 feet by 100 feet. Two (2) five (5)-point composite samples, *South Composite* and *Middle Composite*, were collected from the area of cleared vegetation; see enclosed **Figure 3, Site Map 12/20/2013** for sample locations. Both samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. Both samples returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. A recommendation was made to remove a few additional inches of soil in the south and middle sections of the area of cleared vegetation.

On December 21, 2013, Envirotech personnel returned to the above referenced location for continued spill cleanup activities. The previously mentioned south and middle sections, within the area of cleared vegetation, was excavated to a depth of approximately five (5) to six (6) inches; see enclosed **Appendix A, Site Photography, Picture 6**. One (1) five (5)-point composite sample, *South Composite*, was collected, representing both the previously named south and middle sections; see enclosed **Figure 4, Site Map 12/21/2013** for sample locations. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standard for TPH and organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. The

sample was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and total BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**.

The area immediately surrounding the meter run house and tubes was excavated to a depth ranging from six (6) inches to two (2) feet; see enclosed **Appendix A, Site Photography, Picture 7 and 8**. One (1) five (5)-point composite sample, *Near Meter Run Composite*, was collected. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standard for TPH and organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. The sample was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and total BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**.

The remaining area between the previously taken two (2) samples, *South Composite* (entire area of cleared vegetation) and *Near Meter Run Composite*, was excavated to a depth of approximately two (2) feet; see enclosed **Appendix A, Site Photography, Picture 6 and 7**. This excavation includes the area where the trenches and electrical lines were and has now been named the Middle Section. One (1) five (5)-point composite sample, *Middle Composite*, was collected. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results above the regulatory standard for TPH and organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. A recommendation was made to excavate this area an additional two (2) feet.

The Middle Section was excavated to a depth ranging from two (2) feet to four (4) feet. One (1) five (5)-point composite sample, *Middle Composite 2*, was collected. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results below the regulatory standard for TPH and organic vapor; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**. The sample was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and total BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for all constituents analyzed; see enclosed **Appendix B, Analytical Results** and **Table 1, Summary of Analytical Results**.

EMS transported the contaminated soil to the Industrial Ecosystems Incorporated (IEI) NMOCD permitted soil remediation facility for disposal. The excavation was then backfilled with clean-fill material and re-contoured to pre-incident conditions by EMS.

**SUMMARY AND CONCLUSIONS**

Confirmation and spill cleanup activities were performed for a release of methanol and paraffin at the Jacquez LS #3 well site, located in Section 30, Township 30 North, Range 8 West, San Juan County, New Mexico. Envirotech, Inc. recommends no further action in regards to this incident.

**STATEMENT OF LIMITATIONS**

Envirotech, Inc. has completed confirmation and spill cleanup activities for a release of methanol and paraffin at the Jacquez LS #3 well site, located in Section 30, Township 30 North, Range 8 West, San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the NMOCD standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,

**ENVIROTECH, INC.**



Tiffany McIntosh

Staff Scientist

[tmcintosh@envirotech-inc.com](mailto:tmcintosh@envirotech-inc.com)

Reviewed by:



Greg Crabtree, PE

Environmental Manager

[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

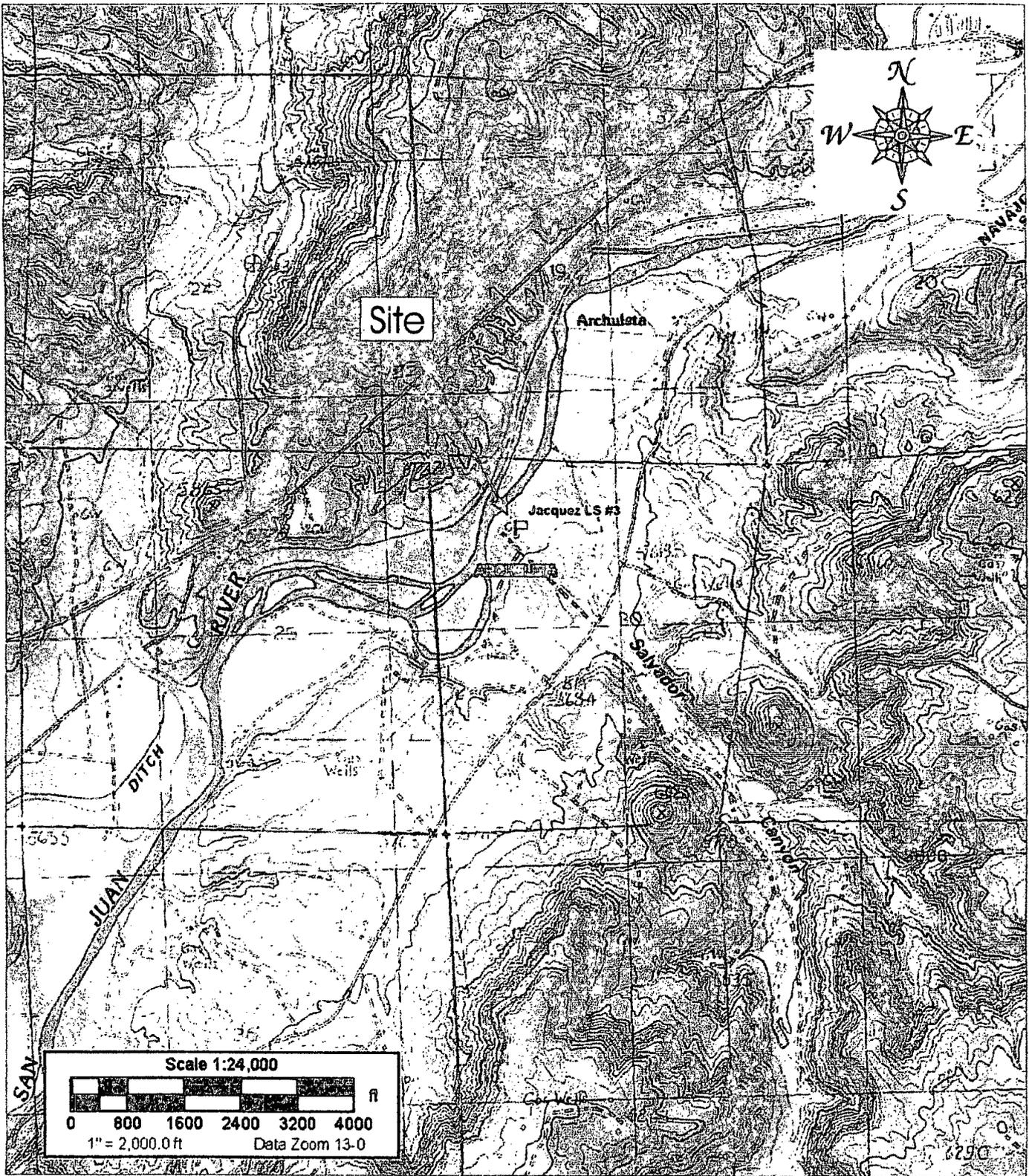
## **FIGURES**

Figure 1, Vicinity Map

Figure 2, Site Map 12/19/2013

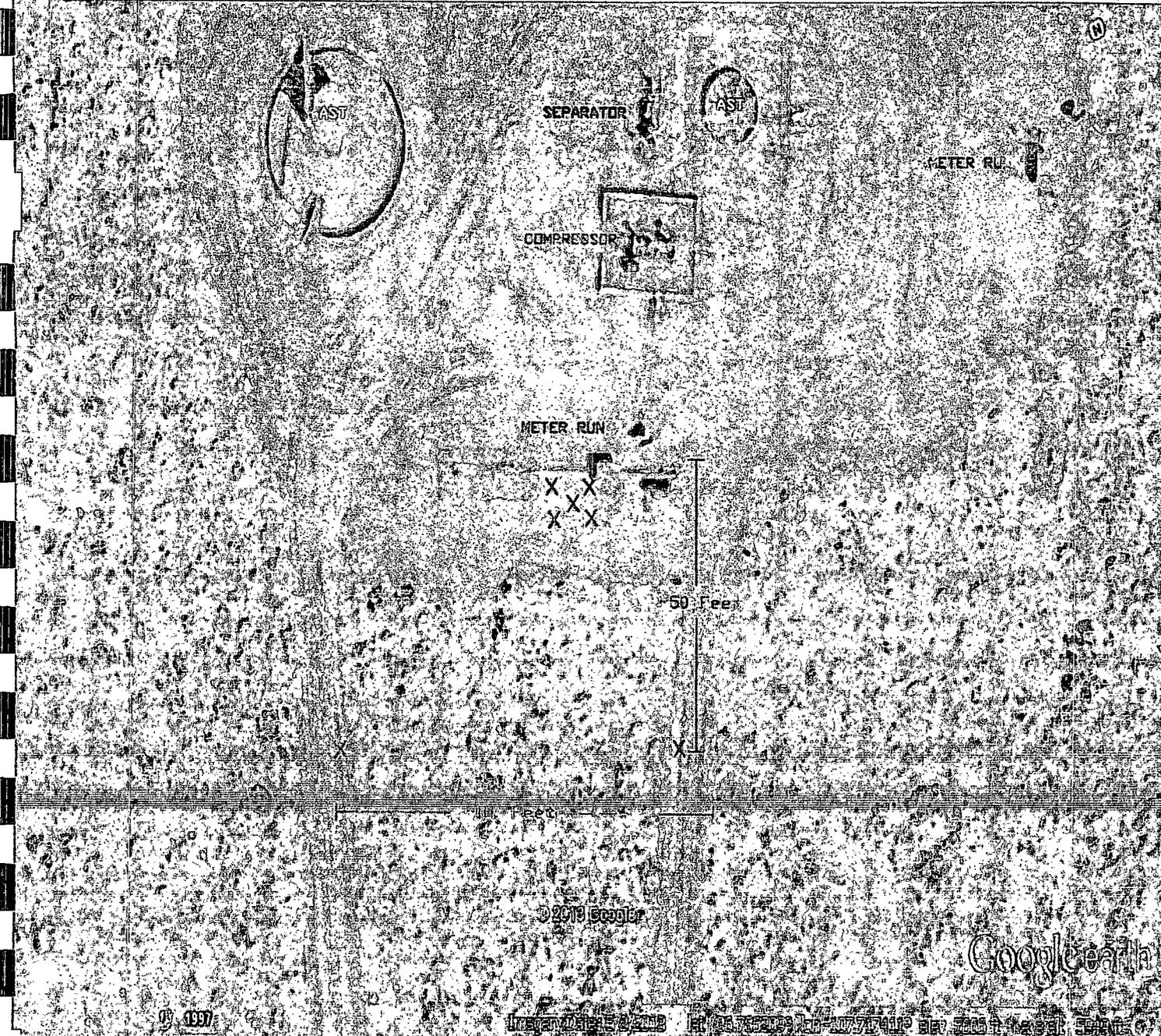
Figure 3, Site Map 12/20/2013

Figure 4, Site Map 12/21/2013



Source: Archuleta 7.5 Minute, San Juan County, New Mexico U.S.G.S. Topographic Quadrangle Map  
 Scale: 1:24,000 1" = 2000'

<p>Enterprise Products          Jacquez LS #3          Section 30, Township 30N, Range 8W          San Juan County, New Mexico</p>	 <p>5796 U.S. HIGHWAY 64          Farmington, New Mexico 87401          505.632.0615</p>	<p>Vicinity Map</p>	
<p>PROJECT Number: 97057-0612</p>		<p>Date Drawn: 12/21/13</p>	<p>Figure #1</p> <p>DRAWN BY:          Tiffany McIntosh</p>



# LEGEND

- | X SAMPLE 1:  
South Perimeter Composite  
~50' Horizontally
  
- | X SAMPLE 2:  
Near Electrical Lines  
~5" BGS Composite

## SITE MAP - 12/19/2013

Enterprise Products  
Jacquez LS #3  
SECTION 30, TWP 30 NORTH, RANGE 8 WEST  
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 2	REV	
PROJECT NO97057-0612			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	TLM	12/24/13	BASE DRWN TLM 2/25/13



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



# LEGEND

- ⊗ SAMPLE 1  
Grab Sample ~1.5' BGS
- ⊗ SAMPLE 2  
North Grab Sample ~2' BGS
- ⊗ SAMPLE 3  
South Grab Sample ~2' BGS
- ⊗ SAMPLE 4  
Grab Sample Over  
Electrical Lines ~1' BGS
- X SAMPLE 5  
South Composite
- X SAMPLE 6  
Middle Composite

## SITE MAP - 12/20/2013

Enterprise Products

Jacquez LS #3

SECTION 30, TWP 30 NORTH, RANGE 8 WEST  
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 3	REV
PROJECT N097057-0612		

### REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	TLM	12/24/13	BASE DRWN TLM 2/25/13



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## LEGEND

- X SAMPLE 1:  
South Composite
- X SAMPLE 2:  
Near Meter Run Composite
- X SAMPLE 3:  
Middle Composite
- ⊗ SAMPLE 4:  
Middle Composite 2

### SITE MAP - 12/21/2013

Enterprise Products

Jacquez LS #3

SECTION 30, TWP 30 NORTH, RANGE 8 WEST  
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 4

REV

PROJECT N097057-0612

#### REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	TLM	12/24/13	BASE DRWN TLM
			2/25/13



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

**TABLES**

Table 1, Summary of Analytical Results

Table 1. Summary of Analytical Results  
 Enterprise  
 Jacquez LS #3  
 Spill Cleanup Report  
 San Juan County, New Mexico  
 Project Number 97057-0612

Sample Description	Sample Number	Date	TPH USEPA Method 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	OVM (ppm)
NMOC/RCRA Standards	NA	NA	100	100	10	50	100
South Perimeter Composite ~50' Horizontally	1	12/19/2013	192	NS	NS	NS	1.4
Near Electrical Lines ~5" BGS Composite	2	12/19/2013	<b>8110</b>	NS	NS	NS	<b>2021</b>
Grab Sample ~1.5' BGS	1	12/20/2013	<b>104</b>	NS	NS	NS	99.8
North Grab Sample ~2' BGS	2	12/20/2013	<b>148</b>	NS	NS	NS	42.1
South Grab Sample ~2' BGS	3	12/20/2013	<b>108</b>	NS	NS	NS	9.2
Grab Sample Over Electrical Lines ~1' BGS	4	12/20/2013	<b>5440</b>	NS	NS	NS	<b>1260</b>
South Composite	5	12/20/2013	<b>184</b>	NS	NS	NS	2.8
Middle Composite	6	12/20/2013	<b>252</b>	NS	NS	NS	7.1
South Composite	1	12/21/2013	24	ND	ND	ND	0.6
Near Meter Run Composite	2	12/21/2013	68	ND	ND	ND	39.3
Middle Composite	3	12/21/2013	<b>948</b>	NS	NS	NS	<b>924</b>
Middle Composite 2	4	12/21/2013	44	ND	ND	ND	17.3

NS = Not Sampled

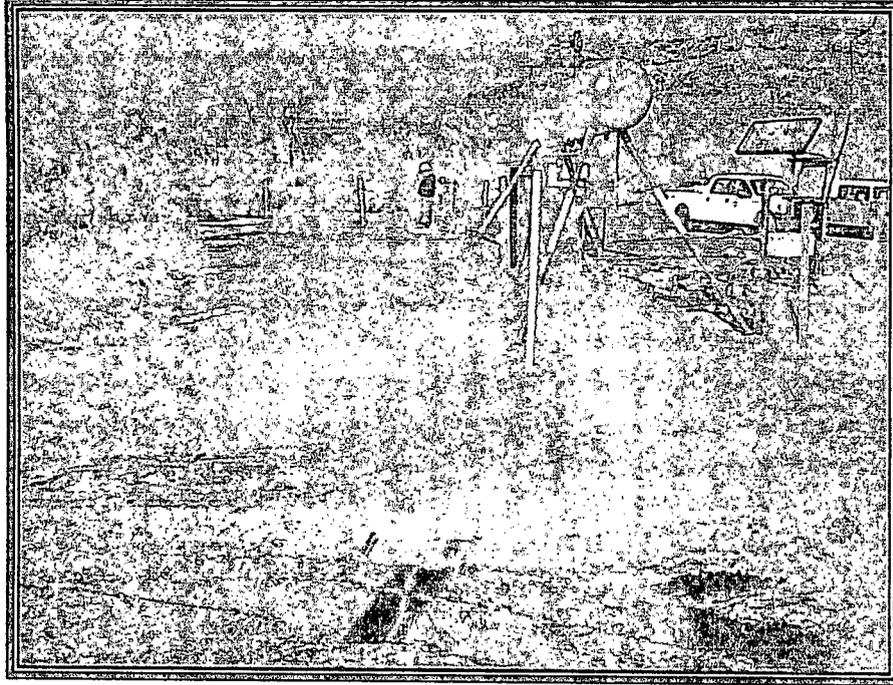
ND = Non-Detect at Stated Method's Detection Limit

\* Values in **BOLD** above regulatory standards

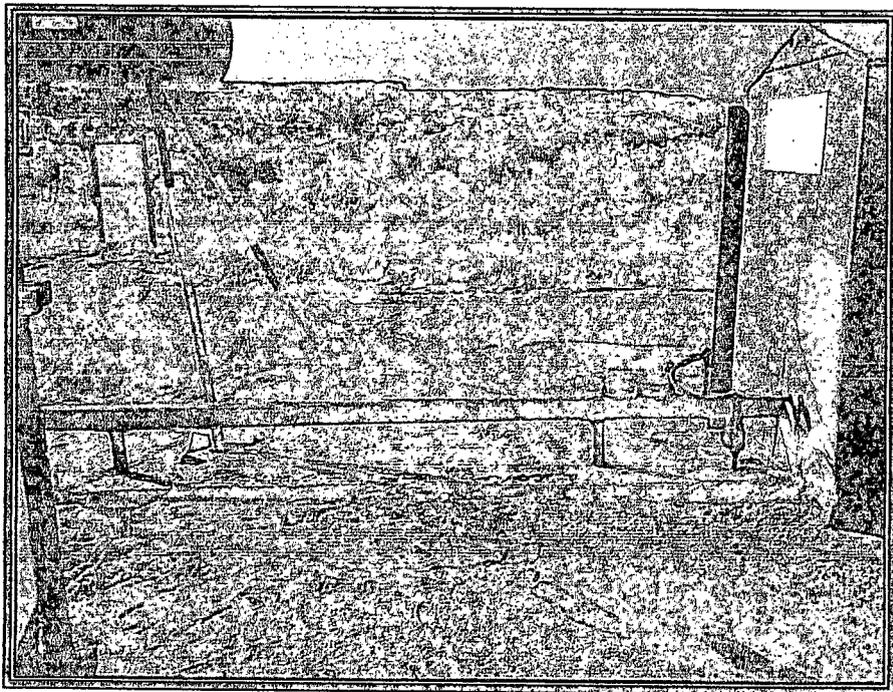
**APPENDIX A**

**Site Photography**

Site Photography  
Enterprise  
Jacquez LS #3  
Spill Cleanup Report  
Project No. 97057-0612  
December 2013

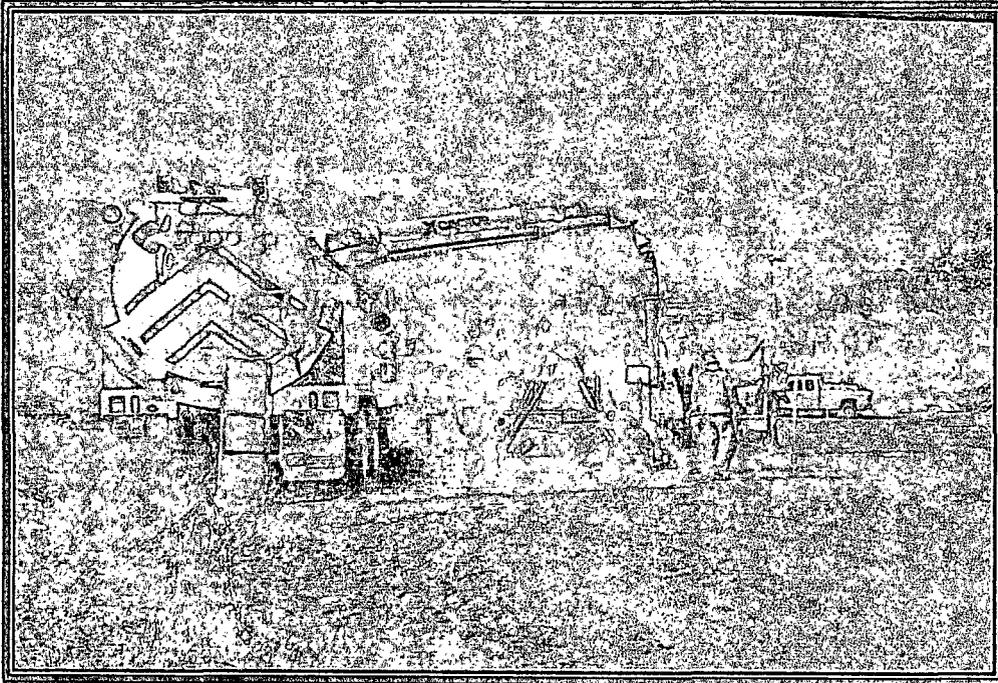


Picture 1: Release Area - 12/19/2013 (View 1)

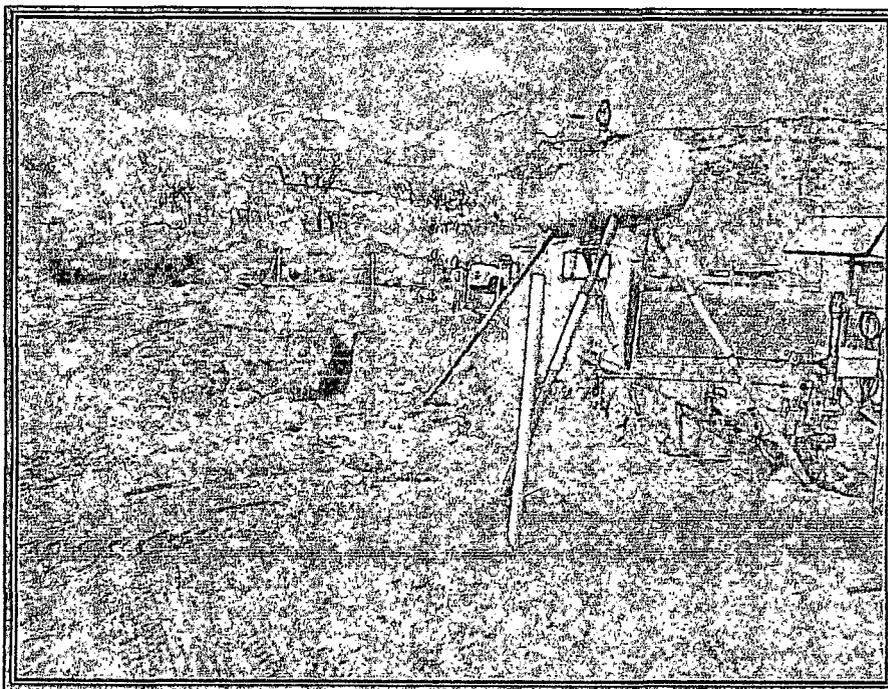


Picture 2: Release Area - 12/19/2013 (View 2)

Site Photography  
Enterprise  
Jacquez LS #3  
Spill Cleanup Report  
Project No. 97057-0612  
December 2013

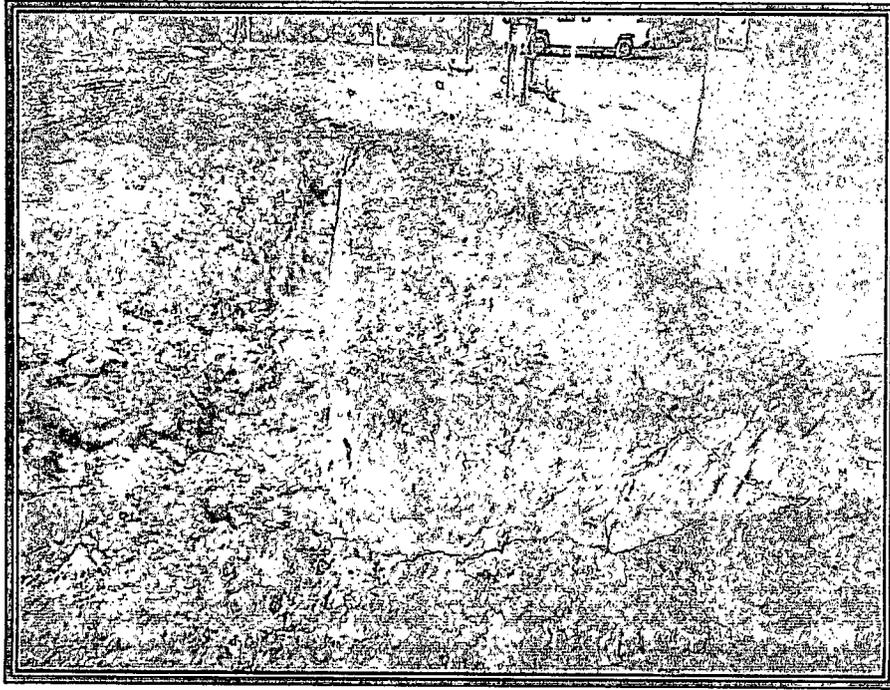


Picture 3: Hydrovac Activities - 12/20/2013 (View 1)

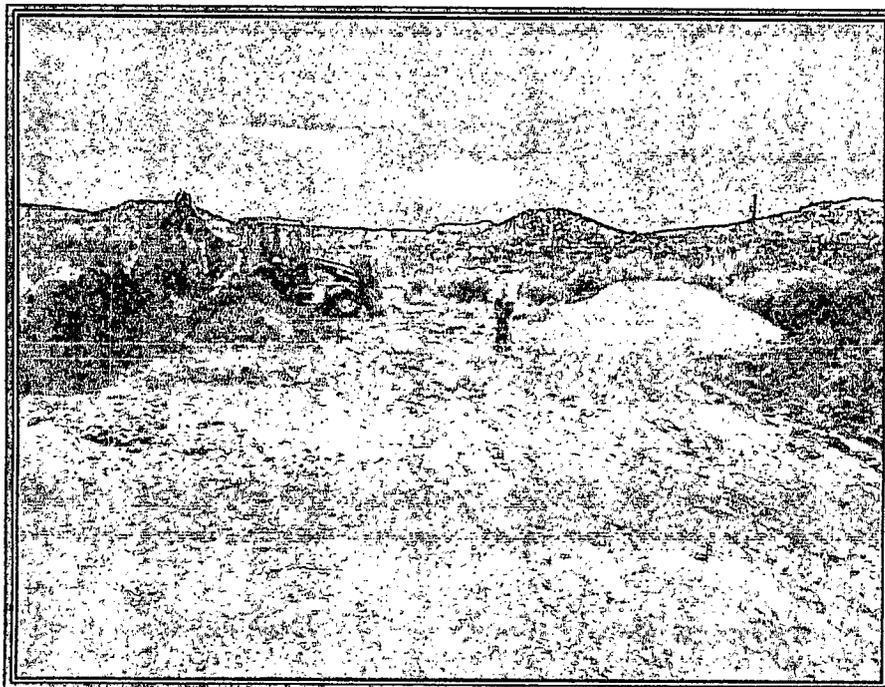


Picture 4: Hydrovac Activities - 12/20/2013 (View 2)

Site Photography  
Enterprise  
Jacquez LS #3  
Spill Cleanup Report  
Project No. 97057-0612  
December 2013

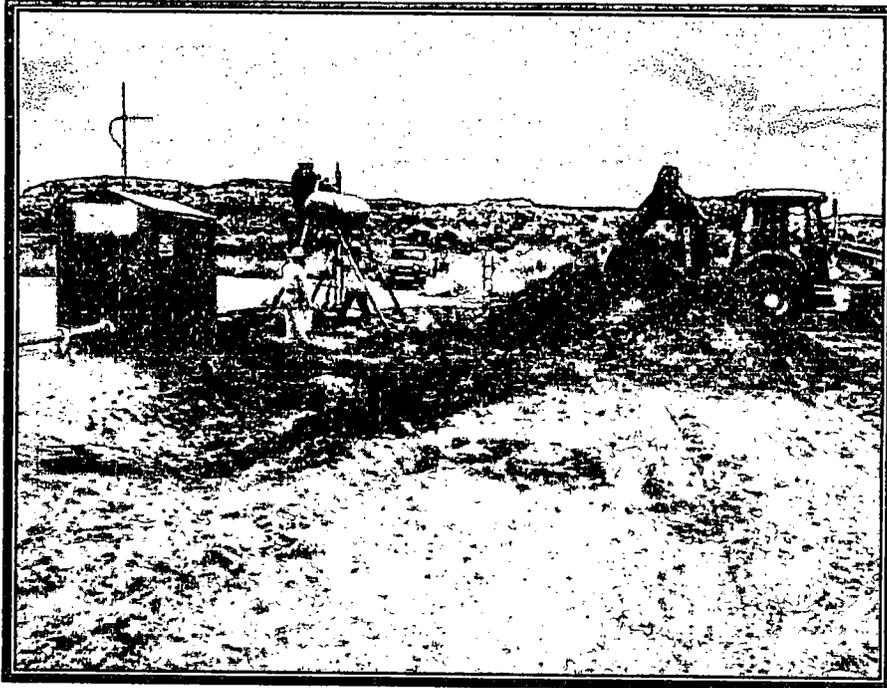


Picture 5: Uncovered Electrical Lines - 12/20/2013



Picture 6: Cleared Vegetation / Clean-fill Pile / Contaminated Soil Stock Piles - 12/21/2013

Site Photography  
Enterprise  
Jacquez LS #3  
Spill Cleanup Report  
Project No. 97057-0612  
December 2013



Picture 7: Excavation Activities - 12/21/2013 (View 1)



Picture 8: Excavation Activities - 12/21/2013 (View 2)

## **APPENDIX B**

### **Analytical Results**



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: Enterprise Project #: 97057-0612  
Sample No.: 1 Date Reported: 12/24/2013  
Sample ID: South Perimeter ~50' Horizon. Date Sampled: 12/19/2013  
Sample Matrix: Soil Date Analyzed: 12/19/2013  
Preservative: Cool Analysis Needed: TPH-418.1  
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

**Total Petroleum Hydrocarbons 192 5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

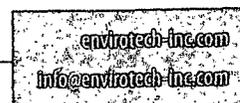
Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

**Tiffany McIntosh**  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

**Toni McKnight, EIT**  
\_\_\_\_\_  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	2	Date Reported:	12/24/2013
Sample ID:	Near Electrical Lines ~5" BGS	Date Sampled:	12/19/2013
Sample Matrix:	Soil	Date Analyzed:	12/19/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

<b>Total Petroleum Hydrocarbons</b>	<b>8,110</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

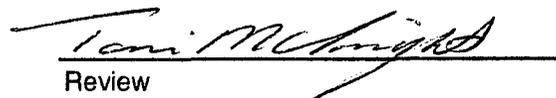
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

Tiffany McIntosh  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

Toni McKnight, EIT  
\_\_\_\_\_  
Printed



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 19-Dec-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	205
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Tiffany McIntosh  
Analyst

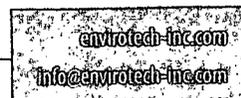
12/24/2013  
Date

Tiffany McIntosh  
Print Name

Toni McKnight  
Review

12/24/2013  
Date

Toni McKnight, EIT  
Print Name





EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client:	Enterprise	Project #:	97057-0612
Sample No.:	1	Date Reported:	12/24/2013
Sample ID:	Grab Sample ~1.5' BGS	Date Sampled:	12/20/2013
Sample Matrix:	Soil	Date Analyzed:	12/20/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

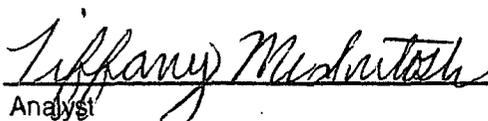
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
<b>Total Petroleum Hydrocarbons</b>	<b>104</b>	<b>5.0</b>

ND = Parameter not detected at the stated detection limit.

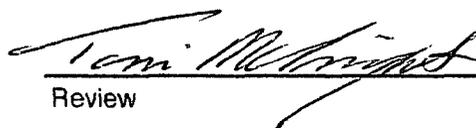
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

**Tiffany McIntosh**  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

**Toni McKnight, EIT**  
\_\_\_\_\_  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	2	Date Reported:	12/24/2013
Sample ID:	North Grab Sample ~2' BGS	Date Sampled:	12/20/2013
Sample Matrix:	Soil	Date Analyzed:	12/20/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>148</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

Tiffany McIntosh  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

Toni McKnight, EIT  
\_\_\_\_\_  
Printed

EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client: Enterprise Project #: 97057-0612  
Sample No.: 3 Date Reported: 12/24/2013  
Sample ID: South Grab Sample ~2' BGS Date Sampled: 12/20/2013  
Sample Matrix: Soil Date Analyzed: 12/20/2013  
Preservative: Cool Analysis Needed: TPH-418.1  
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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**Total Petroleum Hydrocarbons 108 5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Tiffany McIntosh  
Printed

  
Review

Toni McKnight, EIT  
Printed

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: Enterprise Project #: 97057-0612  
Sample No.: 4 Date Reported: 12/24/2013  
Sample ID: Grab Smp./Elec. Lines ~1' BGS Date Sampled: 12/20/2013  
Sample Matrix: Soil Date Analyzed: 12/20/2013  
Preservative: Cool Analysis Needed: TPH-418.1  
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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**Total Petroleum Hydrocarbons 5,440 5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Tiffany McIntosh  
Printed

Review

Toni McKnight, EIT  
Printed

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	5	Date Reported:	12/24/2013
Sample ID:	South Composite	Date Sampled:	12/20/2013
Sample Matrix:	Soil	Date Analyzed:	12/20/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>184</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

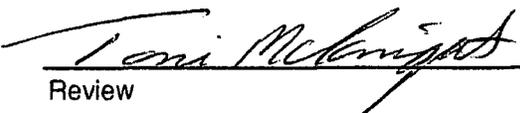
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

Tiffany McIntosh  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

Toni McKnight, EIT  
\_\_\_\_\_  
Printed

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	6	Date Reported:	12/24/2013
Sample ID:	Middle Composite	Date Sampled:	12/20/2013
Sample Matrix:	Soil	Date Analyzed:	12/20/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>252</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

Tiffany McIntosh  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

Toni McKnight, EIT  
\_\_\_\_\_  
Printed



CONTINUOUS CALIBRATION  
 EPA METHOD 418.1  
 TOTAL PETROLEUM  
 HYDROCARBONS

Cal. Date: 20-Dec-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	200
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

*Tiffany McIntosh*  
 Analyst

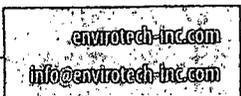
12/24/2013  
 Date

Tiffany McIntosh  
 Print Name

*Toni McKnight*  
 Review

12/24/2013  
 Date

Toni McKnight, EIT  
 Print Name



Client:	Enterprise	Project #:	97057-0612
Sample No.:	1	Date Reported:	12/24/2013
Sample ID:	South Composite	Date Sampled:	12/21/2013
Sample Matrix:	Soil	Date Analyzed:	12/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>24</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

**Tiffany McIntosh**  
Printed

  
Review

**Toni McKnight, EIT**  
Printed

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	2	Date Reported:	12/24/2013
Sample ID:	Near Meter Run Composite	Date Sampled:	12/21/2013
Sample Matrix:	Soil	Date Analyzed:	12/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

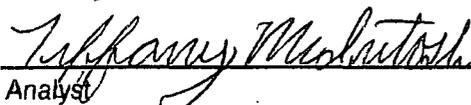
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
<b>Total Petroleum Hydrocarbons</b>	<b>68</b>	<b>5.0</b>

ND = Parameter not detected at the stated detection limit.

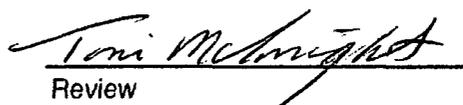
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

**Tiffany McIntosh**  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

**Toni McKnight, EIT**  
\_\_\_\_\_  
Printed

EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client: Enterprise Project #: 97057-0612  
Sample No.: 3 Date Reported: 12/24/2013  
Sample ID: Middle Composite Date Sampled: 12/21/2013  
Sample Matrix: Soil Date Analyzed: 12/21/2013  
Preservative: Cool Analysis Needed: TPH-418.1  
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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**Total Petroleum Hydrocarbons 948 5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
Analyst

Tiffany McIntosh  
Printed

  
Review

Toni McKnight, EIT  
Printed

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Enterprise	Project #:	97057-0612
Sample No.:	4	Date Reported:	12/24/2013
Sample ID:	Middle Composite 2	Date Sampled:	12/21/2013
Sample Matrix:	Soil	Date Analyzed:	12/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>44</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jacquez LS #3**

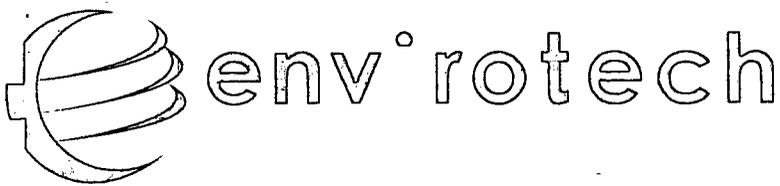
Instrument calibrated to 200 ppm standard and zeroed before each sample.

  
\_\_\_\_\_  
Analyst

Tiffany McIntosh  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

Toni McKnight, EIT  
\_\_\_\_\_  
Printed



**CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Cal. Date: 21-Dec-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	182
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Tiffany McIntosh  
Analyst

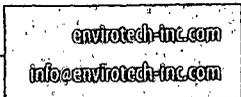
12/24/2013  
Date

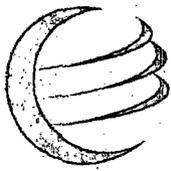
Tiffany McIntosh  
Print Name

Toni McKnight  
Review

12/24/2013  
Date

Toni McKnight, EIT  
Print Name





## Analytical Report

### Report Summary

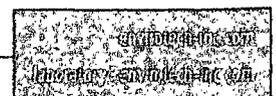
Client: Enterprise Products  
Chain Of Custody Number: 16290  
Samples Received: 12/23/2013 11:18:00AM  
Job Number: 97057-0612  
Work Order: P312107  
Project Name/Location: Jaquez LS #3

Entire Report Reviewed By:

Date: 1/3/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

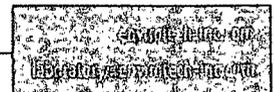


Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Jaquez LS #3 Project Number: 97057-0612 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 16:51
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Composite	P312107-01A	Soil	12/21/13	12/23/13	Glass Jar, 4 oz.
Near Meter Run Composite	P312107-02A	Soil	12/21/13	12/23/13	Glass Jar, 4 oz.
Middle Composite 2	P312107-03A	Soil	12/21/13	12/23/13	Glass Jar, 4 oz.

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# envirotech

Analytical Laboratory

Enterprise Products  
614 Reilly Ave  
Farmington NM, 87401

Project Name: Jaquez LS #3  
Project Number: 97057-0612  
Project Manager: Tiffany McIntosh

Reported:  
03-Jan-14 16:51

**South Composite**  
**P312107-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
<b>Volatile Organics by EPA 8021</b>										
Benzene	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8021B		
Surrogate: Bromochlorobenzene		117 %		80-120	1353009	12/30/13	12/31/13	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		110 %		80-120	1353009	12/30/13	12/31/13	EPA 8021B		
<b>Nonhalogenated Organics by 8015</b>										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1353009	12/30/13	12/31/13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1353008	12/30/13	01/01/14	EPA 8015D		
GRO and DRO Combined Fractions	ND	4.99	mg/kg		[CALC]	12/30/13	01/01/14	EPA 8015D		

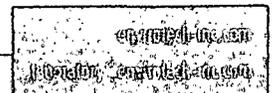
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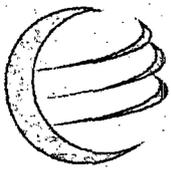
5796 US Highway 64, Farmington, NM 87401

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# envirotech

Analytical Laboratory

Enterprise Products  
614 Reilly Ave  
Farmington NM, 87401

Project Name: Jaquez LS #3  
Project Number: 97057-0612  
Project Manager: Tiffany McIntosh

Reported:  
03-Jan-14 16:51

**Near Meter Run Composite**  
**P312107-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Surrogate: Bromochlorobenzene		119 %		80-120	1353009	12/30/13	01/03/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		121 %		80-120	1353009	12/30/13	01/03/14	EPA 8021B	Surrogate
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1353008	12/30/13	01/01/14	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg		[CALC]	12/30/13	01/03/14	EPA 8015D	

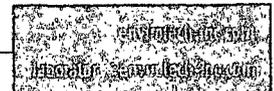
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Ph (970) 259-0615 Fr (800) 362-1879





Enterprise Products  
614 Reilly Ave  
Farmington NM, 87401

Project Name: Jaquez LS #3  
Project Number: 97057-0612  
Project Manager: Tiffany McIntosh

Reported:  
03-Jan-14 16:51

**Middle Composite 2**  
**P312107-03 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**Volatile Organics by EPA 8021**

Benzene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		125 %		80-120	1353009	12/30/13	01/03/14	EPA 8021B	Surr-1
Surrogate: Bromochlorobenzene		123 %		80-120	1353009	12/30/13	01/03/14	EPA 8021B	Surr-1

**Nonhalogenated Organics by 8015**

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1353009	12/30/13	01/03/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1353008	12/30/13	01/01/14	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg		[CALC]	12/30/13	01/03/14	EPA 8015D	

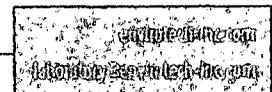
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Enterprise Products  
614 Reilly Ave  
Farmington NM. 87401

Project Name: Jaquez LS #3  
Project Number: 97057-0612  
Project Manager: Tiffany McIntosh

Reported:  
03-Jan-14 16:51

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1353009 - Purge and Trap EPA 5030A**

**Blank (1353009-BLK1)**

Prepared: 30-Dec-13 Analyzed: 31-Dec-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	50.4		ug/L	50.0		101	80-120			
Surrogate: Bromochlorobenzene	53.4		"	50.0		107	80-120			

**Duplicate (1353009-DUP1)**

Source: P312107-01

Prepared: 30-Dec-13 Analyzed: 31-Dec-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	53.0		ug/L	50.0		106	80-120			
Surrogate: Bromochlorobenzene	56.0		"	50.0		112	80-120			

**Matrix Spike (1353009-MS1)**

Source: P312107-01

Prepared: 30-Dec-13 Analyzed: 31-Dec-13

Benzene	49.4		ug/L	50.0	ND	98.9	39-150			
Toluene	51.0		"	50.0	ND	102	46-148			
Ethylbenzene	49.8		"	50.0	ND	99.6	32-160			
p,m-Xylene	104		"	100	ND	104	46-148			
o-Xylene	51.0		"	50.0	ND	102	46-148			
Surrogate: 1,3-Dichlorobenzene	49.1		"	50.0		98.3	80-120			
Surrogate: Bromochlorobenzene	50.3		"	50.0		101	80-120			

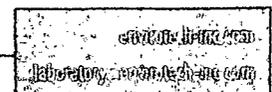
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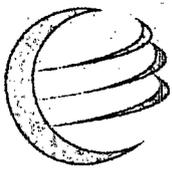
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# envirotech

Analytical Laboratory

Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Jaquez LS #3 Project Number: 97057-0612 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 16:51
---	---	------------------------------

**Nonhalogenated Organics by 8015 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1353008 - DRO Extraction EPA 3550C**

<b>Blank (1353008-BLK1)</b>										Prepared: 30-Dec-13 Analyzed: 01-Jan-14
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1353008-DUP1)</b>										Prepared: 30-Dec-13 Analyzed: 01-Jan-14
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
<b>Matrix Spike (1353008-MS1)</b>										Prepared: 30-Dec-13 Analyzed: 01-Jan-14
Diesel Range Organics (C10-C28)	230		mg/L	250	7.35	88.9	75-125			

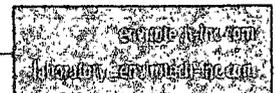
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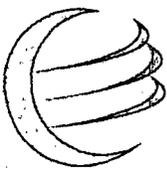
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# envirotech

Analytical Laboratory

Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Jaquez LS #3 Project Number: 97057-0612 Project Manager: Tiffany McIntosh	Reported: 03-Jan-14 16:51
---	---	------------------------------

**Nonhalogenated Organics by 8015 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1353009 - Purge and Trap EPA 5030A**

<b>Blank (1353009-BLK1)</b>				Prepared: 30-Dec-13 Analyzed: 31-Dec-13						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
<b>Duplicate (1353009-DUP1)</b>		Source: P312107-01		Prepared: 30-Dec-13 Analyzed: 31-Dec-13						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
<b>Matrix Spike (1353009-MS1)</b>		Source: P312107-01		Prepared: 30-Dec-13 Analyzed: 31-Dec-13						
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	0.04	95.1	75-125			

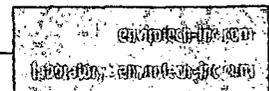
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Enterprise Products  
614 Reilly Ave  
Farmington NM, 87401

Project Name: Jaquez LS #3  
Project Number: 97057-0612  
Project Manager: Tiffany McIntosh

Reported:  
03-Jan-14 16:51

### Notes and Definitions

Surr I Surrogate recovery was above acceptable limits.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

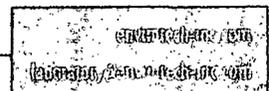
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# CHAIN OF CUSTODY RECORD

16290

Page 10 of 10

Client: <b>Enterprise</b>	Project Name / Location: <b>Jacquez LS #3</b>	ANALYSIS / PARAMETERS													
Email results to: <b>T. McIntosh</b>	Sampler Name: <b>T. McIntosh</b>	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:	Client No.: <b>97057-0612</b>														

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
					HNO <sub>3</sub>	HCl	cool																
South composite	12/21/13	1025	P312107-01	1-4 oz jar			X	X	X												✓	✓	
near meter run composite	1	1152	P312107-02	1			1	1	1												1	1	
middle composite 2	1	1256	P312107-03	1			1	1	1												1	1	

Relinquished by: (Signature) <i>Tiffany McIntosh</i>	Date	Time	Received by: (Signature) <i>[Signature]</i>	Date	Time
	12/21/13	1430		12/23/13	11:58
Relinquished by: (Signature)			Received by: (Signature)		
Sample Matrix					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>					

Sample(s) dropped off after hours to secure drop off area.



