

3R – 1018

GWMR

11 / 16 / 2014



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

ENTERPRISE PRODUCTS OPERATING LLC

November 6, 2014

Submitted via email w/delivery confirmation: Jim Griswold@state.nm.us

Mr. Jim Griswold, Environmental Bureau Chief
New Mexico Energy, Minerals & Natural Resources
Department - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Glenn Von Gonten

**Re: Notification of Affected Groundwater -
Cohn 29-10-25 #1 Pipeline Release (November 8, 2013 Release)
Enterprise Field Services, LLC
NMOCD RP# 3RP-1018
Unit Letter A, Section 25, T29N, R10W
San Juan County, New Mexico**

Dear Mr. Griswold:

Enterprise Field Services, LLC (Enterprise) has confirmed that groundwater has been affected by the November 8, 2013 pipeline release at the Cohn 29-10-25#1 site referenced above. This correspondence includes an updated Form C-141, and C-141 Forms previously submitted to the NMOCD Aztec District 3 Office for your records. This report also includes reports previously submitted to the District 3 office, including the *Corrective Action Report* dated June 27, 2014, and the *Supplemental Site Investigation Report* dated September 18, 2014. The release site is located in Unit Letter A Section 25 Township 29 North Range 10 West, North 36.70314, West 107.829618 West, respectively. This release site has been assigned RP# 3RP-1018 by the New Mexico Oil Conservation Division (NMOCD).

The attached *Corrective Action Report* documents the results of the December 2013 and April 2014 initial remediation actions to mitigate the pipeline release. This report also documents removal of hydrocarbon impacted soil exceeding NMOCD standards. The attached *Supplemental Site Investigation Report*, dated September 22, 2014, documents a groundwater investigation conducted at the release site during August 2014. During this investigation, eight (8) temporary monitoring wells were installed to total depths ranging from 12 to 13 feet below ground surface. Each monitoring well was developed, purged and sampled and then properly plugged and abandoned in accordance with NMOCD and New Mexico Office of the State Engineer regulations. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission (NMWQCC) standards for Benzene and Total Xylenes in five (5) of the temporary monitoring wells (TMP-1, TMP-3, TMP-5, TMP-6 and TMP-7).

Enterprise is currently preparing a work plan for the proposed additional groundwater investigation to determine the extent of affected groundwater at the release site, and will proceed with this investigation when necessary landowner and agency approvals are obtained.

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-2286, or via email at: drsmith@eprod.com.

Sincerely,



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



Gregory E. Miller, P.G.
Supervisor, Environmental

/dep
Attachments

cc: Cohn Mack S ET AL
4072 Hidden View Circle
Ft. Worth, TX 76109

ec: Glenn Von Gonten, New Mexico Oil Conservation Division, Santa Fe, NM
Mark Kelly, Bureau of Land Management, Farmington, NM
Shari Ketcham, Bureau of Land Management, Farmington, NM
Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM
Jonathan Kelly, New Mexico Oil Conservation Division, Aztec, NM
Elizabeth McNally, Animas Environmental Services, Farmington, NM

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 ☐ Updated ☐ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-589-2288
Facility Name: Cohn 29-10-25 #1	Facility Type: Gas gathering system pipeline

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

Unit Letter A	Section 25	Township 29N	Range 10W	Feet from the 178	North South Line	Feet from the 885	East/West Line	County San Juan
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Latitude 36.703148 Longitude 107.829618

NATURE OF RELEASE

Type of Release: Natural gas and possible associated liquids	Volume of Release:	Volume Recovered: Unknown
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 11/08/13 at approximately 1:30 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Area technician discovered a pipeline leak on the well tie line for the Cohn 29-10-25 #1. The line was isolated, depressurized and lock out tag out was applied. Repairs for the pipeline were completed the week of December 2, 2013. Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. The final excavation dimensions measured approximately sixty-five (65) feet long by twenty-five (25) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 barrels water was pumped out of the excavation and transported to an approved NMOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as groundwater monitoring wells. Each monitoring well was developed, purged and sampled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission standards.

Describe Area Affected and Cleanup Action Taken.* Repairs for the pipeline were completed the week of December 2, 2013. Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. The final excavation dimensions measured approximately sixty-five (65) feet long by twenty-five (25) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 barrels water was pumped out of the excavation and transported to an approved NMOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as groundwater monitoring wells. Each monitoring well was developed, purged and sampled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission standards. A third party environmental corrective action report and supplemental investigation report is included with this "initial" 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Jon E. Fields	Approval Date:	Expiration Date:
Title: Director, Environmental	Conditions of Approval:	
E-mail Address: jefields@eprod.com	Attached ☐	
Date: 11/04/2014	Phone: (713) 381-6664	

* Attach Additional Sheets If Necessary



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

ENTERPRISE PRODUCTS OPERATING LLC

August 1, 2014

7014 1200 0001 0918 5254
Return Receipt Requested

ENMRD Oil Conservation Division
Aztec District III Office
Attn: Cory Smith
1000 Rio Brazos Road
Aztec, NM 87410

RE: Cohn 29019025 #1
San Juan County

Dear Mr. Smith:

Attached is an updated Release Notification and Corrective Action Report (C-141) as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or Jon Fields, Director-Environmental at 713-381-6684.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Ivan W. Zirbes', written over a horizontal line.

Ivan W. Zirbes
Sr. Director, Environmental

/sjn
enclosures



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

ENTERPRISE PRODUCTS OPERATING LLC

November 21, 2013

ENMRD Oil Conservation Division
Aztec District III Office
Attn: Brandon Powell
1000 Rio Brazos Road
Aztec, NM 87410

Return Receipt Requested
7012 3460 0000 1945 3654

RE: Cohn 29-10-25 #1
Release Notification - San Juan County

Dear Mr. Powell:

Attached is the Release Notification and Corrective Action Report as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6595.

Yours truly,

A handwritten signature in cursive script, reading 'Shiver J. Nolan'.

Shiver J. Nolan
Sr. Compliance Administrator

enclosure

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: Cohn 29-10-25 #1	Facility Type: Gas gathering system pipeline
Surface Owner:	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter A	Section 25	Township 29N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------------

Latitude 36.703146 Longitude 107.829618

NATURE OF RELEASE

Type of Release: Natural gas and possible associated liquids	Volume of Release: Unknown	Volume Recovered: To be determined
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 11/08/13 at approximately 1:30 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

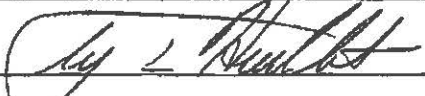
Describe Cause of Problem and Remedial Action Taken.*

Area technician discovered a pipeline leak on the well tie line for the Cohn 29-10-25 #1. The line was isolated, depressurized and LOTO was applied. Repairs for the line are scheduled for week of December 2, 2013. The area affected is estimated to be approximately 50 feet long by 20 feet wide.

Describe Area Affected and Cleanup Action Taken.*

Third party environmental contractor attempted to delineate the release area using a hand auger. All soil borings were terminated at two feet below ground (bgs) surface due to auger refusal. The area affected is estimated to be approximately 50 feet long by 20 feet wide. Third party environmental contractors will guide excavation and collect closure samples after completion of repair activities scheduled for the week of December 2, 2013.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Perry L. Hurlburt		Approved by Environmental Specialist:	
Title: Group Sr. Vice President		Approval Date:	Expiration Date:
E-mail Address: snolan@eprod.com		Conditions of Approval:	Attached ☐
Date: 11/21/2013 Phone: 713-381-6595			

* Attach Additional Sheets If Necessary



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

ENTERPRISE PRODUCTS OPERATING LLC

October 6, 2014

ENMRD Oil Conservation Division
Aztec District III Office
Attn: Cory Smith
1000 Rio Brazos Road
Aztec, NM 87410

Return Receipt Requested
7014 1200 0001 0918 2604

RE: Cohn 29-10-25 #1
San Juan County

Dear Sirs:

Attached is a Release Notification and Corrective Action Report (Final) for the referenced release. Also attached is the Corrective Action Report and a Supplemental Site Investigation Report as prepared by our consultant, Apex Titan, Inc.

Should have questions or need additional information, please contact Thomas Long, our area field representative, at 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon E. Fields
Director - Field Compliance

/s/jn
enclosures

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Grazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87503

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company: Enterprise Field Services LLC	OPERATOR	☐ Updated	☒ Final Report
Address: 514 Rollie Ave, Farmington, NM 87401	Contact: Thomas Long		
Facility Name: Cohn 29-10-25 #1	Telephone No. 505-839-2286		
	Facility Type: Gas gathering system pipeline		

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

LOCATION OF RELEASE							
Unit Letter A	Section 25	Township 25N	Range 10W	Feet from the 178	North/South LINE	Feet from the 285	County San Juan

Latitude 35.703146 Longitude 107.329616

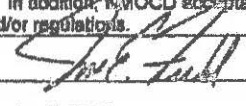
NATURE OF RELEASE		
Type of Release: Natural gas and possible associated liquids	Volume of Release:	Volume Recovered: Unknown
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 11/03/13 at approximately 1:30 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Area technician discovered a pipeline leak on the well tie line for the Cohn 29-10-25 #1. The line was isolated, depressurized and lock out tag out was applied. Repairs for the pipeline were completed the week of December 2, 2013. Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOC land farm facility. The final excavation dimensions measured approximately sixty-five (65) feet long by twenty-five (25) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 barrels water was pumped out of the excavation and transported to an approved NMOC disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as groundwater monitoring wells. Each monitoring wells was developed, purge and sampled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission standards.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist:	
Title: Director, Environmental	Approval Date:	Expiration Date:
E-mail Address: jefields@oprod.com	Conditions of Approval:	Attached ☐
Date: 10/7/2014	Phone: (713) 381-6684	

* Attach Additional Sheets if Necessary



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

ENTERPRISE PRODUCTS OPERATING LLC

January 2, 2014

ENMRD Oil Conservation Division
Aztec District III Office
Attn: Brandon Powell
1000 Rio Brazos Road
Aztec, NM 87410

Return Receipt Requested
7012 3460 0003 3115 7605

BLM Farmington Field Office
Lands Team
Attn: Scott Hall/Sherrie Landon
6251 College Blvd. Ste. A
Farmington, NM 87402

Return Receipt Requested
7012 3460 0003 3115 7612

RE: Cohn 29-20-25#1
Release Notification – San Juan County

Gentlemen:

Attached is the Release Notification as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon Fields
Director-Field Environmental