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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 3B-23 Block Valve Leak	Facility Type: Gathering Line/Block Valve

Surface Owner: Private	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
A	30	29N	11W					San Juan

Latitude 36.700682 Longitude -108.028410

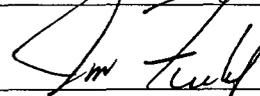
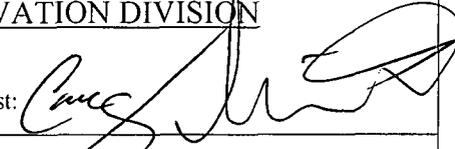
**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: 29 MCF	Volume Recovered: Unknown
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 1/27/2014 @ 6:06 p.m.	Date and Hour of Discovery: 1/27/2014 @ 6:06 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - NMOCD	
By Whom? Thomas Long	Date and Hour: 1/27/2014 7:00 p.m.	RCVD FEB 14 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Lateral 3B-23 Block Valve. The release area was in the vicinity of a residential area. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. An area of approximately 6 feet by 6 feet was impacted by a condensate/water mix.

Describe Area Affected and Cleanup Action Taken.\* An area of approximately 6 feet by 6 feet was impacted by a condensate/water mix. Assessment activities were completed by a third party environmental contractor on 1/28/2014. Remediation activities are scheduled for the week of February 17, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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 law and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 4/28/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-10-14	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

# NCS 1411 185 1861

①

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Gartner LS #6M Well Site	Facility Type: Well Site Meter Run/Meter Tube

Surface Owner: BLM	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
J	27	30N	8W					San Juan

Latitude 36.780385 Longitude -107.660152

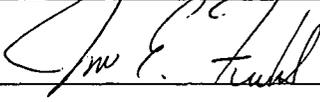
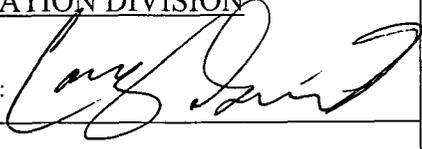
**NATURE OF RELEASE**

Type of Release: Natural gas and possible associated liquids	Volume of Release: 113 MCF	Volume Recovered: Unknown
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/13/2013 @ 4:13 p.m	Date and Hour of Discovery: 12/13/2013 @ 4:13 p.m
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	RCVD FEB 18 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* Pipeline technician reported to supervisor that they had driven onto a location and discovered a coupon valve on the bottom of a dogleg was leaking and blowing gas. Supervisor and other area technicians arrived and LOTO was applied and the broken valve was replaced. An area of staining of approximately 10 feet wide by 10 feet long was observed.

Describe Area Affected and Cleanup Action Taken.\*  
Remediation activities were completed on January 6, 2014. An area of approximately 19 feet wide by 14 feet long was impacted. Approximately 30 cubic yards of hydrocarbon contaminated soil were excavated and transported to a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included with this "final" c-141.

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: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 4/28/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-14-14	Phone: (713)381-6684	

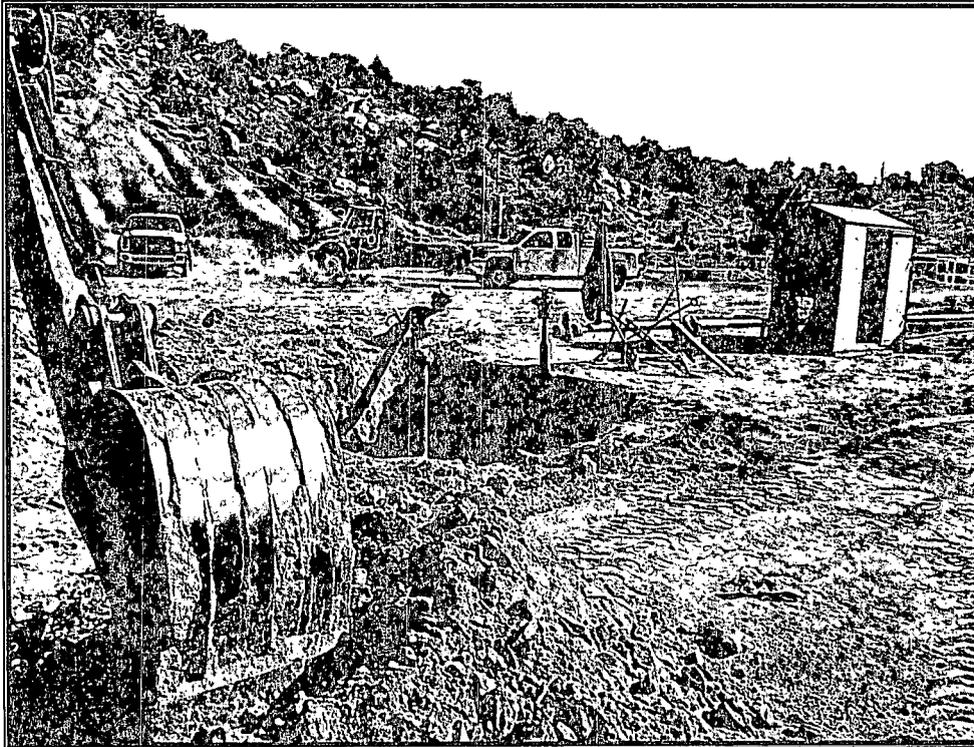
\* Attach Additional Sheets If Necessary

# NCS 1411 1841 8696

40

**Enterprise Products**  
**Gartner LS #6M Pipeline Release**  
**Latitude North 36.780385°, Longitude West -107.660152°**  
**Unit J Section 27 T30N R8W**  
**San Juan County, New Mexico**  
**January 27, 2014**

**RCVD FEB 18 '14**  
**OIL CONS. DIV.**  
**DIST. 3**



**Submitted To:**

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

**Submitted By:**

Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505) 325-7535



## Table of Contents

1.0	Executive Summary .....	1
2.0	Introduction .....	2
3.0	Site Ranking and Land Jurisdiction .....	2
4.0	Summary of Field Activities .....	2
5.0	Conclusions and Recommendations .....	3
6.0	Closure and Limitations .....	4

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Figure 1: Vicinity Map

Figure 2: Site Location Map

Figure 3: Soil Contaminant Concentration Map

### Tables:

Table 1: Release Information

Table 2: Site Ranking

Table 3: Summary of Field Screening Results

Table 4: Summary of Laboratory Analysis

### Appendices:

Appendix A: Field Notes

Appendix B: Site Photography

Appendix C: Soil Disposal Documentation

Appendix D: Laboratory Analytical Reports

## 1.0 Executive Summary

On December 27 and 31, 2013 and January 3 and 6, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Gartner LS #6M pipeline. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION					
Name	Gartner LS #6M Release				
Location	Latitude/Longitude		Section, Township, Range		
		36.780385°	-107.660152°	Unit J	Section 27
Date Reported	December 16, 2013				
	Thomas Long				
Land Owner	Bureau of Land Management (BLM)				
Reported To	BLM, NM Oil Conservation Division (NMOCD)				
Diameter of Pipeline	4 inches				
Source of Release	Faulty Valve				
Release Contents	Natural Gas Liquids/Condensate				
Release Volume: Natural Gas	113 MCF				
Release Volume: Liquids/Condensate	Unknown				
Nearest Waterway	Unnamed Tributary of the Gobernador Wash				
Depth to Groundwater	Assumed to be greater than 100 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	0				
SMA Response Dates	12/27/13, 12/31/13, 1/3/14 and 1/6/14				
Subcontractors	Energy Maintenance Services (EMS)				
Disposal Facility	Industrial Ecosystems Incorporated (IEI), Envirotech Landfarm				
Yd <sup>3</sup> Contaminated Soil Excavated and Disposed	30				
BBLs Contaminated Soil Hydrovacted and Disposed	30				

---

## 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 Gartner LS #6M pipeline. The Gartner LS #6M release was a result of a faulty bleed valve associated with the steel pipeline. The bleed valve froze and remained opened, allowing the release of natural gas and condensate. Approximately 133 thousand cubic feet (MCF) of natural gas was lost and the amount of liquid/condensate lost is unknown. The release was reported on December 16, 2013. The pipeline is located in Unit J, Section 27, Township 30 North, Range 8 West, 36.780385°, -107.660152°, 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 west of an unnamed tributary wash of Gobernador Wash on land owned by the Bureau of Land Management with an elevation of approximately 6,350 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 100 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 were located within 1,000 feet of the site. Additionally, no wells or points of diversion were located within a 1 mile radius of the site. The physical location of this release is within the jurisdiction of the Bureau of Land Management. This release location has been assigned a NMOCD ranking of 0 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 5000 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

## 4.0 Summary of Field Activities

Upon discovery of the release Enterprise personnel replaced the leaking bleed valve. On December 27 and 31, 2013, and January 3 and 6, 2014, SMA mobilized to the release site to oversee excavation activities and to further delineate the release area through field screening using a calibrated photoionization detector (PID). During the excavation, soil samples were collected for field screening to determine the extent of the release. Under the supervision of SMA, EMS potholed the underground pipeline with a hydrovac and

---

excavated the hydrocarbon impacted soil using a rubber-tired backhoe. Table 3 summarizes the field screening results. Field notes are included in Appendix A.

The final excavation measured approximately 19 feet long by 14 feet wide with excavation depths ranging from approximately 2.5 feet to 7.0 feet below ground surface. Field screening of the excavated material determined that the soils removed were not suitable for use as a backfill material. The impacted soil was transported for disposal to Industrial Ecosystems Inc. Landfarm (30 Yd<sup>3</sup> and 5 BBLs) on Crouch Mesa, and Envirotech Landfarm (25 BBLs), on Hill Top. Both disposal facilities are near Bloomfield, New Mexico. Approximately 30 Yd<sup>3</sup> and 30 BBLs were disposed of. Certificates of waste are included in Appendix C.

All laboratory soil samples 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 3 illustrates the extent of the excavation and laboratory samples locations with laboratory report results.

## 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 0: 10 ppm benzene, 50 ppm total BTEX, and 5000 ppm TPH. Laboratory analysis of the excavation detected benzene, total BTEX, and TPH (GRO/DRO) at concentrations below the NMOCD Guidelines. The impacted soil was hauled off site for disposal. 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, verification of release stabilization, 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 Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

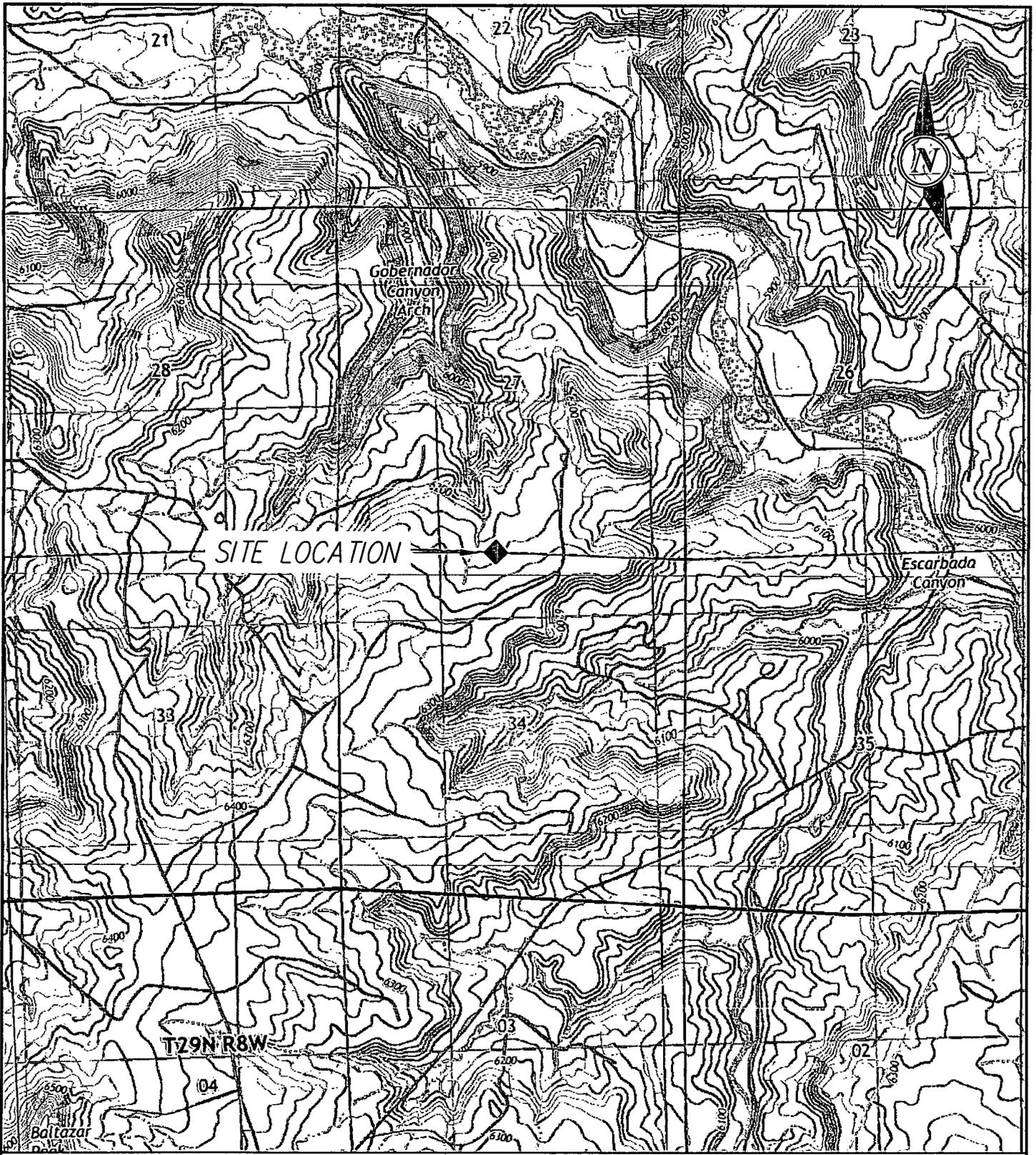


Steve Moskal  
Project Scientist



Reid S. Allan, PG  
Principal Scientist

## FIGURES



THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS FULLY REPRODUCED.



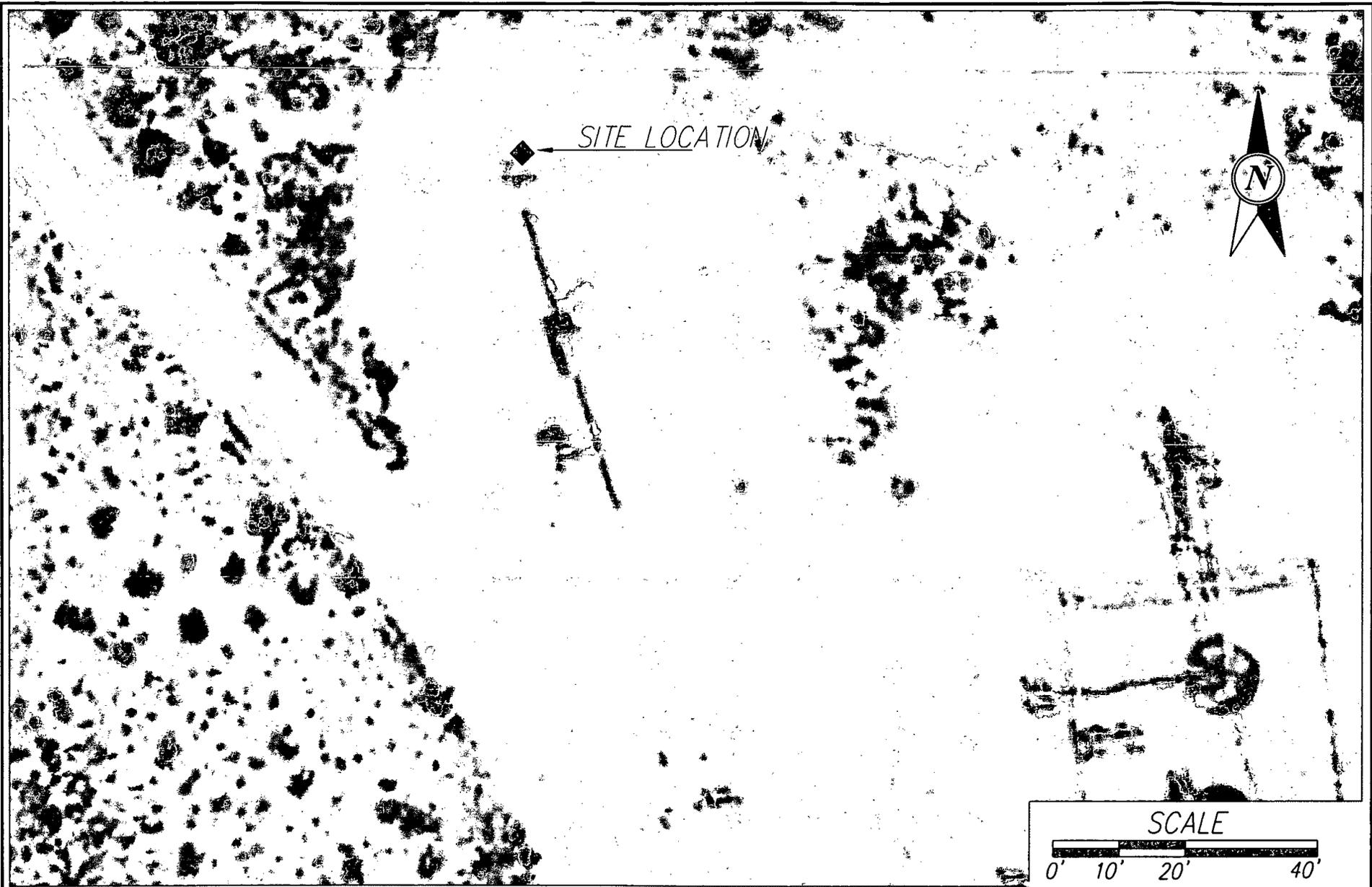
**SOUDER, MILLER & ASSOCIATES**  
 401 W. BROADWAY  
 FARMINGTON, NM 87401  
 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045  
 www.soudermiller.com  
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ENTERPRISE FARMINGTON, NEW MEXICO

**VICINITY MAP**  
**GARTNER LS #6M**  
**SECTION 27, T30N, R8W**

Designed SM	Drawn DJB	Checked RSA
Date: 1/3/2014		
Scale: Horiz: 1"=2000'		
Vert: N/A		
Project No: 5122104		
Sheet: 1		

SAN JUAN COUNTY, NEW MEXICO



**SOUDER, MILLER & ASSOCIATES**  
 401 W. BROADWAY  
 FARMINGTON, NM 87401

Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045  
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Serving the Southwest & Rocky Mountains  
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ENTERPRISE

FARMINGTON, NEW MEXICO

**SITE LOCATION MAP**  
**GARTNER LS #6M**  
**SECTION 27, T30N, R8W**

SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 1/3/2014		
Scale: Horz: 1"=20' Vert: N/A		
Project No: 5122104		
Sheet: 2		

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONTRACTS UNLESS IT IS STAMPED, SIGNED AND DATED



## **TABLES**

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20		Verified using Google earth and Topo maps; Field verified.	Groundwater is assumed to be greater than 100 feet below ground surface.
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		Verified using Google Earth and Topo maps; Field verified.	Release is located greater than 1,000 feet west of a tributary wash of Gobernador Wash.
200'-1000' = 10			
>1000' = 0	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	New Mexico State Engineer's Office online water well data base	No recorded water wells located with 1,000 feet or within a 1 mile radius.
<b>Total Site Ranking</b>	<b>0</b>		
<b>Soil Remedation Standards</b>	<b>0 to 9</b>	<b>10 to 19</b>	<b>&gt;19</b>
<b>Benzene</b>	<b>10 PPM</b>	<b>10 PPM</b>	<b>10 PPM</b>
<b>BTEX</b>	<b>50 PPM</b>	<b>50 PPM</b>	<b>50 PPM</b>
<b>TPH</b>	<b>5000 PPM</b>	<b>1000 PPM</b>	<b>100 PPM</b>



Enterprise Products  
 Table 3: Summary of Excavation  
 Field Screening Results (PPM)

Gartner LS #6M  
 Pipeline Release  
 1/27/2014

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field screening Reference	Sample Depth (Feet BGS)	PID Reading	Lab Sample Collected Y/N
12/27/2013	14:35	SC-1 (20' N of Release)	0	2.1	N
12/27/2013	14:35	SC-2 (10' N of Release)	0	171.2	N
12/27/2013	14:36	SC-3 (20' S of Release)	0	14	N
12/27/2013	14:36	SC-4 (10' S of Release)	0	164.3	N
12/27/2013	14:37	SC-5 ( 20' W of Release)	0	2.2	N
12/27/2013	14:37	SC-6 (10' W of Release)	0	741.1	N
12/27/2013	14:40	SC-7 (15' N of Release)	0	673.5	N
12/27/2013	14:41	SC-8 (15' S of Release)	0	26.7	N
12/27/2013	14:42	SC-9 (15' W of Release)	0	31.2	N
12/27/2013	14:46	SC-10 (At Release Point)	0	2278	N
12/31/2013	9:45	SC-11 (10' W of Release)	0.75	1147	N
12/31/2013	9:46	SC-12 (8' S of Release)	1.0	171.2	N
12/31/2013	9:47	SC-13 (8' N of Release)	1.0	669.2	N
12/31/2013	9:48	SC-14 (At Release Point)	3.0	1832	N
12/31/2013	10:34	SC-15 (12' N of Release)	1.5	1349	N
12/31/2013	10:35	SC-16 (5' W of Release)	1.5	182.6	N
12/31/2013	10:36	SC-17 (5' S of Release)	1.5	76.9	N
12/31/2013	14:12	SC-18 (5' N of Release)	2.0	1671	N
12/31/2013	14:13	SC-19 (5' S of Release)	3.5	1720	N
12/31/2013	14:14	SC-20 (5' W of Release)	2.0	540.8	N
12/31/2013	14:16	SC-21 (At Release Point)	5.0	1587	N
1/3/2014	14:28	SC-22 (W Base)	3.5	254.8	N
1/3/2014	14:29	SC-23 (SW Corner - Base)	3.5	452.1	N
1/3/2014	14:30	SC-24 (W Wall)	3.5	309.2	N
1/3/2014	14:55	SC-25 (W Wall 5' from Release)	3.5	57.4	N
1/3/2014	15:21	SC-26 (W Base)	4.0	126.2	N
1/3/2014	15:22	SC-27 (NE Corner)	2.0	371.6	N
1/6/2014	10:57	SC-28 (E Wall)	2.5	158.6	N
1/6/2014	10:58	SC-29 (N Wall)	2.5	337.2	N
1/6/2014	10:59	SC-30 (2' E of Release)	5.0	2098	N
1/6/2014	12:18	SC-31 (W Wall)	7.0	38.2	Y
1/6/2014	12:19	SC-32 (E Wall)	7.0	11.8	Y
1/6/2014	12:20	SC-33 (Base)	7.0	33.5	Y
1/6/2014	12:21	SC-34 (S Wall)	7.0	152.4	Y
1/6/2014	12:22	SC-35 (N Wall)	7.0	106.3	Y



LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 0		5000 ppm		10 ppm	50 ppm
1/6/2014	12:18	SC-31 W. Wall	7	<4.8	<10	<0.048	<0.097
1/6/2014	12:19	SC-32 E. Wall	7	<4.7	<9.9	<0.047	<0.095
1/6/2014	12:20	SC-33 Base	7	<4.9	<10	<0.049	<0.099
1/6/2014	12:21	SC-34 S. Wall	7	<4.8	<9.9	<0.048	<0.097
1/6/2014	12:22	SC-35 N. Wall	7	<4.7	<9.9	<0.047	<0.094



**APPENDIX A**

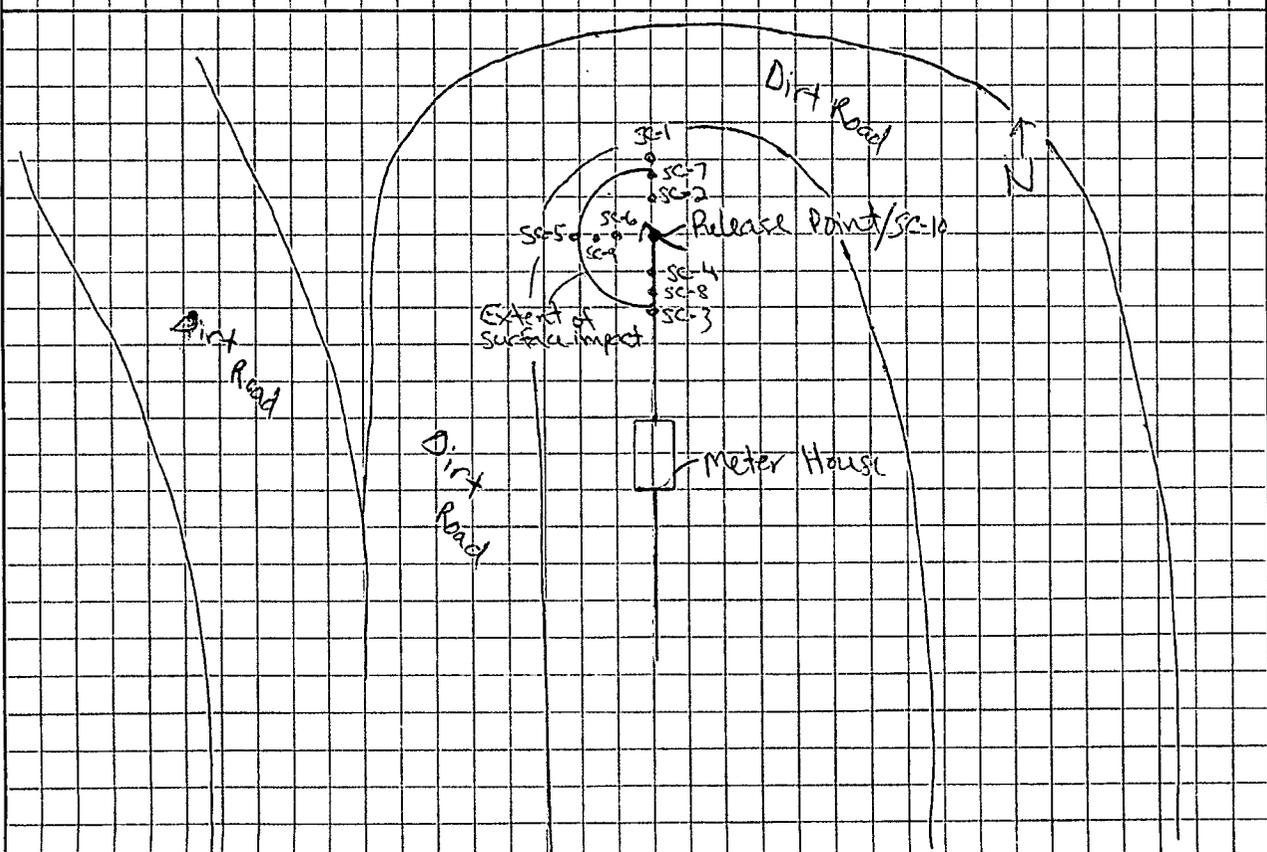
**FIELD NOTES**

- on site @ 1430

- Begin field sample collection & screening; frozen soil ~ 0.25 bags

<u>Location</u>	<u>PID</u>	<u>Collection Time</u>	<u>Screen Time</u>
SC-1 20' N @ surf	2.1	1435	1448
SC-2 20' " " "	171.2	1435	1448
SC-3 20' S @ surf	14.0	1436	1449
SC-4 20' " " "	164.3	1436	1450
SC-5 20' W @ surf	2.2	1437	1450
SC-6 20' " " "	74.1	1437	1451
SC-7 15' N @ surf	673.5	1440	1452
SC-8 15' S @ surf	26.7	1441	1455
SC-9 15' W @ surf	31.2	1442	1459
SC-10 Release Point @ surf	227.8	1446	1458

- off site @ 1530



- on site @ 0935, EMS already excavated in vicinity of dog leg / release point to about 3' bgs. Also scraped surface impacts to about 1' bgs (about 10' radius).

- Complete SMA Tailgate Safety sheet. Talk w/ Liz Greenhorn (EPCO) about getting Vacitruck to excavate around dog leg.

- Collect sample for field screening in area excavated. Col. PID

Location	PID	Depth	Time collected	Time screened
SC-11 10'W	1147	0.75	0945	1056
SC-12 8'S	1712	1.0	0946	1007
SC-13 8'N	669.2	1.0	0947	1007
SC-14 (RP.)	1832	3.0	0948	1058

- Remove approx 0.5' from accessible areas (away from underground piping)

Location	PID	Depth	Time collected	Time screened
SC-15 (12'W)	1249	1.5	1034	1055
SC-16 (5'W.)	182.6	1.5	1035	1054
SC-17 (5'S.)	76.9	1.5	1036	1054

- Hydraulic on site @ ≈ 11:50, begin line excavation.

- Hydraulic to expose pipeline connection @ dog leg (approx 5.0' bgs)

SC-18 5'N	1671	2.0'	1412	1426
SC-19 5'S	1720	3.5'	1413	1427
SC-20 5'W	540.8	2.0'	1414	1428
SC-21 RP @	1587	5.0' (bedrock)?	1416	1429

- Update Tom Long, off site ≈ 1445

SUBJECT Gardner LS #60M

PROJECT

PAGE 2 of 2

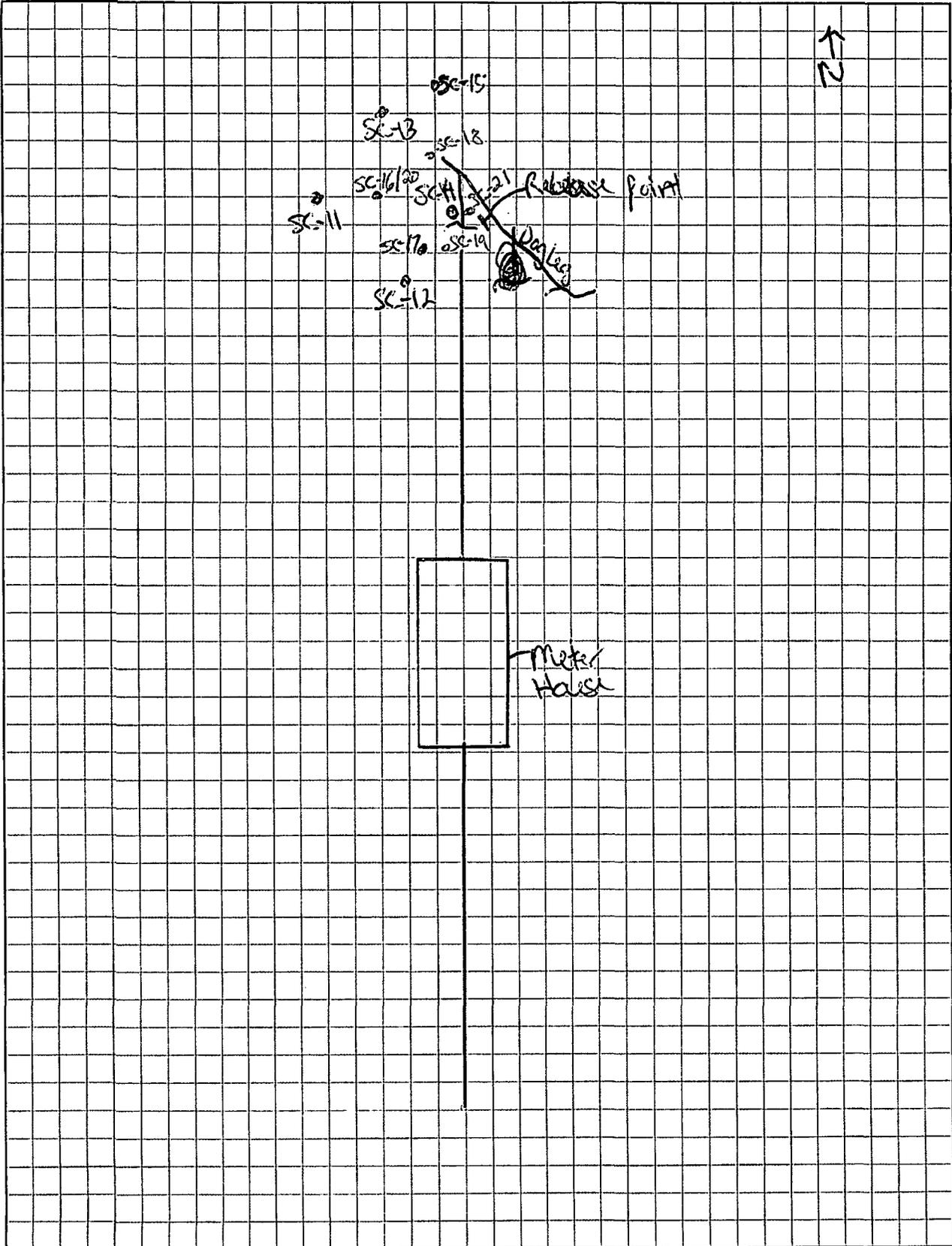
CLIENT EPCO

DATE 12/31/13

BY SJM

CHECKED

BY



SUBJECT Gartner LS #6m

PROJECT

PAGE

CLIENT EPCO

DATE 1/3/14

BY Jam

CHECKED

BY

- S. Moskal on site @ 0900, nobody on site
- EMS Dump Truck & vac truck (trailer mounted) on site 0915
- conduct SMA tailgate safety
- Bump test PID: 102.1
- EPCO on site @ 1200, perform Safety meeting / safe work permit.
- BP on site questioning notification, isolated well head & meter run
- Begin Hydrovac @ 1315
- Excavate Trench along ~~to~~ suspected western edge of excavation collected samples

Location	PID	Depth	Time collected	Time screened
SC-22 W Base	254.8	3.5'	1428	1444
SC-23 SW corner	452.1	3.5'	1429	1445
SC-24 W wall (4')	309.2	3.5'	1430	1446
SC-25 W wall (5' away)	57.4	3.5'	1455	1502
SC-26 W Base @ 4.0'	126.2	4.0'	1521	1533
SC-27 NE corner	371.6	2.0'	1522	1534

- Vac Truck contents disposed of @ Envirotech, Dump Truck disposed @ IFI (2nd load)

- Off site ~ 1550

- Sampled on site @ 10:30, EMS already began excavation
- Conduct SMA Targeted Safety sign on EPCO safe work permit
- Calibrate PID: 100.1 ppm

Collected samples for field screening:

Location	PID	Depth	Time collected	Time screened
<del>SC-28 (E. wall @ 25')</del>	158.6	2.5'	1057	1114
<del>SC-29 (N. wall)</del>	337.2	2.5'	1058	1115
<del>SC-30 E. of FRP (2E)</del>	20.98	5.0'	1059	1116
<del>SC-31 (w. wall)</del>	38.2	7.0	1218	1232
<del>SC-32 (E. wall)</del>	1.8	7.0	1219	1233
<del>SC-33 (Base)</del>	533.5	7.0	1220	1234
<del>SC-34 (S. wall)</del>	152.4	7.0	1221	1235
<del>SC-35 (N. wall)</del>	106.3	7.0	1222	1237

\* - Indicates Lab Sample location

- Collect lab samples

off site @ 1315



**APPENDIX B**  
**SITE PHOTOGRAPHY**

**Site Photographs**  
**Enterprise Products Gartner LS #6M Pipeline Release**

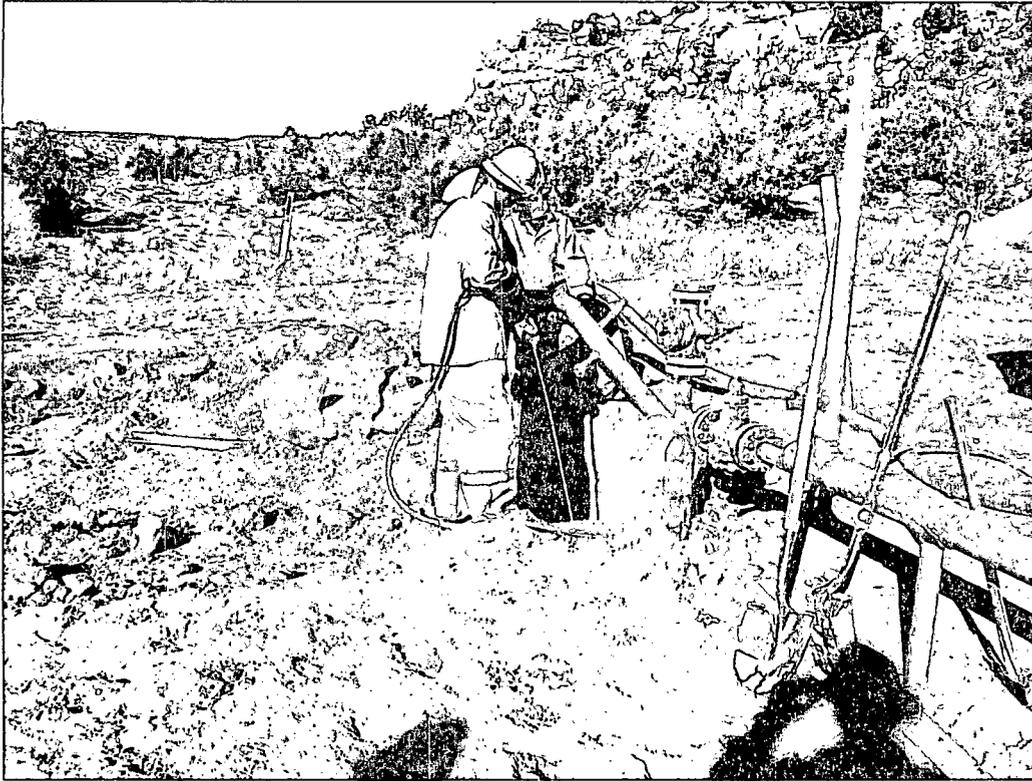


Photo 1: Hydrovac activities prior to excavation to determine the location of the underground pipeline.



Photo 2: Temporary fencing placed around the excavation to prevent unauthorized entrance at end of day.

**Site Photographs**  
**Enterprise Products Gartner LS #6M Pipeline Release**



Photo 3: The location of the faulty 1" coupon valve (center) that was replaced during repairs.

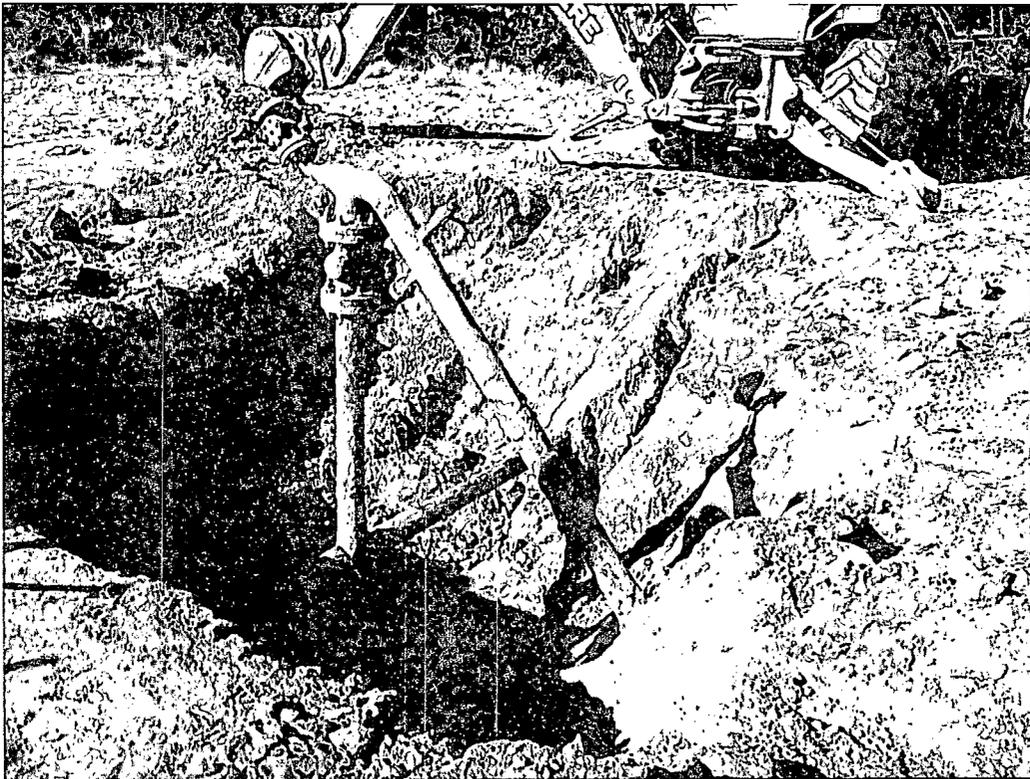


Photo 4: The extent of the excavation prior to backfilling activities.

**APPENDIX C**  
**SOIL DISPOSAL DOCUMENTATION**

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

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	W/O #498961
2. Originating Site: Gartner LS #6M Well Site	
3. Location of Material (Street Address, City, State or ULSTR): Unit J Sec 27 T 30 N R 8 W, San Juan County, NM; 36.780385, -107.660152	1-6-13 20cy 1-3-14 10cy 12-31-13 56bbls
4. Source and Description of Waste: Source: Coupon Valve on a Dogleg Description: Natural Gas Liquids (Condensate and Water) released from a Coupon Valve on a Dogleg Estimated Volume <u>20</u> (yd) / bbls Known Volume (to be entered by the operator at the end of the haul) <u>10</u> (yd) / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
I, Thomas Long <i>Thomas Long</i> , 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 regulatory determination, the above described waste is: (Check the appropriate classification)	
<input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load	
<input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste handling 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)	
<input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	
I, Thomas Long <i>Thomas Long</i> , representative for Enterprise Products Operating authorize to complete Generator Signature the required testing/sign the Generator Waste Testing Certification.	
I, <i>[Signature]</i> , representative for <u>IEL, Inc.</u> do hereby certify that 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: To Be Determined	



#### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. \* Permit #: NM 01-0010B

Address of Facility: #49 CR 2150 Aztec, New Mexico

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: L. Macpherson  
SIGNATURE: [Signature]  
Surface Waste Management Facility Authorized Agent

TITLE: Land Farm Administrator DATE: 12-31-13  
TELEPHONE NO.: 505-632-1782

CC-212  
Ph-9

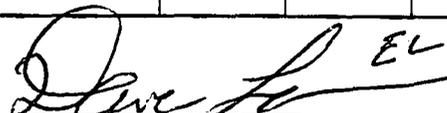


# Bill of Lading

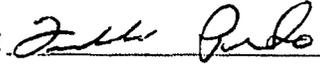
MANIFEST # 45537

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

DATE 1-3-14 JOB # 97057-0614

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	ENTERPRISE GARTNER LS #64	LF II	HYDRO VAC SOIL	0-12	-	20	EMS	300- 0003	16:16	Freddie Pinto	
2	"	"	WASH OUT	0-12	-	5	EMS	300- 0003	16:10	Freddie Pinto	
						25					
RESULTS:			LANDFARM EMPLOYEE:					NOTES:			
< 299	CHLORIDE TEST	1						Certification of above receipt & placement			
	PAINT FILTER TEST	1									

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. EMS NAME Freddie Pinto SIGNATURE 

COMPANY CONTACT Mike Sanchez PHONE (505) 793-4426 DATE 01-03-14

Signatures required prior to distribution of the legal document.