/sjn
enclosure

7012 3460 0003 3115 7612

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

C141 Cohn 29-20-25 #1

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11

Stamp: JAN 5 2014

Scott Hall/Sherrie Landon, BLM
6251 College Blvd. Ste. A
Farmington, NM 87402

BLM Farmington Field Office
Lands Team
Attn: Scott Hall/Sherrie Landon
6251 College Blvd. Ste. A
Farmington, NM 87402

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name) *[Signature]* C. Date of Delivery *1-7-14*

D. Is delivery address different from item 1? ☐ Yes ☒ No
 If YES, enter delivery address below:

Stamp: JAN 7 2014

3. Service Type
☒ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes ☒ No

C141 Cohn 29-20-25 #1

7012 3460 0003 3115 7605

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only)

For delivery information visit our website at www.usps.com

C141 Powell 29-20-25 #1

Postage	\$.46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.11

Stamp: JAN 9 2014

Brandon Powell, EMNRD OCD III
1000 Rio Brazos Road
Aztec, NM 87410

EMNRD Oil Conservation Division
Aztec District III Office
Attn: Brandon Powell
1000 Rio Brazos Road
Aztec, NM 87410

COMPLETE THIS SECTION ON DELIVERY

A. Signature *X Calvin Atchley* ☐ Agent ☐ Addressee

B. Received by (Printed Name) *Calvin Atchley* C. Date of Delivery *1-1-14*

D. Is delivery address different from item 1? ☐ Yes ☒ No
 If YES, enter delivery address below:

3. Service Type
☒ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes ☒ No

C141 Cohn 29-20-25 #1

2. Article Number: **7012 3460 0003 3115 7305**
 (Transfer from service label)

PS Form 3811, July 2013 Domestic Return Receipt

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

☒ Updated ☐ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: P.O. Box 4324, Houston, TX 77210	Telephone No. 505-599-2286
Facility Name: Cohn 29-10-25 #1	Facility Type: Gas gathering system pipeline

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

Unit Letter A	Section 25	Township 29N	Range 10W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	--------------------

Latitude 36.703146 Longitude 107.629618

NATURE OF RELEASE

Type of Release: Natural gas and possible associated liquids	Volume of Release: Unknown	Volume Recovered: To be determined
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 11/08/13 at approximately 1:30 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

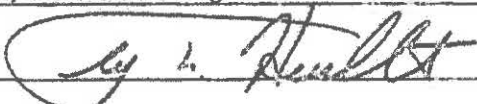
Describe Cause of Problem and Remedial Action Taken.*

Area technician discovered a pipeline leak on the well tie line for the Cohn 29-10-25 #1. The line was isolated, depressurized and LOTO was applied. Repairs for the line were completed the week of December 2, 2013.

Describe Area Affected and Cleanup Action Taken.*

Third party environmental contractor attempted to delineate the release area using a hand auger. All soil borings were terminated at two feet below ground (bgs) surface due to auger refusal. The area affected is approximately 50 feet long by 20 feet wide. The pipeline was repaired and additional soil was excavated. Soil samples were collected from the excavation side walls and based on laboratory analysis and the anticipated shallow depth of groundwater indicated potential impacts to groundwater. Additional excavation of impacted soils is being scheduled.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: 	OIL CONSERVATION DIVISION	
Printed Name: Terry L. Hurlburt	Approved by Environmental Specialist:	
Title: Group Sr. Vice President	Approval Date:	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached ☐
Date: 1-2-2014 Phone: 713-381-6595		

* Attach Additional Sheets If Necessary

• • •



SUPPLEMENTAL SITE INVESTIGATION REPORT

Property:

**Cohn #1 Pipeline Release (11/08/2013)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico**

**September 22, 2014
Apex Project No. 7030413G018**

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in blue ink that reads 'Heather M. Woods'.

Heather M. Woods, P.G.
Senior Project Manager

A handwritten signature in black ink that reads 'Elizabeth Scaggs'.

Elizabeth Scaggs, P.G.
Senior Program Manager

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Appendix B:	Table 1 – Groundwater Analytical Summary
Appendix C:	Soil Boring Logs
Appendix D:	Laboratory Analytical Reports & Chain of Custody Documentation

SUPPLEMENTAL SITE INVESTIGATION REPORT

Cohn #1 Pipeline Release (11/08/2013)

NE 1/4, S25 T29N R10W
San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) $\frac{1}{4}$ of Section 25 in Township 29 North and Range 10 West (36.703146N, 107.829618W) in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

Excavation corrective action activities began December 18, 2013 and were completed April 23, 2014. During hydrocarbon affected soil removal, groundwater was encountered at the floor of the excavation prior to soils achieving acceptable New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) *Remediation Action Level* concentrations. Therefore, additional site investigation of groundwater was warranted. Additionally, during excavation activities, Enterprise elected to remove and properly dispose of an estimated 300 barrels of potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation. Details of the corrective actions are included in the *Corrective Action Report – Cohn #1 Pipeline Release* (Apex) dated June 27, 2014.

A topographic map depicting the location of the Site is included as Figure 1, a Site Vicinity Map is included as Figure 2, and a Site Plan is included as Figure 3 in Appendix A.

1.2 Project Objective

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

*Groundwater was encountered during excavation activities.

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of "30". This ranking is based on the following:

- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water wells or water sources were identified within the search radius, resulting in a ranking of "0" for the Wellhead Protection Area.
- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.