**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**



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)

January 14, 2014

Steve Moskal

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

RE: Gartner LS #6M

OrderNo.: 1401159

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/7/2014 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. 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 qualifiers 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,

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

Analytical Report

Lab Order 1401159

Date Reported: 1/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-31 (W. Wall @7')

Project: Gartner LS #6M

Collection Date: 1/6/2014 12:18:00 PM

Lab ID: 1401159-001

Matrix: SOIL

Received Date: 1/7/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/10/2014 4:42:50 PM	11128
Surr: DNOP	97.0	66-131		%REC	1	1/10/2014 4:42:50 PM	11128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2014 12:55:38 PM	11111
Surr: BFB	103	74.5-129		%REC	1	1/9/2014 12:55:38 PM	11111
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/9/2014 12:55:38 PM	11111
Toluene	ND	0.048		mg/Kg	1	1/9/2014 12:55:38 PM	11111
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2014 12:55:38 PM	11111
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2014 12:55:38 PM	11111
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	1/9/2014 12:55:38 PM	11111

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

<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
	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: SC-32 (E. Wall @7')

Project: Gartner LS #6M

Collection Date: 1/6/2014 12:19:00 PM

Lab ID: 1401159-002

Matrix: SOIL

Received Date: 1/7/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/10/2014 5:48:55 PM	11128
Surr: DNOP	112	66-131		%REC	1	1/10/2014 5:48:55 PM	11128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2014 2:21:29 PM	11111
Surr: BFB	102	74.5-129		%REC	1	1/9/2014 2:21:29 PM	11111
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	1/9/2014 2:21:29 PM	11111
Toluene	ND	0.047		mg/Kg	1	1/9/2014 2:21:29 PM	11111
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2014 2:21:29 PM	11111
Xylenes, Total	ND	0.095		mg/Kg	1	1/9/2014 2:21:29 PM	11111
Surr: 4-Bromofluorobenzene	116	80-120		%REC	1	1/9/2014 2:21:29 PM	11111

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: SC-33 (Base @7')

Project: Gartner LS #6M

Collection Date: 1/6/2014 12:20:00 PM

Lab ID: 1401159-003

Matrix: SOIL

Received Date: 1/7/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/10/2014 6:11:06 PM	11128
Surr: DNOP	115	66-131		%REC	1	1/10/2014 6:11:06 PM	11128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2014 3:47:12 PM	11111
Surr: BFB	102	74.5-129		%REC	1	1/9/2014 3:47:12 PM	11111
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/9/2014 3:47:12 PM	11111
Toluene	ND	0.049		mg/Kg	1	1/9/2014 3:47:12 PM	11111
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2014 3:47:12 PM	11111
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2014 3:47:12 PM	11111
Surr: 4-Bromofluorobenzene	117	80-120		%REC	1	1/9/2014 3:47:12 PM	11111

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

<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
	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 **1401159**Date Reported: **1/14/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-34 (S. Wall @7')**Project:** Gartner LS #6M**Collection Date:** 1/6/2014 12:21:00 PM**Lab ID:** 1401159-004**Matrix:** SOIL**Received Date:** 1/7/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/10/2014 6:33:31 PM	11128
Surr: DNOP	108	66-131		%REC	1	1/10/2014 6:33:31 PM	11128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2014 4:15:47 PM	11111
Surr: BFB	109	74.5-129		%REC	1	1/9/2014 4:15:47 PM	11111
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	1/9/2014 4:15:47 PM	11111
Toluene	ND	0.048		mg/Kg	1	1/9/2014 4:15:47 PM	11111
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2014 4:15:47 PM	11111
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2014 4:15:47 PM	11111
Surr: 4-Bromofluorobenzene	116	80-120		%REC	1	1/9/2014 4:15:47 PM	11111

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

<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
	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: SC-35 (N. Wall @7')

Project: Gartner LS #6M

Collection Date: 1/6/2014 12:22:00 PM

Lab ID: 1401159-005

Matrix: SOIL

Received Date: 1/7/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/10/2014 6:55:40 PM	11128
Surr: DNOP	99.5	66-131		%REC	1	1/10/2014 6:55:40 PM	11128
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/9/2014 4:44:23 PM	11111
Surr: BFB	103	74.5-129		%REC	1	1/9/2014 4:44:23 PM	11111
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	1/9/2014 4:44:23 PM	11111
Toluene	ND	0.047		mg/Kg	1	1/9/2014 4:44:23 PM	11111
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2014 4:44:23 PM	11111
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2014 4:44:23 PM	11111
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	1/9/2014 4:44:23 PM	11111

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#: 1401159

14-Jan-14

**Client:** Souder, Miller and Associates

**Project:** Gartner LS #6M

Sample ID	<b>LCS-11128</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11128</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/8/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461418</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	115	60.8	145			
Surr: DNOP	5.7		5.000		113	66	131			

Sample ID	<b>LCS-11148</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11148</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/9/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461419</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	66	131			

Sample ID	<b>MB-11128</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11128</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/8/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461420</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	8.9		10.00		89.2	66	131			

Sample ID	<b>MB-11148</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11148</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/9/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461421</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		117	66	131			

Sample ID	<b>1401159-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>SC-31 (W. Wall @7')</b>	Batch ID:	<b>11128</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/8/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461453</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.10	8.267	103	47.4	148			
Surr: DNOP	6.0		5.010		120	66	131			

Sample ID	<b>1401159-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D: Diesel Range Organics</b>					
Client ID:	<b>SC-31 (W. Wall @7')</b>	Batch ID:	<b>11128</b>	RunNo:	<b>16001</b>					
Prep Date:	<b>1/8/2014</b>	Analysis Date:	<b>1/10/2014</b>	SeqNo:	<b>461455</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.9	49.70	8.267	99.8	47.4	148	3.51	22.7	
Surr: DNOP	6.1		4.970		123	66	131	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#: 1401159

14-Jan-14

**Client:** Souder, Miller and Associates  
**Project:** Gartner LS #6M

Sample ID	MB-11111	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	11111	RunNo:	16003					
Prep Date:	1/7/2014	Analysis Date:	1/9/2014	SeqNo:	461005	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		101	74.5	129			

Sample ID	LCS-11111	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	11111	RunNo:	16003					
Prep Date:	1/7/2014	Analysis Date:	1/9/2014	SeqNo:	461006	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	74.5	126			
Surr: BFB	1100		1000		110	74.5	129			

Sample ID	1401159-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-32 (E. Wall @7')	Batch ID:	11111	RunNo:	16003					
Prep Date:	1/7/2014	Analysis Date:	1/9/2014	SeqNo:	461009	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	30	4.7	23.58	0	126	69.5	145			
Surr: BFB	1100		943.4		113	74.5	129			

Sample ID	1401159-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-32 (E. Wall @7')	Batch ID:	11111	RunNo:	16003					
Prep Date:	1/7/2014	Analysis Date:	1/9/2014	SeqNo:	461010	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	29	4.7	23.58	0	122	69.5	145	3.77	20	
Surr: BFB	1100		943.4		113	74.5	129	0	0	

Sample ID	MB-11111 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R16003	RunNo:	16003					
Prep Date:		Analysis Date:	1/9/2014	SeqNo:	461014	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	1000		1000		101	74.5	129			
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Sample ID	LCS-11111 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R16003	RunNo:	16003					
Prep Date:		Analysis Date:	1/9/2014	SeqNo:	461015	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	1100		1000		110	74.5	129			
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**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#: 1401159

14-Jan-14

**Client:** Souder, Miller and Associates

**Project:** Gartner LS #6M

Sample ID	<b>MB-11111</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11111</b>	RunNo:	<b>16003</b>					
Prep Date:	<b>1/7/2014</b>	Analysis Date:	<b>1/9/2014</b>	SeqNo:	<b>461032</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	1.1		1.000		114	80	120			

Sample ID	<b>LCS-11111</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11111</b>	RunNo:	<b>16003</b>					
Prep Date:	<b>1/7/2014</b>	Analysis Date:	<b>1/9/2014</b>	SeqNo:	<b>461033</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	102	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

Sample ID	<b>1401159-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-31 (W. Wall @7')</b>	Batch ID:	<b>11111</b>	RunNo:	<b>16003</b>					
Prep Date:	<b>1/7/2014</b>	Analysis Date:	<b>1/9/2014</b>	SeqNo:	<b>461035</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.049	0.9794	0	94.9	67.4	135			
Toluene	0.87	0.049	0.9794	0.008351	88.2	72.6	135			
Ethylbenzene	1.0	0.049	0.9794	0	102	69.4	143			
Xylenes, Total	3.0	0.098	2.938	0.02527	100	70.8	144			
Surr: 4-Bromofluorobenzene	1.2		0.9794		120	80	120			S

Sample ID	<b>1401159-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-31 (W. Wall @7')</b>	Batch ID:	<b>11111</b>	RunNo:	<b>16003</b>					
Prep Date:	<b>1/7/2014</b>	Analysis Date:	<b>1/9/2014</b>	SeqNo:	<b>461036</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.049	0.9814	0	95.3	67.4	135	0.570	20	
Toluene	0.88	0.049	0.9814	0.008351	88.8	72.6	135	0.879	20	
Ethylbenzene	1.0	0.049	0.9814	0	102	69.4	143	0.344	20	
Xylenes, Total	3.0	0.098	2.944	0.02527	100	70.8	144	0.132	20	
Surr: 4-Bromofluorobenzene	1.2		0.9814		120	80	120	0	0	S

**Qualifiers:**

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- 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

**Sample Log-In Check List**

Client Name: SMA-FARM

Work Order Number: 1401159

RcptNo: 1

Received by/date: AG 01/07/14

Logged By: Michelle Garcia 1/7/2014 10:15:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 1/7/2014 10:56:24 AM *Michelle Garcia*

Reviewed By: IO 01/07/13

**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? FedEx

**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	1.8	Good	Yes			

# Chain-of-Custody Record

Client: Souder Miller & Associates

Standard  Rush

Mailing Address: 2101 San Juan Blvd  
Farmington NM 87401

Project Name: 5122104 BG 22

Phone #: 505 325 7535

Project #: Gartner LS #com

email or Fax#: steve.moskal@soudermiller.com

Project Manager: Steve Moskal

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

Sampler: Steve Moskal

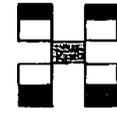
Accreditation  
 NELAP  Other \_\_\_\_\_

On Ice:  Yes  No

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

Sample Temperature: 8

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX	MTBE	TPH	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 <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)	
1/6/14	1218	soil	SC-31 (W. wall @ 1')	4oz X 1	Cool	-001	X		X													
	1219		SC-32 (E. wall @ 7')			-002	X		X													
	1220		SC-33 (Base @ 7')			-003	X		X													
	1221		SC-34 (S. wall @ 7')			-004	X		X													
	1222		SC-35 (N. wall @ 7')			-005	X		X													



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date: 1/6/14 Time: 1500  
Relinquished by: [Signature]

Received by: [Signature] Date: 01/07/14 Time: 1015

Remarks: Please bill directly to SMA and copy shawn@chubback@soudermiller.com

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.

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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Maxie Federal #J1 Well Tie	Facility Type: Natural Gas Gathering Line
Surface Owner: BLM	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
D	24	29N	12W					San Juan

Latitude 36.714864 Longitude -107.044925

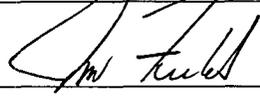
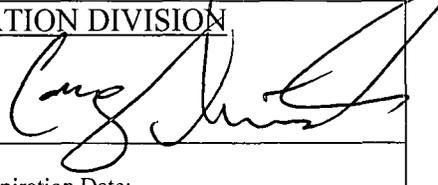
**NATURE OF RELEASE**

Type of Release: potable water, natural gas liquids	Volume of Release: <b>To Be Determined</b>	Volume Recovered: <b>To Be Determined</b>
Source of Release: Rupture of the pipeline during hydrostatic testing	Date and Hour of Occurrence: <b>2/11/2014 @ 4:00 p.m.</b>	Date and Hour of Discovery: <b>2/11/2014 @ 4:00 p.m.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NRC CASE # 1073660, NMOCD – Jonathan Kelly, BLM – Sherrie Langdon	
By Whom? Thomas Long	Date and Hour <b>2/11/2014 @ ~ 1:30 p.m.</b>	<b>KUVD FEB 28 '14</b>
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\* Approximately 65 to 100 barrels of potable water ran down the dry wash approximately 1000 feet  
Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Maxey Federal #J1 well tie during hydrostatic testing. An estimated 65 to 100 barrels of potable water used during the hydrostatic testing was release into a wash. An area of approximately 1000 feet of wash was affected. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. The repairs/remediation activities began the week of February 17, 2014.

Describe Area Affected and Cleanup Action Taken.\* An area of approximately 1000 feet of wash was affected. Repair and Remediation activities were completed began the week of February 17, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: : jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-21-2014</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

#NCS 141183 6 125



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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 2A-3	Facility Type: Natural Gas Gathering Line
Surface Owner: BLM	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
B	13	25N	7W					San Juan

Latitude 36.40413 Longitude -107.52189

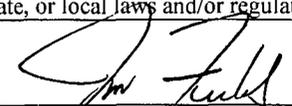
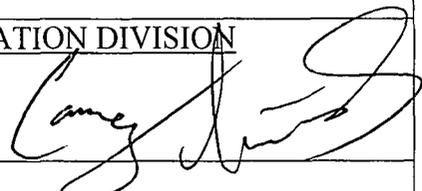
**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: <b>To Be Determined</b>	Volume Recovered: <b>To Be Determined</b>
Source of Release: Equipment Damage	Date and Hour of Occurrence: <b>2/10/2014 @ 4:00 p.m.</b>	Date and Hour of Discovery: <b>2/10/2014 @ 4:00 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	<b>RCVD FEB 28 '14</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Lateral 2A-3. Natural Gas Gathering Line. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. An area of approximately 8 feet by 4 feet was impacted by a condensate/water mix.

Describe Area Affected and Cleanup Action Taken.\* An area of approximately 8 feet by 4 feet was impacted by a condensate/water mix. Repair and Remediation activities were completed during the week of February 17, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	
Date: <u>2-21-2014</u> Phone: (713)381-6684	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

Incident # NCS 141 183 8781

①

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 2C-55	Facility Type: Natural Gas Gathering Line
Surface Owner: BLM	Mineral Owner: BLM
API No.	

**LOCATION OF RELEASE**

Unit Letter <b>O</b>	Section <b>19</b>	Township <b>25N</b>	Range <b>7W</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>San Juan</b>
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Latitude 36.381886 Longitude -107.612565

**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural Gas Liquids (Produced Water)	Volume of Release: <b>65.13 MCF</b>	Volume Recovered: <b>To Be Determined</b>
Source of Release: Internal Corrosion	Date and Hour of Occurrence: <b>2/12/2014 @ 6:30 p.m.</b>	Date and Hour of Discovery: <b>2/12/2014 @ 6:30 p.m.</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly - NMOCD, Shari Ketchum - BLM	
By Whom? Thomas Long	Date and Hour <b>2/14/2014 @ 12:30 p.m.</b>	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Produced water and natural gas liquids were released and entered a small ephemeral wash. The liquids appeared to flow approximately 45 feet down the wash.	

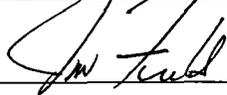
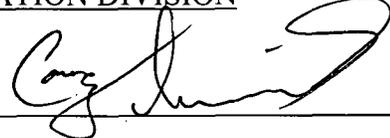
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Lateral 2C-55 Natural Gas Gathering Line. The line was, taken out of service and LOTO (lock out tag out) was applied. An area of approximately 10 feet by 45 feet was impacted by produced water.

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

Describe Area Affected and Cleanup Action Taken.\* Produced water and natural gas liquids were released from the pipeline, flowing across the dirt road and entered a small ephemeral wash. The liquids appeared to flow approximately 40 feet down the wash. Repairs and Remediation work began the week of February 17, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: <u>4/28/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>2-25-2014</u> Phone: (713)381-6684		

\* Attach Additional Sheets If Necessary

Incident # NCS 141 183 3436

①

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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Trunk 10A	Facility Type: Natural Gas Gathering Line
Surface Owner: NAPI/Navajo Nation	Mineral Owner: BLM
API No.	

**LOCATION OF RELEASE**

Unit Letter SE/SW	Section 27	Township 26N	Range 12W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.455283 Longitude -108.101775

**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: <b>Unknown</b>	Volume Recovered: <b>To Be Determined</b>
Source of Release: Internal Corrosion of the Pipeline	Date and Hour of Occurrence: 2/19/2014 @ 12:30 p.m.	Date and Hour of Discovery: 2/19/2014 @ 12:30 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD - Jonathan Kelly, NNEPA - Steve Austin, Greg Yazzie and Mike Freeman - NAPI	
By Whom? Thomas Long	Date and Hour 2/19/2014 @ ~1:30 p.m. by phone call	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

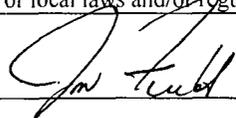
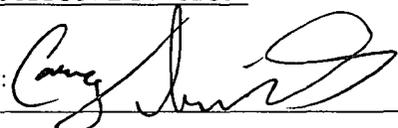
If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.\* A release was discovered on the Trunk 10A. It is anticipated that the release was a result of internal corrosion. An area of approximately 12 feet by 25 feet wash affected. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. The repairs/remediation activities began on February 26, 2014.

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\* Repair and Remediation activities began on February 26, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 4/24/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-14	Phone: (713) 381-6684	

\* Attach Additional Sheets If Necessary

Incident # NCS 141145 3775

C

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Howell M#1A Well Site	Facility Type: Well Site Meter Run/Meter Tube
Surface Owner: BLM	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
N	31	30N	8W					San Juan

Latitude 36.7623 Longitude -107.7178

**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids	Volume of Release: 62 MCF	Volume Recovered: Unknown
Source of Release: Natural gas meter tube/meter run	Date and Hour of Occurrence: 12/13/2013 @ 10:00 a.m.	Date and Hour of Discovery: 12/13/2013 @ 10:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Thomas Long	Date and Hour 12/16/2013 7:16 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

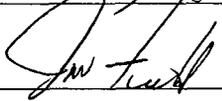
Describe Cause of Problem and Remedial Action Taken.\* A production company lease operator discovered gas leaking from a meter tube flange. The lease operator closed the upstream and downstream valves to stop the leak. The leak was due to a failed orifice flange gasket. LOTO was applied. An area of approximately 1,288 square feet was impacted.

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\*

An area of approximately 1,288 square feet was impacted. Remediation activities were completed on December 18, 2013. Approximately 120 cubic yards of impacted soil were disposed of at a NMOCD approved land farm facility. A third party environmental contractor corrective action report is included in this "final" c-141.

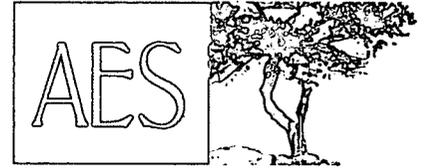
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 4/24/2014	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-2014	Phone: (713) 381-6684	

\* Attach Additional Sheets If Necessary

Incident # ~~1433050624~~  
NCS 1433050624

215



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

February 6, 2014

Thomas Long  
Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, New Mexico 87401

Via electronic mail with delivery confirmation receipt to:  
[tjlong@eprod.com](mailto:tjlong@eprod.com)

**RE: Release Assessment Report  
Howell M #1A December 2013 Meter Run Release  
SE¼ SW¼, Section 31, T30N, R8W  
San Juan County, New Mexico**

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Dear Mr. Long:

On December 18, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of approximately 62,000 cubic feet (Mcf) of natural gas and an estimated volume of less than five barrels (bbls) pipeline liquids from the Enterprise Field Services, LLC (Enterprise) Howell M #1A meter run (Meter ID #89789). The release was discovered on December 13, 2013, and resulted from a failed orifice flange gasket.

---

## 1.0 Site Information

### 1.1 Location

Location – SE¼ SW¼, Section 31, T30N, R8W, San Juan County, New Mexico

Latitude/Longitude – N36.76245 and W107.71817, respectively

Surface Owner – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the assessment. The release was given a ranking score of 0 based on the following factors:

- **Depth to Groundwater:** Depth to groundwater is greater than 100 feet below ground surface (bgs) based on a cathodic well report dated May 1991. (0 points)

- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The release is located approximately 1,275 feet to the southeast of an unnamed ephemeral wash draining to the San Juan River. (0 points)

The ranking score of 0 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 5,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

### *1.3 Assessment and Mitigation*

On December 18, 2013, Enterprise contractors completed an excavation of petroleum hydrocarbon impacted soils in the release area around the meter house at the location. AES provided field screening for excavation guidance and prior to backfilling the excavation, collected a total of four confirmation soil samples for field screening and laboratory analysis from the walls and base of the final excavation. Historical contamination was observed in the base of the north portion of the final excavation. The final excavation measured approximately 46 feet by 28 feet by 1.5 to 3.5 feet deep and terminated on sandstone and shale. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the Envirotech Landfarm for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. The Envirotech Bills of Lading and a photograph log are included in the Appendix.

---

## 2.0 Soil Sampling

A total of four composite soil samples (SC-1 through SC-3 and Historical Composite) were collected from the walls and the base of the final excavation during the assessment. Composite samples SC-1 through SC-3 were field screened for volatile organic compounds (VOCs), and all four composite samples were submitted for laboratory analysis.

### *2.1 Field Screening*

#### **2.1.1 Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

## 2.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH (GRO/DRO) per USEPA Method 8015D.

## 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 120 ppm in SC-2 to 193 ppm in SC-1. Results are included in Table 1 and on Figure 3.

Table 1. Soil Field Screening VOC Results  
 Howell M #1A Meter Run Release Assessment, December 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>
<b>NMOCD Action Level*</b>			<b>100</b>
SC-1	12/18/13	2 to 2.5	<b>193</b>
SC-2	12/18/13	1 to 1.5	<b>120</b>
SC-3	12/18/13	1 to 3.5	<b>152</b>
Historical Composite	12/18/13	3.5	NA

NA – not analyzed

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analytical results showed that benzene concentrations were below laboratory detection limits for all samples collected. Total BTEX concentrations ranged from below laboratory detection limits in SC-1 and SC-2 up to 16 mg/kg in the Historical Composite. TPH concentrations ranged from below the laboratory detection limit in SC-1 and SC-2 up to 880 mg/kg in the Historical Composite. Laboratory analytical results are included in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
 Howell M #1A Meter Run Release Assessment, December 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH – GRO (mg/kg)	TPH – DRO (mg/kg)
<i>NMOCD Action Level*</i>			10	50	5,000	
SC-1	12/18/13	2 to 2.5	<0.046	<0.23	<4.6	<10
SC-2	12/18/13	1 to 1.5	<0.048	<0.24	<4.8	<10
SC-3	12/18/13	1 to 3.5	<0.047	0.41	<4.7	25
Historical Composite	12/18/13	3.5	<0.23	16	350	530

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

### 3.0 Conclusions and Recommendations

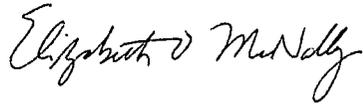
Action levels for releases determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 0. Field screening of SC-1 through SC-3 showed VOC concentrations above the NMOCD action level of 100 ppm, with the highest VOC reading recorded in SC-1 (192 ppm). However, laboratory analytical results reported benzene, total BTEX, and TPH below the applicable NMOCD action levels in all the samples (SC-1 through SC-3 and the Historical Composite). Based on field screening and laboratory results of the final excavation extents for petroleum contaminated soils (associated with the release), as well as historical contamination observed in the base of the northern portion of the excavation, benzene, total BTEX, and TPH concentrations are below the applicable NMOCD action levels. No further work is recommended for the Howell M #1A meter run release.

If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 564-2281.

Sincerely,



Heather Woods, P.G.  
 Project Manager

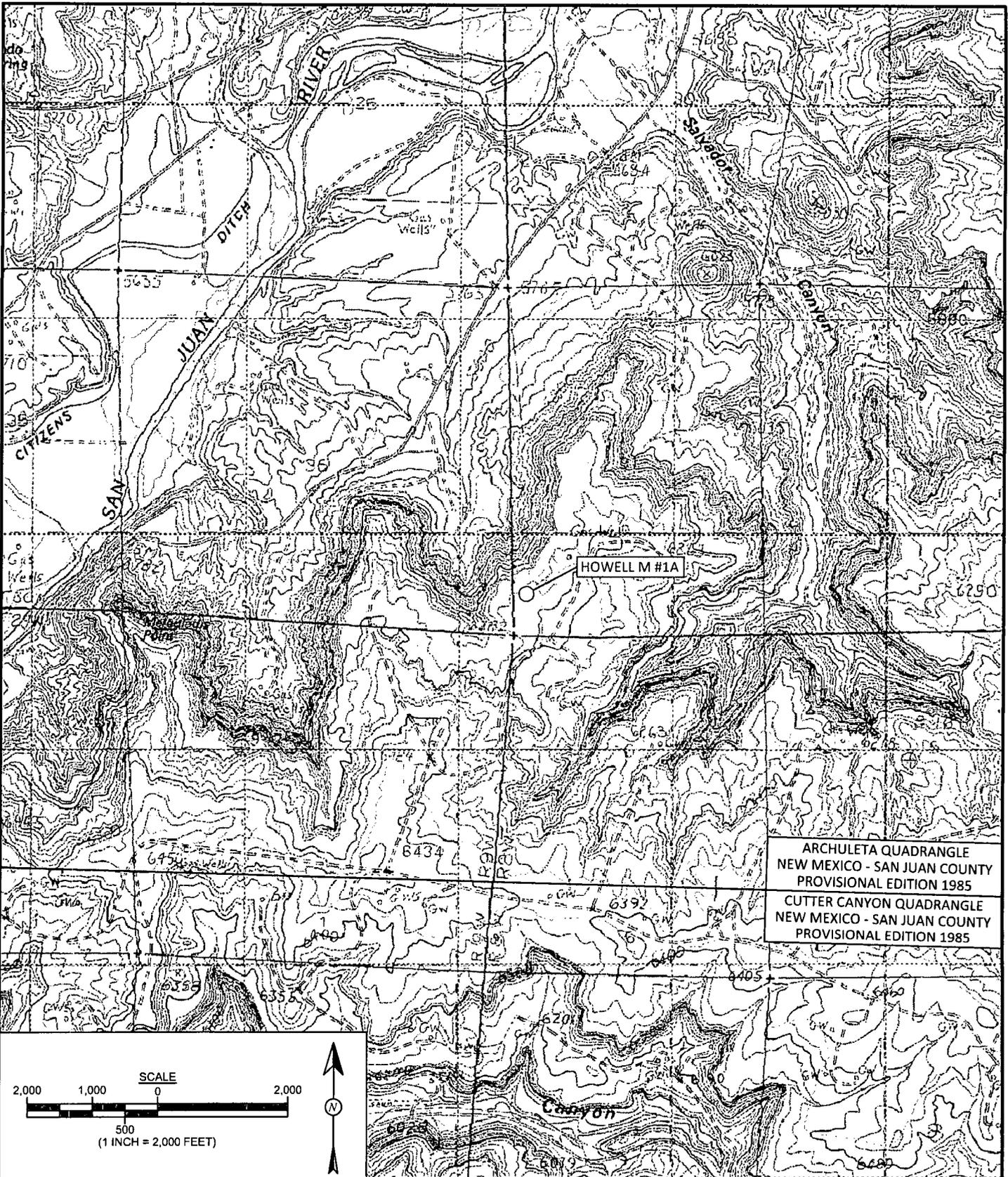


Elizabeth McNally, P.E.

Attachments:

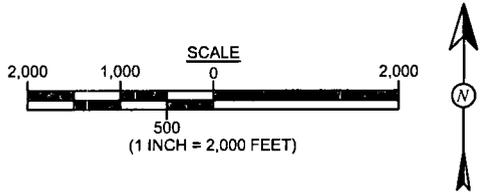
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, December 2013
- Bills of Lading (Envirotech 45444, 45445, 45457, and 45459)
- Photograph Log
- Laboratory Analytical Reports (Hall 1312A40)

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\Enterprise\Howell M #1A\Enterprise Howell M #1A Release Report 020614.docx



ARCHULETA QUADRANGLE  
 NEW MEXICO - SAN JUAN COUNTY  
 PROVISIONAL EDITION 1985

CUTTER CANYON QUADRANGLE  
 NEW MEXICO - SAN JUAN COUNTY  
 PROVISIONAL EDITION 1985



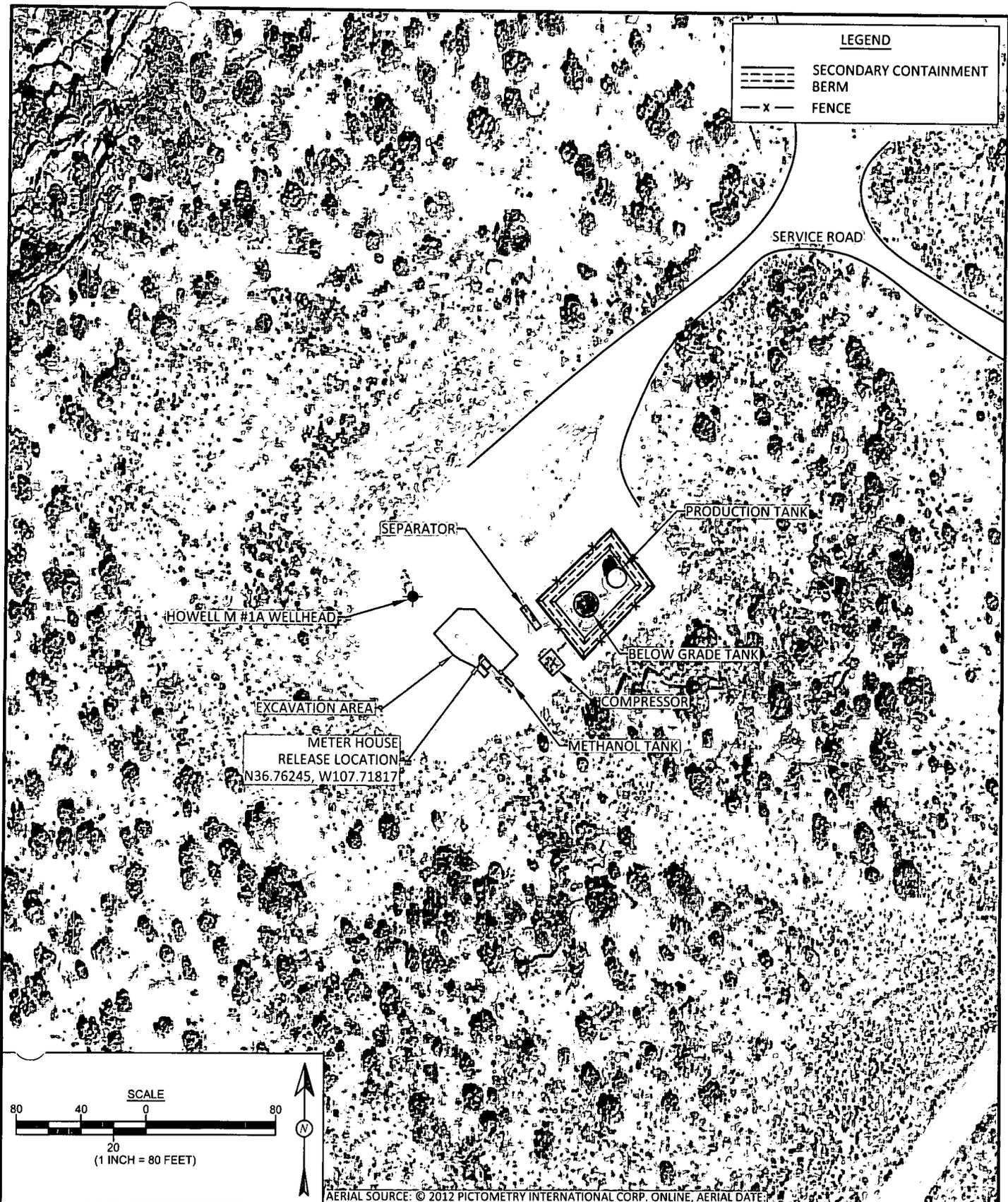
Animas Environmental Services, LLC

<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> January 21, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 21, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> January 29, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 29, 2014

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 ENTERPRISE FIELD SERVICES, LLC  
 HOWELL M #1A DECEMBER 2013 RELEASE  
 SE¼ SW¼, SECTION 31, T30N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.76245, W107.71817

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE:



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 21, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 29, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> January 29, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 29, 2014

## FIGURE 2

**AERIAL SITE MAP  
DECEMBER 2013**  
ENTERPRISE FIELD SERVICES, LLC  
HOWELL M #1A DECEMBER 2013 RELEASE  
SE¼ SW¼, SECTION 31, T30N, R8W  
SAN JUAN COUNTY, NEW MEXICO  
N36.76245, W107.71817

**FIGURE 3**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS  
DECEMBER 2013**  
 ENTERPRISE FIELD SERVICES, LLC  
 HOWELL M #1A DECEMBER 2013 RELEASE  
 SE¼ SW¼, SECTION 31, T30N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.76245, W107.71817



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 21, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 29, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> January 29, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 29, 2014

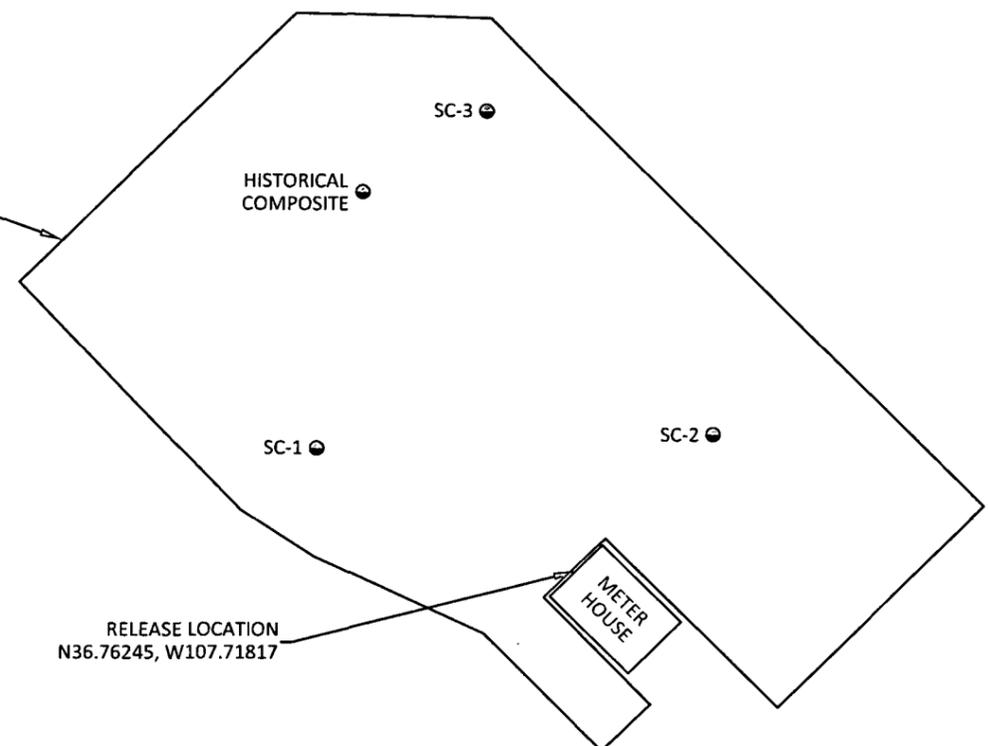
**LEGEND**

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM
- x - FENCE

HOWELL M #1A WELLHEAD

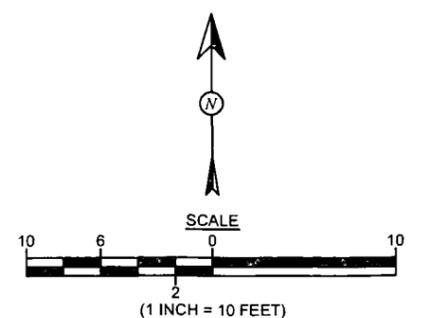
EXCAVATION AREA  
46 FT x 28 FT x 1.5 TO 3.5 DEEP

RELEASE LOCATION  
N36.76245, W107.71817



Field Screening and Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>10</b>	<b>50</b>	<b>5,000</b>	
SC-1	12/18/13	2 to 2.5	193	<0.046	<0.23	<4.6	<10
SC-2	12/18/13	1 to 1.5	120	<0.048	<0.24	<4.8	<10
SC-3	12/18/13	1 to 3.5	152	<0.047	0.41	<4.7	25
HISTORICAL COMPOSITE	12/18/13	3.5	NA	<0.23	16	350	530

ALL SAMPLES ARE COMPOSITE SAMPLES.  
 ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.  
 NA- NOT ANALYZED





# Bill of Lading

MANIFEST # 45444  
 DATE 12-18-13 JOB # 97057-0613

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 Howell M#11A	LFII-5	Cont Soil	K-27	12	-	Doug Foutz	834	1108	Randy Foutz
2	"	"	"	K-27	12	-	"	835	1108	James Benally
3	"	"	"	K-27	12	-	"	834	1342	Randy Foutz
4	"	"	"	K-27	12	-	"	835	1350	Randy Foutz
5	"	"	"	K-27	12	-	"	835	15:55	Randy Foutz
6	"	"	"	K-27	12	-	"	835	16:05	Randy Foutz
					72					
RESULTS:		LANDFARM EMPLOYEE: <u>Gary Robinson</u>				NOTES:				
< 287	CHLORIDE TEST	2	Certification of above receipt & placement			RDC				
	PAINT FILTER TEST	2								

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. Doug Foutz NAME Randy Foutz SIGNATURE Randy Foutz  
 COMPANY CONTACT DFC PHONE 505 325-4922 DATE 12-18-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45445  
 DATE 12-18-13 JOB # 97057-0613

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	E.tech	Enterprise Howell	Clean Fill	—	12	—	Doug Foutz	834	1108	Randy Foutz
2	E.tech	M#1A	SOIL	—	12	—	" "	835	1108	Jamie Denny
3	"	"	"	—	12	—	" "	834	1342	Randy Foutz
4	"	"	"	—	12	—	" "	835	1350	Jamie Denny
					48					
RESULTS:		LANDFARM EMPLOYEE: <u>Cary Rolinson</u> <sup>EL</sup>	NOTES:							
<input checked="" type="checkbox"/>	CHLORIDE TEST									
<input checked="" type="checkbox"/>	PAINT FILTER TEST	Certification of above receipt & placement								

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. Doug Foutz Const NAME Randy Foutz SIGNATURE Randy Foutz  
 COMPANY CONTACT \_\_\_\_\_ PHONE 505 325-4922 DATE 12-18-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45457

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

DATE 12-19-13 JOB # 97057-0613

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	E-tech	Enterprise Howell M3A	clean Fill	-	10	-	Douse Foutz	835	8:40	[Signature]
2	"	"	"	-	10	-	"	835	8:40	[Signature]
3	"	"	"	-	10	-	"	835	1051	[Signature]
4	"	"	"	-	10	-	"	935	1055	[Signature]
5	"	"	"	-	10	-	"	935	1310	[Signature]
6	"	"	"	-	10	-	"	835	1315	[Signature]
					60					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
/	CHLORIDE TEST	/	[Signature]		[Signature]					
/	PAINT FILTER TEST	/	Certification of above receipt & 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. Doug Foutz Const NAME Tim Rodriguez SIGNATURE [Signature]  
 COMPANY CONTACT Randy Foutz PHONE 505 330 2560 DATE 12-19-13

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45459

DATE 12-19-13 JOB # 97057-0613

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 Howell MIA	LF#-5	CON + SOIL	L-27	10	-	Doug Foutz	835	1051	<i>James Beally</i>
2	" "	" "	" "	L-27	10	-	Doug Foutz	935	1053	<i>James Beally</i>
3	" "	" "	" "	L-27	10	-	" "	1051	1310	<i>James Beally</i>
4	" "	" "	" "	L-27	10	-	" "	1055	1318	<i>James Beally</i>
					40			1		
RESULTS:		LANDFARM EMPLOYEE:		EL		NOTES:				
<287	CHLORIDE TEST	2	<i>James Beally</i>							
	PAINT FILTER TEST	2	Certification of above receipt & placement			PDC				

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. Doug Foutz

NAME James Beally

SIGNATURE *James Beally*

COMPANY CONTACT \_\_\_\_\_

PHONE \_\_\_\_\_

DATE 12-19-13

Signatures required prior to distribution of the legal document.

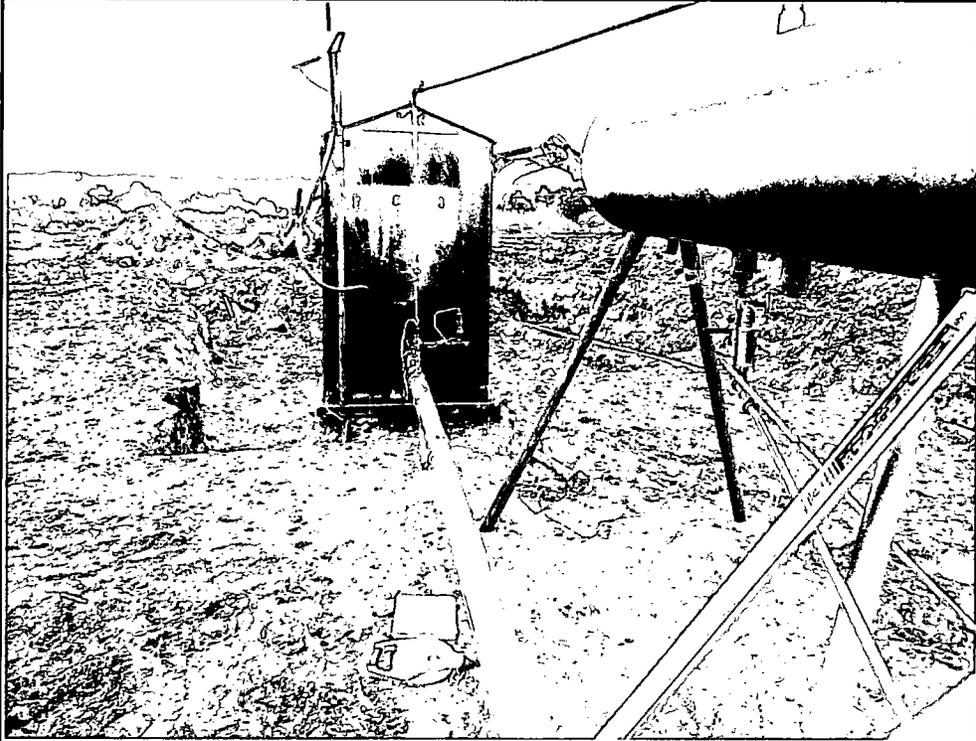
Photo #1	
Client: Enterprise Field Services, LLC	
Project: Howell M #1A	
Taken by: Heather Woods	
Date: December 18, 2013	
AES Project No. 131229	Description: View of excavation area looking northwest.

Photo #2	
Client: Enterprise Field Services, LLC	
Project: Howell M #1A	
Taken by: Heather Woods	
Date: December 18, 2013	
AES Project No. 131229	Description: View of excavation area looking northeast.

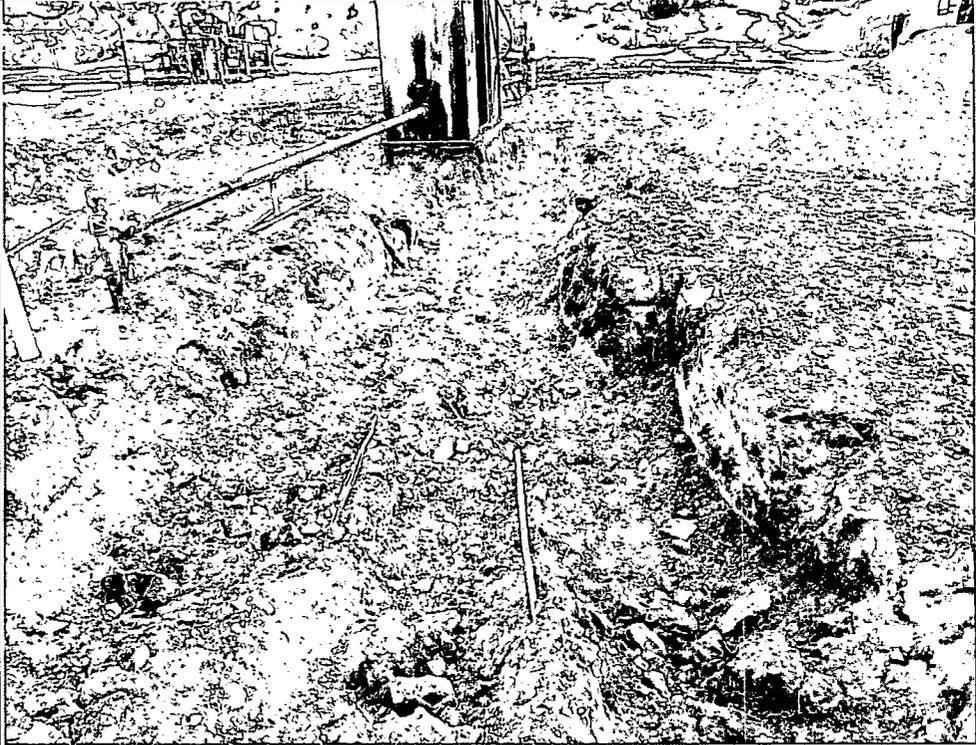
Photo #3	
Client: Enterprise Field Services, LLC	
Project: Howell M #1A	
Taken by: Heather Woods	
Date: December 18, 2013	
AES Project No. 131229	Description: View of excavation area looking southeast.

Photo #4	
Client: Enterprise Field Services, LLC	
Project: Howell M #1A	
Taken by: Heather Woods	
Date: December 18, 2013	
AES Project No. 131229	Description: View of excavation area looking southeast.

Photo #5	
Client: Enterprise Field Services, LLC	
Project: Howell M #1A	
Taken by: Heather Woods	
Date: December 18, 2013	
AES Project No. 131229	Description: View of excavation area looking south. Historical contamination was observed in the base of this deeper area.