3.0 SITE INVESTIGATION

3.1 Soil Borings and Temporary Monitoring Points

Eight (8) soil borings (TMP-1 through TMP-8) were advanced in the vicinity of the former pipeline release. Soil boring TMP-8 was advanced topographically upgradient of the former point of release, and soil boring TMP-5 was advanced as near as practicable to the former point of release. Soil borings TMP-4 and TMP-7 were advanced on the east and west sides of the former excavation, and soil borings TMP-1 through TMP-3, and TMP-6 were advanced topographically downgradient of the former point of release.

Figure 3 of Appendix A is a Site Map which depicts the location of the soil boring locations and former extents of the excavation.

Soil samples were collected continuously, utilizing four-foot core barrel samplers to the termination depth of each soil boring. Soil samples were observed to document soil lithology, color, moisture content, and visual and olfactory evidence of petroleum hydrocarbons. Field headspace analysis was conducted by placing the portion of the soil sampled designated for field

screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

During the completion of each soil boring, an on-Site geoscientist documented the lithology encountered and constructed a continuous profile of the soil column from the surface to the boring terminus. Soil samples from each boring location were visually inspected and classified in the field. The lithology observed during the advancement of soil boring TMP-1 at the Site included moderate olive brown clayey sand from the ground surface to approximately 4 feet bgs, underlain by moderate olive brown poorly graded sand to the terminus of the boring at 12 feet bgs. A lense of silty clayey sand was observed from 7 feet to 8 feet bgs. The remaining soil borings advanced during the drilling activities exhibited lithologic columns similar to that observed at TMP-1. Detailed lithologic descriptions are presented on the soil boring logs included in Appendix C.

Overall, PID readings ranged from zero (0) parts per million (ppm) to 276 ppm. Soil borings TMP-4 and TMP-5 exhibited PID readings above 100 ppm at the capillary fringe zone. A PID reading of 35 ppm was documented at the capillary fringe zone in TMP-6. Similarly, a PID reading of 15 ppm was documented at the capillary fringe zone in TMP-7. Significant petroleum hydrocarbon vapors were not detected with the PID in soil samples collected from soil borings TMP-1 through TMP-4, and TMP-8. Field screening results are presented on soil boring logs included in Appendix C.

Subsequent to advancement, the soil borings were converted to temporary monitoring points. The monitoring points were completed using the following methodology:

- Installation of 5 feet of 1-inch inside diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap;
- Installation of 1-inch inside diameter, threaded flush joint PVC riser pipe to the ground surface; and
- Addition of pre-sieved 10/20 grade annular silica sand pack from the bottom of the soil boring to 2-feet above the top of the well screen.

The temporary monitoring points were developed by surging with a disposable bailer. Monitoring point construction details are presented on the soil boring logs included in Appendix C.

3.2 Groundwater Sampling Program

Prior to sample collection, the monitoring points were purged of three (3) casing volumes of groundwater, utilizing a dedicated, disposable bailer for each well. Subsequent to the completion of the purging process, one (1) groundwater sample was collected from each temporary monitoring well utilizing a disposable bailer. The groundwater samples were collected in laboratory supplied containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

3.3 Laboratory Analytical Program

The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021. The containers containing the samples for organic analyses were pre-preserved with HgCl₂.

Laboratory results are summarized in Table 1, included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

4.0 GROUNDWATER FLOW DIRECTION

The relative top-of-casing elevation of each of the temporary monitoring points was measured utilizing a laser level. After allowing at least 24 hrs for equilibration, Apex gauged the depth to fluids in each monitoring point. Based on the field measurements, the groundwater flow direction (gradient) at the Site is generally toward the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site. Groundwater is present at approximately 9.5 feet bgs at the Site.

A groundwater gradient map for the sampling event is included as Figure 4 (Appendix A).

5.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA and the New Mexico OCD. Apex utilized the New Mexico EMNRD OCD guidance and rules. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

5.1 Groundwater Samples

Apex compared BTEX concentrations or laboratory reporting limits (RLs) associated with the groundwater samples collected from temporary monitoring wells to the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards*. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

The groundwater samples collected from monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 micrograms per liter ($\mu\text{g/L}$) (TMP-1) to 1,400 $\mu\text{g/L}$ (TMP-6), which exceeded the WQCC *Groundwater Quality Standard* of 10 $\mu\text{g/L}$.

The groundwater samples collected from monitoring points TMP-2, TMP-4, TMP-5, and TMP-8 exhibited benzene concentrations ranging from below the laboratory RLs to 8.0 $\mu\text{g/L}$ (TMP-2), which are below the WQCC *Groundwater Quality Standard* of 10 $\mu\text{g/L}$.

The groundwater sample collected from temporary monitoring point TMP-6 exhibited a toluene concentration of 50 $\mu\text{g/L}$, which is below the WQCC *Groundwater Quality Standard* of 750 $\mu\text{g/L}$. The groundwater samples collected from the remaining monitoring points did not exhibit toluene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 $\mu\text{g/L}$.

The groundwater samples collected from temporary monitoring points TMP-3 through TMP-7 exhibited ethylbenzene concentrations ranging from 2.6 $\mu\text{g/L}$ (TMP-4) to 150 $\mu\text{g/L}$ (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 750 $\mu\text{g/L}$. The groundwater samples collected from the remaining temporary monitoring points did not exhibit ethylbenzene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 $\mu\text{g/L}$.