*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)*

January 03, 2014

Heather Woods  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 716-2787  
FAX

RE: Enterprise Howell M #1A

OrderNo.: 1312A40

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 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](http://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 qualifiers 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,

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: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise Howell M #1A

Collection Date: 12/18/2013 11:37:00 AM

Lab ID: 1312A40-001

Matrix: SOIL

Received Date: 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/24/2013 8:13:13 PM	10940
Surr: DNOP	100	66-131		%REC	1	12/24/2013 8:13:13 PM	10940
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/24/2013 4:01:07 PM	10957
Surr: BFB	87.0	74.5-129		%REC	1	12/24/2013 4:01:07 PM	10957
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.046		mg/Kg	1	12/24/2013 4:01:07 PM	10957
Toluene	ND	0.046		mg/Kg	1	12/24/2013 4:01:07 PM	10957
Ethylbenzene	ND	0.046		mg/Kg	1	12/24/2013 4:01:07 PM	10957
Xylenes, Total	ND	0.092		mg/Kg	1	12/24/2013 4:01:07 PM	10957
Surr: 4-Bromofluorobenzene	93.4	80-120		%REC	1	12/24/2013 4:01:07 PM	10957

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

<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
	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:** Animas Environmental Services

**Client Sample ID:** SC-2

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

**Collection Date:** 12/18/2013 2:56:00 PM

**Lab ID:** 1312A40-002

**Matrix:** SOIL

**Received Date:** 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/24/2013 8:35:14 PM	10940
Surr: DNOP	98.3	66-131		%REC	1	12/24/2013 8:35:14 PM	10940
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/24/2013 4:29:42 PM	10957
Surr: BFB	86.5	74.5-129		%REC	1	12/24/2013 4:29:42 PM	10957
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/24/2013 4:29:42 PM	10957
Toluene	ND	0.048		mg/Kg	1	12/24/2013 4:29:42 PM	10957
Ethylbenzene	ND	0.048		mg/Kg	1	12/24/2013 4:29:42 PM	10957
Xylenes, Total	ND	0.095		mg/Kg	1	12/24/2013 4:29:42 PM	10957
Surr: 4-Bromofluorobenzene	94.9	80-120		%REC	1	12/24/2013 4:29:42 PM	10957

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

<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
	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:** Animas Environmental Services  
**Project:** Enterprise Howell M #1A  
**Lab ID:** 1312A40-003

**Client Sample ID:** SC-3  
**Collection Date:** 12/18/2013 3:55:00 PM  
**Received Date:** 12/19/2013 9:45:00 AM

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	25	10		mg/Kg	1	12/24/2013 8:57:07 PM	10940
Surr: DNOP	94.5	66-131		%REC	1	12/24/2013 8:57:07 PM	10940
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/24/2013 4:58:25 PM	10957
Surr: BFB	88.9	74.5-129		%REC	1	12/24/2013 4:58:25 PM	10957
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	12/24/2013 4:58:25 PM	10957
Toluene	0.12	0.047		mg/Kg	1	12/24/2013 4:58:25 PM	10957
Ethylbenzene	ND	0.047		mg/Kg	1	12/24/2013 4:58:25 PM	10957
Xylenes, Total	0.29	0.094		mg/Kg	1	12/24/2013 4:58:25 PM	10957
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	12/24/2013 4:58:25 PM	10957

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

<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
	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:** Animas Environmental Services

**Client Sample ID:** Historical Composite

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

**Collection Date:** 12/18/2013 4:00:00 PM

**Lab ID:** 1312A40-004

**Matrix:** SOIL

**Received Date:** 12/19/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	530	10		mg/Kg	1	12/24/2013 9:19:05 PM	10940
Surr: DNOP	102	66-131		%REC	1	12/24/2013 9:19:05 PM	10940
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	350	46		mg/Kg	10	12/24/2013 5:55:41 PM	10957
Surr: BFB	226	74.5-129	S	%REC	10	12/24/2013 5:55:41 PM	10957
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.23		mg/Kg	10	12/24/2013 5:55:41 PM	10957
Toluene	ND	0.46		mg/Kg	10	12/24/2013 5:55:41 PM	10957
Ethylbenzene	ND	0.46		mg/Kg	10	12/24/2013 5:55:41 PM	10957
Xylenes, Total	16	0.93		mg/Kg	10	12/24/2013 5:55:41 PM	10957
Surr: 4-Bromofluorobenzene	103	80-120		%REC	10	12/24/2013 5:55:41 PM	10957

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

<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
	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#: 1312A40  
 03-Jan-14

**Client:** Animas Environmental Services  
**Project:** Enterprise Howell M #1A

Sample ID <b>MB-10939</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>10939</b>		RunNo: <b>15679</b>							
Prep Date: <b>12/23/2013</b>	Analysis Date: <b>12/24/2013</b>		SeqNo: <b>452732</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	66	131			

Sample ID <b>MB-10940</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>10940</b>		RunNo: <b>15679</b>							
Prep Date: <b>12/23/2013</b>	Analysis Date: <b>12/24/2013</b>		SeqNo: <b>452733</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	12		10.00		117	66	131			

Sample ID <b>LCS-10939</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>10939</b>		RunNo: <b>15679</b>							
Prep Date: <b>12/23/2013</b>	Analysis Date: <b>12/24/2013</b>		SeqNo: <b>452735</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.3		5.000		126	66	131			

Sample ID <b>LCS-10940</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>10940</b>		RunNo: <b>15679</b>							
Prep Date: <b>12/23/2013</b>	Analysis Date: <b>12/24/2013</b>		SeqNo: <b>452736</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	70	10	50.00	0	140	60.8	145			
Surr: DNOP	6.5		5.000		131	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#: 1312A40

03-Jan-14

Client: Animas Environmental Services

Project: Enterprise Howell M #1A

Sample ID	<b>MB-10957</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>10957</b>	RunNo:	<b>15727</b>					
Prep Date:	<b>12/23/2013</b>	Analysis Date:	<b>12/24/2013</b>	SeqNo:	<b>453870</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	880		1000		87.7	74.5	129			

Sample ID	<b>LCS-10957</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>10957</b>	RunNo:	<b>15727</b>					
Prep Date:	<b>12/23/2013</b>	Analysis Date:	<b>12/24/2013</b>	SeqNo:	<b>453871</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	74.5	126			
Surr: BFB	960		1000		95.6	74.5	129			

### 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#: 1312A40

03-Jan-14

Client: Animas Environmental Services

Project: Enterprise Howell M #1A

Sample ID	MB-10957	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	10957	RunNo:	15727					
Prep Date:	12/23/2013	Analysis Date:	12/24/2013	SeqNo:	453911	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	0.99		1.000		99.4	80	120			

Sample ID	LCS-10957	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	10957	RunNo:	15727					
Prep Date:	12/23/2013	Analysis Date:	12/24/2013	SeqNo:	453912	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1312A40

RcptNo: 1

Received by/date: [Signature] 12/19/13

Logged By: Lindsay Mangin 12/19/2013 9:45:00 AM [Signature]

Completed By: Lindsay Mangin 12/21/2013 9:16:10 AM [Signature]

Reviewed By: [Signature] 12/23/13

**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? 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? 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	3.1	Good	Yes			

Chain-of-Custody Record

Client: Animas Environment Services, LLC

Mailing Address: 624 E. Comanche  
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

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

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

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

Standard  Rush

Project Name: Enterprise Howell M #1A

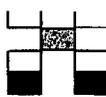
Project #:

Project Manager: H. Woods

Sampler: H. Woods

On Ice:  Yes  No

Sample Temperature: 3.1



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (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 <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)	
1/18/13	1137	Soil	SC-1	1-4oz		-001	X		X										
1/18/13	1456	Soil	SC-2	1-4oz		-002	X		X										
2/18/13	1555	Soil	SC-3	1-4oz		-003	X		X										
2/18/13	1600	Soil	Historical Composite	1-4oz		-004	X		X										

Date: 12/18/13 Time: 1741 Relinquished by: Heather M. Woods

Date: 12/18/13 Time: 1741 Received by: Chris Walt

Date: 12/18/13 Time: 1759 Relinquished by: Christopher Woods

Date: 12/19/13 Time: 0945 Received by: [Signature]

Remarks: Bill to Enterprise Field Services

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.

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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 10A-5	Facility Type: Natural Gas Gathering Line
Surface Owner: NAPI/Navajo Nation	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
M	34	26N	12W					San Juan
Latitude		36.438323		Longitude		-108.103399		

**NATURE OF RELEASE**

Type of Release: Natural Gas and Natural gas liquids	Volume of Release: Unknown	Volume Recovered: To Be Determined
Source of Release: Internal Corrosion of the Pipeline	Date and Hour of Occurrence: 2/19/2014:00 p.m.	Date and Hour of Discovery: 2/19/2014 @ 4:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD – Jonathan Kelly, NNEPA - Steve Austin, Greg Yazzie and Mike Freeman - NAPI	
By Whom? Thomas Long	Date and Hour 2/20/2014 @ ~10:00 a.m. by phone call	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.		
Describe Cause of Problem and Remedial Action Taken.* A release was discovered on the Trunk 10A-5 while lowering. External corrosion was found and a pin hole was identified. The line was blown down, taken out of service and LOTO (lock out tag out) was applied. The repairs/remediation activities began February 28, 2014.		
Describe Area Affected and Cleanup Action Taken.* Repair and Remediation activities began on February 28, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor 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.		

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist:	
Title: Director, Environmental	Approval Date: 4/24/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-2014	Phone: (713) 381-6684	

\* Attach Additional Sheets If Necessary

Incident # NCS 1411415 3495

①

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Atlantic C#1A Well Site	Facility Type: Well Site/Meter Tube

Surface Owner: Private	Mineral Owner: BLM	API No.
------------------------	--------------------	---------

**LOCATION OF RELEASE**

Unit Letter C	Section 35	Township 31N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------------

Latitude 36.86006 Longitude -107.855785

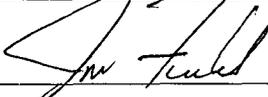
**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids/ produced water	Volume of Release: 89 MCF	Volume Recovered: Unknown
Source of Release: Orifice Flange on a Meter Tube	Date and Hour of Occurrence: 1/8/2014 @ 4:30 p.m.	Date and Hour of Discovery: 1/8/2014 @ 4:30 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A release from an orifice flange on a meter tube at the Atlantic C#1A well site. An area of approximately 1,500 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured.  
**RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3**

Describe Area Affected and Cleanup Action Taken.\*  
A release from an orifice flange on a meter tube at the Atlantic C#1A well site. An area of approximately 1,500 square feet was affected. Third party environmental contractor oversaw remediation activities and collected closure samples on 1-16-14. Approximately twenty-four (24) cubic yards of impacted soil was transported to a NMOCD land farm facility. A third party environmental corrective action report is included with this "final" c-141.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 4/24/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-2014	Phone: (713) 381-6684	

\* Attach Additional Sheets If Necessary

Incident # NCS 1411455301

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Enterprise Products  
Atlantic C #1A Meter Run Release  
Latitude North 36.860060, Longitude West -107.855785  
Unit C Section 35 T31N R10W  
San Juan County, New Mexico  
February 11, 2014

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3



**Submitted To:**

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

**Submitted By:**

Souder, Miller & Associates  
401 West Broadway  
Farmington, NM 87401  
(505) 325-7535



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3.0	Site Ranking and Land Jurisdiction .....	2
4.0	Summary of Field Activities .....	2
5.0	Conclusions and Recommendations.....	3
6.0	Closure and Limitations.....	4

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- Figure 1: Vicinity Map
- Figure 2: Site Location Map
- Figure 3: Soil Contaminant Concentration Map

### Tables:

- Table 1: Release Information
- Table 2: Site Ranking
- Table 3: Summary of Field Screening Results
- Table 4: Summary of Laboratory Analysis

### Appendices:

- Appendix A: Field Notes
- Appendix B: Site Photography
- Appendix C: Soil Disposal Documentation
- Appendix D: Laboratory Analytical Reports

## 1.0 Executive Summary

On January 16, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Atlantic C #1A meter run release. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION			
Name	Atlantic C #1A Meter Run Release		
Location	Latitude/Longitude		Section, Township, Range
		36.860060°	-107.855785°
Date Reported	January 9, 2014		
	Thomas Long		
Land Owner	Private		
Reported To	New Mexico Oil Conservation Division (NMOCD)		
Diameter of Pipeline	3 inches		
Source of Release	Faulty flange connection/Freezing		
Release Contents	Natural Gas/Condensate		
Release Volume: Natural Gas	Unknown		
Release Volume: Liquids/Condensate	89 MCF of Gas, Unknown amount of Condnsate		
Nearest Waterway	Tributary of Hart Canyon Wash		
Depth to Groundwater	Less than 50 feet		
Nearest Domestic Water Source	Greater than 200 feet		
NMOCD Ranking	40		
SMA Response Dates	1/16/2014		
Subcontractors	Energy Maintenance Services (EMS)		
Disposal Facility	Industrial Ecosystems Incorporated (IEI)		
Yd <sup>3</sup> Contaminated Soil Excavated and Disposed	24		

## 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 3-inch meter run release. The release was due to the meter run freezing which resulted in a faulty flange. It was reported that approximately 89 thousand cubic feet (MCF) was released during the release. The amount of condensate liquids released are unknown. The release was reported January 9, 2014 and was located in (NE/NW) Unit C, Section 35, Township 31 North, Range 10 West, 36.860060°, -107.855785°, 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 less than 450 feet south of an unnamed wash that is an unnamed tributary to the Hart Canyon Wash on privately owned land with an elevation of approximately 6,350 feet above sea level. After evaluation of the site 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 were located within 1,000 feet of the site. However, twenty-one wells were located within a 1-mile radius of the site, but there is no anticipated impact to these wells.

The physical location of this release is within the jurisdiction of NMOCD. This release location has been assigned a NMOCD ranking of 30 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

## 4.0 Summary of Field Activities

On January 16, 2014, SMA mobilized to the release site to oversee excavation activities and to delineate the release area through field screening using a calibrated photoionization detector (PID). Concurrently, Energy Maintenance Services (EMS) fixed the faulty flange connection. During the excavation, soil samples were collected for field screening to determine the extent of the release. Under the supervision and direction of SMA, EMS excavated and transported the hydrocarbon impacted soil. Tables 3 summarize the field screening results. Field notes for these events are included in Appendix A.

---

The final excavation covered approximately 1,500 square feet, measuring approximately 75 feet long by 20 feet wide. The majority of the excavation reached a depth of approximately 0.5 feet bgs. One section within the total area, measured approximately 10 feet long by 20 feet wide, was excavated to a depth of approximately 2.5 bgs. Field screening of the excavated material determined that the soils removed were not suitable for use as backfill material. Approximately 24 cubic yards of impacted soil was transported to Industrial Ecosystems Inc. Landfarm, on Crouch Mesa near Bloomfield, New Mexico for disposal. A certificate of waste is included in Appendix C.

All laboratory soil samples 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 3 illustrates the extent of the excavation and laboratory results.

## **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 30: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Laboratory analysis detected DRO in samples SC-1 (12ppm), SC-5 (10ppm) and the base excavation sample (10ppm). All of the laboratory results reported below the NMOCD Guideline standards based on the site ranking. Laboratory analysis of the excavation detected benzene, total BTEX, and TPH (GRO/DRO) at concentrations below the NMOCD Guidelines for all other samples. The impacted soil was hauled off site for disposal. 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 and stabilization, 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 Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

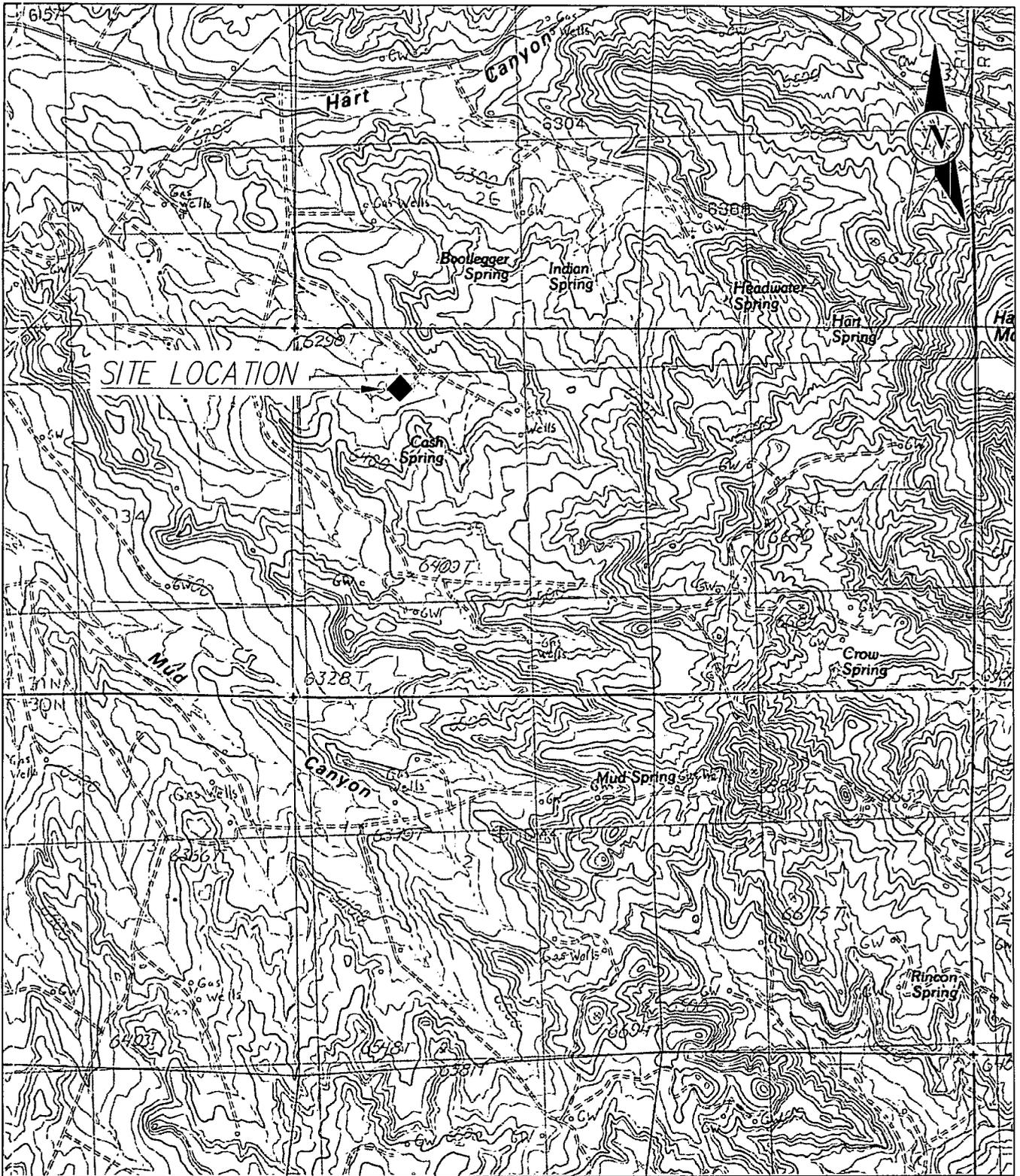
SOUDER, MILLER & ASSOCIATES



Steve Moskal  
Project Scientist



Reid S. Allan, PG  
Principal Scientist



SCALE



**SOUDER, MILLER & ASSOCIATES**  
 401 W BROADWAY AVENUE  
 FARMINGTON, NM 87401-5907  
 Phone (505) 325-7335 Toll-Free (800) 519-0098 Fax (505) 325-0445  
 www.soudermiller.com  
 Serving the Southwest & Rocky Mountains  
 Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX  
 Cortez - Grand Junction - Montrose, CO - Stratford, AZ - Alhambra, UT

ENTERPRISE

FARMINGTON, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
----------------	--------------	----------------

VICINITY MAP  
 Atlantic C #1A

SECTION 35, T31N, R10W

Date: 2/5/2014

Scale: Horiz: 1"=2000'  
 Vert: N/A

Project No: 5122855

Sheet: 1

SAN JUAN COUNTY, NEW MEXICO



SITE LOCATION



**SOUDER, MILLER & ASSOCIATES**  
 401 W BROADWAY AVENUE  
 FARMINGTON, NM 87401-5907  
 Phone (505) 325-7333 Toll-Free (800) 519-0098 Fax (505) 325-0045  
 www.soudermiller.com  
 Serving the Southwest & Rocky Mountains  
 Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM • El Paso, TX  
 Cortez • Grand Junction • Montrose, CO • Safford, AZ • Moab, UT

ENTERPRISE

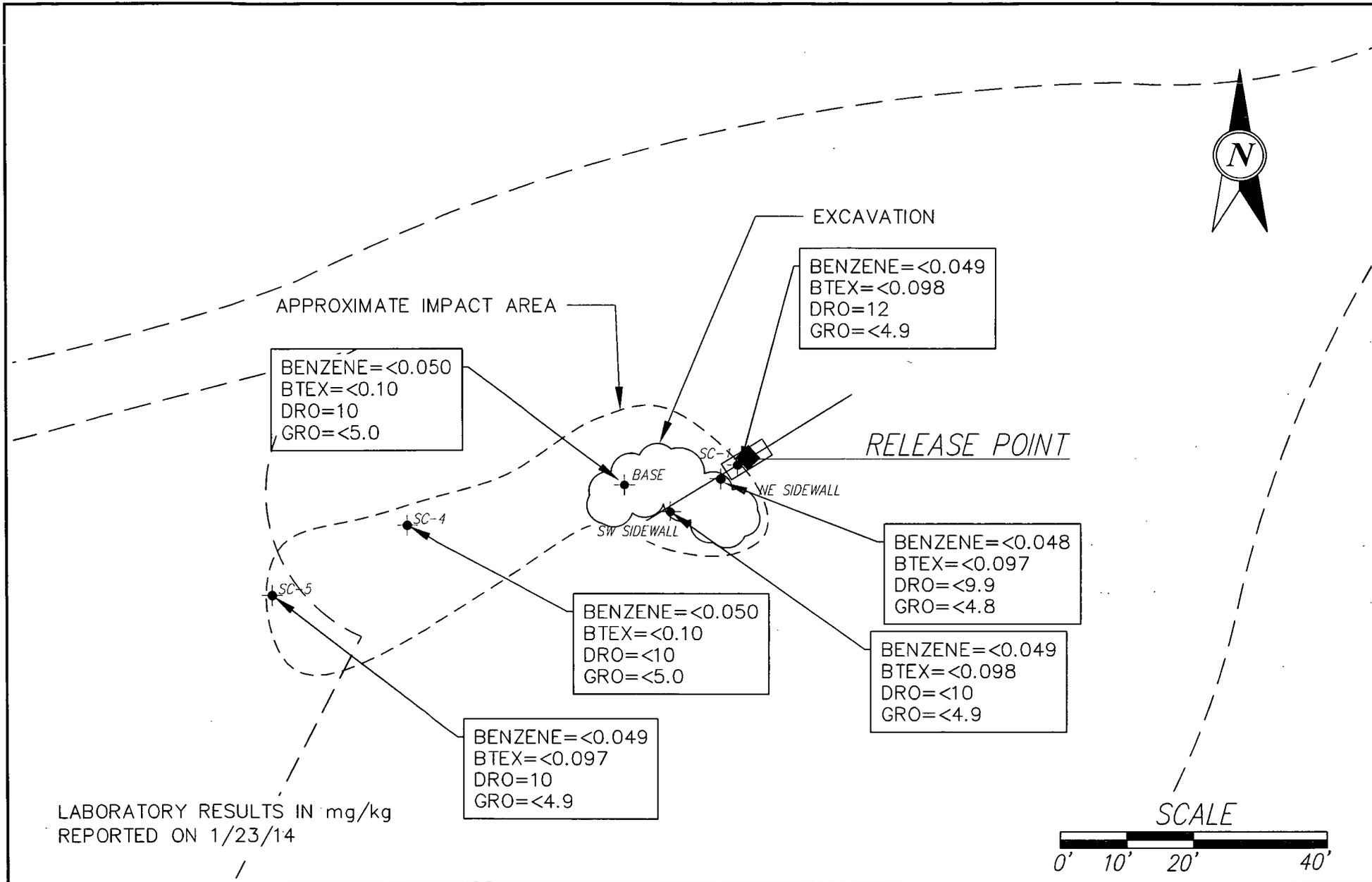
FARMINGTON, NEW MEXICO

SITE LOCATION MAP  
 Atlantic C #1A  
 SECTION 35, T31N, R10W

SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 2/5/2014		
Scale: Horiz: 1"=30' Vert: N/A		
Project No: 5122855		
Sheet: 2		

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	<b>SOUDER, MILLER &amp; ASSOCIATES</b> 401 W BROADWAY AVENUE FARMINGTON, NM 87401-5907 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045 www.soudermiller.com Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Cortez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT	ENTERPRISE	FARMINGTON, NEW MEXICO	Designed SM	Drawn DJB	Checked RSA
		<b>SITE LOCATION MAP</b> Atlantic C #1A SECTION 35, T31N, R10W SAN JUAN COUNTY, NEW MEXICO			Date: 2/5/2014	Scale: Horiz: 1"=20' Vert: N/A
						Sheet: 3

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	Verified using Google earth and Topo maps; Field verified.	Groundwater is assumed to be less than 50 feet below the ground surface.
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	10	Verified using Google Earth and Topo maps; Field verified.	Release is located approximately 450 feet south of an unnamed tributary of Hart Canyon Wash
200'-1000' = 10			
>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	New Mexico State Engineer's Office online water well data base	No recorded water wells located with 1,000 feet. Twenty-one wells within a 1 mile radius.
<b>Total Site Ranking</b>	<b>30</b>		
<b>Soil Remediation Standards</b>	0 to 9	10 to 19	>19
<b>Benzene</b>	10 PPM	10 PPM	<b>10 PPM</b>
<b>BTEX</b>	50 PPM	50 PPM	<b>50 PPM</b>
<b>TPH</b>	5000 PPM	1000 PPM	<b>100 PPM</b>



FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field screening Reference	Sample Depth (Feet BGS)	PID Reading	Lab Sample Collected Y/N
1/16/2014	12:00	SC-1 (In meter house @ RP)	2.00	1.1	Y
1/16/2014	12:28	SC-2 ( N. of meter house 10')	1.00	11.2	N
1/16/2014	12:13	SC-3 ( W. of SC-2, 25')	0.75	6.5	N
1/16/2014	12:15	SC-4 (W. of SC-2, 50')	0.50	1.7	Y
1/16/2014	12:27	SC-5 ( W. of SC-2, 75')	0.00	1.0	Y
1/16/2014	12:30	SC-1 (In meter house @ RP)	0.50	5.5	N
1/16/2014	12:31	SC-6 (SW of Meter House)	0.75	537.4	N
1/16/2014	12:32	SC-7 (SW of Meter House)	0.50	0.8	N
1/16/2014	13:05	SC-6 (SW of Meter House)	1.00	1174.0	N
1/16/2013	13:20	SC-8 S.W. meter house	1.00	842.6	N
1/16/2014	13:22	SC-8 S.W. meter house	2.00	73.7	N
1/16/2014	13:48	SC-6 (SW of Meter House)	2.00	52.3	N
1/16/2014	14:05	SW sidewall excavation	2.00	659.2	N
1/16/2014	14:06	NE sidewall excavation	2.00	24.9	Y
1/16/2014	14:07	Base excavation	2.00	35.9	Y
1/16/2014	14:30	SW sidewall excavation	2.00	6.3	Y



LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking: 30		100 ppm		10 ppm	50 ppm
1/16/2014	12:00	SC-1 ( In meter house @ RP)	2.0	<4.9	12	<0.049	<0.098
1/16/2014	12:15	SC-4 ( W. of SC-2, 50')	0.5	<5.0	<10	<0.050	<0.10
1/16/2014	12:16	SC-5 ( W of SC-2, 75')	0.0	<4.9	10	<0.049	<0.097
1/16/2014	2:07	Base excavation	2.0	<5.0	10	<0.050	<0.10
1/16/2014	2:06	NE Sidewall excavation	2.0	<4.8	<9.9	<0.048	<0.097
1/16/2014	2:30	SW Sidewall excavation	2.0	<4.9	<10	<0.049	<0.098



**APPENDIX A**  
**FIELD NOTES**

SUBJECT Atlantic C #1A

PROJECT

PAGE

CLIENT EPCO

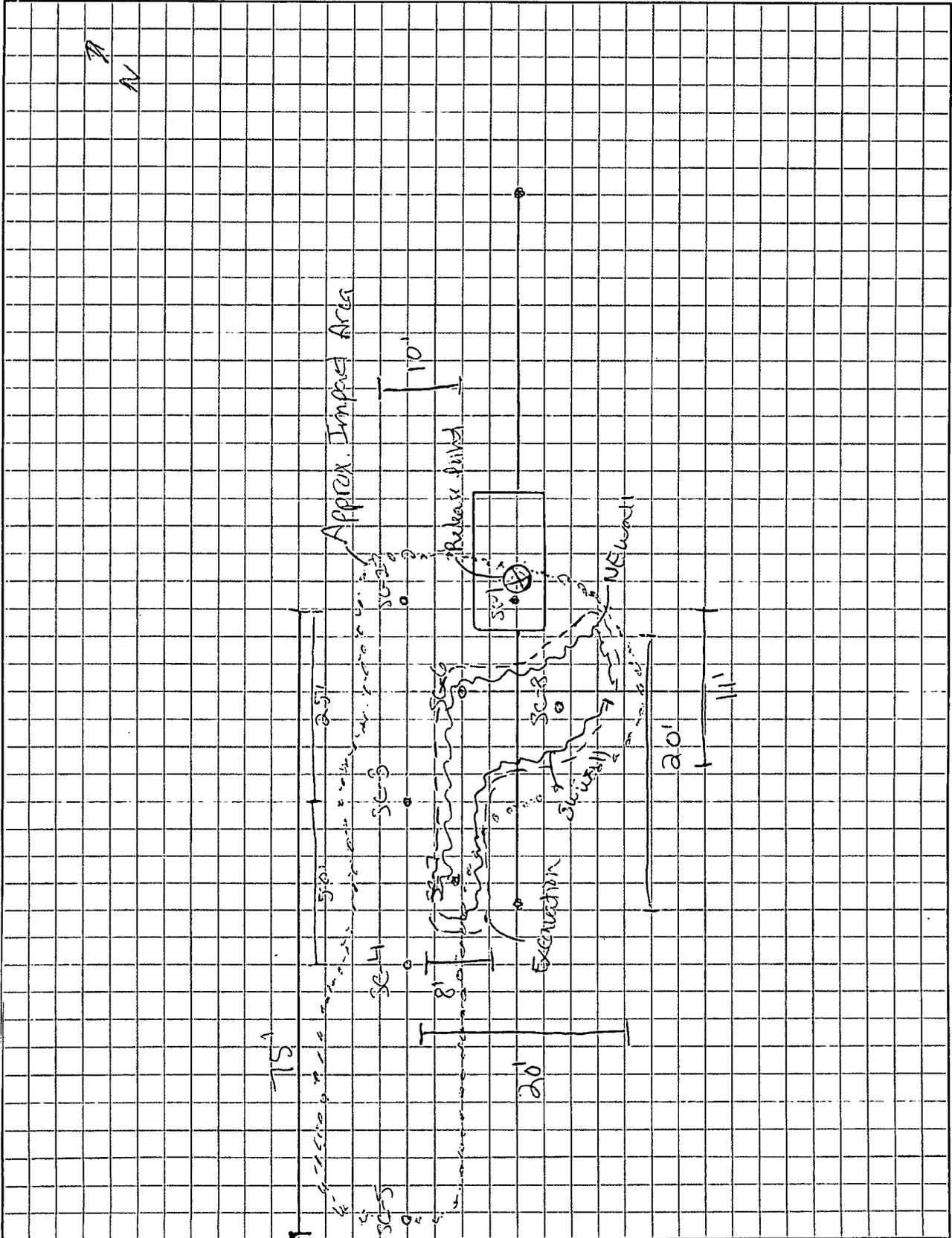
DATE 1/16/14

BY STM

CHECKED

BY

- on site @ 11:50, complete SMA tailgate safety
- EMS begun excavation (completed patching of pipelines)
- Collect field screen samples
- Instruct EMS to deepen excavation around SW/SE corners of meter-house (2,300)



# Field Screening

Location Name

Date

Atlantic E# 1A

1/16/17

Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
✓ ★ SC-1	In meter house DRP	2.0	1200	1224	1.1
● SC-2	N. of meter house 10'	<del>0.5</del> 1.0	1210	1228	11.2
● SC-3	W. of SC2 25'	0.75	1213	1225	6.5
✓ ★ SC-4	W. of SC2 50'	0.5	1215	1226	1.7
✓ ★ SC-5	W. of SC2 75'	Surface	1216	1227	1.0
SC-1	In meter house DRP	0.5'	1230	1244	5.5
SC-6	12' W. meter house 5' outside meter house	0.75	1231	1245	537.4
SC-7	32' W. meter house 5' outside meter house	0.5'	1232	1246	0.8
SC-8	See above	1.0'	1305	1316	1174
SC-8	Sur meter house	1.0	1320	1334	842.6
★ SC-8	see above	2.0	1322	1335	73.7
● SC-6	see above	2.0	1348	1358	52.3
SW sidewalk	Excavation	2.0	1405	1411	659.2
✓ ★ NE sidewalk	"	2.0	1406	1411	24.9
✓ ★ Base	"	2.0	1407	1412	35.9
✓ ★ SW wall	"	2.0	1430	1440	6.3

# Release Information

<b>Name</b>	Alcantic C#1A
<b>Location</b>	<b>Latitude/Longitude</b>
	36° 51.6' -107° 51.3'
	<b>Section, Township, Range</b>
	Sec 35, T31N, R10W
<b>Reported To</b>	Tom Long <span style="float: right;">1/9/14</span>
<b>Area Supervisor</b>	Dwayne Dixon
<b>Diameter of Pipeline</b>	3" meter Run
<b>Source of Release</b>	Flange on meter Run
<b>Release Contents</b>	Natural Gas / Condensate
<b>Release Volume</b>	Unknown
<b>Subcontractor</b>	EMS
<b>Disposal Facility</b>	IEI
<b>Yd<sup>3</sup> Contam. Soil</b>	
<b>PO/WO/AFE</b>	

**Notes:**

**APPENDIX B**  
**SITE PHOTOGRAPHY**

Site Photographs  
Enterprise Products Atlantic C #1A Meter Run Release



Photo 1: Photo taken while contractor was removing surface impacts north of meter skid, facing west.



Photo 2: View of the release point after soil was excavated beneath the meter run release.

Site Photographs  
Enterprise Products Atlantic C #1A Meter Run Release



Photo 3: Excavation contractor removing soil at depth from the southwest corner of the meter house.



Photo 4: View of the total depth of the Atlantic C #1A Meter Run excavation, facing southwest.

Site Photographs  
Enterprise Products Atlantic C #1A Meter Run Release



Photo 5: View of the Atlantic C #1A Meter Run excavation, facing east.



Photo 6: View of the Atlantic C #1A Meter Run backfill activities with imported soils.

**APPENDIX C**  
**SOIL DISPOSAL DOCUMENTATION**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
30 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  
[Redacted]  
Santa Fe, NM 87505

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

<b>1. Generator Name and Address:</b> Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
<b>2. Originating Site:</b> Atlantic C#1A Well Site
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> Unit C Sec 35 T 31 N R 10 W, San Juan County, NM; 36.86002, -107.8559
<b>4. Source and Description of Waste:</b> Source: Orifice Flange Leak Description: Natural Gas Liquids (Condensate and Water) Estimated Volume <u>40</u> (yd <sup>3</sup> ) bbls Known Volume (to be entered by the operator at the end of the haul) <u>24</u> (yd <sup>3</sup> ) bbls
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b> I, Thomas Long <i>Thomas Long</i> , representative or authorized agent for Enterprise Products Operating do hereby <b>Generator Signature</b> 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) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <b>Operator Use Only: Waste Acceptance Frequency</b> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> 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) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, Thomas Long <i>Thomas Long</i> , representative for Enterprise Products Operating authorize to complete <b>Generator Signature</b> the required testing/sign the Generator Waste Testing Certification. I, <i>[Signature]</i> , representative for <u>IEI, Inc.</u> do hereby certify that 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.
<b>5. Transporter: To Be Determined</b> - EMS

#### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. \* Permit #: NM 01-0010B

Address of Facility: #49 CR 2150 Aztec, New Mexico

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: L. Merchants  
SIGNATURE: [Signature]

Surface Waste Management Facility Authorized Agent

TITLE: Land Farm Administrator  
TELEPHONE NO.: 505-632-1782

DATE: 1-16-14

CC-2128  
Ph. 8

1/15/14

**APPENDIX D**

**LABORATORY ANALYTICAL REPORTS**



*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)*

January 23, 2014

Steve Moskal

Souder, Miller and Associates

401 W. Broadway

Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: Atlantic C #1A

OrderNo.: 1401721

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/17/2014 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. 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 qualifiers 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,

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

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@2.0'

Project: Atlantic C #1A

Collection Date: 1/16/2014 12:00:00 PM

Lab ID: 1401721-001

Matrix: SOIL

Received Date: 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	12	10		mg/Kg	1	1/20/2014 3:25:17 PM	11283
Surr: DNOP	93.3	66-131		%REC	1	1/20/2014 3:25:17 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/20/2014 11:59:09 PM	11284
Surr: BFB	81.6	74.5-129		%REC	1	1/20/2014 11:59:09 PM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/20/2014 11:59:09 PM	11284
Toluene	ND	0.049		mg/Kg	1	1/20/2014 11:59:09 PM	11284
Ethylbenzene	ND	0.049		mg/Kg	1	1/20/2014 11:59:09 PM	11284
Xylenes, Total	ND	0.098		mg/Kg	1	1/20/2014 11:59:09 PM	11284
Surr: 4-Bromofluorobenzene	92.4	80-120		%REC	1	1/20/2014 11:59:09 PM	11284

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

<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
	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:** SC-4@0.5'

**Project:** Atlantic C #1A

**Collection Date:** 1/16/2014 12:15:00 PM

**Lab ID:** 1401721-002

**Matrix:** SOIL

**Received Date:** 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2014 7:32:09 PM	11283
Surr: DNOP	97.2	66-131		%REC	1	1/20/2014 7:32:09 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/21/2014 12:29:21 AM	11284
Surr: BFB	81.5	74.5-129		%REC	1	1/21/2014 12:29:21 AM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	1/21/2014 12:29:21 AM	11284
Toluene	ND	0.050		mg/Kg	1	1/21/2014 12:29:21 AM	11284
Ethylbenzene	ND	0.050		mg/Kg	1	1/21/2014 12:29:21 AM	11284
Xylenes, Total	ND	0.10		mg/Kg	1	1/21/2014 12:29:21 AM	11284
Surr: 4-Bromofluorobenzene	91.1	80-120		%REC	1	1/21/2014 12:29:21 AM	11284

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

<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
	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: SC-5@surface

Project: Atlantic C #1A

Collection Date: 1/16/2014 12:16:00 PM

Lab ID: 1401721-003

Matrix: SOIL

Received Date: 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	10	10		mg/Kg	1	1/20/2014 8:02:33 PM	11283
Surr: DNOP	87.7	66-131		%REC	1	1/20/2014 8:02:33 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/21/2014 12:59:30 AM	11284
Surr: BFB	92.6	74.5-129		%REC	1	1/21/2014 12:59:30 AM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/21/2014 12:59:30 AM	11284
Toluene	ND	0.049		mg/Kg	1	1/21/2014 12:59:30 AM	11284
Ethylbenzene	ND	0.049		mg/Kg	1	1/21/2014 12:59:30 AM	11284
Xylenes, Total	ND	0.097		mg/Kg	1	1/21/2014 12:59:30 AM	11284
Surr: 4-Bromofluorobenzene	96.3	80-120		%REC	1	1/21/2014 12:59:30 AM	11284

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

<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
	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: Base @2.0'

Project: Atlantic C #1A

Collection Date: 1/16/2014 2:07:00 PM

Lab ID: 1401721-004

Matrix: SOIL

Received Date: 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	10	10		mg/Kg	1	1/20/2014 8:33:27 PM	11283
Surr: DNOP	97.9	66-131		%REC	1	1/20/2014 8:33:27 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JMP</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/21/2014 4:58:45 PM	11284
Surr: BFB	88.4	74.5-129		%REC	1	1/21/2014 4:58:45 PM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JMP</b>
Benzene	ND	0.050		mg/Kg	1	1/21/2014 4:58:45 PM	11284
Toluene	ND	0.050		mg/Kg	1	1/21/2014 4:58:45 PM	11284
Ethylbenzene	ND	0.050		mg/Kg	1	1/21/2014 4:58:45 PM	11284
Xylenes, Total	ND	0.10		mg/Kg	1	1/21/2014 4:58:45 PM	11284
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	1/21/2014 4:58:45 PM	11284

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

<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
	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: NE Sidewall@2.0'

Project: Atlantic C #1A

Collection Date: 1/16/2014 2:06:00 PM

Lab ID: 1401721-005

Matrix: SOIL

Received Date: 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/20/2014 9:03:51 PM	11283
Surr: DNOP	103	66-131		%REC	1	1/20/2014 9:03:51 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JMP</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/21/2014 5:27:16 PM	11284
Surr: BFB	89.7	74.5-129		%REC	1	1/21/2014 5:27:16 PM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JMP</b>
Benzene	ND	0.048		mg/Kg	1	1/21/2014 5:27:16 PM	11284
Toluene	ND	0.048		mg/Kg	1	1/21/2014 5:27:16 PM	11284
Ethylbenzene	ND	0.048		mg/Kg	1	1/21/2014 5:27:16 PM	11284
Xylenes, Total	ND	0.097		mg/Kg	1	1/21/2014 5:27:16 PM	11284
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	1/21/2014 5:27:16 PM	11284

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

<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
	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: SW Sidewall@2.0'

Project: Atlantic C #1A

Collection Date: 1/16/2014 2:30:00 PM

Lab ID: 1401721-006

Matrix: SOIL

Received Date: 1/17/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/20/2014 9:34:21 PM	11283
Surr: DNOP	103	66-131		%REC	1	1/20/2014 9:34:21 PM	11283
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JMP</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/21/2014 9:44:27 PM	11284
Surr: BFB	92.2	74.5-129		%REC	1	1/21/2014 9:44:27 PM	11284
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JMP</b>
Benzene	ND	0.049		mg/Kg	1	1/21/2014 9:44:27 PM	11284
Toluene	ND	0.049		mg/Kg	1	1/21/2014 9:44:27 PM	11284
Ethylbenzene	ND	0.049		mg/Kg	1	1/21/2014 9:44:27 PM	11284
Xylenes, Total	ND	0.098		mg/Kg	1	1/21/2014 9:44:27 PM	11284
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	1/21/2014 9:44:27 PM	11284

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

<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
	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#: 1401721

23-Jan-14

**Client:** Souder, Miller and Associates

**Project:** Atlantic C #1A

Sample ID <b>MB-11283</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>11283</b>		RunNo: <b>16170</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>465944</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	10		10.00		99.9	66	131			

Sample ID <b>LCS-11283</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11283</b>		RunNo: <b>16170</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>466029</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	60.8	145			
Surr: DNOP	5.0		5.000		99.6	66	131			

Sample ID <b>1401721-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>SC-1@2.0'</b>	Batch ID: <b>11283</b>		RunNo: <b>16170</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>466269</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.65	11.58	73.2	47.4	148			
Surr: DNOP	5.2		4.965		106	66	131			

Sample ID <b>1401721-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>SC-1@2.0'</b>	Batch ID: <b>11283</b>		RunNo: <b>16170</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>466407</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.9	49.65	11.58	81.8	47.4	148	8.50	22.7	
Surr: DNOP	5.5		4.965		110	66	131	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#: 1401721

23-Jan-14

**Client:** Souder, Miller and Associates

**Project:** Atlantic C #1A

Sample ID <b>MB-11284</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>11284</b>		RunNo: <b>16184</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>466363</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	820		1000		82.3	74.5	129			

Sample ID <b>LCS-11284</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11284</b>		RunNo: <b>16184</b>							
Prep Date: <b>1/17/2014</b>	Analysis Date: <b>1/20/2014</b>		SeqNo: <b>466364</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	74.5	126			
Surr: BFB	800		1000		80.5	74.5	129			

Sample ID <b>MB-11304</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>11304</b>		RunNo: <b>16199</b>							
Prep Date: <b>1/20/2014</b>	Analysis Date: <b>1/21/2014</b>		SeqNo: <b>467111</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		88.5	74.5	129			

Sample ID <b>LCS-11304</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11304</b>		RunNo: <b>16199</b>							
Prep Date: <b>1/20/2014</b>	Analysis Date: <b>1/21/2014</b>		SeqNo: <b>467112</b>		Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.3	74.5	129			

**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

275

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401721

23-Jan-14

Client: Souder, Miller and Associates

Project: Atlantic C #1A

Sample ID	<b>MB-11284</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11284</b>	RunNo:	<b>16184</b>					
Prep Date:	<b>1/17/2014</b>	Analysis Date:	<b>1/20/2014</b>	SeqNo:	<b>466390</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	0.94		1.000		94.3	80	120			

Sample ID	<b>LCS-11284</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11284</b>	RunNo:	<b>16184</b>					
Prep Date:	<b>1/17/2014</b>	Analysis Date:	<b>1/20/2014</b>	SeqNo:	<b>466391</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.97	0.050	1.000	0	97.4	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

Sample ID	<b>MB-11304</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11304</b>	RunNo:	<b>16199</b>					
Prep Date:	<b>1/20/2014</b>	Analysis Date:	<b>1/21/2014</b>	SeqNo:	<b>467136</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
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Sample ID	<b>LCS-11304</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11304</b>	RunNo:	<b>16199</b>					
Prep Date:	<b>1/20/2014</b>	Analysis Date:	<b>1/21/2014</b>	SeqNo:	<b>467137</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	1.0		1.000		105	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               |
| 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  
 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: 1401721

RcptNo: 1

Received by/date: MG 01/17/14

Logged By: Lindsay Mangin 1/17/2014 10:00:00 AM *Judy Mangin*

Completed By: Lindsay Mangin 1/17/2014 10:51:31 AM *Judy Mangin*

Reviewed By: TO/mg 01/17/14

**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: Souder Miller & Associates

Mailing Address: 401 W. Broadway  
Farmington, NM 87401

Phone #: 505 325 7535

email or Fax#: steven.muskal@soudermiller.com

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

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

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

Turn-Around Time:  
 Standard  Rush

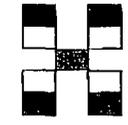
Project Name: Atlantic C #1A

Project #: Atlantic C #1A 5122855 BG#1

Project Manager: Steve Muskal

Sampler: 11 4  
 On Ice  Yes  No

Sample Temperature: 0



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMs (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)
11/6/14	1202	Soil	SC-1 @ 2.0'	8oz v1	cool	-001	X	X										
	1215		SC-4 @ 0.5'			-002	X	X										
	1216		SC-5 @ surface			-003	X	X										
	<del>1322</del>		<del>SC-8 @ 2.0'</del>				<del>X</del>	<del>X</del>										
	1407		Bas @ 2.0'			-004	X	X										
	1416		NE sidewalk @ 2.0'			-005	X	X										
	1430		Sus sidewalk @ 2.0'			-006	X	X										

Date: <u>11/6/14</u>	Time: <u>1540</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>Christ Walt</u>	Date: <u>11/6/14</u>	Time: <u>1546</u>	Remarks: <u>Please invoice direct to SMA and copy skayna.chubbuck@soudermiller.com</u> <u>Note: 8 oz Jars used due to 4 oz Jars being packed for move</u>
Date: <u>11/6/14</u>	Time: <u>1750</u>	Relinquished by: <u>Christ Walt</u>	Received by: <u>Michael Garcia</u>	Date: <u>11/17/14</u>	Time: <u>1000</u>	

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.

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: EPNG COM D #5A	Facility Type: Well Site/Meter Tube
Surface Owner: BLM	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
D	36	30N	8W					San Juan

Latitude 36.77370 Longitude -107.63242

**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids/ produced water	Volume of Release: 45 MCF	Volume Recovered: Unknown
Source of Release: Equipment Failure on a Meter Tube	Date and Hour of Occurrence: 1/2/2014 @ 3:10 p.m.	Date and Hour of Discovery: 1/2/2014 @ 3:10 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly NMOCD, Brandon Powell NMOCD; Sherrie Landon BLM	
By Whom? Thomas Long	Date and Hour: 1/3/2014 @ 3:46 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

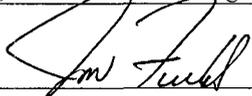
Describe Cause of Problem and Remedial Action Taken.\* A release from meter tube due to equipment failure at the well site called the EPNG Com D#5A well site. An area of approximately 1,900 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured.

RCVD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\*

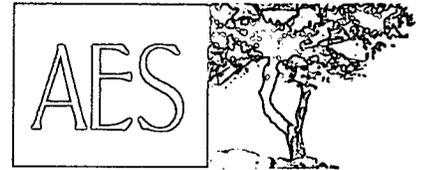
A release from meter tube due to equipment failure at the well site called the EPNG Com D#5A. An area of approximately 1,900 square feet was affected. The well was isolated and LOTO (lock out tag out) was applied. The well site was secured. Third party environmental contractor oversaw remediation activities and collected closure samples on 1-10-14. A third party environmental contractor corrective action report is included with this final "final" c-141.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 4/24/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-2014	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

Incident # NCS 141 145 0148



Animas Environmental Services, LLC

www.animasenvironmental.com

February 12, 2014

Thomas Long  
Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, New Mexico 87401

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

Via electronic mail with delivery confirmation receipt to:  
[tjlong@eprod.com](mailto:tjlong@eprod.com)

**RE: Release Assessment Report  
EPNG D Com #5A Meter Run Release  
NW¼ NW¼, Section 36, T30N, R8W  
San Juan County, New Mexico**

RCUD MAR 7 '14  
OIL CONS. DIV.  
DIST. 3

Dear Mr. Long:

On January 10, 2014, Animas Environmental Services, LLC (AES) completed an assessment associated with a non-reportable release of less than 50 Mcf natural gas and less than 5 barrels (bbls) of pipeline liquids from the Enterprise Field Services, LLC (Enterprise) EPNG D Com #5A meter run (Meter ID #89481). The release was discovered on January 2, 2014, and resulted from suspected material failure of a pipe fitting that separated at the threads.

---

## 1.0 Site Information

### 1.1 Location

Location - NW¼ NW¼, Section 36, T30N, R8W, San Juan County, New Mexico  
Well Head Latitude/Longitude - N36.77377 and W107.63230, respectively  
Release Location Latitude/Longitude - N36.77386 and W107.63203, respectively  
Surface Owner – State of New Mexico  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** Depth to groundwater is approximately 90 feet below ground surface (bgs) based on a cathodic well report dated May 1991. (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The release is located approximately 500 feet to the northwest of the Navajo Indian Irrigation Project Main Canal and approximately 650 feet to the northeast of the wash in Gobernador Canyon. (10 points)

The ranking score of 20 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

### *1.3 Assessment and Mitigation*

On January 10, 2014, Enterprise contractors completed an excavation of petroleum hydrocarbon impacted soils around the meter run. The release was reportedly caused by mechanical failure of a pipe fitting that failed along the threads. AES provided field screening for excavation guidance and prior to backfilling the excavation, collected a total of five confirmation soil samples for field screening and laboratory analysis from the walls and base of the final excavation. Historical contamination was observed in the base of the middle portion of the final excavation. The final excavation measured approximately 78 feet by 23 feet by 0.5 to 2.5 feet deep and terminated on sandstone. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the Envirotech Landfarm for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. The Envirotech Bills of Lading and a photograph log are included in the Appendix.

---

## **2.0 Soil Sampling**

A total of five composite soil samples (SC-1 through SC-4 and Historical Composite) were collected from the walls and the base of the final excavation during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and were also submitted for laboratory analysis.

## 2.1 Field Screening

### 2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

## 2.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH (GRO/DRO) per USEPA Method 8015D.

## 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 0.5 ppm in SC-2 to 120 ppm in the Historical Composite sample.

Table 1. Soil Field Screening VOC Results  
 EPNG D Com #5A Meter Run Release Assessment, January 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>
		<i>NMOCD Action Level*</i>	<i>100</i>
SC-1	1/10/14	0.5 to 1.5	12.5
SC-2	1/10/14	0.5 to 1.5	0.5
SC-3	1/10/14	1.5 to 2.5	3.2
SC-4	1/10/14	0.5 to 1.5	76.2
Historical Composite	1/10/14	2.5	<b>120</b>

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analytical results showed that benzene concentrations were below laboratory detection limits for all samples. Total BTEX concentrations ranged from below laboratory detection limits SC-1, SC-2, and SC-4 up to 0.37 mg/kg in the Historical Composite sample. TPH concentrations ranged from below the laboratory detection limit in SC-2 and SC-4 up to 40 mg/kg in the Historical Composite sample. Laboratory

analytical results are included in Table 1 and on Figure 3. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
 EPNG D Com #5A Meter Run Release Assessment, January 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene	Total BTEX	TPH – GRO	TPH – DRO
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Action Level*			10	50	100	
SC-1	1/10/14	0.5 to 1.5	<0.047	<0.24	16	11
SC-2	1/10/14	0.5 to 1.5	<0.048	<0.24	<4.8	<10
SC-3	1/10/14	1.5 to 2.5	<0.050	0.30	6.2	<10
SC-4	1/10/14	0.5 to 1.5	<0.047	<0.24	<4.7	<10
Historical Composite	1/10/14	2.5	<0.049	0.37	24	16

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

### 3.0 Conclusions and Recommendations

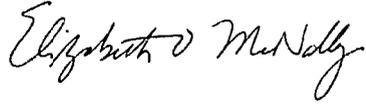
Action levels for releases determined by NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 20. Field screening and laboratory results were below NMOCD action levels for VOCs, benzene, total BTEX, and TPH (GRO/DRO) in all the samples except for the Historical Composite. Field screening of the Historical Composite showed VOCs above 100 ppm; however, laboratory analysis showed concentrations below NMOCD action levels for benzene, total BTEX, and TPH (GRO/DRO). Based on field screening and laboratory results of the final excavation extents, benzene, total BTEX, and TPH concentrations are below the applicable NMOCD action levels. No further work is recommended for the EPNG D Com #5A Meter Run Release.

If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 564-2281.

Sincerely,



Heather Woods, P.G.  
 Project Manager



Elizabeth McNally, P.E.

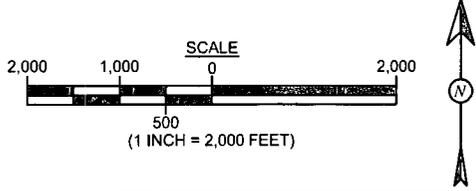
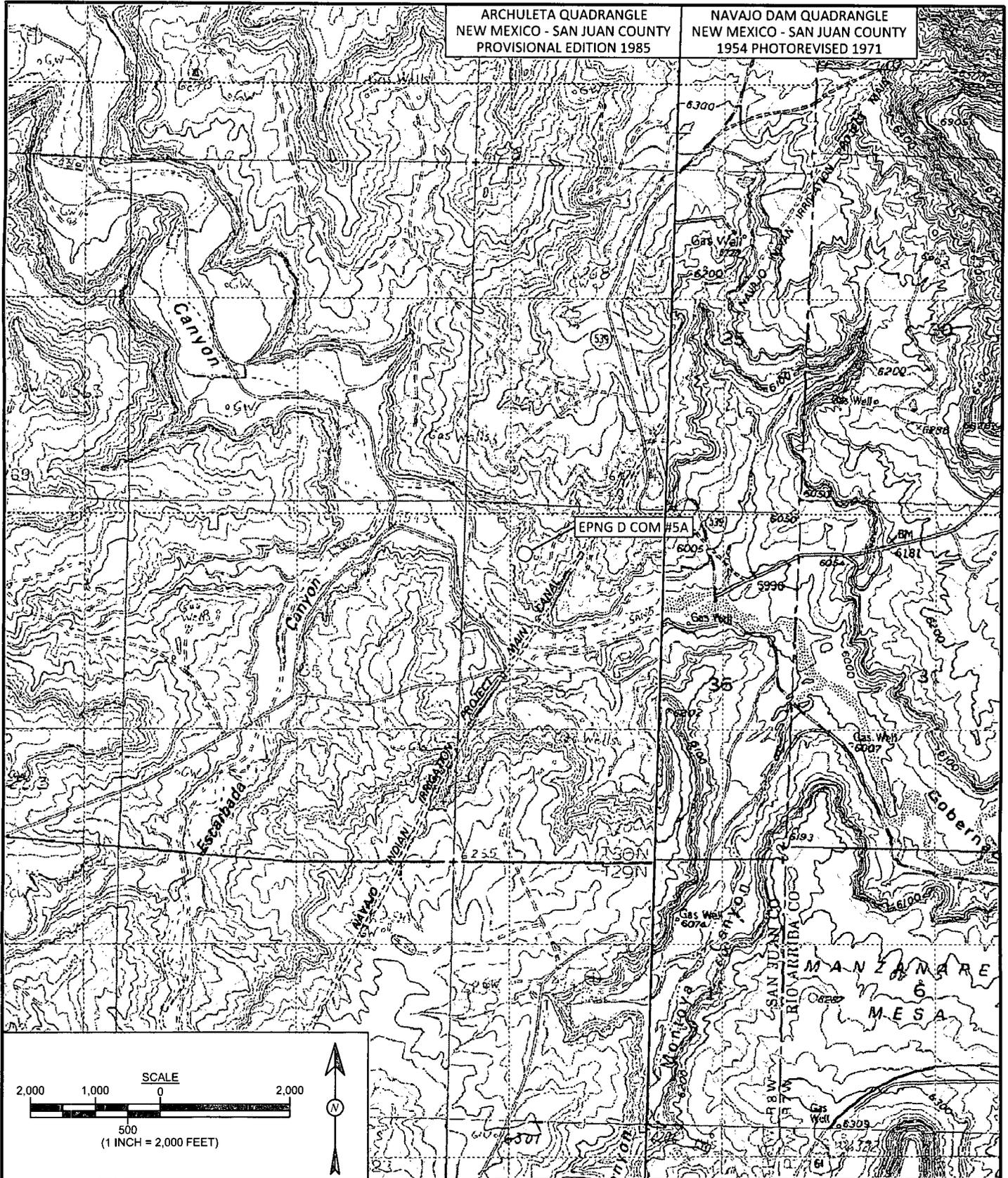
**Attachments:**

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, January 2014
- Bills of Lading (Envirotech 45574, 45576, 45583, and 45584)
- Photograph Log
- Laboratory Analytical Reports (Hall 1401443 and 1401444)

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\Enterprise\EPNG D Com #5A\Enterprise EPNG D Com #5A Meter Tube Release Report 021214.docx

ARCHULETA QUADRANGLE  
NEW MEXICO - SAN JUAN COUNTY  
PROVISIONAL EDITION 1985

NAVAJO DAM QUADRANGLE  
NEW MEXICO - SAN JUAN COUNTY  
1954 PHOTOREVISED 1971



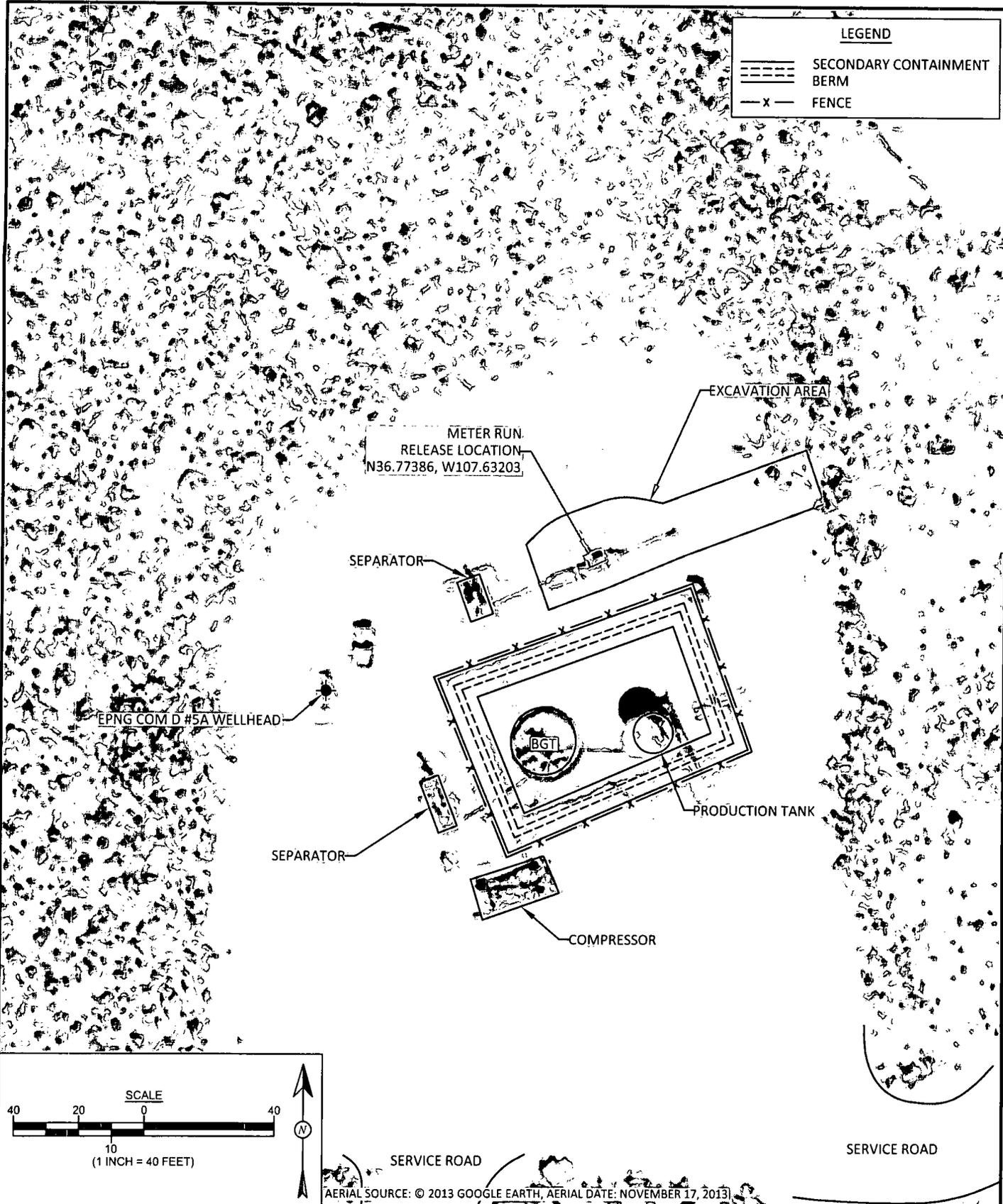
Animas Environmental Services, LLC

<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> January 31, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 31, 2014
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 31, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 31, 2014

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
ENTERPRISE FIELD SERVICES LLC  
EPNG D COM #5A  
NW¼ NW¼, SECTION 36, T30N, R8W  
SAN JUAN COUNTY, NEW MEXICO  
N36.77377, W107.63230

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> January 31, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 31, 2014
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 31, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 31, 2014

**FIGURE 2**

**AERIAL SITE MAP  
JANUARY 2014**

ENTERPRISE FIELD SERVICES LLC  
EPNG D COM #5A  
NW¼ NW¼, SECTION 36, T30N, R8W  
SAN JUAN COUNTY, NEW MEXICO  
N36.77377, W107.63230

**FIGURE 3**

**EXCAVATION SAMPLE LOCATIONS AND RESULTS JANUARY 2014**  
 ENTERPRISE FIELD SERVICES LLC  
 EPNG D COM #5A  
 NW¼ NW¼, SECTION 36, T30N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.77377, W107.63230



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> February 5, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 5, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> February 5, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 5, 2014

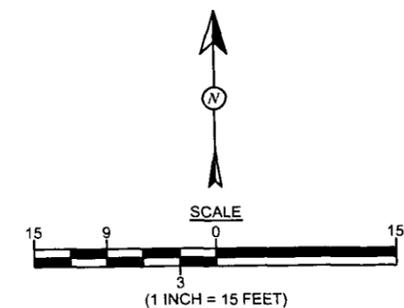
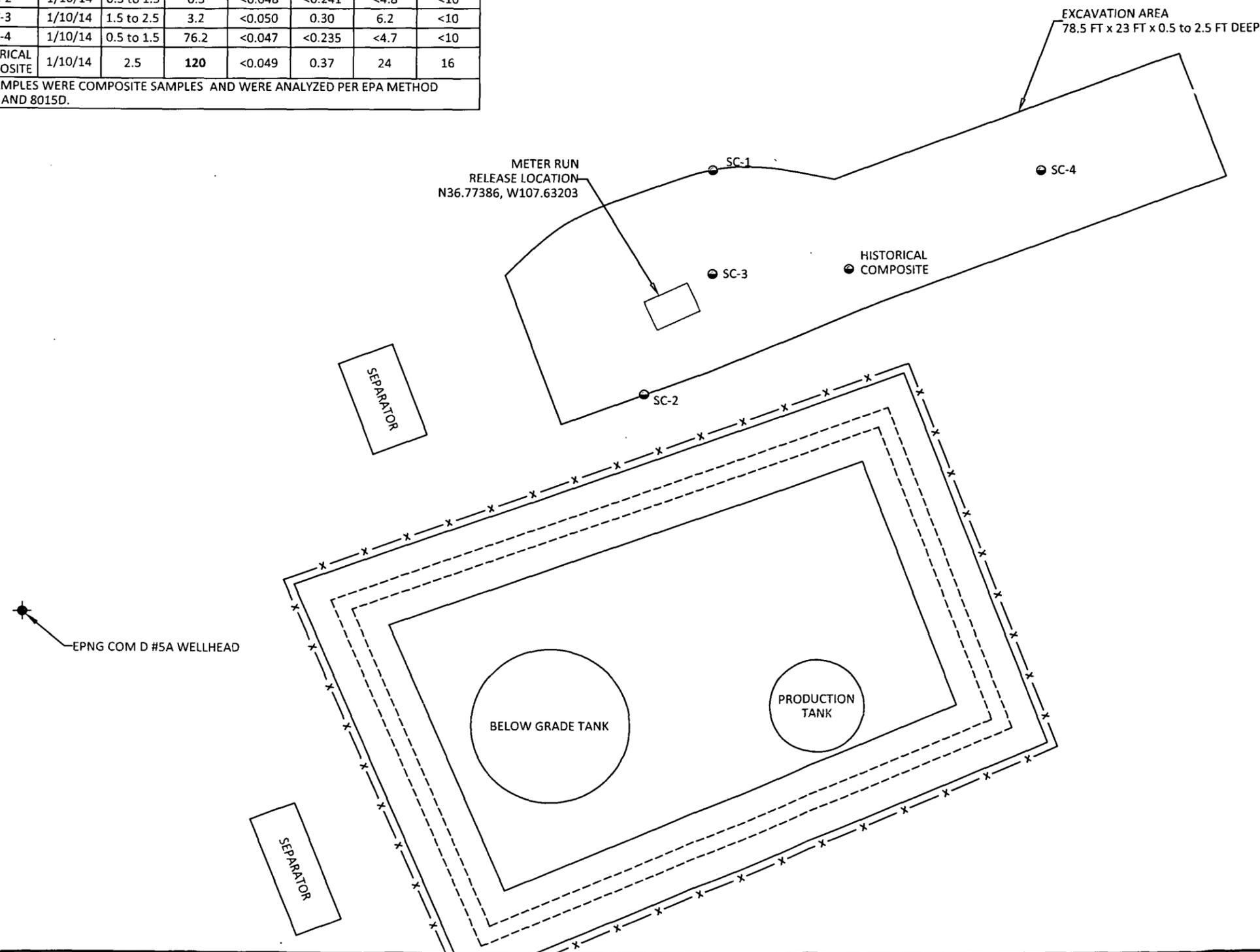
**LEGEND**

●	SAMPLE LOCATIONS
====	SECONDARY CONTAINMENT BERM
- x -	FENCE

*Field Screening and Laboratory Analytical Results*

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
<b>NMOCD ACTION LEVEL</b>			<b>100</b>	<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	1/10/14	0.5 to 1.5	12.5	<0.047	<0.235	16	11
SC-2	1/10/14	0.5 to 1.5	0.5	<0.048	<0.241	<4.8	<10
SC-3	1/10/14	1.5 to 2.5	3.2	<0.050	0.30	6.2	<10
SC-4	1/10/14	0.5 to 1.5	76.2	<0.047	<0.235	<4.7	<10
HISTORICAL COMPOSITE	1/10/14	2.5	<b>120</b>	<0.049	0.37	24	16

ALL SAMPLES WERE COMPOSITE SAMPLES AND WERE ANALYZED PER EPA METHOD 8021B AND 8015D.





# Bill of Lading

MANIFEST # 45574  
 DATE 1-10-14 JOB # 97057-0616

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	ENVIROTECH INC. Land Farm	ENTERPRISE Lot A-7	Clean	-	10	-	West States	515	8:30	Frank Collette
2	"	"	Fill soil	-	10	-	"	515	11:20	Frank Collette
3	"	EPNG D-COM	"	-	10	-	"	515	13:55	Frank Collette
4	"	5-A	"	-	10	-	"	515	16:10	Frank Collette
					40					
RESULTS:		LANDFARM EMPLOYEE: <u>Gary Robinson</u> Certification of above receipt & placement	EL			NOTES: Pipeline name is Lateral A-7				
<input checked="" type="checkbox"/>	CHLORIDE TEST									
<input checked="" type="checkbox"/>	PAINT FILTER TEST									

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. West States NAME FRANK COLLETTE SIGNATURE Frank Collette  
 COMPANY CONTACT Dwayne Dixon PHONE \_\_\_\_\_ DATE 1-10-14  
 Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45576  
 DATE 1-10-14 JOB # 97057-0616

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 Lat A-7	LF II	CONIT SOIL	0-11	10	-	West States	515	11:20	<i>Frank Collette</i>
2	D-COM 5A	"	"	0-11	10	-	"	515	13:55	<i>Frank Collette</i>
3	"	"	"	0-11	10	-	"	515	16:10	<i>Frank Collette</i>
					30					

RESULTS:		LANDFARM EMPLOYEE: <i>Cary Robinson - EL</i>	NOTES: Pipeline name is lateral A-7
< 299	CHLORIDE TEST 1		
	PAINT FILTER TEST 1	Certification of above receipt & placement	

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. West States NAME FRANK COLLETTE SIGNATURE *Frank Collette*  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 1-10-14

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45583  
 DATE 1-11-14 JOB # 97057-0616

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	EMERPEISC LATA-7 D-COM-5A	LFH	CON'T SOIL	0-11	10	-	WEST STATES	515	9:22	Frank Collett		
2	LATA-7 D-COM 5A	LFH	CON'T SOIL	0-11	10	-	WEST STATES	515	10:58	Frank Collett		
3	LATA-7 D-COM 5A	LFH	CON'T SOIL	0-11	10	-	WEST STATES	515	12:40	Frank Collett		
					30							
RESULTS:		LANDFARM EMPLOYEE: <i>Betty [unclear]</i> <sup>EL</sup>	Certification of above receipt & placement				NOTES: pipeline name is Lateral A-7					
< 299	CHLORIDE TEST											1
	PAINT FILTER TEST											1

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. WEST STATES NAME FRANK COLLETT SIGNATURE Frank Collett  
 COMPANY CONTACT \_\_\_\_\_ PHONE \_\_\_\_\_ DATE 1-11-14

Signatures required prior to distribution of the legal document.



# Bill of Lading

MANIFEST # 45584

DATE 1-11-14 JOB # 97057-0616

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
	LATERAL AISE ENVIROTECH FINE LOAD LABEL	ENTER AISE LAT A-07	CLEAN	-	10	-	WEST STATES	515	9:35	Frank Collette
					10					
RESULTS:		LANDFARM EMPLOYEE: <u>EL</u> <u>Frank Collette</u>	Certification of above receipt & placement			NOTES: Pipeline name is Lateral A-7				
CHLORIDE TEST	✓									
PAINT FILTER TEST	✓									

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. WEST STATES NAME FRANK COLLETTE SIGNATURE Frank Collette

COMPANY CONTACT BLUESKYNE D. YOUNG PHONE \_\_\_\_\_ DATE 1-11-14

Signatures required prior to distribution of the legal document.

Photo #1	
Client: Enterprise Field Services, LLC	
Project: EPNG D Com #5A	
Taken by: Heather Woods	
Date: January 10, 2014	
AES Project No. 140108	Description: View of excavation area looking east.

Photo #2	
Client: Enterprise Field Services, LLC	
Project: EPNG D Com #5A	
Taken by: Heather Woods	
Date: January 10, 2014	
AES Project No. 140108	Description: View of excavation area looking southeast.

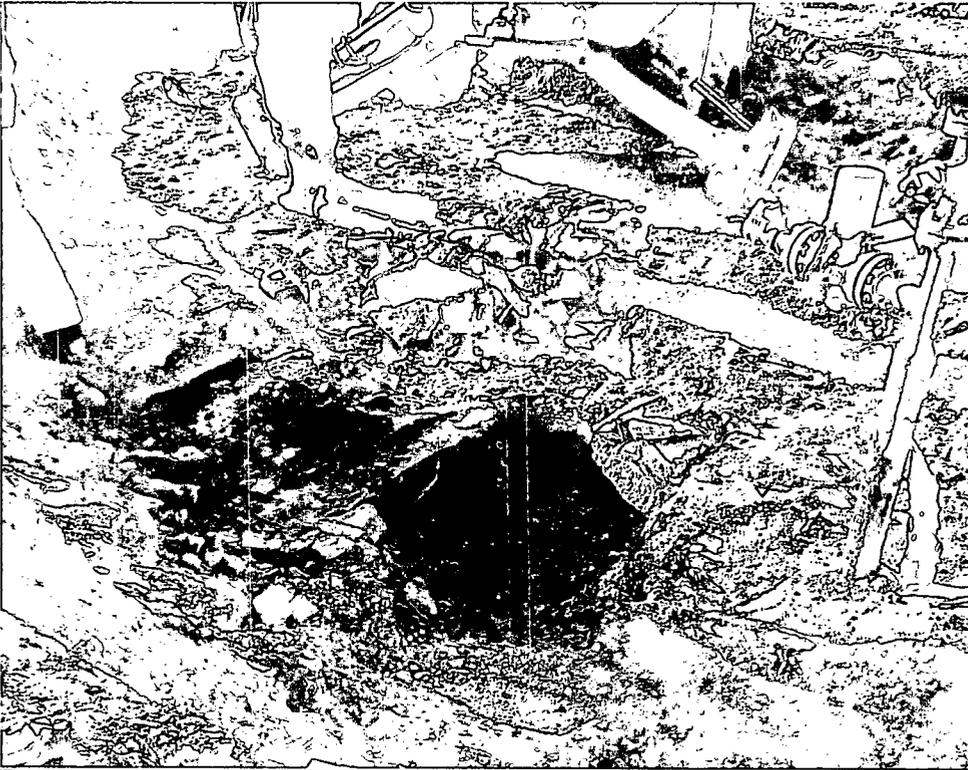
Photo #3	
Client: Enterprise Field Services, LLC	
Project: EPNG D Com #5A	
Taken by: Heather Woods	
Date: January 10, 2014	
AES Project No. 140108	Description: View of historic contamination in sandstone looking west.

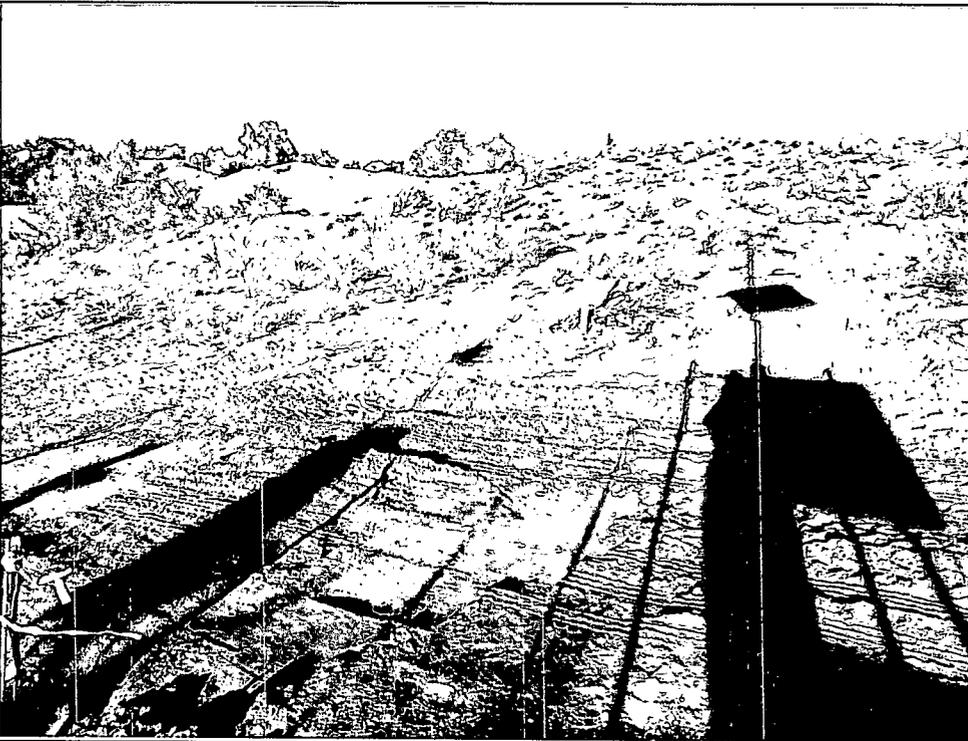
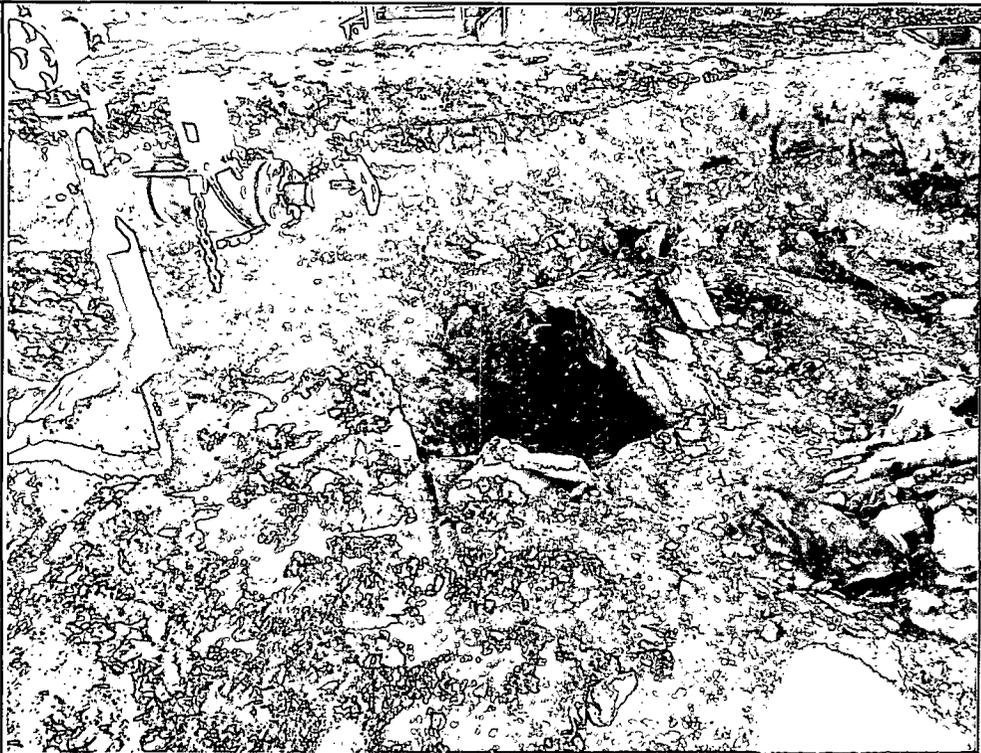
Photo #4	
Client: Enterprise Field Services, LLC	
Project: EPNG D Com #5A	
Taken by: Heather Woods	
Date: January 10, 2014	
AES Project No. 140108	Description: View of shallow excavation of misted area looking east.

Photo #5	
Client: Enterprise Field Services, LLC	
Project: EPNG D Com #5A	
Taken by: Heather Woods	
Date: January 10, 2014	
AES Project No. 140108	Description: View of historic contamination in sandstone looking south.



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)

January 21, 2014

Heather Woods  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 716-2787  
FAX

RE: Enterprise ENPG Com D #5A

OrderNo.: 1401443

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/11/2014 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. 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 qualifiers 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,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Enterprise ENPG Com D #5A

Collection Date: 1/10/2014 2:36:00 PM

Lab ID: 1401443-001

Matrix: SOIL

Received Date: 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	11	10		mg/Kg	1	1/14/2014 1:04:59 PM	11196
Surr: DNOP	98.9	66-131		%REC	1	1/14/2014 1:04:59 PM	11196
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	16	4.7		mg/Kg	1	1/15/2014 11:42:33 AM	11192
Surr: BFB	124	74.5-129		%REC	1	1/15/2014 11:42:33 AM	11192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	1/15/2014 11:42:33 AM	11192
Toluene	ND	0.047		mg/Kg	1	1/15/2014 11:42:33 AM	11192
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2014 11:42:33 AM	11192
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2014 11:42:33 AM	11192
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	1/15/2014 11:42:33 AM	11192

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:** Animas Environmental Services      **Client Sample ID:** SC-2  
**Project:** Enterprise ENPG Com D #5A      **Collection Date:** 1/10/2014 1:05:00 PM  
**Lab ID:** 1401443-002      **Matrix:** SOIL      **Received Date:** 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/14/2014 2:37:25 PM	11196
Surr: DNOP	107	66-131		%REC	1	1/14/2014 2:37:25 PM	11196
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2014 1:08:17 PM	11192
Surr: BFB	91.4	74.5-129		%REC	1	1/15/2014 1:08:17 PM	11192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	1/15/2014 1:08:17 PM	11192
Toluene	ND	0.048		mg/Kg	1	1/15/2014 1:08:17 PM	11192
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2014 1:08:17 PM	11192
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2014 1:08:17 PM	11192
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	1/15/2014 1:08:17 PM	11192

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

<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
	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:** Animas Environmental Services      **Client Sample ID:** SC-3  
**Project:** Enterprise ENPG Com D #5A      **Collection Date:** 1/10/2014 3:30:00 PM  
**Lab ID:** 1401443-003      **Matrix:** SOIL      **Received Date:** 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/14/2014 3:08:25 PM	11196
Surr: DNOP	112	66-131		%REC	1	1/14/2014 3:08:25 PM	11196
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	6.2	5.0		mg/Kg	1	1/15/2014 1:36:55 PM	11192
Surr: BFB	94.2	74.5-129		%REC	1	1/15/2014 1:36:55 PM	11192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	1/15/2014 1:36:55 PM	11192
Toluene	0.087	0.050		mg/Kg	1	1/15/2014 1:36:55 PM	11192
Ethylbenzene	ND	0.050		mg/Kg	1	1/15/2014 1:36:55 PM	11192
Xylenes, Total	0.21	0.099		mg/Kg	1	1/15/2014 1:36:55 PM	11192
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	1/15/2014 1:36:55 PM	11192

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:** Animas Environmental Services

**Client Sample ID:** SC-4

**Project:** Enterprise ENPG Com D #5A

**Collection Date:** 1/10/2014 2:30:00 PM

**Lab ID:** 1401443-004

**Matrix:** SOIL

**Received Date:** 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/14/2014 3:39:06 PM	11196
Surr: DNOP	96.3	66-131		%REC	1	1/14/2014 3:39:06 PM	11196
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2014 2:05:31 PM	11192
Surr: BFB	95.5	74.5-129		%REC	1	1/15/2014 2:05:31 PM	11192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	1/15/2014 2:05:31 PM	11192
Toluene	ND	0.047		mg/Kg	1	1/15/2014 2:05:31 PM	11192
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2014 2:05:31 PM	11192
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2014 2:05:31 PM	11192
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	1/15/2014 2:05:31 PM	11192

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

<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
	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#: 1401443  
 21-Jan-14

**Client:** Animas Environmental Services  
**Project:** Enterprise ENPG Com D #5A

Sample ID <b>MB-11196</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>11196</b>		RunNo: <b>16046</b>							
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/14/2014</b>		SeqNo: <b>462288</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	10		10.00		104	66	131			

Sample ID <b>LCS-11196</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11196</b>		RunNo: <b>16046</b>							
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/14/2014</b>		SeqNo: <b>462296</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	60.8	145			
Surr: DNOP	5.1		5.000		102	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#: 1401443  
21-Jan-14

**Client:** Animas Environmental Services  
**Project:** Enterprise ENPG Com D #5A

Sample ID: <b>MB-11192</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>11192</b>	RunNo: <b>16104</b>								
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/15/2014</b>	SeqNo: <b>463814</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	900		1000		89.8	74.5	129			

Sample ID: <b>LCS-11192</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>11192</b>	RunNo: <b>16104</b>								
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/15/2014</b>	SeqNo: <b>463815</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	74.5	126			
Surr: BFB	960		1000		96.5	74.5	129			

**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#: 1401443

21-Jan-14

**Client:** Animas Environmental Services  
**Project:** Enterprise ENPG Com D #5A

Sample ID	<b>MB-11192</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11192</b>	RunNo:	<b>16104</b>					
Prep Date:	<b>1/13/2014</b>	Analysis Date:	<b>1/15/2014</b>	SeqNo:	<b>463837</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		104	80	120			

Sample ID	<b>LCS-11192</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11192</b>	RunNo:	<b>16104</b>					
Prep Date:	<b>1/13/2014</b>	Analysis Date:	<b>1/15/2014</b>	SeqNo:	<b>463838</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	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               |
| 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 |  |

**Sample Log-In Check List**

Client Name: Animas Environmental      Work Order Number: 1401443      RcptNo: 1

Received by/date: AF 01/11/14

Logged By: Lindsay Mangin      1/11/2014 12:20:00 PM      *Lindsay Mangin*

Completed By: Lindsay Mangin      1/13/2014 8:29:40 AM      *Lindsay Mangin*

Reviewed By: TO 01/13/2014

**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	2.4	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)

January 21, 2014

Heather Woods  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 716-2787  
FAX

RE: Enterprise ENPG Com D #5A

OrderNo.: 1401444

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/11/2014 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. 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 qualifiers 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light-colored background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **1401444**

Date Reported: 1/21/2014

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Historic Composite

**Project:** Enterprise ENPG Com D #5A

**Collection Date:** 1/10/2014 3:32:00 PM

**Lab ID:** 1401444-001

**Matrix:** SOIL

**Received Date:** 1/11/2014 12:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	16	10		mg/Kg	1	1/14/2014 4:09:50 PM	11196
Surr: DNOP	102	66-131		%REC	1	1/14/2014 4:09:50 PM	11196
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	24	4.9		mg/Kg	1	1/16/2014 4:12:39 PM	11192
Surr: BFB	229	74.5-129	S	%REC	1	1/16/2014 4:12:39 PM	11192
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	1/16/2014 4:12:39 PM	11192
Toluene	ND	0.049		mg/Kg	1	1/16/2014 4:12:39 PM	11192
Ethylbenzene	0.094	0.049		mg/Kg	1	1/16/2014 4:12:39 PM	11192
Xylenes, Total	0.28	0.097		mg/Kg	1	1/16/2014 4:12:39 PM	11192
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	1/16/2014 4:12:39 PM	11192

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#: 1401444

21-Jan-14

**Client:** Animas Environmental Services  
**Project:** Enterprise ENPG Com D #5A

Sample ID <b>MB-11196</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>11196</b>	RunNo: <b>16046</b>								
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/14/2014</b>	SeqNo: <b>462288</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	10		10.00		104	66	131			

Sample ID <b>LCS-11196</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>11196</b>	RunNo: <b>16046</b>								
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/14/2014</b>	SeqNo: <b>462296</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	60.8	145			
Surr: DNOP	5.1		5.000		102	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#: 1401444

21-Jan-14

**Client:** Animas Environmental Services

**Project:** Enterprise ENPG Com D #5A

Sample ID <b>MB-11192</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>11192</b>		RunNo: <b>16104</b>							
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/15/2014</b>		SeqNo: <b>463814</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	900		1000		89.8	74.5	129			

Sample ID <b>LCS-11192</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11192</b>		RunNo: <b>16104</b>							
Prep Date: <b>1/13/2014</b>	Analysis Date: <b>1/15/2014</b>		SeqNo: <b>463815</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	74.5	126			
Surr: BFB	960		1000		96.5	74.5	129			

**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#: 1401444

21-Jan-14

**Client:** Animas Environmental Services

**Project:** Enterprise ENPG Com D #5A

Sample ID	<b>MB-11192</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>11192</b>	RunNo:	<b>16104</b>					
Prep Date:	<b>1/13/2014</b>	Analysis Date:	<b>1/15/2014</b>	SeqNo:	<b>463837</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		104	80	120			

Sample ID	<b>LCS-11192</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>11192</b>	RunNo:	<b>16104</b>					
Prep Date:	<b>1/13/2014</b>	Analysis Date:	<b>1/15/2014</b>	SeqNo:	<b>463838</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	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  
 4901 Hawkins NE  
 Albuquerque, NM 87105  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1401444

RcptNo: 1

Received by/date: AF 01/11/14

Logged By: Lindsay Mangin 1/11/2014 12:20:00 PM *Lindsay Mangin*

Completed By: Lindsay Mangin 1/13/2014 8:33:31 AM *Lindsay Mangin*

Reviewed By: JO 01/13/2014

**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 Intac	Seal No.	Seal Date	Signed By
1	2.4	Good	Yes			



District I  
162 1/2 N. Francis 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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: <b>Blanco 30-12 #100S</b>	Facility Type: Well Site – Meter Tube/Meter Run

Surface Owner: Private	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
O	10	30N	12W					San Juan

Latitude 36.8229 Longitude -108.0846

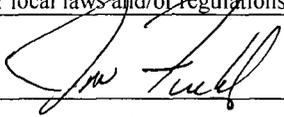
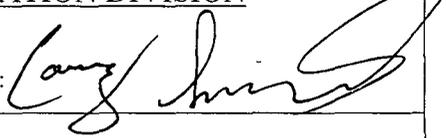
**NATURE OF RELEASE**

Type of Release: Natural gas and possible associated liquids	Volume of Release: <b>32 MCF</b>	Volume Recovered: <b>Unknown</b>
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: <b>12/14/2013 @ 6:00 p.m.</b>	Date and Hour of Discovery: <b>12/14/2013 @ 6:00 p.m.</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>OIL CONS. DIV DIST. 3</b>	
By Whom?	Date and Hour <b>MAR 11 2014</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* On 12/14/2013 a gas leak occurred on a meter run at a producer's well location. An employee of the production company shut in the meter run and stopped the leak at about 6:00 PM in which the fire department responded. They estimate the leak lasted about 1.5 hours. The production company notified the Enterprise measurement department on 12/15/2013 at approximately 8:20 AM. The gasket in the orifice flange had blown out due to liquids freezing in piping a meter tube. He replaced the gaskets and orifice plate and put the meter run back in service. Approximately 32 square feet of soil was stained from released water and condensate.

Describe Area Affected and Cleanup Action Taken.\* Approximately 32 square feet of soil was stained from released water and condensate. Approximately 3 cubic yards of hydrocarbon contaminated soil was disposed of at a NMOCD approved land farm facility. A third party corrective action report is included with this final "C-141".

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: <u>4/24/14</u>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	
Date: <u>3-3-2014</u> Phone: (713)381-6684	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

Incident # NCS 141 144 8874

18



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

February 6, 2014

Thomas Long  
Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, New Mexico 87401

Via electronic mail with delivery confirmation receipt to:  
[tjlong@eprod.com](mailto:tjlong@eprod.com)

**RE: Release Assessment Report  
Blanco 30-12 #100S Meter Run Release  
SW¼ SE¼, Section 10, T30N, R12W  
San Juan County, New Mexico**

**OIL CONS. DIV DIST. 3**

**MAR 11 2014**

Dear Mr. Long:

On December 20, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of approximately 34 Mcf of natural gas and an estimated volume of less than five barrels (bbls) pipeline liquids from the Enterprise Field Services, LLC (Enterprise) Blanco 30-12 #100S meter run. The release was discovered on December 14, 2013, and resulted from a failed orifice flange gasket due to freezing.

---

## 1.0 Site Information

### 1.1 Location

Location – SW¼ SE¼, Section 10, T30N, R12W, San Juan County, New Mexico  
Well Head Latitude/Longitude – N36.82294 and W108.08458, respectively  
Release Location Latitude/Longitude – N36.82326 and W108.08473, respectively  
Surface Owner – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the assessment. The release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** Depth to groundwater is estimated to be between 50 and 100 feet below ground surface (bgs) based on a reported depth to water of 60 and 70 feet bgs in nearby water wells (SJ 00945 and SJ 02128) registered with the Office of the State Engineer. These wells are located approximately 1,100 feet to the southwest of the release location. (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The release is located approximately 265 feet to the west of the ephemeral wash in Johnson Arroyo draining to Flora Vista Arroyo and then to Animas River. (10 points)

The ranking score of 20 dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

### *1.3 Assessment and Mitigation*

On December 20, 2013, Enterprise contractors completed an excavation of petroleum hydrocarbon impacted soils in the release area around the meter house at the location. AES provided field screening for excavation guidance and, prior to backfilling the excavation, collected two confirmation soil samples for field screening and laboratory analysis from the base of the shallow, final excavation. The final excavation was approximately 230 square feet by 0.25 to 1 foot deep and terminated on sandstone. The excavation was backfilled with clean, imported material, and the impacted soil was transported to the Industrial Ecosystems, Inc. (IEI) landfarm for proper disposal. Soil sample locations and final excavation extents are included on Figure 3. The IEI waste manifest and a photograph log are included in the Appendix.

---

## 2.0 Soil Sampling

A total of two composite soil samples (SC-1 and SC-2) were collected from the base of the final excavation during the assessment. The composite samples were field screened for volatile organic compounds (VOCs) and submitted for laboratory analysis.

### *2.1 Field Screening*

#### **2.1.1 Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

## 2.2 Laboratory Analyses

Samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- TPH (GRO/DRO) per U.S. Environmental Protection Agency (EPA) Method 8015D.