The groundwater sample collected from temporary monitoring point TMP-5 exhibited a xylenes concentration of 800 µg/L, which exceeded the WQCC *Groundwater Quality Standard* of 620 µg/L.

The groundwater samples collected from temporary monitoring points TMP-3, TMP-6, and TMP-7 exhibited xylenes concentrations ranging from 1.8 µg/L (TMP-7) to 490 µg/L (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 620 µg/L. The groundwater samples collected from the remaining monitoring points did not exhibit xylenes concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 620 µg/L.

6.0 FINDINGS AND RECOMMENDATIONS

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.

- Apex installed eight (8) temporary monitoring points at the Cohn #1 release Site utilizing a Geoprobe® drilling rig.
- During the completion of the sampling event, one (1) groundwater sample was collected from each temporary monitoring point utilizing bailing techniques.
- Based on field measurements, the groundwater flow direction at the Site is generally towards the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site.
- The groundwater samples collected from temporary monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 µg/L to 1,400 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.
- The groundwater sample collected from temporary monitoring points TMP-5 exhibited a xylenes concentration of 800 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L.
- The groundwater samples collected from the remaining monitoring points did not exhibit BTEX constituent concentrations above the WQCC *Groundwater Quality Standards*.

Based on the results of the supplemental site investigation, Apex has the following recommendations:

- Report the groundwater sampling results to the OCD;
- Plug and abandon the temporary monitoring points; and
- Perform additional delineation activities utilizing groundwater monitoring wells to complete the delineation of the dissolved-phase groundwater plume.

7.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g.

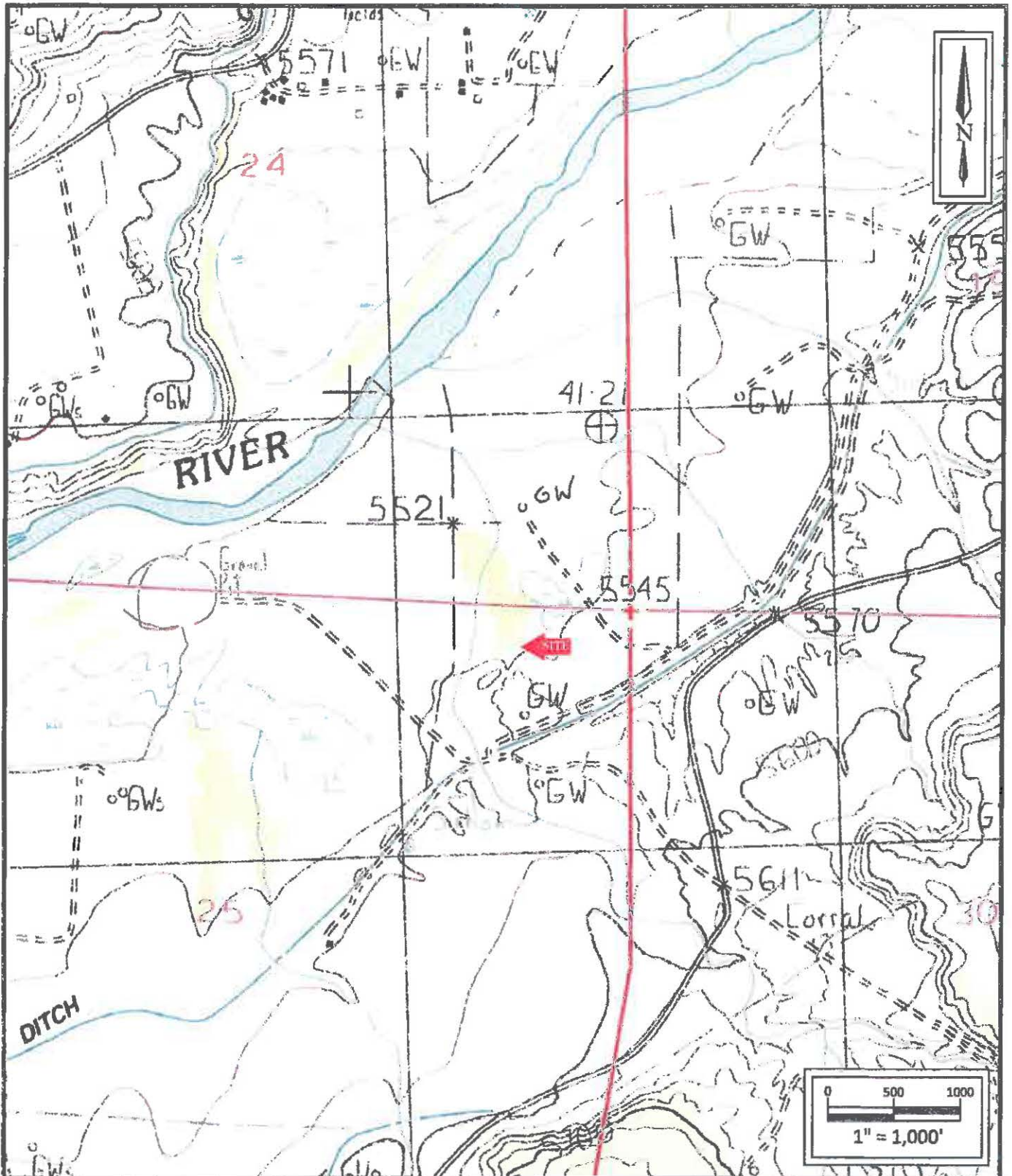
laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Cohn #1 Pipeline Release
 NE 1/4 S25 T29N R10W
 Blanco, San Juan County, NM
 36.703146N, -107.829618W

Project No. 7030413G018



Apex TITAN, Inc.
 806 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Blanco, NM Quadrangle
 1985



Cohn #1 Pipeline Release
 NE $\frac{1}{4}$ S25 T29N R10W
 Blanco, San Juan County, NM
 36.703146N, -107.829618W

Project No. 7030413G018



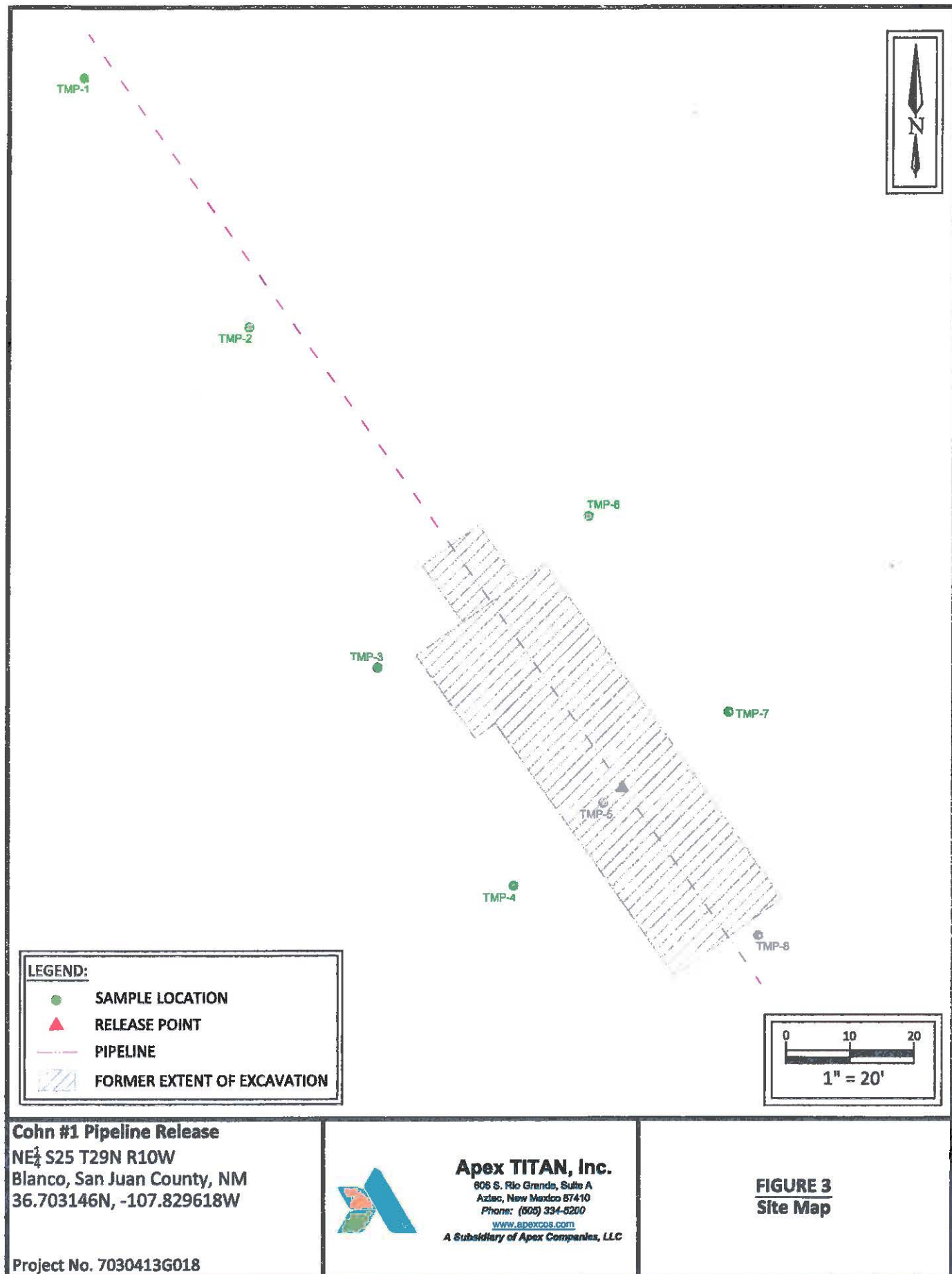
Apex TITAN, Inc.