## 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 2.1 ppm in SC-1 to 2.6 ppm in SC-2. Results are included in Table 1 and on Figure 3.

Table 1. Soil Field Screening VOC Results  
 Blanco 30-12 #100S Meter Run Release Assessment, December 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>
<b>NMOCD Action Level*</b>			<b>100</b>
SC-1	12/20/13	0.25 to 1	2.1
SC-2	12/20/13	0.25 to 0.5	2.6

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analytical results showed that TPH concentrations were below the laboratory detection limit in SC-1 and SC-2. Laboratory analytical results are included in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – TPH  
 Blanco 30-12 #100S Meter Run Release Assessment, December 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>
<b>NMOCD Action Level*</b>				<b>100</b>
SC-1	12/20/13	0.25 to 1	<4.9	<10
SC-2	12/20/13	0.25 to 0.5	<4.7	<9.9

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

### 3.0 Conclusions and Recommendations

Action levels for releases determined by NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 20. Field screening of SC-1 and SC-2 showed VOC concentrations below the NMOCD action level of 100 ppm. Laboratory analytical results reported TPH concentrations below the NMOCD action level of 100 mg/kg in SC-1 and SC-2.

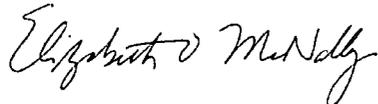
Based on field screening and laboratory results of the final excavation extents for petroleum contaminated soils, no further work is recommended for the Blanco 30-12 #100S Meter Run Release.

If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 564-2281.

Sincerely,



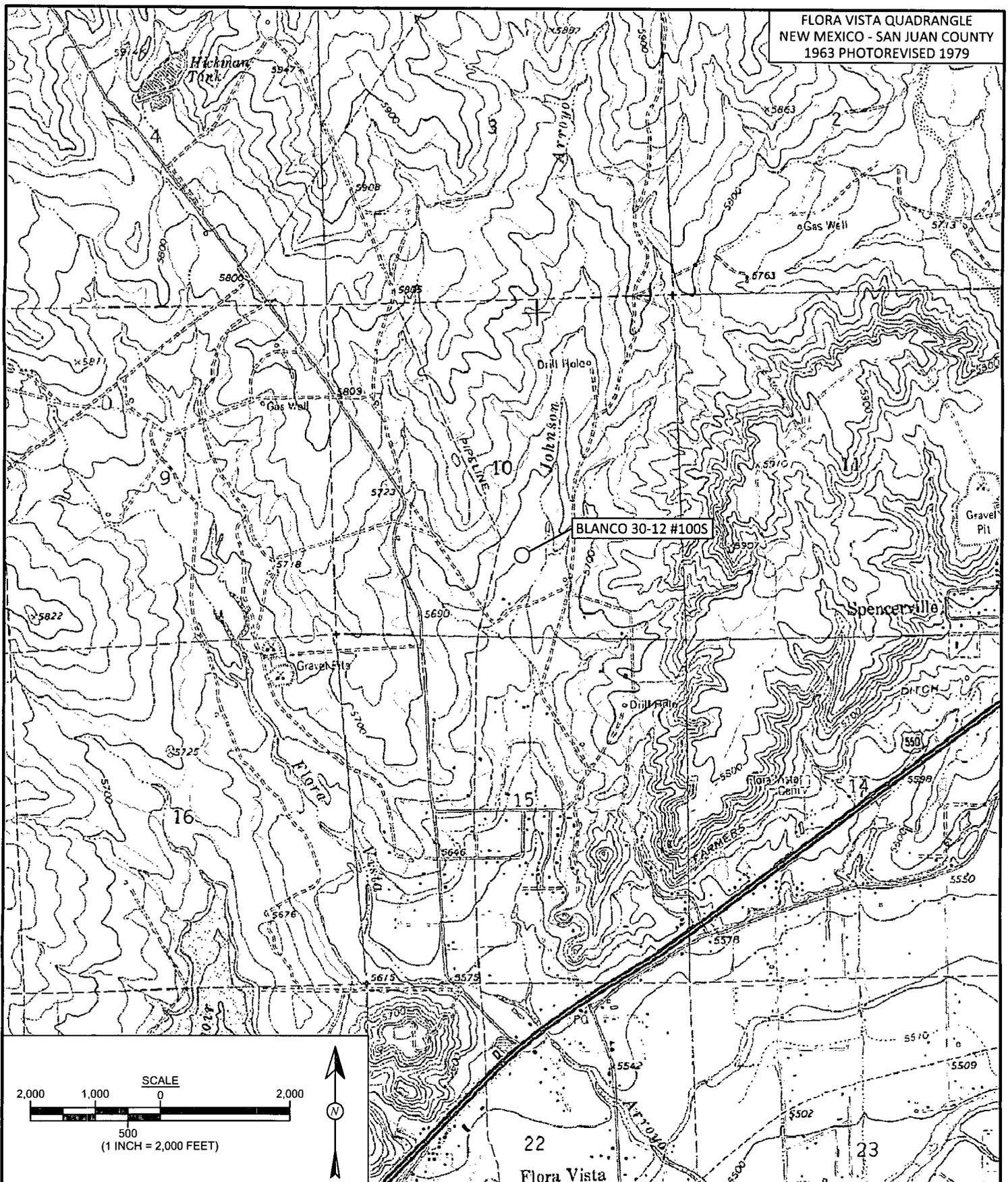
Heather Woods, P.G.  
Project Manager



Elizabeth McNally, P.E.

#### Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, December 2013
- Waste Manifest (IEI C-138)
- Photograph Log
- Laboratory Analytical Reports (Hall 1312A30)



2,000 1,000 0 2,000  
 SCALE  
 500  
 (1 INCH = 2,000 FEET)

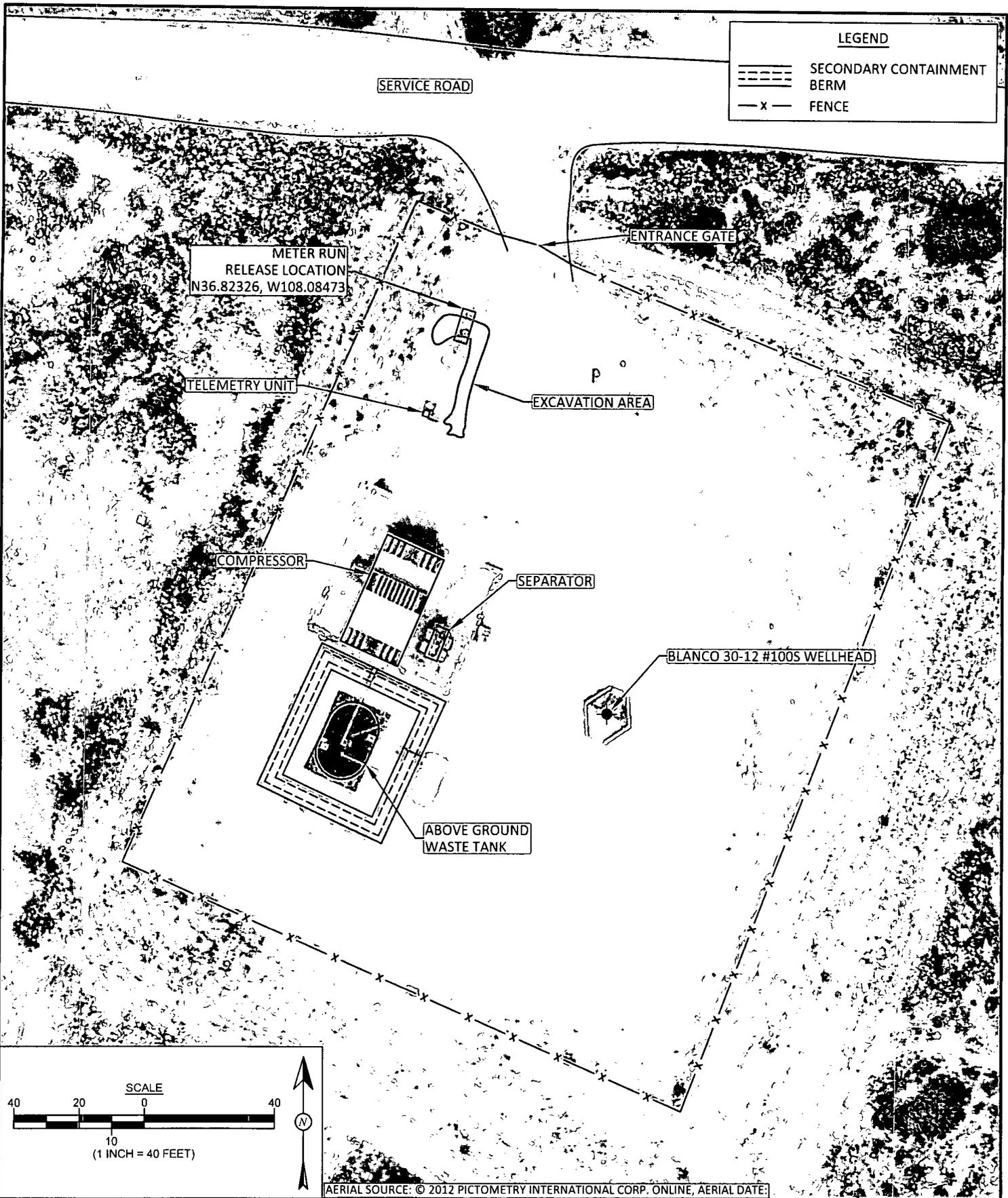


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> February 5, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 5, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> February 5, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 5, 2014

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 ENTERPRISE FIELD SERVICES, LLC  
 BLANCO 30-12 #100S  
 SW¼ SE¼, SECTION 10, T30N, R12W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.82294, W108.08458



AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE:

 <p><b>AES</b> Animas Environmental Services, LLC</p>	<p><b>DRAWN BY:</b> C. Lameman</p>	<p><b>DATE DRAWN:</b> February 5, 2014</p>	<p><b>FIGURE 2</b></p> <p><b>AERIAL SITE MAP</b>          ENTERPRISE FIELD SERVICES, LLC          BLANCO 30-12 #100S          SW¼ SE¼, SECTION 10, T30N, R12W          SAN JUAN COUNTY, NEW MEXICO          N36.82294, W108.08458</p>
	<p><b>REVISIONS BY:</b> C. Lameman</p>	<p><b>DATE REVISED:</b> February 5, 2014</p>	
	<p><b>CHECKED BY:</b> H. Woods</p>	<p><b>DATE CHECKED:</b> February 5, 2014</p>	
	<p><b>APPROVED BY:</b> E. McNally</p>	<p><b>DATE APPROVED:</b> February 5, 2014</p>	

**FIGURE 3**

**EXCAVATION SAMPLE LOCATIONS AND RESULTS  
DECEMBER 2013**  
 ENTERPRISE FIELD SERVICES, LLC  
 BLANCO 30-12 #100S  
 SW¼ SE¼, SECTION 10, T30N, R12W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.82294, W108.08458



Animas Environmental Services, LLC

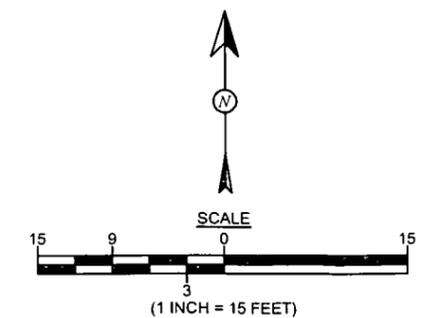
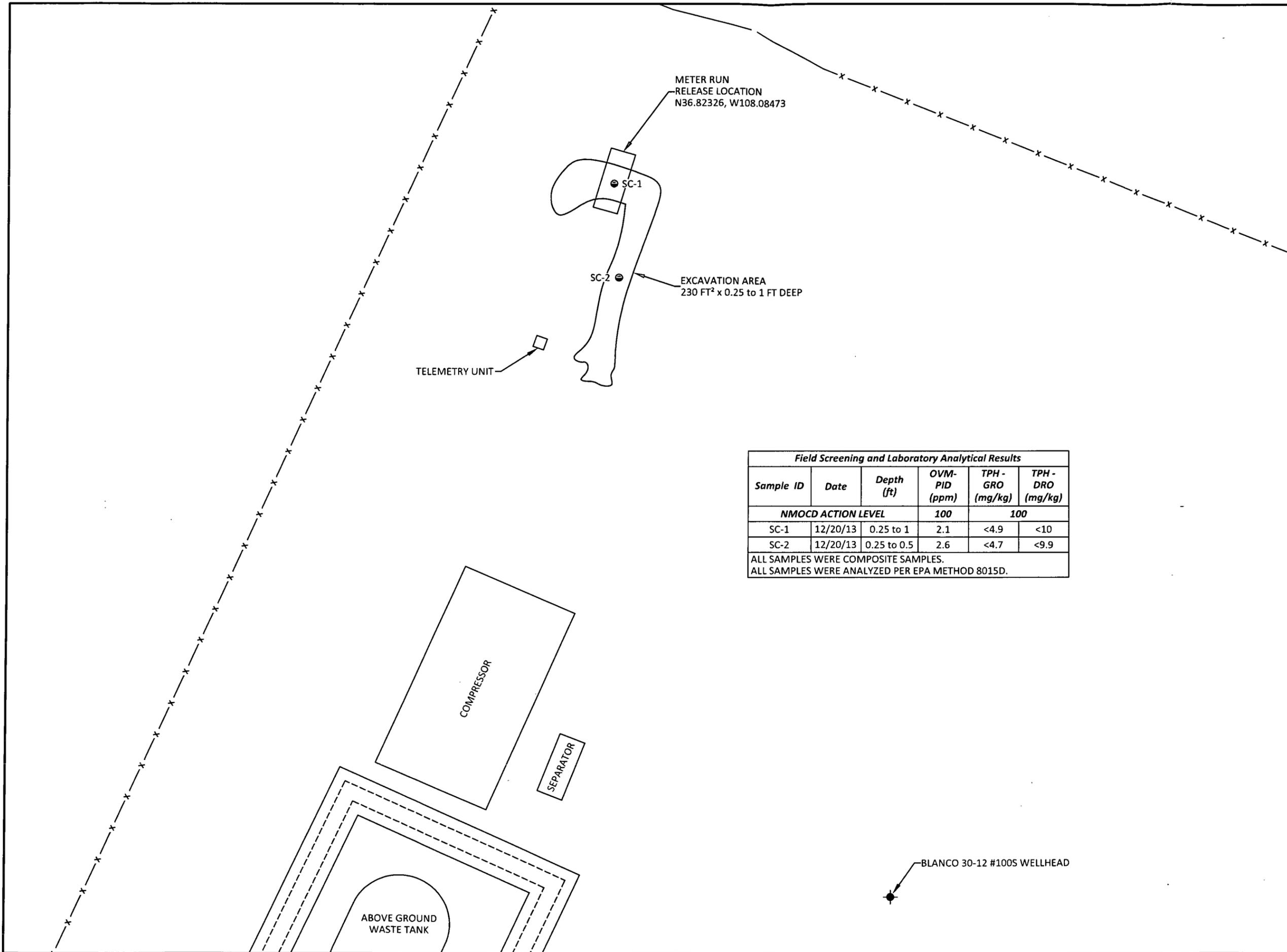
<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> February 5, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 5, 2014
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> February 5, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 5, 2014

**LEGEND**

- SAMPLE LOCATIONS
- ==== SECONDARY CONTAINMENT BERM
- x- FENCE

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>100</b>	
SC-1	12/20/13	0.25 to 1	2.1	<4.9	<10
SC-2	12/20/13	0.25 to 0.5	2.6	<4.7	<9.9

ALL SAMPLES WERE COMPOSITE SAMPLES.  
 ALL SAMPLES WERE ANALYZED PER EPA METHOD 8015D.



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  
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-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:**  
Blanco 30-12 #100S Meter Tube Leak

3. **Location of Material (Street Address, City, State or ULSTR):**  
Unit O Sec 10, T30N, R12W, San Juan County, NM; 36.8229, -108.0846

4. **Source and Description of Waste:**  
Source: Natural Gas Gathering Line  
Description: Natural Gas Liquids (Condensate and Water) released from a gathering line  
Estimated Volume 4 (yd) bbls Known Volume (to be entered by the operator at the end of the haul) 3 (yd) bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long *Thomas Long*, 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 hazard 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)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

I, Thomas Long *Thomas Long*, representative for Enterprise Products Operating authorize IEL, Inc. to complete  
the required testing/sign the Generator Waste Testing Certification.

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

5. **Transporter: To Be Determined**

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. \* Permit #: NM 01-0010B

Address of Facility: #49 CR 2150 Aztec, New Mexico

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: *L. Machado* TITLE: Land Farm Administrator DATE: 12-20-13  
SIGNATURE: *[Signature]* TELEPHONE NO.: 505-632-1782

Surface Waste Management Facility Authorized Agent

*CL-21  
Ph-8*

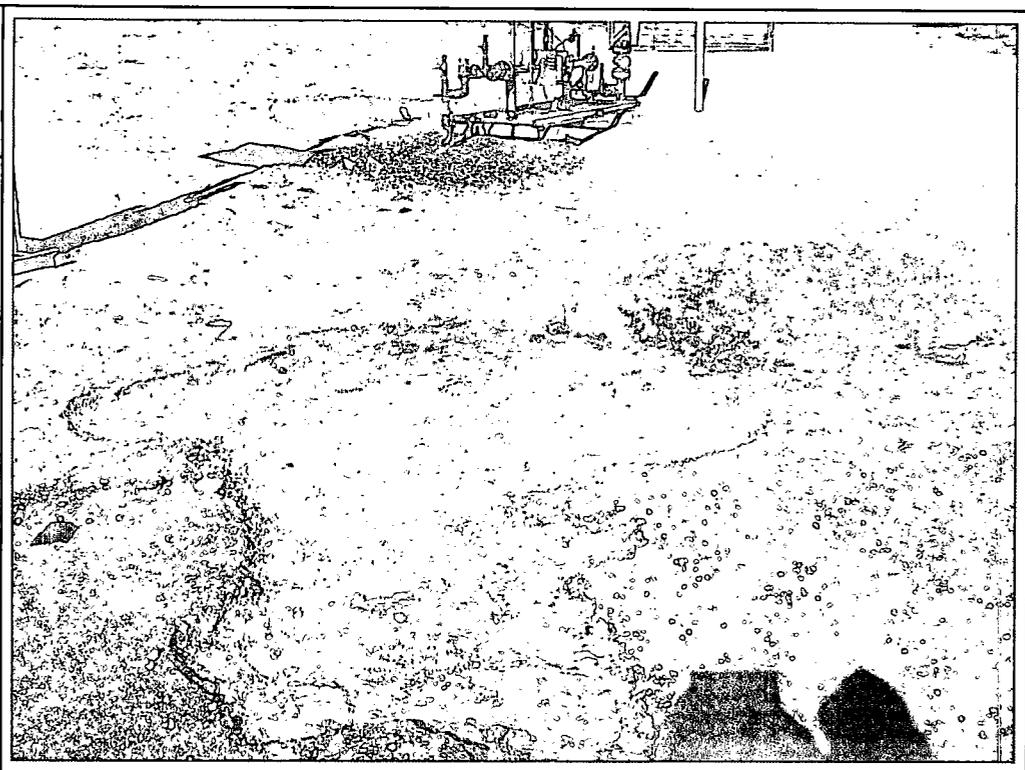
Photo #1	
Client: Enterprise Field Services, LLC	
Project: Blanco 30-12 #100S	
Taken by: Heather Woods	
Date: December 20, 2013	
AES Project No. 131230	Description: View of excavation area looking north.

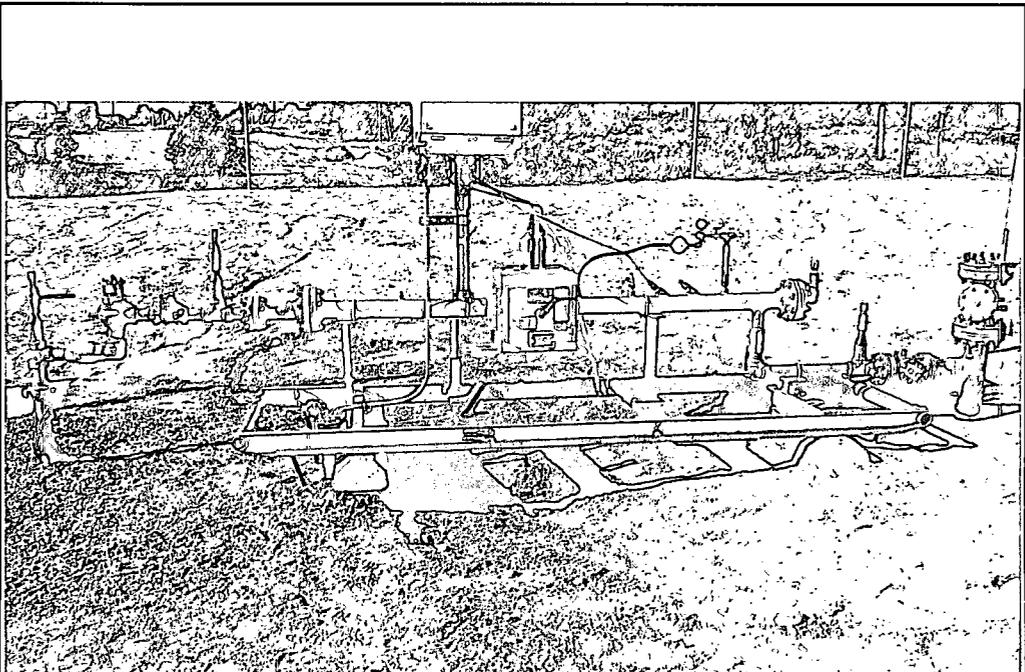
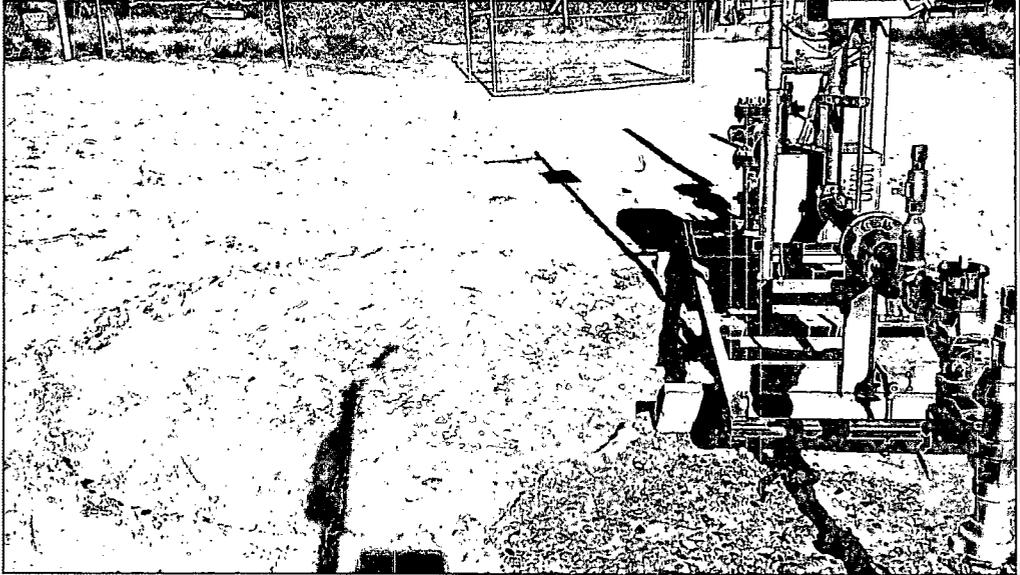
Photo #2	
Client: Enterprise Field Services, LLC	
Project: Blanco 30-12 #100S	
Taken by: Heather Woods	
Date: December 20, 2013	
AES Project No. 131230	Description: View of excavation area looking west.

Photo #3	
Client: Enterprise Field Services, LLC	
Project: Blanco 30-12 #100S	
Taken by: Heather Woods	
Date: December 20, 2013	
AES Project No. 131230	
Description: View of excavation area looking north.	



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)

January 03, 2014

Heather Woods  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 716-2787  
FAX

RE: Enterprise Blanco 30-12 #100S

OrderNo.: 1312A30

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/21/2013 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. 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 qualifiers 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,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services  
**Project:** Enterprise Blanco 30-12 #100S  
**Lab ID:** 1312A30-001

**Client Sample ID:** SC-1  
**Collection Date:** 12/20/2013 12:30:00 PM  
**Received Date:** 12/21/2013 8:20:00 AM

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/26/2013 9:41:45 AM
Surr: DNOP	99.9	66-131		%REC	1	12/26/2013 9:41:45 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/25/2013 3:27:21 AM
Surr: BFB	80.2	74.5-129		%REC	1	12/25/2013 3:27:21 AM

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

<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
	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:** Animas Environmental Services**Client Sample ID:** SC-2**Project:** Enterprise Blanco 30-12 #100S**Collection Date:** 12/20/2013 1:10:00 PM**Lab ID:** 1312A30-002**Matrix:** SOIL**Received Date:** 12/21/2013 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>						Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/25/2013 12:35:17 AM
Surr: DNOP	104	66-131		%REC	1	12/25/2013 12:35:17 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/25/2013 3:55:53 AM
Surr: BFB	81.6	74.5-129		%REC	1	12/25/2013 3:55:53 AM

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

<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
	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#: 1312A30

05-Feb-14

Client: Animas Environmental Services

Project: Enterprise Blanco 30-12 #100S

Sample ID	MB-10940	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	10940	RunNo:	15679					
Prep Date:	12/23/2013	Analysis Date:	12/24/2013	SeqNo:	452733	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	12		10.00		117	66	131			

Sample ID	LCS-10940	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	10940	RunNo:	15679					
Prep Date:	12/23/2013	Analysis Date:	12/24/2013	SeqNo:	452736	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	70	10	50.00	0	140	60.8	145			
Surr: DNOP	6.5		5.000		131	66	131			

### 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#: 1312A30

05-Feb-14

**Client:** Animas Environmental Services  
**Project:** Enterprise Blanco 30-12 #100S

Sample ID	<b>MB-10957</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>10957</b>	RunNo:	<b>15727</b>					
Prep Date:	<b>12/23/2013</b>	Analysis Date:	<b>12/24/2013</b>	SeqNo:	<b>453870</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	880		1000		87.7	74.5	129			

Sample ID	<b>LCS-10957</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>10957</b>	RunNo:	<b>15727</b>					
Prep Date:	<b>12/23/2013</b>	Analysis Date:	<b>12/24/2013</b>	SeqNo:	<b>453871</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	74.5	126			
Surr: BFB	960		1000		95.6	74.5	129			

**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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1312A30

RcptNo: 1

Received by/date: [Signature] 12/21/13

Logged By: Lindsay Mangin 12/21/2013 8:20:00 AM [Signature]

Completed By: Lindsay Mangin 12/21/2013 8:35:36 AM [Signature]

Reviewed By: [Signature] 12/23/13

**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? 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? 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:

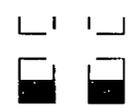
**Cooler Information**

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

Standard of Custody Record

Client: Animas Environmental Services  
 Mailing Address: 624 E. Comanche  
Farmington, NM 87401  
 Phone #: 505-564-2281  
 email or Fax#:

Standard  Rush  
 Project Name: Enterprise Blanco 30-12 #1003  
 Project #:  
 Project Manager: H. Woods



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Sampler: H. Woods  
 On Ice:  Yes  No  
 Sample Temperature: 1.0

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / <del>TPH</del> )	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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)	
<u>2/20/13</u>	<u>1230</u>	<u>Soil</u>	<u>SC-1</u>	<u>1-4oz</u>	<u>-</u>	<u>1312A30</u>													
<u>12/20/13</u>	<u>1310</u>	<u>Soil</u>	<u>SC-2</u>	<u>1-4oz</u>	<u>-</u>	<u>-002</u>			<u>X</u>										

Date: 2/20/13 Time: 1654 Relinquished by: Heather M. Woods  
 Date: 2/21/13 Time: 830 Relinquished by: Christine Walker

Received by: Christine Walker Date: 12/20/13 Time: 1654  
 Received by: [Signature] Date: 12/21/13 Time: 0820

Remarks: Bill to Enterprise Field Service  
WO: 499229

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.

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Carson Compressor Station	Facility Type: Natural Gas Compressor Station
Surface Owner: BLM	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
F	19	26N	10W					San Juan

Latitude 36.469075 Longitude -107.941489

**NATURE OF RELEASE**

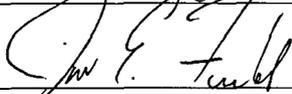
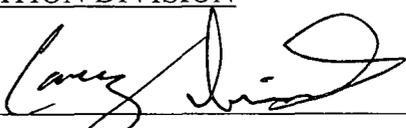
Type of Release: Natural Gas Condensate and Produced Water	Volume of Release: 9 BBLs	Volume Recovered: 9 BBLs
Source of Release: External Damage	Date and Hour of Occurrence: 2/06/2014 @ 2:30 p.m.	Date and Hour of Discovery: 2/06/2014 @ 2:30 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour.	RCVD FEB 18 '14
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. OIL CONS. DIV. DIST. 3	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken: During pigging operations at Trunk 6A receiving facility the liquid recovery tanks were checked by the operations technician and had a liquid level of two foot when the first spec truck left the facility. He began removing the pigs from the receiver and the automatic dumps from the separator continued to dump to the tanks filling both tanks at a fast rate which resulted in an over topping approximately 9 barrels of natural gas condensate and produce water. All fluids were contained inside the secondary containment with an impermeable liner. The fluids were removed from the secondary containment by use of a water truck. The fluids were then transported to the Blanco Liquid facility.

Describe Area Affected and Cleanup Action Taken.\* All fluids that were discharge form the filling tanks were contained within the secondary containment with an impermeable liner. The fluids were removed from the secondary containment by use of a water truck. The fluids were then transported to the Blanco Liquid facility.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 4/28/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-14-14	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

# NCS 141184 3264

①

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: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 2C-107	Facility Type: Natural Gas Gathering Line

Surface Owner: BLM	Mineral Owner: BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	23	25N	3W					San Juan

Latitude 36.380978 Longitude -107.117019

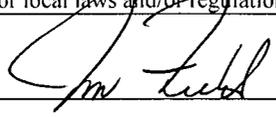
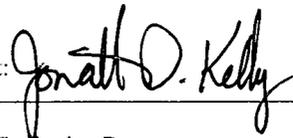
**NATURE OF RELEASE**

Type of Release: Natural gas and condensate liquids	Volume of Release: 450 mcf	Volume Recovered: To Be Determined
Source of Release: Natural gas gathering line	Date and Hour of Occurrence: 12/30/2013 @ 8:30 a.m	Date and Hour of Discovery: 12/30/2013 @ 8:30 a.m
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Thomas Long	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
Describe Cause of Problem and Remedial Action Taken.\* A third party reported a possible leak, technicians were dispatched and the line was isolated, blown down and lock out tag out (LOTO) was applied. The release was caused by internal corrosion of the pipeline.  
**RCVD JAN 16 '14  
OIL CONS. DIV.  
DIST. 3**

Describe Area Affected and Cleanup Action Taken.\*  
A third party environmental contractor assessed the release site on 1-8-14 and estimates an area of approximately 18 feet long by 9 feet wide by 5 feet deep was impacted. Remediation of the release will be scheduled when weather permits access to the site. A "final" c-141 will be submitted once remediation activities and corrective action report has been completed.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 9/4/2014	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-10-2013	Phone: (713)381-6684	

\* Attach Additional Sheets If Necessary

NJK1424756324

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  
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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**

Updated

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 Ballard Compressor Station	Facility Type Natural Gas Compressor Station

Surface Owner Private	Mineral Owner BLM	API No.
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	26N	9W					San Juan

Latitude N 36.45953

Longitude W 107.75151 (Decimal Degrees)

**NATURE OF RELEASE**

Type of Release Natural Gas Condensate	Volume of Release 4-5 Barrels	Volume Recovered 4 Barrels (estimated)
Source of Release Condensate Tank Overtopping Event	Date and Hour of Occurrence 7.2.2013 @ 07:00 hours (estimated)	Date and Hour of Discovery 7.2.2013 @ 08:00 hours

Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?
--	------------------

By Whom?	Date and Hour
----------	---------------

Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.
---	---

RCVD JAN 21 '14  
OIL CONS. DIV.  
DIST. 3

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Apparent tank overtopping was discovered at the Ballard condensate tanks on July 2, 2013. It is estimated that 4-5 barrels of condensate was released to the lined secondary containment system. Approximately 10-20 gallons of condensate was carried over in mist form and fell onto the ground within a 30 foot semi-circle to the North West of the tanks and containment system. The condensate from the secondary lined containment berm was removed within 2 hours of the discovery of the tank overtopping. Additionally, the condensate tanks were de-inventoried of condensate at this time. A malfunction of the automated liquid level indicator system was discovered as evidenced by incorrect readings relayed to the monitoring system. The liquid level monitoring system is currently being evaluated for re-design.

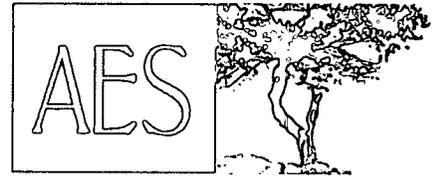
Describe Area Affected and Cleanup Action Taken.\* Third party environmental contractor assessed the release area and approximately 120 barrels of contaminated soils were hydro-excavated from within the containment area. Contaminated soils were transported to a NMOCD approved land farm facility. After assessment and excavation activities were complete, a bioremediation solution (Micro-Blaze) was applied to excavation side walls a base to remediate the residual subsurface hydrocarbon contaminants. The excavation was then backfilled with clean fill dirt. A third party corrective action and assessment report is enclosed with this "updated" c-141 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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jon Fields	Approved by Environmental Specialist:	
Title: Sr. Director, Environmental	Approval Date: 11/4/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1-15-14 Phone: (713)381-6684	Enterprise Must Return No Later than 12/4/14 to Continued Remediation	

\* Attach Additional Sheets If Necessary

# NCS 1430840639



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

December 9, 2013

Thomas Long  
Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, New Mexico 87401

*Via electronic mail with delivery confirmation receipt to:  
[tjlong@eprod.com](mailto:tjlong@eprod.com)*

**RE: Release Assessment Report  
Ballard Compressor Station Condensate Tank Release  
SE¼ NE¼, Section 26, T26N, R9W  
San Juan County, New Mexico**

RCVD JAN 21 '14  
OIL CONS. DIV.  
DIST. 3

Dear Mr. Long:

On July 3 through August 2, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of an estimated four to five barrels (bbls) of natural gas condensate and oil from the Enterprise Field Services, LLC (Enterprise) Ballard Compressor Station condensate tank. The release occurred on July 2, 2013, and was contained within the lined steel wall secondary containment, except for an estimated 10 to 20 gallons that fell as a mist onto an approximate 30 foot semi-circular area on the northwest side of the secondary containment area. The release resulted from overtopping of the western condensate tank associated with malfunction of the automated liquid level indicator system.

---

## 1.0 Site Information

### 1.1 Location

Location - SE¼ NE¼, Section 26, T26N, R9W, San Juan County, New Mexico  
Latitude/Longitude - N36.45949 and W107.75164, respectively  
Surface Owner – Private – El Paso Field Services (per San Juan County Assessor’s Map)  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map

### 1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to the initial assessment. The release was given a ranking score of **10** based on the following factors:

- **Depth to Groundwater:** Based on depth to groundwater ranging from 215 to 230 feet below ground surface (bgs) reported in private wells SJ 00063, SJ 00064, and SJ 00214 located approximately 680 feet, 890 feet and 1,200 feet, respectively, from the release location, depth to groundwater is assumed to be greater than 100 feet bgs at the release location. (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Two tributary ephemeral washes are located approximately 500 and 700 feet to the east of the release location and drain to the wash in Blanco Canyon. (10 points)

The ranking score of 10 was confirmed with Brandon Powell of NMOCD and dictates that concentrations for impacted soils left in place must be below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

### *1.3 Assessment and Mitigation*

On July 3, 2013, Heather Woods and Jesse Christopherson of AES completed the initial release assessment field work. Upon arrival, the spray-on liner inside the secondary containment was observed to be detaching from the steel wall containment and also appeared to be cut away from the two condensate tanks within the containment. A secondary poly-liner was observed beneath the two condensate tanks; however, visual verification of integration of the poly-liner with the spray-on liner was not possible. The initial assessment included the collection of soil samples from ten borings (SB-1 through SB-10) advanced diagonally inward from the outside edge of the secondary containment under the lined area inside the secondary containment berm and within the misted area. Soil borings were terminated on shallow sandy shale and sandstone. Initial assessment sample locations and results are included on Tables 1 and 2 and on Figure 3.

On July 10, 2013, Enterprise contractors removed approximately four yards of impacted soil from the misted area northwest of the containment area and stained areas along the outside edge of the steel wall containment. AES returned to the location on July 12, 2013, to collect soil samples from seven soil borings (SB-11 through SB-17) and two confirmation composite samples (SC-1 and SC-2). Soil boring SB-11 was advanced in the area created by the detachment of the spray-on liner from the steel wall containment. Soil boring SB-13 was advanced through a hole cut into the liner near the western condensate tank.

On July 24, 2013, Enterprise contractors removed the spray-on liner from the secondary containment. Staining of the soils was observed between the two tanks extending from

the north wall to the south wall of the steel wall containment, continuing eastward on the south side of the eastern tank toward the below grade tank (BGT). AES collected soil samples from two soil borings (SB-18 and SB-19) and two confirmation composite samples (SC-3 and SC-4).

On July 30 and August 2, 2013, approximately 120 barrels of impacted soils were excavated from inside the steel wall containment and along the footers of the steel wall containment on the north and west sides of the containment area using a hydro-excavation truck. Soils were removed to competent sandy shale or sandstone ranging from 0.25 to 1.25 feet bgs, except for the area immediately adjacent to the BGT, which was removed to a depth of approximately 4 to 6 feet bgs. Following excavation, AES collected four confirmation composite samples (SC-5 through SC-8). Further excavation was limited by the competent sandy shale and sandstone as well as by the facility equipment. On August 14, 2013, 500 gallons of Micro-Blaze<sup>®</sup> was applied to the excavation by Envirotech, Inc (Envirotech). The excavation was backfilled with clean fill, and impacted soil was transported to Envirotech Landfarm for proper disposal. Continued assessment soil sample locations and results are included on Tables 1 and 2 and on Figure 4. A photograph log and bills of lading are included in the Appendix.

---

## 2.0 Soil Sampling

A total of 34 soil samples were collected from 19 soil borings (SB-1 through SB-19), and 8 confirmation composite samples (SC-1 through SC-8) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for TPH. Seven samples collected from soil borings SB-4, SB-5, SB-8, SB-11, and SB-13 and six samples (SC-1, SC-2 and SC-5 through SC-8) from the final excavation were submitted for confirmation laboratory analysis.

### 2.1 Field Screening

#### 2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

#### 2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 Laboratory Analyses

Soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- TPH as GRO, DRO, and motor oil range organics (MRO) per U.S. Environmental Protection Agency (USEPA) Method 8015D.

Samples SB-4, SB-5, and SB-8 were also analyzed for:

- BTEX per USEPA Method 8021B.

## 2.3 Field Screening and Laboratory Analytical Results

Release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in several samples up to 1,497 ppm in SB-4. Field TPH concentrations ranged from 66.2 mg/kg in SB-16 to greater than 5,000 mg/kg in several samples. Results are included in Table 1 and on Figures 3 and 4.

Laboratory analytical results were used to confirm field screening results during the assessment and excavation activities. Benzene concentrations were reported below the laboratory detection limit in the four samples analyzed (SB-4 at 0.5 and 3.5 feet, SB-5, and SB-8). Total BTEX concentrations ranged from less than 0.23 mg/kg in SB-4 at 3.5 feet up to 15 mg/kg in SB-4 at 0.5 feet. TPH concentrations as GRO/DRO/MRO ranged from below laboratory detection limits in SC-1 and SC-2 up to 12,690 mg/kg in SC-6. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

---

## 3.0 Conclusions and Recommendations

On July 3 through August 2, 2013, AES conducted an assessment associated with a release of natural gas condensate and oil from the Ballard Compressor Station condensate tank. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Based on visual observations of detachment of the spray-on liner from the steel wall containment and no visual confirmation of the integration of the poly-liner to the spray-on liner beneath the two condensate tanks, soil borings were advanced diagonally

inward from outside the steel wall containment to confirm possible soil impacts below the liner. Soil borings were also advanced within the misted area outside the steel wall containment and stained areas along the steel wall footers to assess the depth of impacted soils.

Field screening results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in SB-4, SB-5, and SB-8 from the initial assessment on July 3, 2013. Following impacted soil removal from the misted area northwest of the containment area on July 10, 2013, field screening of confirmation composite samples SC-1 and SC-2 showed VOCs below the NMOCD action level, and laboratory analytical results showed TPH concentrations below the 1,000 mg/kg action level for both samples. Additional soil borings inside the steel wall containment areas (SB-11 and SB-13) indicated possible impact to the soil beneath the spray-on liner.

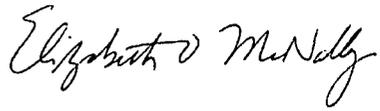
Removal of the spray-on liner on July 24, 2013, confirmed impact to the soils beneath the liner. Impacted soils were removed using a hydro-excavator to competent sandy shale and sandstone in the impacted areas between the two condensate tanks (south of the eastern tank toward the BGT) and along the steel wall footers on the north and west sides of the steel containment. Soil samples (SC-5 through SC-8) from the final excavation were collected, and field screening results above the NMOCD action level of 100 ppm were reported in SC-5 (247 ppm), SC-6 (119 ppm), and SC-8 (153 ppm). Additionally, laboratory analytical results reported TPH as GRO/DRO/MRO concentrations exceeding the NMOCD action level of 1,000 mg/kg in SC-5 through SC-8, with the highest concentration of 12,690 mg/kg in SC-6. Further excavation was limited by the competent sandy shale and sandstone as well as by the presence of facility equipment. On August 14, 2013, 500 gallons of Micro-Blaze® was applied to the excavation by Envirotech prior to backfill with clean, imported fill.

Based on the field screening and laboratory analytical results for VOCs, TPH, benzene, and total BTEX, further action is recommended for the Ballard Compressor Station condensate tank release location during future facility reset or closure operations, when access to residual petroleum hydrocarbon impacted soils is possible. If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 564-2281.

Sincerely,



Heather M. Woods, P.G.  
Project Manager



Elizabeth McNally, P.E.

Attachments:

**Tables**

- Table 1. Summary of Field Screening Results
- Table 2. Summary of Laboratory Analytical Results

**Figures**

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Initial Release Assessment Sample Locations and Results, July 2013
- Figure 4. Continued Assessment Sample Locations and Results, July and August 2013

**Appendices**

- Appendix A. Photograph Log
- Appendix B. Bills of Lading (Envirotech 44071, 44122, 44263, 44313, and 44339)
- Appendix C. Laboratory Analytical Reports (Hall 1307218, 1307611, and 1308128)

R:\Animas 2000\Dropbox\2013 Projects\Enterprise\Ballard Condensate Tank\Ballard Compressor Station Tanks Initial Release Assessment and Final Excavation Report 120913.docx

TABLE 1: SUMMARY OF FIELD SCREENING RESULTS  
 Enterprise Field Services, LLC Ballard Compressor Station Condensate Tank Release  
 San Juan County, New Mexico

Sample ID	Date Sampled	Depth (ft)	OVM - PID (ppm)	Field TPH (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
<b>Sample Method</b>			--	<b>EPA Method 418.1</b>					
<b>NMOCD Action Level</b>			<b>100</b>	<b>1,000</b>					
SB-1	3-Jul-13	0.5	15.5	Not Analyzed for TPH					
SB-2	3-Jul-13	1	4.7	Not Analyzed for TPH					
SB-3	3-Jul-13	1	24.5	Not Analyzed for TPH					
SB-4	3-Jul-13	0.5	<b>1,497</b>	Not Analyzed for TPH					
		1.5	24.9	Not Analyzed for TPH					
		3	4.7	Not Analyzed for TPH					
		3.5	<b>134</b>	Not Analyzed for TPH					
SB-5	3-Jul-13	0.5	<b>433</b>	Not Analyzed for TPH					
		1.5	7.5	Not Analyzed for TPH					
		3	3.5	Not Analyzed for TPH					
SB-6	3-Jul-13	1	5.5	Not Analyzed for TPH					
		2.5	5.0	Not Analyzed for TPH					
SB-7	3-Jul-13	0.5	2.1	Not Analyzed for TPH					
SB-8	3-Jul-13	Surface	<b>474</b>	Not Analyzed for TPH					
		0.5	<b>349</b>	Not Analyzed for TPH					
SB-9	3-Jul-13	0.5	51.3	Not Analyzed for TPH					
SB-10	3-Jul-13	0.5	17.3	Not Analyzed for TPH					
SB-11	12-Jul-13	1	0.1	558	10:53	20.0	1	KC	
		2	0.0	91.8	12:04	20.0	1	KC	
SB-12	12-Jul-13	1	64.5	<b>1,250</b>	10:55	20.0	1	KC	
		2	0.5	86.1	12:09	20.0	1	KC	
SB-13	12-Jul-13	1	1.1	311	10:57	20.0	1	KC	
		2	0.0	120	12:11	20.0	1	KC	
		3	0.0	Not Analyzed for TPH					
SB-14	12-Jul-13	1	<b>1,340</b>	<b>&gt;2,500</b>	10:59	20.0	1	KC	
		2	14.2	Not Analyzed for TPH					
		4	0.0	80.4	12:07	20.0	1	KC	
SB-15	12-Jul-13	1	2.5	94.7	11:22	20.0	1	HW	
SB-16	12-Jul-13	1	1.4	66.2	11:24	20.0	1	HW	
SB-17	12-Jul-13	1	0.3	115	11:19	20.0	1	HW	
SB-18	24-Jul-13	0.25	<b>260</b>	<b>&gt;5,000</b>	15:01	40.0	1	HW	
		0.75	<b>110</b>	<b>5,040</b>	15:36	40.0	1	HW	
SB-19	24-Jul-13	0.5	<b>335</b>	<b>&gt;5,000</b>	15:05	40.0	1	HW	
		1.5	<b>215</b>	<b>&gt;5,000</b>	15:39	40.0	1	HW	

TABLE 1: SUMMARY OF FIELD SCREENING RESULTS  
 Enterprise Field Services, LLC Ballard Compressor Station Condensate Tank Release  
 San Juan County, New Mexico

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Depth (ft)</b>	<b>OVM - PID (ppm)</b>	<b>Field TPH (mg/kg)</b>	<b>Field TPH Analysis Time</b>	<b>TPH PQL (mg/kg)</b>	<b>DF</b>	<b>TPH Analysts Initials</b>
<b>Sample Method</b>			--	<b>EPA Method 418.1</b>				
<b>NMOCD Action Level</b>			<b>100</b>	<b>1,000</b>				
SC-1	12-Jul-13	0 to 0.5	0.0	166	12:15	20.0	1	KC
SC-2	12-Jul-13	0 to 0.5	0.0	107	12:17	20.0	1	KC
SC-3	24-Jul-13	0.25	<b>285</b>	<b>&gt;5,000</b>	15:39	40.0	1	HW
SC-4	24-Jul-13	0.25	<b>164</b>	<b>&gt;5,000</b>	15:41	40.0	1	HW
SC-5	2-Aug-13	1 to 6	<b>247</b>	<i>Not Analyzed for TPH</i>				
SC-6	2-Aug-13	0.5 to 1.25	<b>119</b>	<i>Not Analyzed for TPH</i>				
SC-7	2-Aug-13	0.25 to 0.75	92.1	<i>Not Analyzed for TPH</i>				
SC-8	2-Aug-13	0.25 to 0.5	<b>153</b>	<i>Not Analyzed for TPH</i>				

Notes: DF - Dilution factor  
 PQL - Not detected at the reporting limit  
 > - Analyte detected above the listed method limit

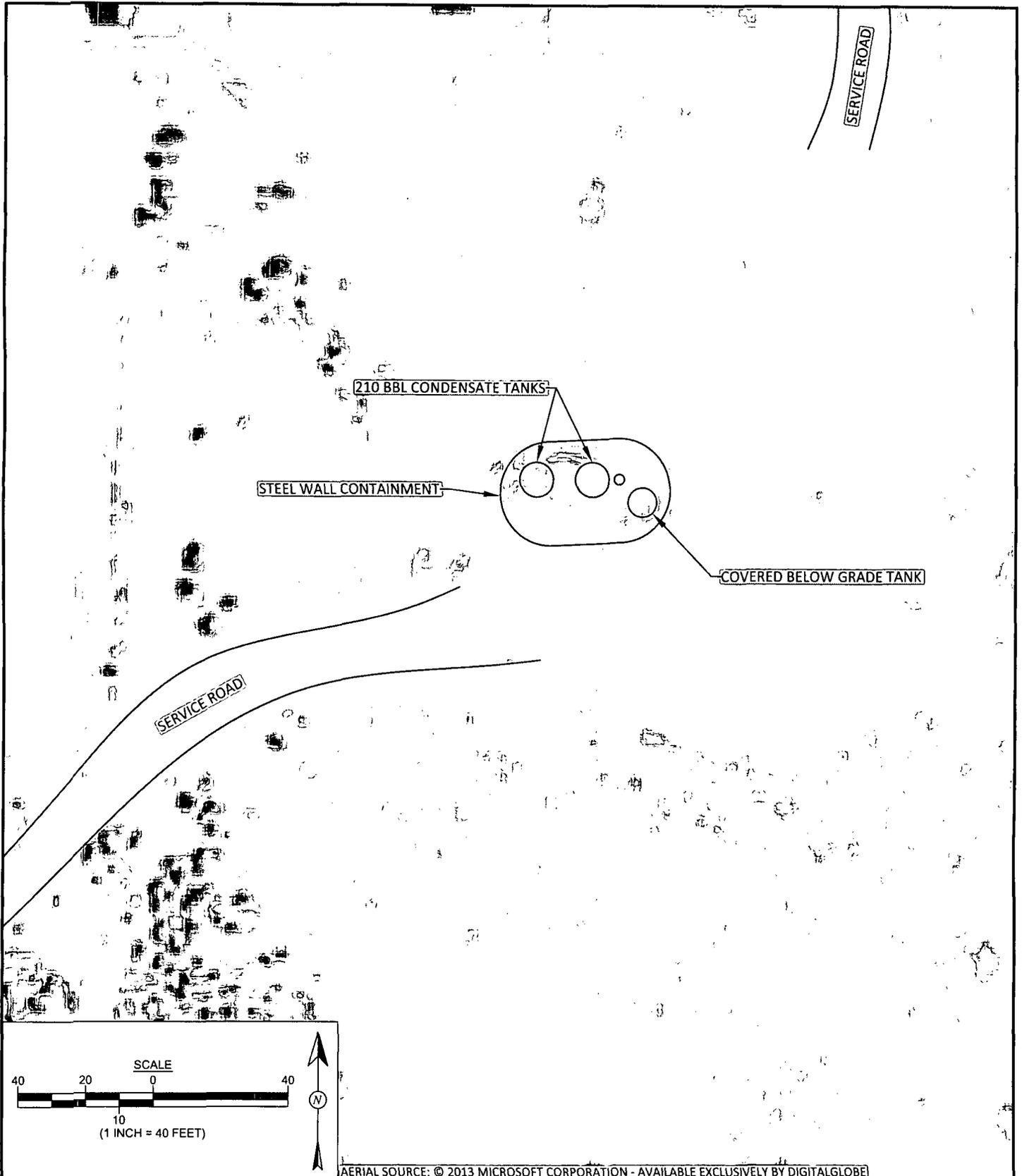
Analysts:  
*Heather M Woods*  
*Kelany Christman*

TABLE 2: SUMMARY OF LABORATORY ANALYTICAL RESULTS  
 Enterprise Field Services, LLC Ballard Compressor Station Condensate Tank Release  
 San Juan County, New Mexico

Sample ID	Date Sampled	Depth (ft)	Benzene	Total BTEX	TPH - GRO	TPH - DRO	TPH - MRO
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Method			EPA Method 8021B		EPA Method 8015D		
NMOCD Action Level			10	50	1,000		
SB-4	3-Jul-13	0.5	<0.48	15	880	4,000	2,400
		3.5	<0.046	<0.23	6.1	69	61
SB-5	3-Jul-13	0.5	<0.048	0.5	84	530	590
SB-8	3-Jul-13	0.5	<0.24	1.0	130	1,800	1,400
SB-11	12-Jul-13	1	NA	NA	<4.6	15	57
SB-13	12-Jul-13	1	NA	NA	<4.6	<10	130
		2	NA	NA	<4.8	<9.9	86
SC-1	12-Jul-13	0 to 0.5	NA	NA	<4.8	<10	<50
SC-2	12-Jul-13	0 to 0.5	NA	NA	<4.8	<10	<50
SC-5	2-Aug-13	1 to 6	NA	NA	800	3,400	1,600
SC-6	2-Aug-13	0.5 to 1.25	NA	NA	790	8,000	3,900
SC-7	2-Aug-13	0.25 to 0.75	NA	NA	1,200	6,900	3,300
SC-8	2-Aug-13	0.25 to 0.5	NA	NA	600	2,600	1,600

Notes: NA - Not Analyzed  
 < - Analyte not detected above the listed method limit





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Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> July 15, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> July 15, 2013
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> July 15, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> July 15, 2013

## FIGURE 2

**AERIAL SITE MAP**  
 ENTERPRISE FIELD SERVICES, LLC  
 BALLARD COMPRESSOR STATION  
 CONDENSATE TANK RELEASE  
 SE¼ NE¼, SECTION 26, T26N, R9W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.45949, W107.75164

**FIGURE 3**

**INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS**  
**JULY 2013**

ENTERPRISE FIELD SERVICES, LLC  
 BALLARD COMPRESSOR STATION  
 CONDENSATE TANK RELEASE  
 SE¼ NE¼, SECTION 26, T26N, R9W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.45949, W107.75164



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> July 15, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> July 15, 2013
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> July 15, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> July 15, 2013

**LEGEND**

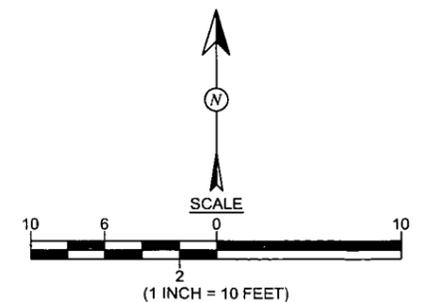
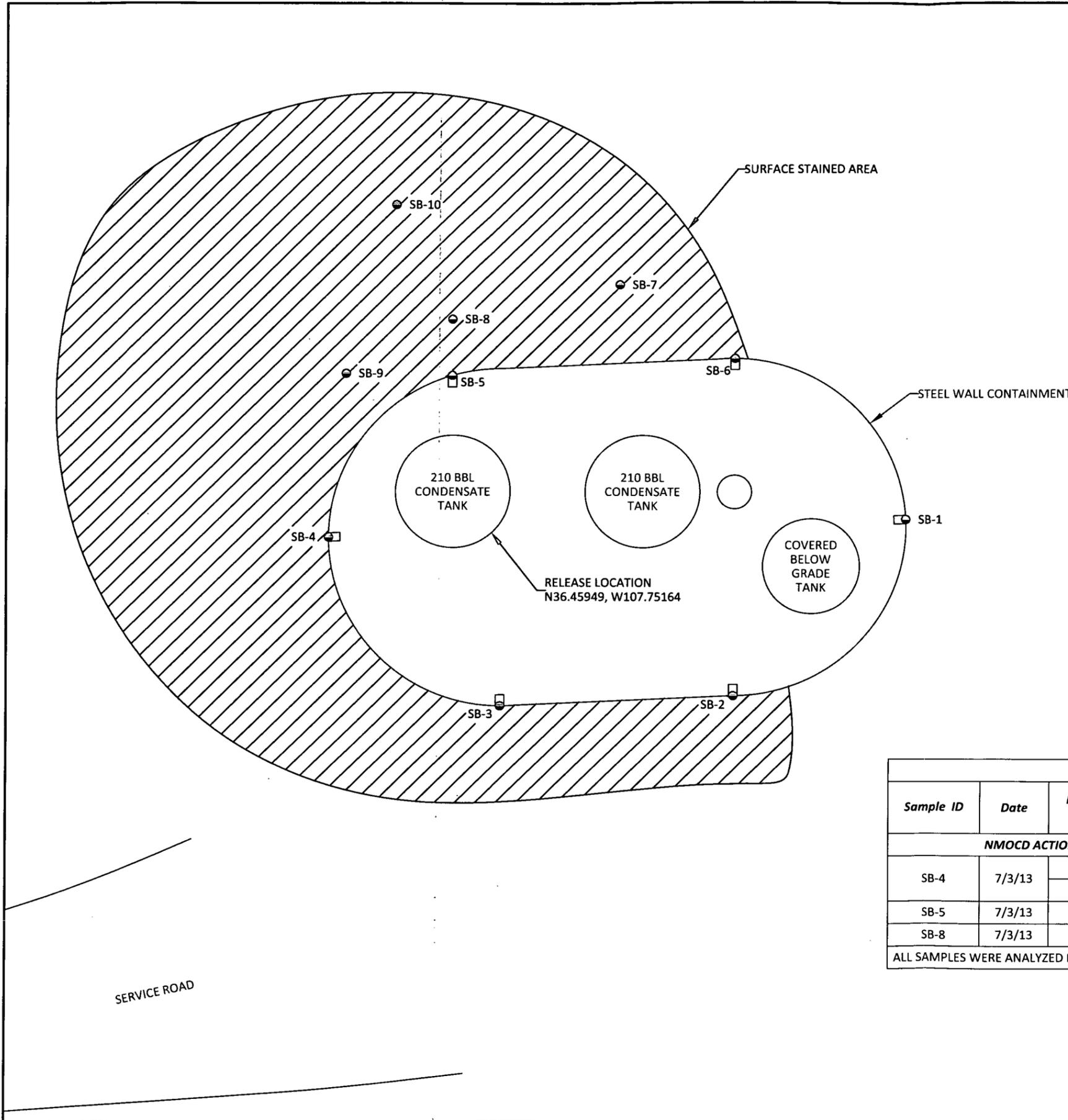
● SAMPLE LOCATIONS

Field Screening Results			
Sample ID	Date	Depth (ft)	OVM-PID (ppm)
<b>NMOC ACTION LEVEL</b>			<b>1,000</b>
SB-1	7/3/13	0.5	15.5
SB-2	7/3/13	1	4.7
SB-3	7/3/13	1	24.5
SB-4	7/3/13	0.5	1,497
		1.5	24.9
		3	4.7
		3.5	134
SB-5	7/3/13	0.5	433
		1.5	7.5
		3	3.5
SB-6	7/3/13	1	5.5
		2.5	5.0
SB-7	7/3/13	0.5	2.1
SB-8	7/3/13	Surface	474
		0.5	349
SB-9	7/3/13	0.5	51.3
SB-10	7/3/13	0.5	17.3

SB-1 THROUGH SB-6 WERE ANGLED SOIL BORINGS.

Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>1,000</b>		
SB-4	7/3/13	0.5	<0.48	15	880	4,000	2,400
		3.5	<0.046	<0.23	6.1	69	61
SB-5	7/3/13	0.5	<0.048	0.50	84	530	590
SB-8	7/3/13	0.5	<0.24	1.0	130	1,800	1,400

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.



**FIGURE 4**

**CONTINUED ASSESSMENT SAMPLE LOCATIONS AND RESULTS**  
**JULY AND AUGUST 2013**  
 ENTERPRISE FIELD SERVICES, LLC  
 BALLARD COMPRESSOR STATION  
 CONDENSATE TANK RELEASE  
 SE¼ NE¼, SECTION 26, T26N, R9W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.45949, W107.75164

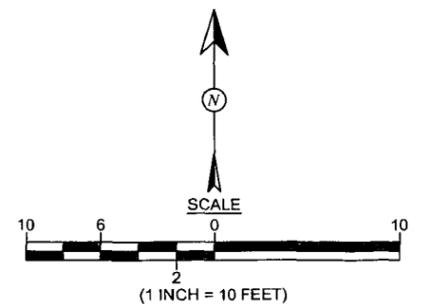


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> July 15, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> July 15, 2013
<b>CHECKED BY:</b> H. Woods	<b>DATE CHECKED:</b> July 15, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> July 15, 2013

**LEGEND**

- SAMPLE LOCATIONS
- ▨ EXCAVATION AREAS



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>1,000</b>
SB-11	7/12/13	1	0.1	558
		2	0.0	91.8
SB-12	7/12/13	1	64.5	<b>1,250</b>
		2	0.5	86.1
SB-13	7/12/13	1	1.1	311
		2	0.0	120
		3	0.0	NA
SB-14	7/12/13	1	<b>1,340</b>	<b>&gt;2,500</b>
		2	14.2	NA
		4	0.0	80.4
SB-15	7/12/13	1	2.5	94.7
SB-16	7/12/13	1	1.4	66.2
SB-17	7/12/13	1	0.3	115
SB-18	7/24/13	0.25	<b>260</b>	<b>&gt;5,000</b>
		0.75	<b>110</b>	<b>5,040</b>
SB-19	7/24/13	0.5	<b>335</b>	<b>&gt;5,000</b>
		1.5	<b>215</b>	<b>&gt;5,000</b>
SC-1	7/12/13	0 to 0.5	0.0	166
SC-2	7/12/13	0 to 0.5	0.0	107
SC-3	7/24/13	0.25	<b>285</b>	<b>&gt;5,000</b>
SC-4	7/24/13	0.25	<b>164</b>	<b>&gt;5,000</b>
SC-5	8/2/13	1 to 6	<b>247</b>	NA
SC-6	8/2/13	0.5 to 1.25	<b>119</b>	NA
SC-7	8/2/13	0.25 to 0.75	92.1	NA
SC-8	8/2/13	0.25 to 0.5	<b>153</b>	NA

SC-1 AND SC-2 ARE 10-POINT COMPOSITES. SC-3 THROUGH SC-8 ARE 5-POINT COMPOSITES. SC-5 THROUGH SC-7, SB-18, AND SB-19 WERE TERMINATED ON SANDY SHALE. NA - NOT ANALYZED

Laboratory Analytical Results					
Sample ID	Date	Depth (ft)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>1,000</b>		
SB-11	7/12/13	1	<4.6	15	57
SB-13	7/12/13	1	<4.6	<10	130
		2	<4.8	<9.9	86
SC-1	7/12/13	0 to 0.5	<4.8	<10	<50
SC-2	7/12/13	0 to 0.5	<4.8	<10	<50
SC-5	8/2/13	1 to 6	<b>800</b>	<b>3,400</b>	<b>1,600</b>
SC-6	8/2/13	0.5 to 1.25	<b>790</b>	<b>8,000</b>	<b>3,900</b>
SC-7	8/2/13	0.25 to 0.75	<b>1,200</b>	<b>6,900</b>	<b>3,300</b>
SC-8	8/2/13	0.25 to 0.5	<b>600</b>	<b>2,600</b>	<b>1,600</b>

ALL SAMPLES WERE ANALYZED PER EPA 8015D.

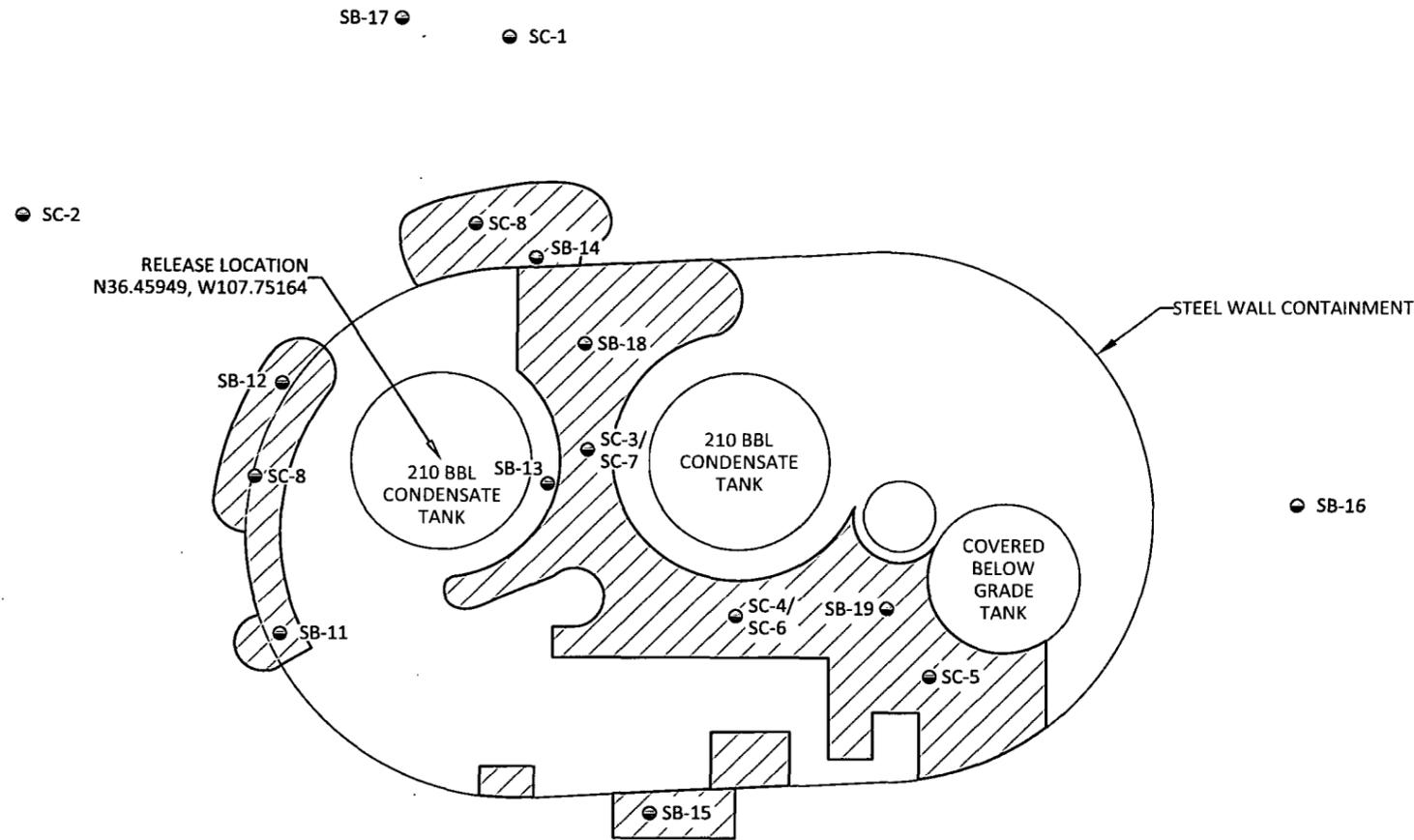


Photo #01

Date: 7/3/2013 11:34 AM



Description: View of soil boring SB-3 showing method used to diagonally advance soil borings from the edge of the steel wall containment inwards under the spray on liner.

Photo #02

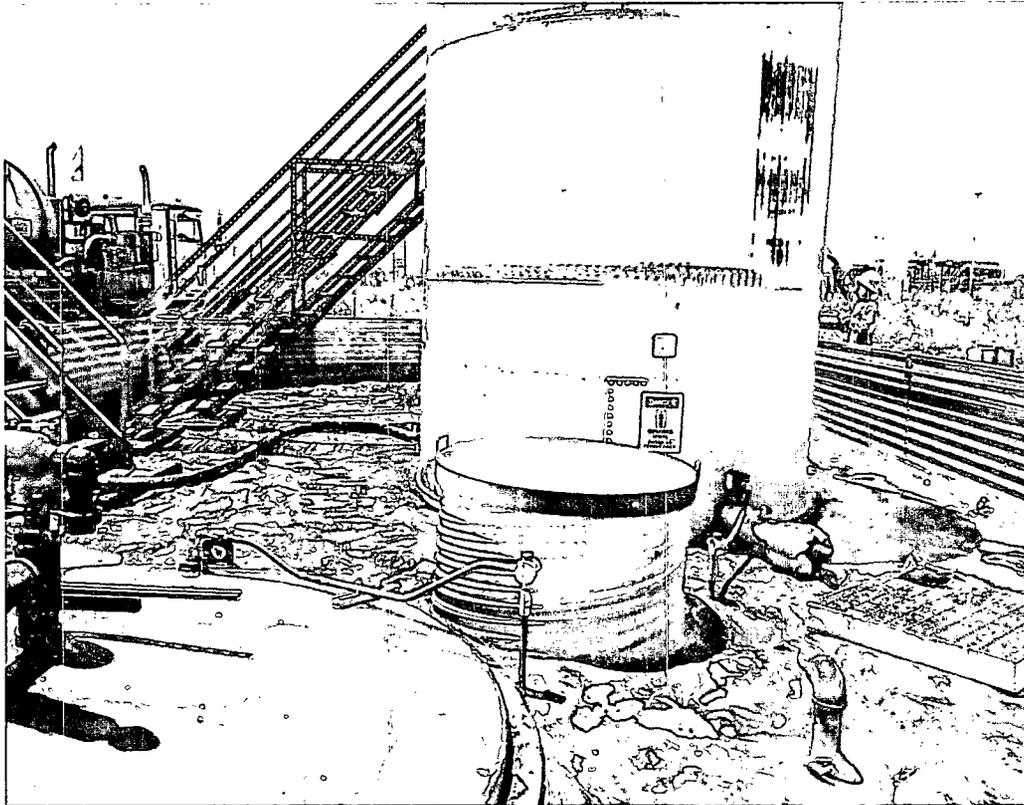
Date: 7/3/2013 12:51 PM



Description: View looking west of misted area outside of the steel wall containment.

Photo #03

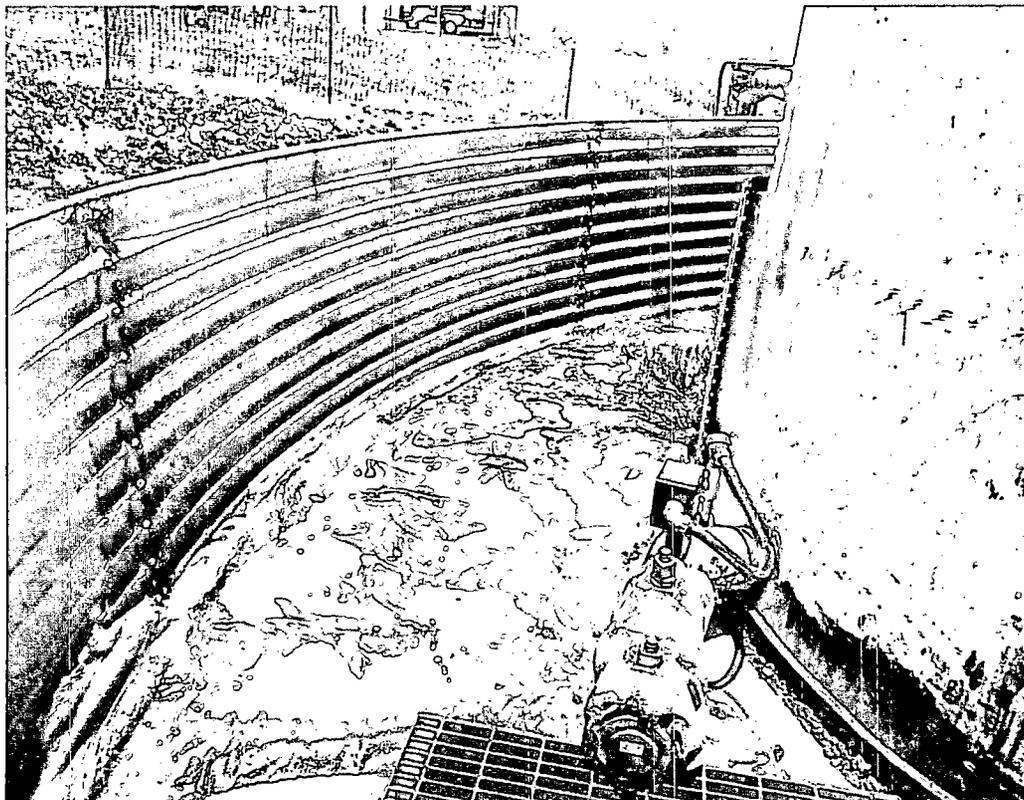
Date: 7/3/2013 1:24 PM



Description: View looking west inside the containment area following wash down of tank and liner.

Photo #04

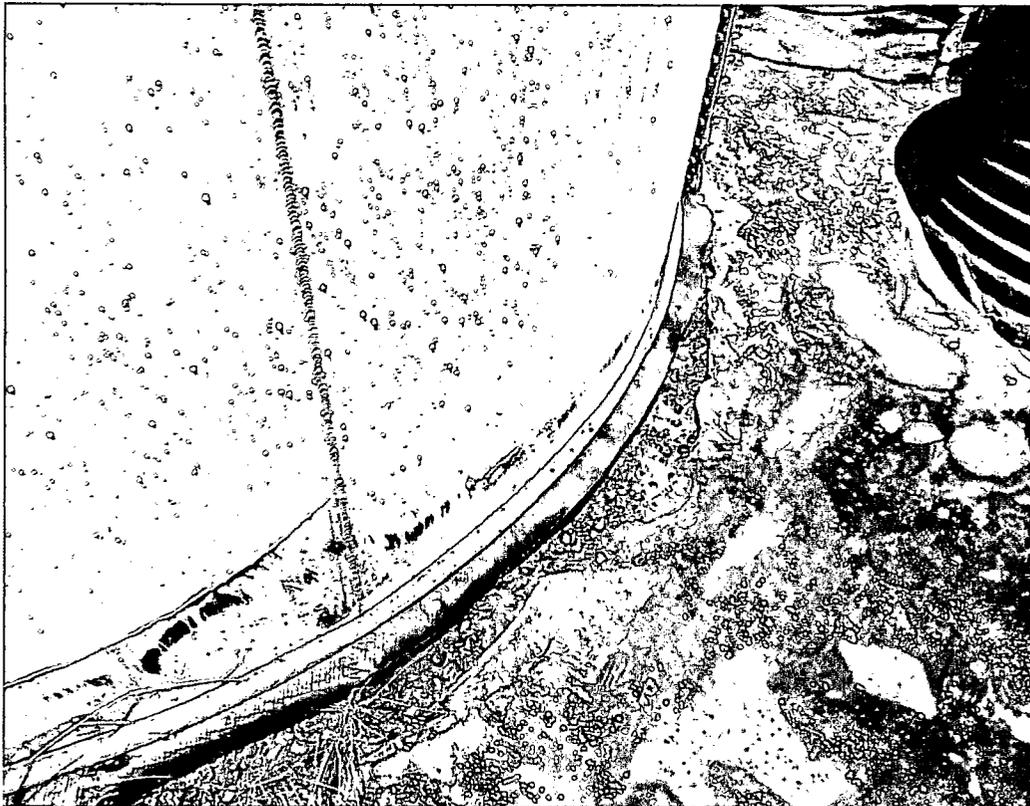
Date: 7/3/2013 1:26 PM



Description: View looking north of west tank and liner.

Photo #05

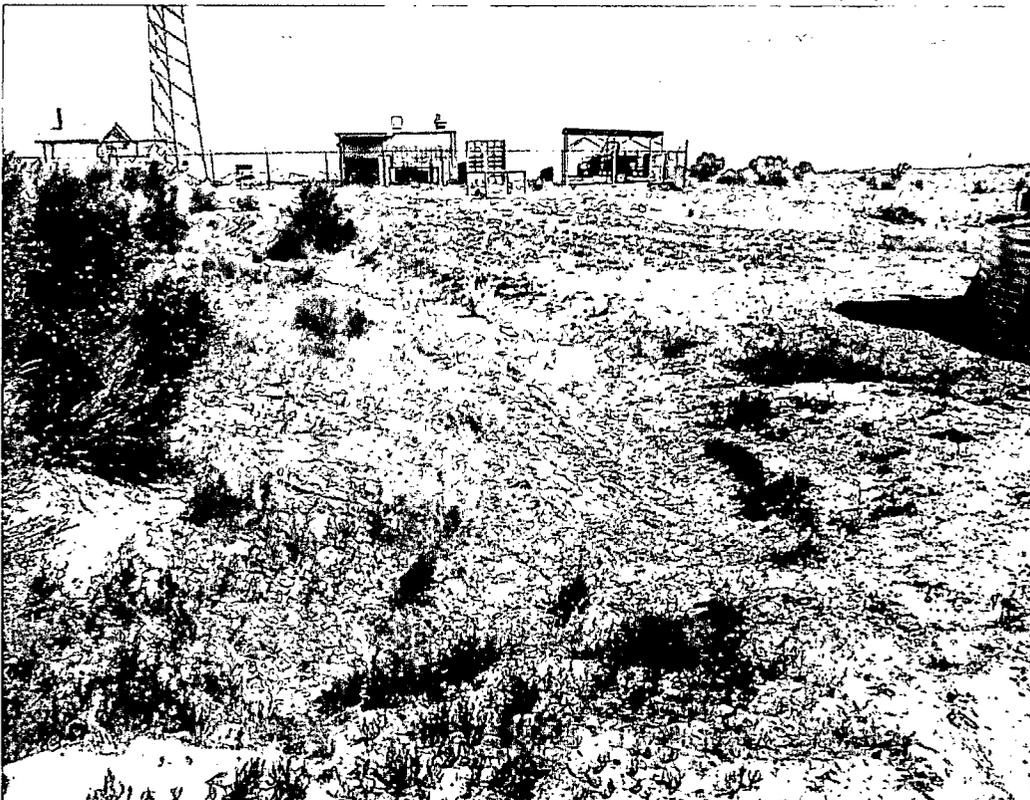
Date: 7/3/2013 1:26 PM



Description: Example of spray on liner near the condensate tanks. Poly-liner is located beneath gravel layer under the tanks.

Photo #06

Date: 7/12/2013 11:10 AM



Description: View looking north of misted area after clean up.

Photo #07

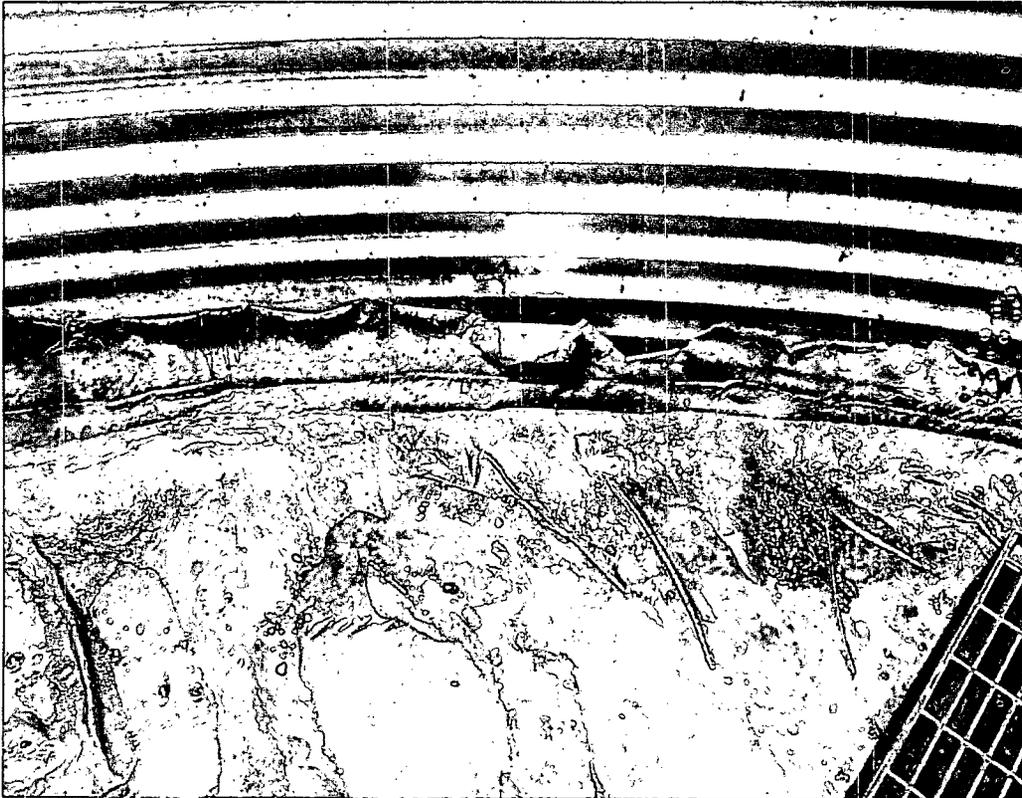
Date: 7/12/2013 12:27 PM



Description: View of soil boring SB-13 and cut made into liner near western tank.

Photo #08

Date: 7/12/2013 12:30 PM



Description: View of spray on liner detachment from steel wall containment along western wall.

Photo #09

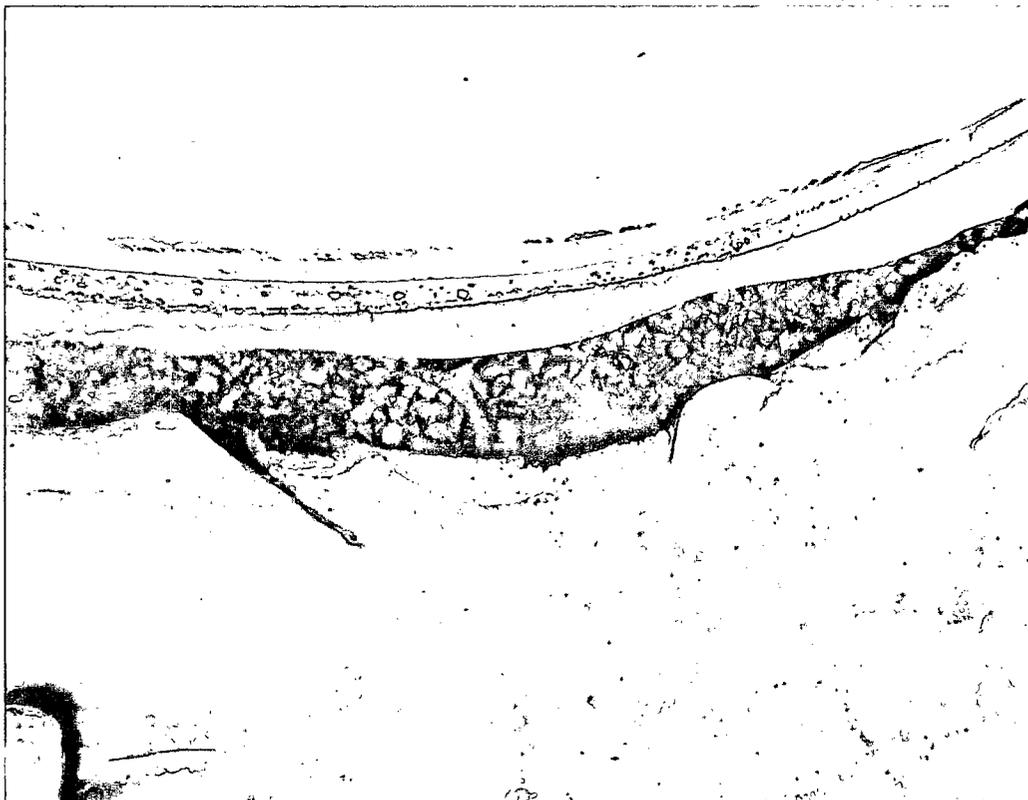
Date: 7/12/2013 12:30 PM



Description: View of soil boring SB-11 advanced between the spray on liner and the steel wall containment.

Photo #10

Date: 7/12/2013 12:31 PM



Description: Example of poly-liner beneath gravel layer under the condensate tanks.

Photo #11

Date: 7/24/2013 3:51 PM



Description: View looking east of stained soils after spray on liner removal.

Photo #12

Date: 7/24/2013 3:51 PM



Description: View looking northeast of stained soils between condensate tanks after spray on liner removal.

Photo #13

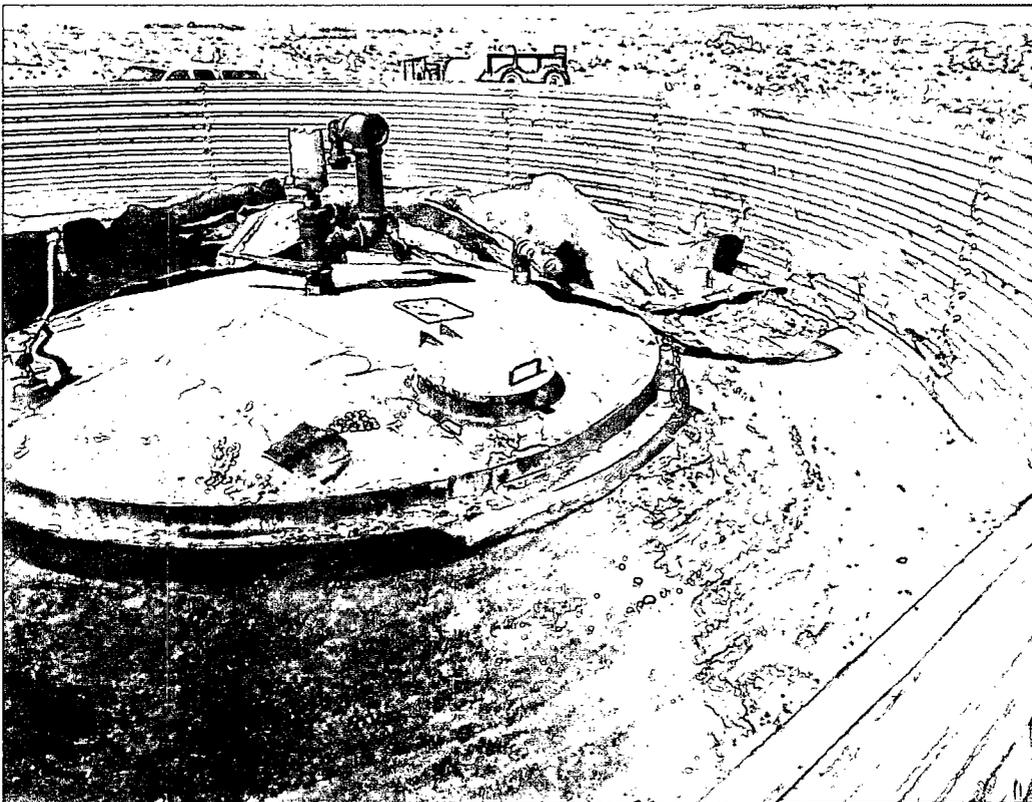
Date: 7/24/2013 3:51 PM



Description: View looking north of stained soils after spray on liner removal.

Photo #14

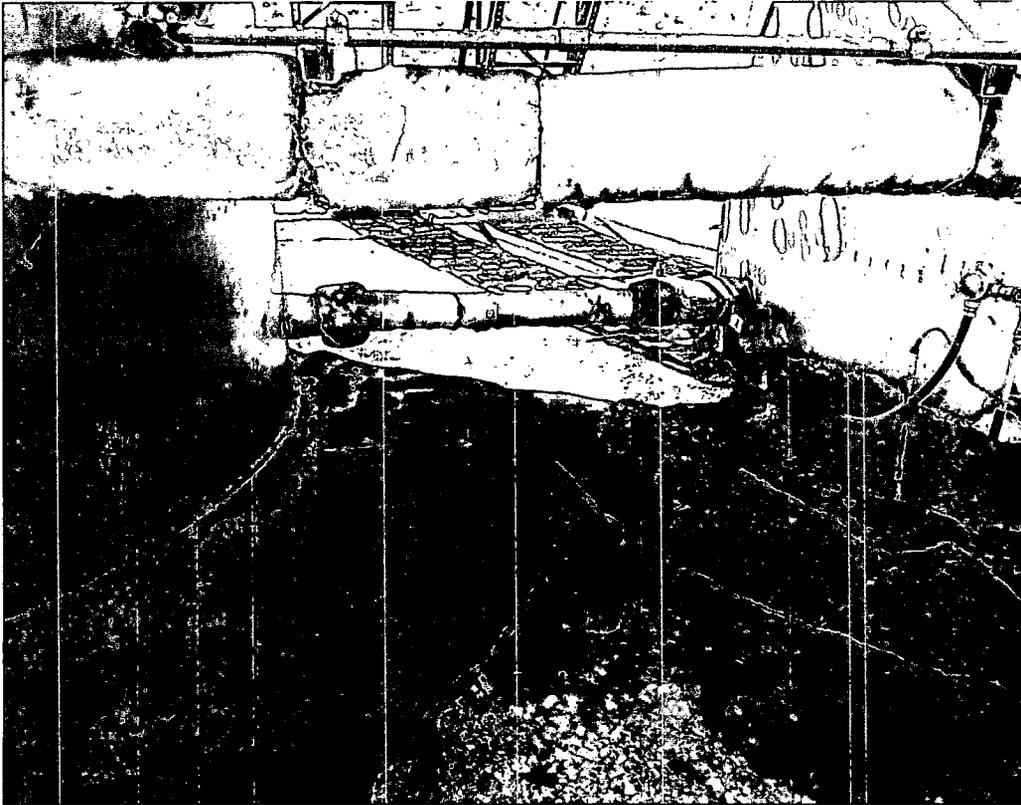
Date: 7/24/2013 3:51 PM



Description: View looking northeast of stained soils following removal of spray on liner.

Photo #15

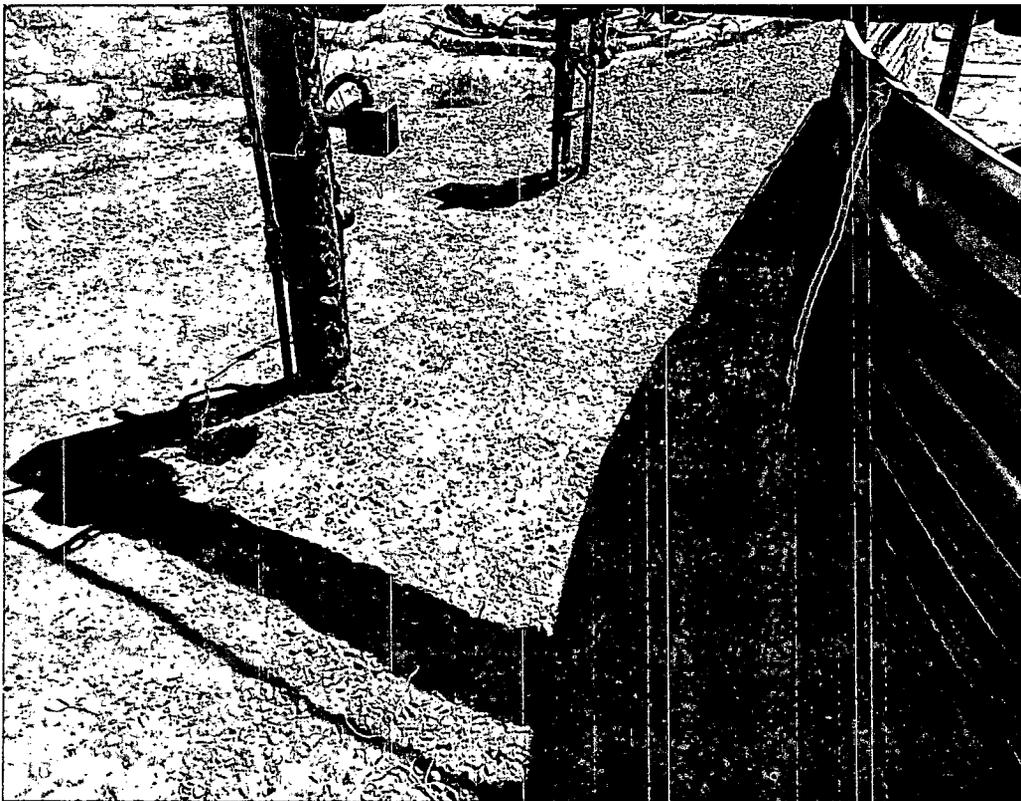
Date: 7/30/2013 11:03 AM



Description: View looking south of stained soils between the condensate tanks following removal of the spray on liner.