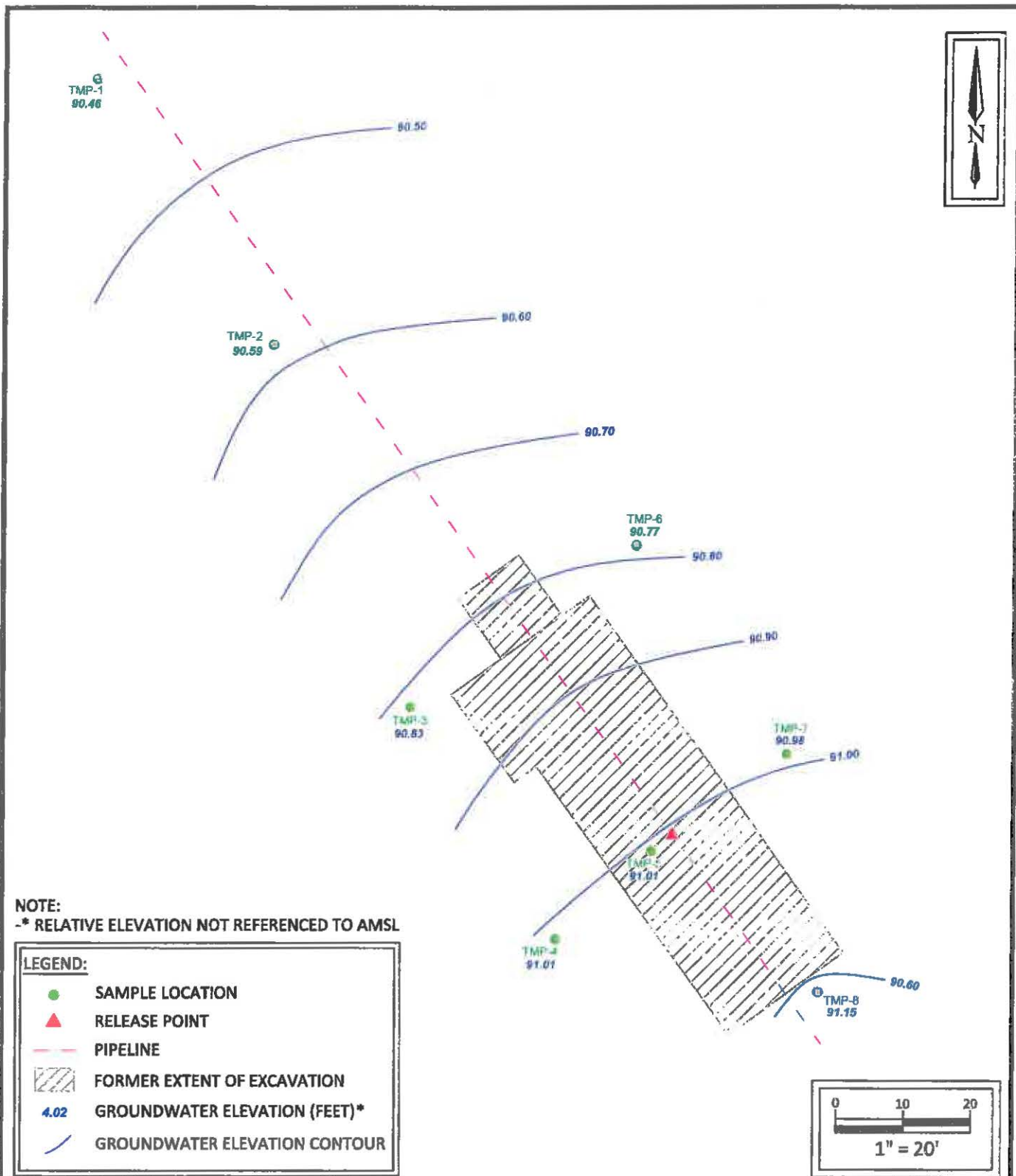
806 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-8200

www.apexcos.com

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FIGURE 2
Site Vicinity Map
2013 Aerial Photograph





Cohn #1 Pipeline Release
 NE $\frac{1}{4}$ S25 T29N R10W
 Blanco, San Juan County, NM
 36.703146N, -107.829618W