Photo #16

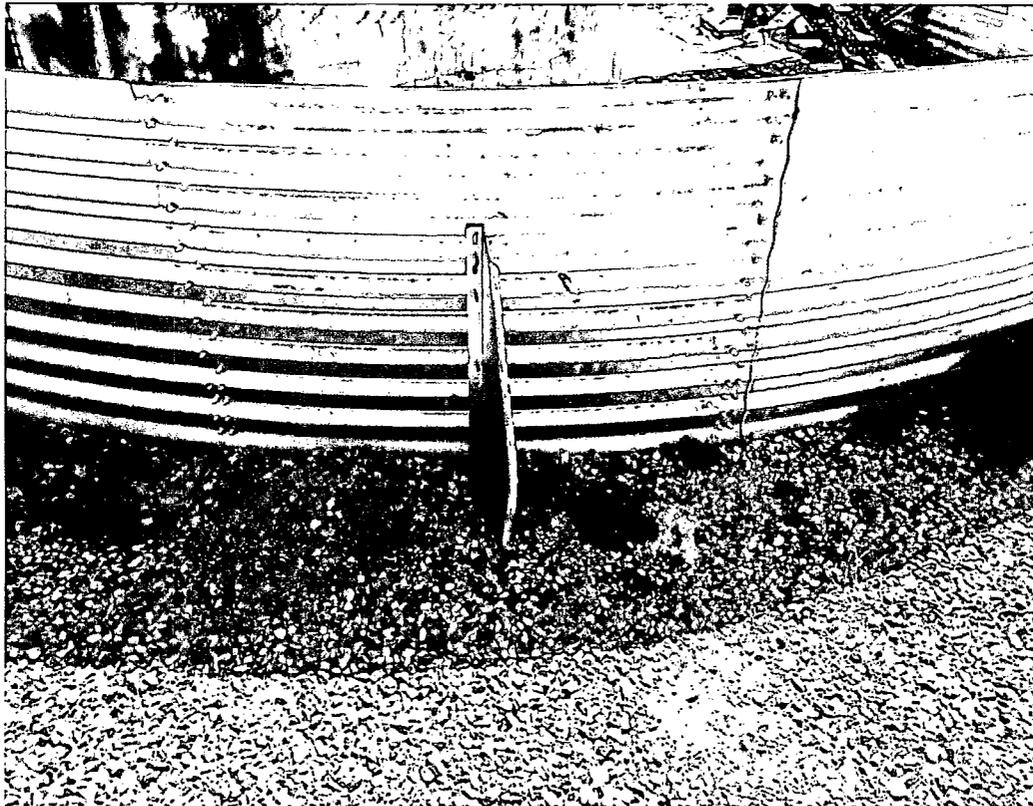
Date: 7/30/2013 11:04 AM



Description: View looking east of stained soils along the north side of the steel wall containment.

Photo #17

Date: 7/30/2013 11:04 AM



Description: View looking east of stained soils along the west side of the steel wall containment.

Photo #18

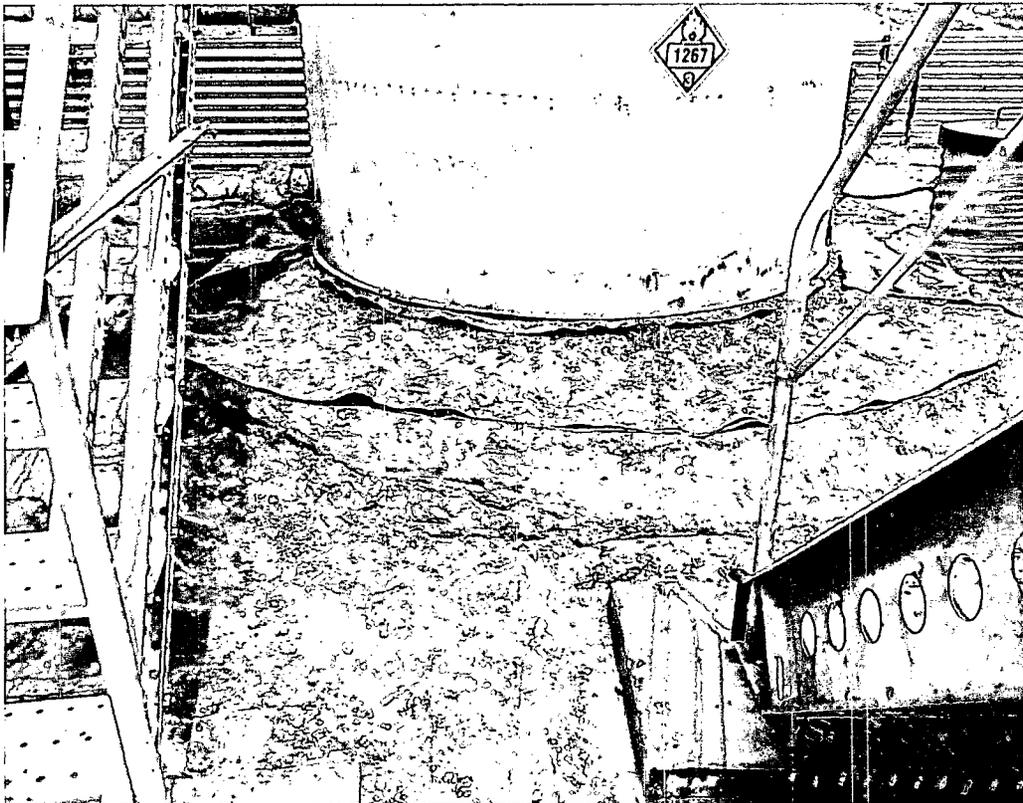
Date: 8/2/2013 12:42 PM



Description: View looking north of excavation at soil boring location SB-15 along the south side of the steel wall containment.

Photo #19

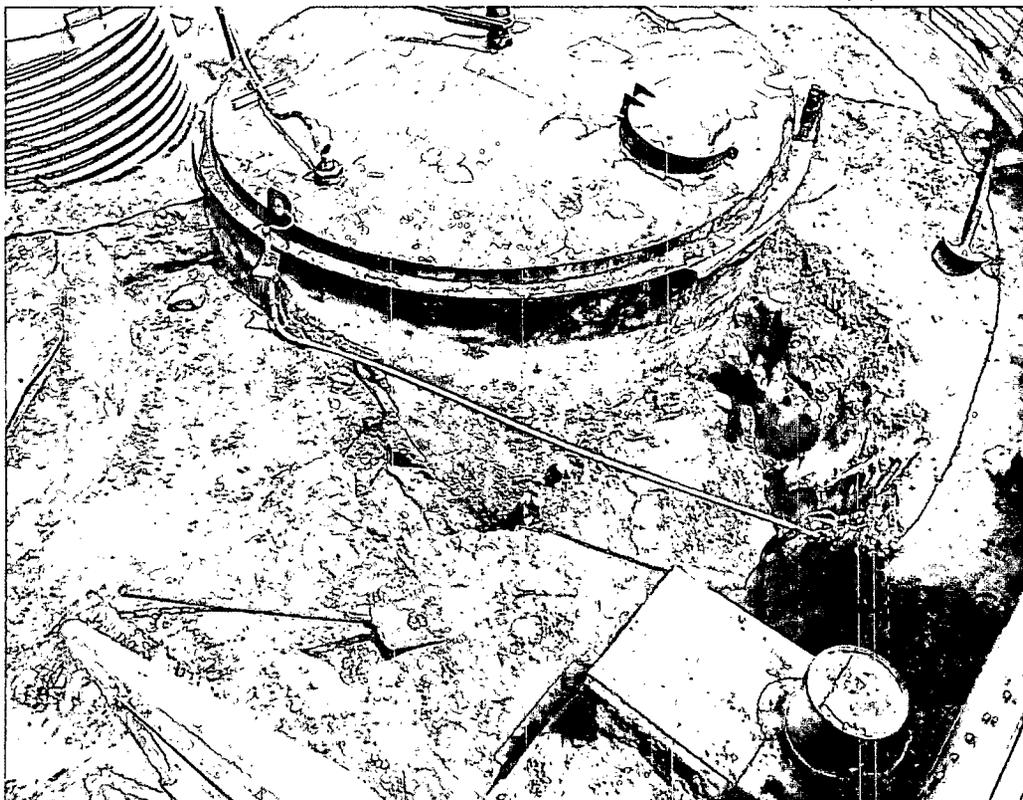
Date: 8/2/2013 12:43 PM



Description: View looking north of the excavation south of the eastern condensate tank.

Photo #20

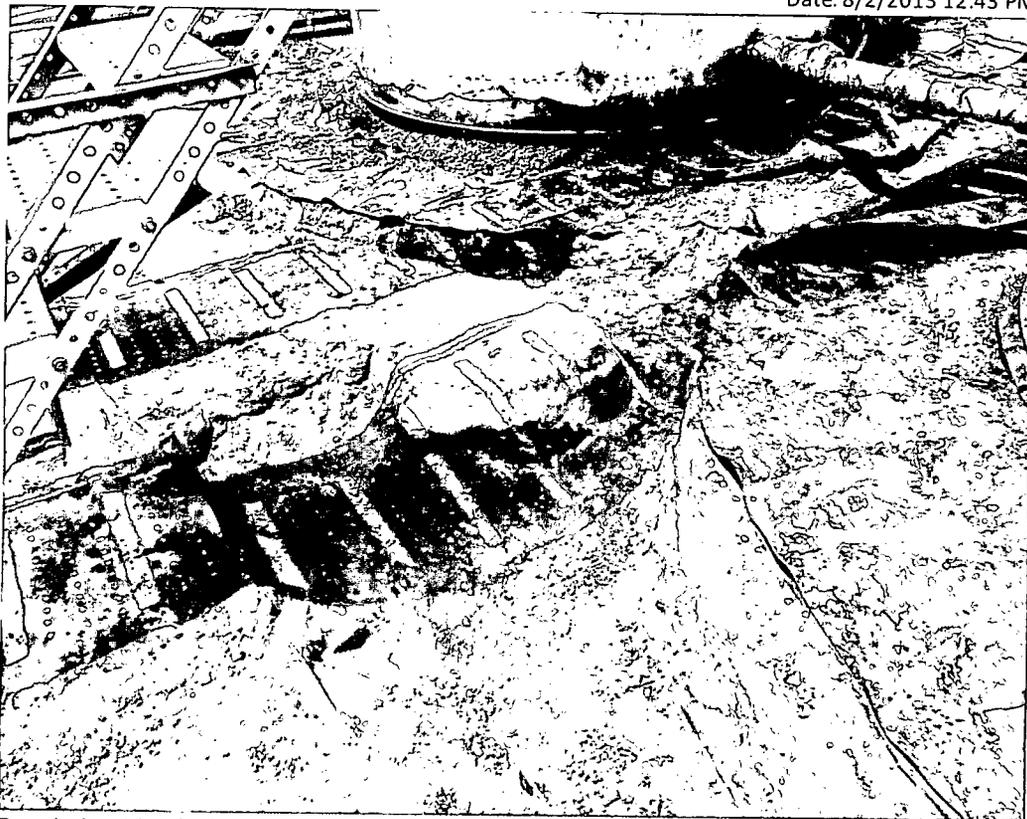
Date: 8/2/2013 12:43 PM



Description: View looking northeast of the excavation southwest of the below grade tank.

Photo #21

Date: 8/2/2013 12:43 PM



Description: View looking northwest of the excavation between the condensate tanks.

Photo #22

Date: 8/2/2013 12:44 PM



Description: View looking northeast of the excavation between the condensate tanks.

Photo #23

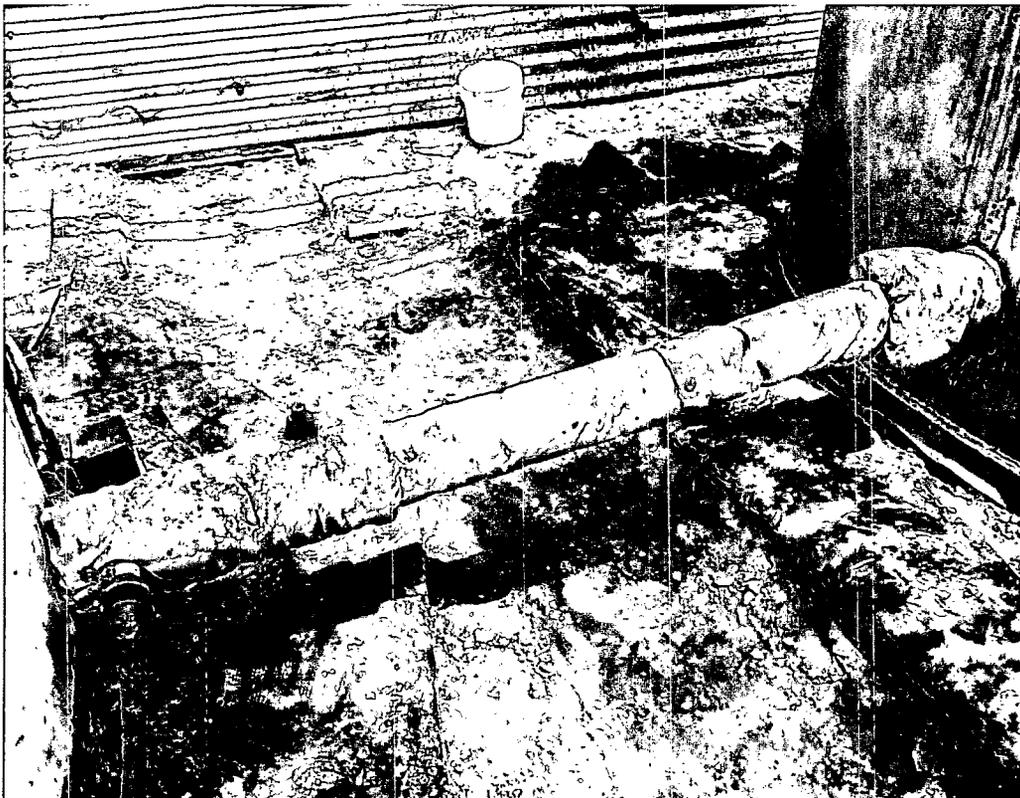
Date: 8/2/2013 12:44 PM



Description: View looking northwest of excavation extending from the western condensate tank west and north to the steel wall containment.

Photo #24

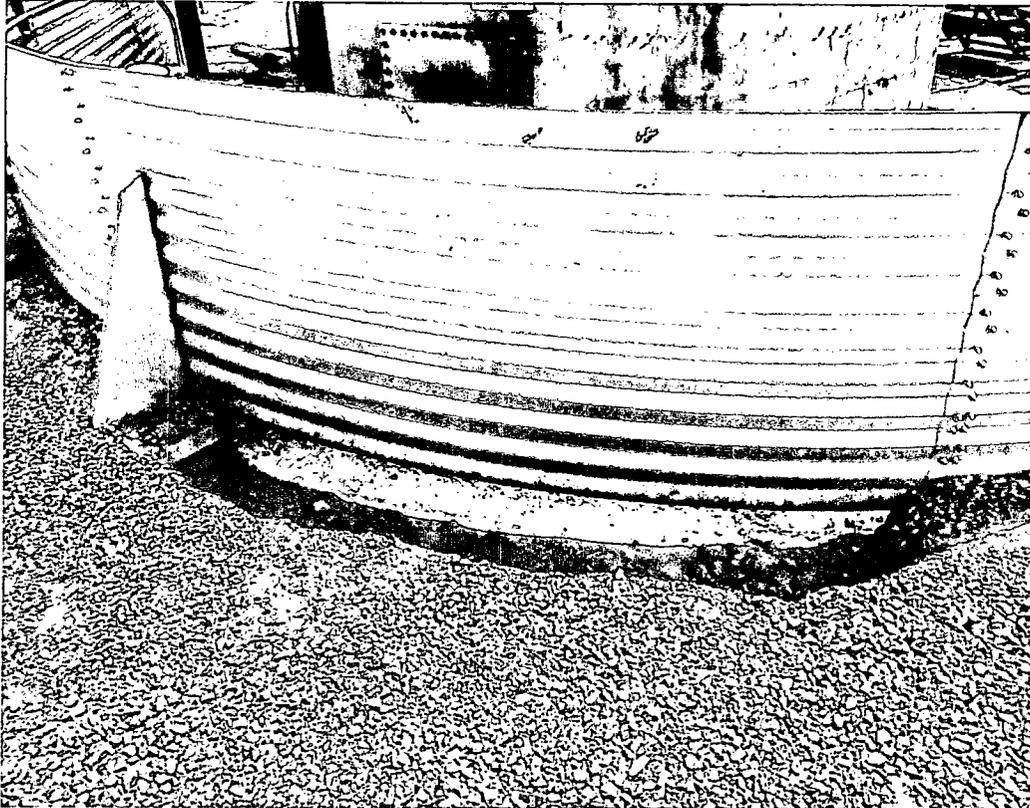
Date: 8/2/2013 12:44 PM



Description: View looking northeast of excavation between the two condensate tanks extending north along the steel wall containment.

Photo #25

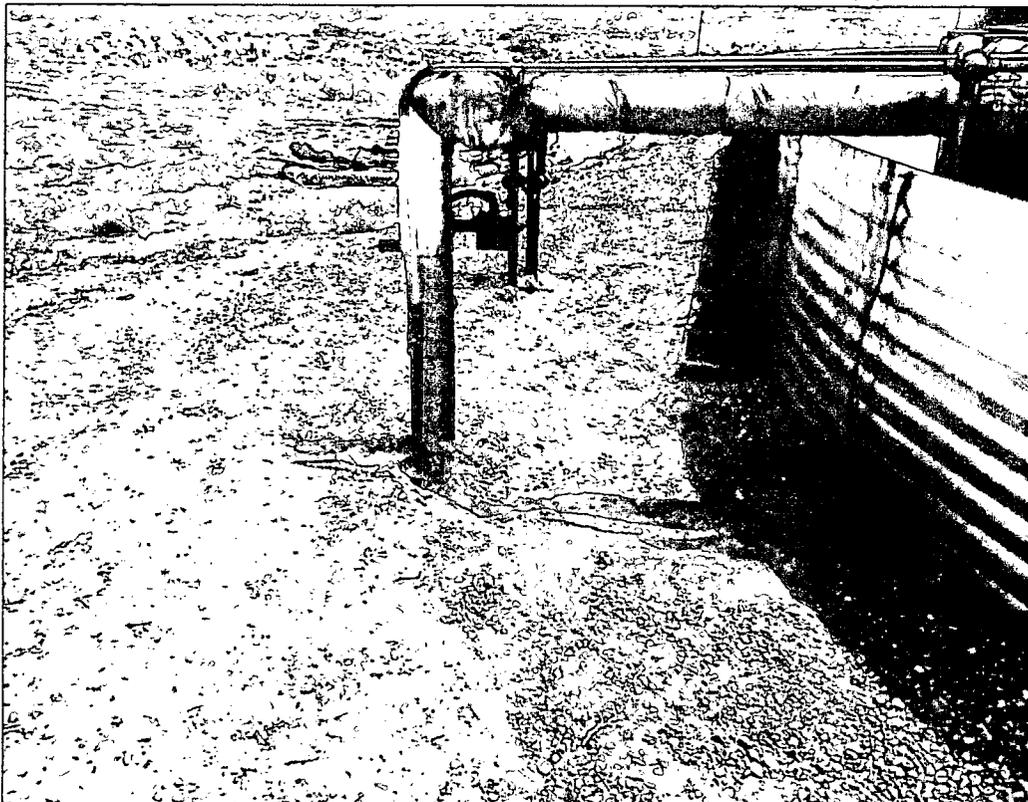
Date: 8/2/2013 12:46 PM



Description: View looking east of excavation along the west side of the steel wall containment.

Photo #26

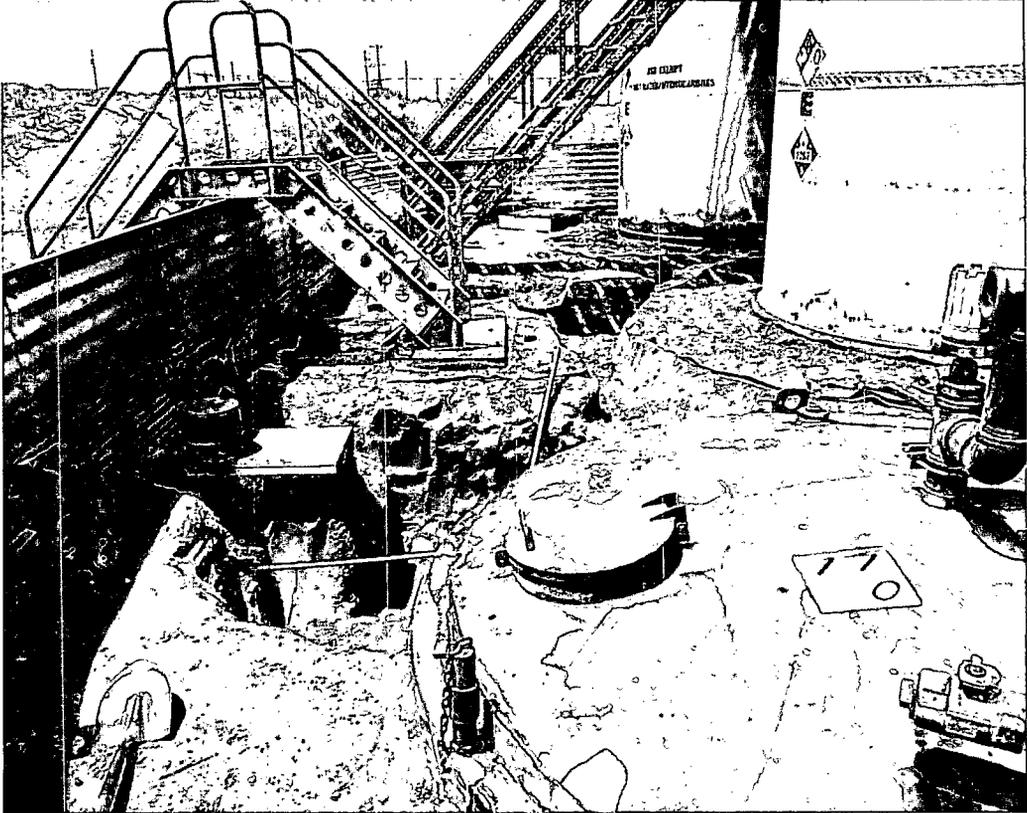
Date: 8/2/2013 12:46 PM



Description: View looking east of excavation along the north side of the steel wall containment.

Photo #27

Date: 8/2/2013 12:48 PM



Description: View looking west of excavation area inside the steel wall containment.



# Bill of Lading

MANIFEST # 44071

DATE 7-3-13 JOB # PT057-0572

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 Ballard Condensates tank	LFSA	Tank Bottoms	C19	✓	25	Riley Industrial	19010	16:47	Geoffrey Silobard
		LFII	Washout	C19	✓	5	"	19010	16:47	Geoffrey Silobard
						30				
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
212	CHLORIDE TEST	1	 Certification of above receipt & placement							
	PAINT FILTER TEST	1								

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. Riley Ind. Ser. NAME Geoffrey Silobard SIGNATURE Geoffrey Silobard  
 COMPANY CONTACT Bill McPherson PHONE (505) 327-4947 DATE 7-3-13

Signatures required prior to distribution of the legal document.





# Bill of Lading

MANIFEST # 44263  
 DATE 7-24-13 JOB # 97057-0572

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
2	Enterprise Bailard condensate tank	BF	tank Bottoms		-	5	Riley	19010	16:50	<i>[Signature]</i>
2	"	"	wash out		-	5	Riley	19010	16:50	<i>[Signature]</i>
						10				
RESULTS:		LANDFARM	NOTES:							
-292	CHLORIDE TEST	EMPLOYEE:								
	PAINT FILTER TEST	Certification of above receipt & placement								

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. Riley NAME Damen Yeager SIGNATURE *[Signature]*  
 COMPANY CONTACT Kew Ranney PHONE 505-320-9462 DATE 7-24-13

Signatures required prior to distribution of the legal document.







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)

August 02, 2013

Ross Kennemer

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-1776  
FAX (505) 324-2022

RE: Enterprise Ballard Compressor Station Tanks

OrderNo.: 1307218

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/5/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 11, 2013.

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.

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.

Analytical Report

Lab Order 1307218

Date Reported: 8/2/2013

CLIENT: Animas Environmental Services

Client Sample ID: SB-4 @ 0.5

Project: Enterprise Ballard Compressor Station T

Collection Date: 7/3/2013 12:14:00 PM

Lab ID: 1307218-001

Matrix: SOIL

Received Date: 7/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	4000	99		mg/Kg	10	7/9/2013 1:35:38 PM	8241
Motor Oil Range Organics (MRO)	2400	500		mg/Kg	10	7/9/2013 1:35:38 PM	8241
Surr: DNOP	0	63-147	S	%REC	10	7/9/2013 1:35:38 PM	8241
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	880	48		mg/Kg	10	7/9/2013 6:24:01 PM	8263
Surr: BFB	668	80-120	S	%REC	10	7/9/2013 6:24:01 PM	8263
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.48		mg/Kg	10	7/9/2013 6:24:01 PM	8263
Toluene	ND	0.48		mg/Kg	10	7/9/2013 6:24:01 PM	8263
Ethylbenzene	ND	0.48		mg/Kg	10	7/9/2013 6:24:01 PM	8263
Xylenes, Total	15	0.96		mg/Kg	10	7/9/2013 6:24:01 PM	8263
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	10	7/9/2013 6:24:01 PM	8263

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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SB-4 @ 3.5

Project: Enterprise Ballard Compressor Station T

Collection Date: 7/3/2013 12:25:00 PM

Lab ID: 1307218-002

Matrix: SOIL

Received Date: 7/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	69	9.9		mg/Kg	1	7/9/2013 5:10:39 PM	8241
Motor Oil Range Organics (MRO)	61	50		mg/Kg	1	7/9/2013 5:10:39 PM	8241
Surr: DNOP	92.5	63-147		%REC	1	7/9/2013 5:10:39 PM	8241
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	6.1	4.6		mg/Kg	1	7/9/2013 12:40:12 PM	8263
Surr: BFB	130	80-120	S	%REC	1	7/9/2013 12:40:12 PM	8263
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	7/9/2013 12:40:12 PM	8263
Toluene	ND	0.046		mg/Kg	1	7/9/2013 12:40:12 PM	8263
Ethylbenzene	ND	0.046		mg/Kg	1	7/9/2013 12:40:12 PM	8263
Xylenes, Total	ND	0.093		mg/Kg	1	7/9/2013 12:40:12 PM	8263
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	7/9/2013 12:40:12 PM	8263

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

- 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: Animas Environmental Services

Client Sample ID: SB-5 @ 0.5

Project: Enterprise Ballard Compressor Station T

Collection Date: 7/3/2013 12:35:00 PM

Lab ID: 1307218-003

Matrix: SOIL

Received Date: 7/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	530	100		mg/Kg	10	7/9/2013 3:07:28 PM	8241
Motor Oil Range Organics (MRO)	590	500		mg/Kg	10	7/9/2013 3:07:28 PM	8241
Surr: DNOP	0	63-147	S	%REC	10	7/9/2013 3:07:28 PM	8241
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	84	4.8		mg/Kg	1	7/9/2013 1:08:45 PM	8263
Surr: BFB	621	80-120	S	%REC	1	7/9/2013 1:08:45 PM	8263
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	7/9/2013 1:08:45 PM	8263
Toluene	ND	0.048		mg/Kg	1	7/9/2013 1:08:45 PM	8263
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2013 1:08:45 PM	8263
Xylenes, Total	0.50	0.095		mg/Kg	1	7/9/2013 1:08:45 PM	8263
Surr: 4-Bromofluorobenzene	122	80-120	S	%REC	1	7/9/2013 1:08:45 PM	8263

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

- 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: Animas Environmental Services

Client Sample ID: SB-8 @ 0.5

Project: Enterprise Ballard Compressor Station T

Collection Date: 7/3/2013 1:02:00 PM

Lab ID: 1307218-004

Matrix: SOIL

Received Date: 7/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	7/9/2013 4:09:08 PM	8241
Motor Oil Range Organics (MRO)	1400	500		mg/Kg	10	7/9/2013 4:09:08 PM	8241
Surr: DNOP	0	63-147	S	%REC	10	7/9/2013 4:09:08 PM	8241
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	130	24		mg/Kg	5	7/9/2013 1:37:24 PM	8263
Surr: BFB	245	80-120	S	%REC	5	7/9/2013 1:37:24 PM	8263
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.24		mg/Kg	5	7/9/2013 1:37:24 PM	8263
Toluene	ND	0.24		mg/Kg	5	7/9/2013 1:37:24 PM	8263
Ethylbenzene	ND	0.24		mg/Kg	5	7/9/2013 1:37:24 PM	8263
Xylenes, Total	1.0	0.48		mg/Kg	5	7/9/2013 1:37:24 PM	8263
Surr: 4-Bromofluorobenzene	105	80-120		%REC	5	7/9/2013 1:37:24 PM	8263

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

- 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#: 1307218

02-Aug-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station Tanks

Sample ID <b>MB-8241</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>8241</b>	RunNo: <b>11802</b>								
Prep Date: <b>7/5/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335329</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								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.0		10.00		70.0	63	147			

Sample ID <b>LCS-8241</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>8241</b>	RunNo: <b>11802</b>								
Prep Date: <b>7/5/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335513</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	77.1	128			
Surr: DNOP	4.1		5.000		82.8	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
- 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#: 1307218

02-Aug-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station Tanks

Sample ID: <b>MB-8263</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>8263</b>	RunNo: <b>11819</b>								
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335955</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	910		1000		91.5	80	120			

Sample ID: <b>LCS-8263</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>8263</b>	RunNo: <b>11819</b>								
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335956</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	62.6	136			
Surr: BFB	970		1000		96.5	80	120			

Sample ID: <b>1307218-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-4 @ 3.5</b>	Batch ID: <b>8263</b>	RunNo: <b>11819</b>								
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335959</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.6	23.17	6.115	112	76	156			
Surr: BFB	1200		926.8		129	80	120			S

Sample ID: <b>1307218-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-4 @ 3.5</b>	Batch ID: <b>8263</b>	RunNo: <b>11819</b>								
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>	SeqNo: <b>335960</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.6	23.17	6.115	108	76	156	2.49	17.7	
Surr: BFB	1100		926.8		123	80	120	0	0	S

**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
- 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#: 1307218

02-Aug-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station Tanks

Sample ID <b>MB-8263</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>8263</b>		RunNo: <b>11819</b>							
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>		SeqNo: <b>336005</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	0.95		1.000		95.1	80	120			

Sample ID <b>LCS-8263</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8263</b>		RunNo: <b>11819</b>							
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>		SeqNo: <b>336006</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	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID <b>1307218-003AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SB-5 @ 0.5</b>	Batch ID: <b>8263</b>		RunNo: <b>11819</b>							
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>		SeqNo: <b>336010</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9524	0	116	67.3	145			
Toluene	1.1	0.048	0.9524	0.03263	114	66.8	144			
Ethylbenzene	1.2	0.048	0.9524	0	122	61.9	153			
Xylenes, Total	3.7	0.095	2.857	0.4958	113	65.8	149			
Surr: 4-Bromofluorobenzene	1.2		0.9524		125	80	120			S

Sample ID <b>1307218-003AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SB-5 @ 0.5</b>	Batch ID: <b>8263</b>		RunNo: <b>11819</b>							
Prep Date: <b>7/8/2013</b>	Analysis Date: <b>7/9/2013</b>		SeqNo: <b>336011</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9515	0	107	67.3	145	7.71	20	
Toluene	1.0	0.048	0.9515	0.03263	105	66.8	144	8.80	20	
Ethylbenzene	1.1	0.048	0.9515	0	113	61.9	153	7.87	20	
Xylenes, Total	3.4	0.095	2.854	0.4958	103	65.8	149	7.80	20	
Surr: 4-Bromofluorobenzene	1.2		0.9515		123	80	120	0	0	S

**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
- 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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1307218

RcptNo: 1

Received by/date: AG 07/05/13

Logged By: Michelle Garcia 7/5/2013 10:00:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 7/5/2013-10:54:54 AM *Michelle Garcia*

Reviewed By: *[Signature]* 07/05/13

**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? 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? 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:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	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)

July 22, 2013

Ross Kennemer  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-1776  
FAX (505) 324-2022

RE: Enterprise Ballard Compressor Station Tanks

OrderNo.: 1307611

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/13/2013 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. 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 qualifiers 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,

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:** Animas Environmental Services

**Client Sample ID:** SB-11 @ 1'

**Project:** Enterprise Ballard Compressor Station T

**Collection Date:** 7/12/2013 10:10:00 AM

**Lab ID:** 1307611-001

**Matrix:** SOIL

**Received Date:** 7/13/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	15	10		mg/Kg	1	7/18/2013 12:45:58 PM	8407
Motor Oil Range Organics (MRO)	57	50		mg/Kg	1	7/18/2013 12:45:58 PM	8407
Surr: DNOP	97.2	63-147		%REC	1	7/18/2013 12:45:58 PM	8407
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2013 6:02:54 PM	8404
Surr: BFB	94.5	80-120		%REC	1	7/17/2013 6:02:54 PM	8404

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

<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
	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

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SB-13 @ 1'**Project:** Enterprise Ballard Compressor Station T**Collection Date:** 7/12/2013 10:17:00 AM**Lab ID:** 1307611-002**Matrix:** SOIL**Received Date:** 7/13/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/18/2013 1:50:54 PM	8407
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	7/18/2013 1:50:54 PM	8407
Surr: DNOP	102	63-147		%REC	1	7/18/2013 1:50:54 PM	8407
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2013 6:31:32 PM	8404
Surr: BFB	92.4	80-120		%REC	1	7/17/2013 6:31:32 PM	8404

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

<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
	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

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1307611

Date Reported: 7/22/2013

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SB-13 @ 2'

**Project:** Enterprise Ballard Compressor Station T

**Collection Date:** 7/12/2013 11:10:00 AM

**Lab ID:** 1307611-003

**Matrix:** SOIL

**Received Date:** 7/13/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/18/2013 2:12:44 PM	8407
Motor Oil Range Organics (MRO)	86	50		mg/Kg	1	7/18/2013 2:12:44 PM	8407
Surr: DNOP	102	63-147		%REC	1	7/18/2013 2:12:44 PM	8407
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2013 7:00:07 PM	8404
Surr: BFB	92.3	80-120		%REC	1	7/17/2013 7:00:07 PM	8404

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

<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
	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

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1307611  
 Date Reported: 7/22/2013

**CLIENT:** Animas Environmental Services **Client Sample ID:** SC-1  
**Project:** Enterprise Ballard Compressor Station T **Collection Date:** 7/12/2013 11:39:00 AM  
**Lab ID:** 1307611-004 **Matrix:** SOIL **Received Date:** 7/13/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/18/2013 2:34:25 PM	8407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/18/2013 2:34:25 PM	8407
Surr: DNOP	96.1	63-147		%REC	1	7/18/2013 2:34:25 PM	8407
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2013 11:45:42 PM	8404
Surr: BFB	92.7	80-120		%REC	1	7/17/2013 11:45:42 PM	8404

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

<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
	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

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-2**Project:** Enterprise Ballard Compressor Station T**Collection Date:** 7/12/2013 11:44:00 AM**Lab ID:** 1307611-005**Matrix:** SOIL**Received Date:** 7/13/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/18/2013 2:56:16 PM	8407
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/18/2013 2:56:16 PM	8407
Surr: DNOP	80.0	63-147		%REC	1	7/18/2013 2:56:16 PM	8407
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2013 12:14:14 AM	8404
Surr: BFB	93.0	80-120		%REC	1	7/18/2013 12:14:14 AM	8404

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

- 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#: 1307611

22-Jul-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station Tanks

Sample ID <b>MB-8407</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>8407</b>		RunNo: <b>11995</b>							
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>		SeqNo: <b>341200</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								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		114	63	147			

Sample ID <b>LCS-8407</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8407</b>		RunNo: <b>11995</b>							
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>		SeqNo: <b>341201</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.4	77.1	128			
Surr: DNOP	5.8		5.000		116	63	147			

Sample ID <b>1307611-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>SB-11 @ 1'</b>	Batch ID: <b>8407</b>		RunNo: <b>12040</b>							
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/18/2013</b>		SeqNo: <b>342924</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	85	9.9	49.50	14.93	141	61.3	138			S
Surr: DNOP	5.6		4.950		114	63	147			

Sample ID <b>1307611-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>							
Client ID: <b>SB-11 @ 1'</b>	Batch ID: <b>8407</b>		RunNo: <b>12040</b>							
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/18/2013</b>		SeqNo: <b>342925</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	10	49.95	14.93	105	61.3	138	22.3	20	R
Surr: DNOP	4.9		4.995		97.9	63	147	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
- 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#: 1307611

22-Jul-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station Tanks

Sample ID <b>MB-8404</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>8404</b>	RunNo: <b>11998</b>								
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>	SeqNo: <b>341918</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	950		1000		95.0	80	120			

Sample ID <b>LCS-8404</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>8404</b>	RunNo: <b>11998</b>								
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>	SeqNo: <b>341919</b>	Units: <b>mg/Kg</b>							
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	62.6	136			
Surr: BFB	1000		1000		101	80	120			

Sample ID <b>1307611-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-11 @ 1'</b>	Batch ID: <b>8404</b>	RunNo: <b>11998</b>								
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>	SeqNo: <b>341921</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.7	23.50	0	122	76	156			
Surr: BFB	990		939.8		106	80	120			

Sample ID <b>1307611-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-11 @ 1'</b>	Batch ID: <b>8404</b>	RunNo: <b>11998</b>								
Prep Date: <b>7/16/2013</b>	Analysis Date: <b>7/17/2013</b>	SeqNo: <b>341922</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.47	0	130	76	156	5.88	17.7	
Surr: BFB	1000		939.0		106	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
- 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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1307611

RcptNo: 1

Received by/date: AF 07/13/13

Logged By: Anne Thorne 7/13/2013 10:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 7/15/2013 *Anne Thorne*

Reviewed By: *AT* 07/15/13

**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	2.4	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

Turn-Around Time:  
 Standard <sup>HW</sup>  Rush

Mailing Address: 1024 E. Comanche

Project Name: Enterprise Ballard Compressor Station

Farmington, NM 87401

Project #: Tanks

Phone #: 505-564-2281

email or Fax#:

Project Manager:

QA/QC Package:

Standard  Level 4 (Full Validation)

R. Kennemer

Accreditation

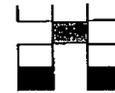
NELAP  Other \_\_\_\_\_

Sampler: H. Woods

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

On Ice  Yes  No

Sample Temperature: 27°C



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No <u>307611</u>	Analysis Request										Air Bubbles (Y or N)			
							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 <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)		
7/12/13	1010	Soil	SB-11@1'	1-4oz	—	-001				X										
7/12/13	1017	Soil	SB-13@1'	1-4oz	—	-002				X										
7/12/13	1110	Soil	SB-13@2'	1-4oz	—	-003				X										
7/12/13	1139	Soil	SC-1	1-4oz	—	-004				X										
7/12/13	1144	Soil	SC-2	1-4oz	—	-005				X										

Date: 7/12/13 Time: 1739 Relinquished by: Heather M. Woods

Received by: Chris Walt Date: 7/12/13 Time: 1739

Date: 7/12/13 Time: 1754 Relinquished by: Chris Walt

Received by: [Signature] Date: 7/13/13 Time: 16:00

Remarks: Bill to Animas Environmental Services  
HW added MRO to analysis  
8/11/13  
AT

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

August 07, 2013

Ross Kennemer  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-1776  
FAX (505) 324-2022

RE: Enterprise Ballard Compressor Station

OrderNo.: 1308128

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/3/2013 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](http://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,

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.

Analytical Report  
 Lab Order 1308128  
 Date Reported: 8/7/2013

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-5

**Project:** Enterprise Ballard Compressor Station

**Collection Date:** 8/2/2013 12:44:00 PM

**Lab ID:** 1308128-001

**Matrix:** SOIL

**Received Date:** 8/3/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	3400	100		mg/Kg	10	8/5/2013 12:46:31 PM	8722
Motor Oil Range Organics (MRO)	1600	500		mg/Kg	10	8/5/2013 12:46:31 PM	8722
Surr: DNOP	0	63-147	S	%REC	10	8/5/2013 12:46:31 PM	8722
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	800	25		mg/Kg	5	8/5/2013 10:41:30 AM	R12409
Surr: BFB	1370	80-120	S	%REC	5	8/5/2013 10:41:30 AM	R12409

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

<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
	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

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1308128  
 Date Reported: 8/7/2013

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-6

**Project:** Enterprise Ballard Compressor Station

**Collection Date:** 8/2/2013 12:46:00 PM

**Lab ID:** 1308128-002

**Matrix:** SOIL

**Received Date:** 8/3/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	8000	100		mg/Kg	10	8/5/2013 1:08:36 PM	8722
Motor Oil Range Organics (MRO)	3900	500		mg/Kg	10	8/5/2013 1:08:36 PM	8722
Surr: DNOP	0	63-147	S	%REC	10	8/5/2013 1:08:36 PM	8722
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	790	50		mg/Kg	10	8/5/2013 11:10:10 AM	R12409
Surr: BFB	821	80-120	S	%REC	10	8/5/2013 11:10:10 AM	R12409

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

<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
	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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Enterprise Ballard Compressor Station

Collection Date: 8/2/2013 12:48:00 PM

Lab ID: 1308128-003

Matrix: SOIL

Received Date: 8/3/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	6900	100		mg/Kg	10	8/5/2013 1:30:26 PM	8722
Motor Oil Range Organics (MRO)	3300	500		mg/Kg	10	8/5/2013 1:30:26 PM	8722
Surr: DNOP	0	63-147	S	%REC	10	8/5/2013 1:30:26 PM	8722
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	1200	50		mg/Kg	10	8/5/2013 11:08:56 AM	R12410
Surr: BFB	1230	80-120	S	%REC	10	8/5/2013 11:08:56 AM	R12410

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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: Enterprise Ballard Compressor Station

Collection Date: 8/2/2013 12:50:00 PM

Lab ID: 1308128-004

Matrix: SOIL

Received Date: 8/3/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	2600	99		mg/Kg	10	8/5/2013 1:52:12 PM	8722
Motor Oil Range Organics (MRO)	1600	500		mg/Kg	10	8/5/2013 1:52:12 PM	8722
Surr: DNOP	0	63-147	S	%REC	10	8/5/2013 1:52:12 PM	8722
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	600	25		mg/Kg	5	8/5/2013 11:39:13 AM	R12410
Surr: BFB	1200	80-120	S	%REC	5	8/5/2013 11:39:13 AM	R12410

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

- 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#: 1308128

07-Aug-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station

Sample ID: <b>MB-8722</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>8722</b>	RunNo: <b>12400</b>								
Prep Date: <b>8/5/2013</b>	Analysis Date: <b>8/5/2013</b>	SeqNo: <b>353060</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								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.2	63	147			

Sample ID: <b>LCS-8722</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>8722</b>	RunNo: <b>12400</b>								
Prep Date: <b>8/5/2013</b>	Analysis Date: <b>8/5/2013</b>	SeqNo: <b>353065</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	77.1	128			
Surr: DNOP	3.5		5.000		69.8	63	147			

**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                         |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1308128

07-Aug-13

**Client:** Animas Environmental Services  
**Project:** Enterprise Ballard Compressor Station

Sample ID	<b>mb-8704 24</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R12409</b>	RunNo:	<b>12409</b>					
Prep Date:		Analysis Date:	<b>8/5/2013</b>	SeqNo:	<b>353530</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	900		1000		89.9	80	120			

Sample ID	<b>Ics-8704 23</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R12409</b>	RunNo:	<b>12409</b>					
Prep Date:		Analysis Date:	<b>8/5/2013</b>	SeqNo:	<b>353532</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.6	62.6	136			
Surr: BFB	960		1000		95.9	80	120			

Sample ID	<b>5ml rb 5</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R12410</b>	RunNo:	<b>12410</b>					
Prep Date:		Analysis Date:	<b>8/5/2013</b>	SeqNo:	<b>353715</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		93.2	80	120			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R12410</b>	RunNo:	<b>12410</b>					
Prep Date:		Analysis Date:	<b>8/5/2013</b>	SeqNo:	<b>353719</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	112	62.6	136			
Surr: BFB	1100		1000		105	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
- 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

**Sample Log-In Check List**

Client Name: Animas Environmental

Work Order Number: 1308128

RcptNo: 1

Received by/date: AT 08/03/13

Logged By: **Anne Thorne** 8/3/2013 11:00:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 8/5/2013 *Anne Thorne*

Reviewed By: AK 08/05/13

**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: Per DW G-RO/DRO/mae / A 08/05/13

**18. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

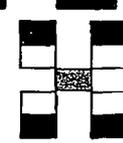
Mailing Address: 624 E. Comanche  
Farmington, NM 87417

Phone #: 505-564-2201

Turn-Around Time:  
 Standard  Rush Same Day

Project Name: Enterprise Ballard Compressor Station

Project #:



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

email or Fax#:

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

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

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

Project Manager: R. Kennemer

Sampler: H. Woods

On Ice:  Yes  No

Sample Temperature: 25

### 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 <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 Pollution (Y or N)
		X									
		X									
		X									
		X									

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No
8/2/13	1244	Soil	SC-5	MOSH Kit / 1-402	MOSH / -	001
8/2/13	1246	Soil	SC-6	I	I	002
8/2/13	1248	Soil	SC-7	I	I	003
8/2/13	1250	Soil	SC-8	I	I	004

Date: <u>8/2/13</u>	Time: <u>1513</u>	Relinquished by: <u>Henry H. Woods</u>	Received by: <u>Christie Waeta</u>	Date: <u>8/2/13</u>	Time: <u>1513</u>
Date: <u>8/2/13</u>	Time: <u>1530</u>	Relinquished by: <u>Christie Waeta</u>	Received by: <u>Christie Waeta</u>	Date: <u>8/2/13</u>	Time: <u>1141</u>

Remarks:

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.