Project No. 7030413G018



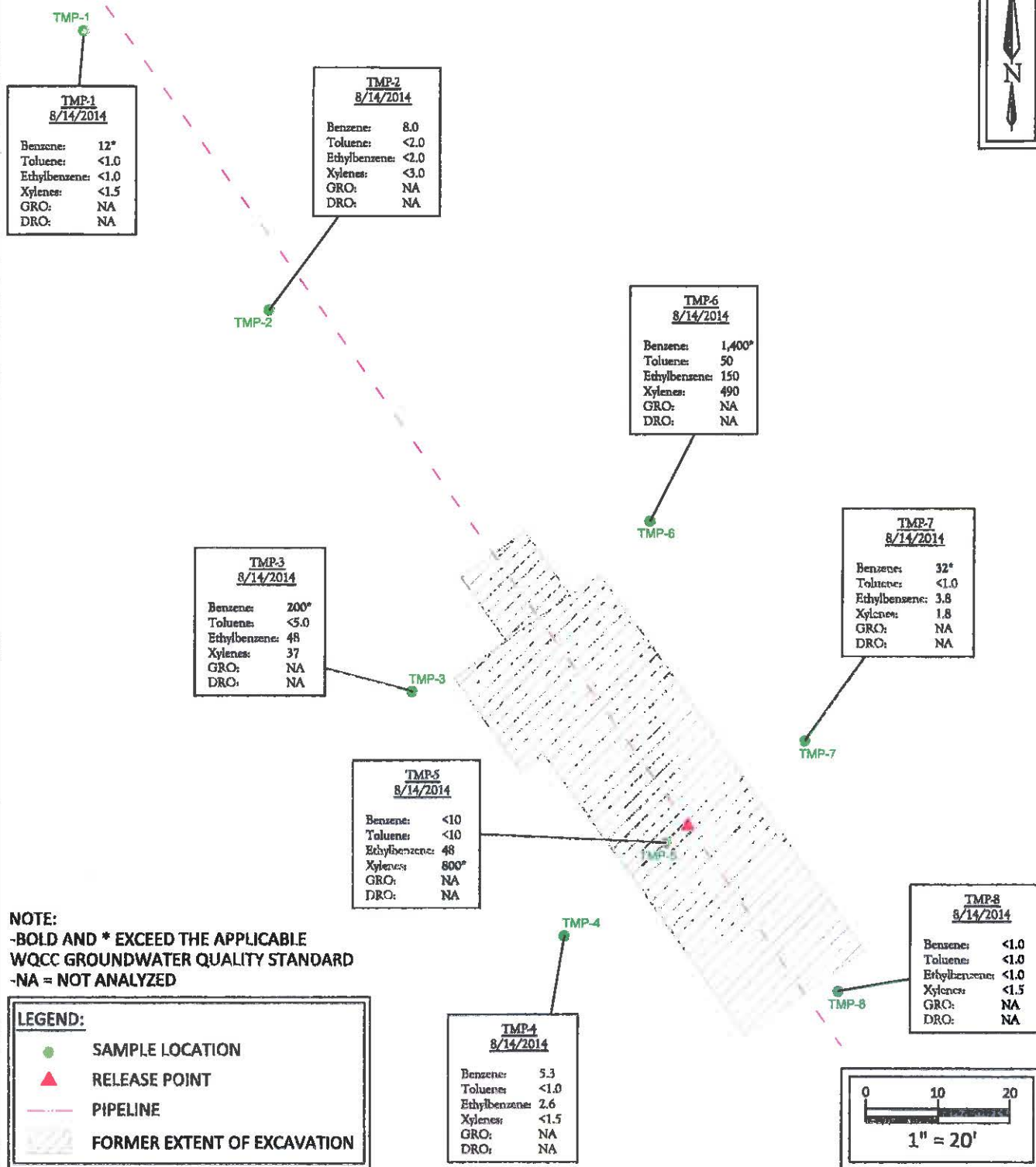
Apex TITAN, Inc.

906 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apex008.com

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FIGURE 4
Groundwater Gradient Map



Cohn #1 Pipeline Release
NE 1/4 S25 T29N R10W
Blanco, San Juan County, NM
36.703146N, -107.829618W



Apex TITAN, Inc.
606 S. Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcoos.com
A Subsidiary of Apex Companies, LLC

FIGURE 5
Groundwater
Concentration Map

Project No. 7030413G018

APPENDIX B

Tables

TABLE 1
Cohn #1 Pipeline Release
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards		10	750	750	620	NE	NE
TMP-1	8.14.14	12	<1.0	<1.0	<1.5	NA	NA
TMP-2	8.14.14	8.0	<2.0	<2.0	<3.0	NA	NA
TMP-3	8.14.14	200	<5.0	48	37	NA	NA
TMP-4	8.14.14	5.3	<1.0	2.6	<1.5	NA	NA
TMP-5	8.14.14	<10	<10	48	800	NA	NA
TMP-6	8.14.14	1,400	50	150	490	NA	NA
TMP-7	8.14.14	32	<1.0	3.8	1.8	NA	NA
TMP-8	8.14.14	<1.0	<1.0	<1.0	<1.5	NA	NA

Note: Concentrations in bold and yellow exceed the applicable New Mexico WQCC Groundwater Quality Standards

NA = Not Analyzed

NE = Not Established

<1.0 = the numeral (in this case "1.0") identifies the laboratory PQL

APPENDIX C

Soil Boring Logs



Apex TITAN, Inc.
11391 Meadowglan Lane, Suite H
Houston, Texas 77082
Phone: (281) 497-1865
www.apexcos.com
A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services
Project Name: Cohn #1 Pipeline Release
Project Location: Rural San Juan County, New Mexico
Project Manager: Kyle Summers

BORING LOG NUMBER

TMP-1

Project # 7030413G018.001

Date Sampled: August 14, 2014
Drilled by: Earthwork
Driller: L. Trujillo
Logged by: H. Woods
Sampler: H. Woods

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: -
West Coordinate: -
Bench Mark Elevation: N/A
☒ At Completion
☒ At Well Stabilization

Borehole Diameter: 2.25"
Casing Diameter: 1" PVC
Well Materials: N/A
Surface Completion: N/A
Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/STD READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							CLAYEY SAND: mod olive brown, dry to moist, no odor, no staining	
5							POORLY GRADED SAND: trace silt and clay, mod olive brown, moist, no odor, no staining	
10							-moist to wet -sandy silty clay lens @ 7 to 8	
15							TOTAL DEPTH OF BORING - 12.0 feet BGS	
20								
25								

Filter pack (20-40
clean silica sand)

Flush threaded 1" ID
Schedule 40 PVC with 0.010" machine
slotted openings (- 12 feet)

**Apex TITAN, Inc.**

11391 Meadowglen Lane, Suite H
Houston, Texas 77082
Phone: (281) 497-1685

www.apexcos.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services

Project Name: Cohn #1 Pipeline Release

Project Location: Rural San Juan County, New Mexico

Project Manager: Kyle Summers

BORING LOG NUMBER

TMP-2

Project # 7030413G018.001

Date Sampled: August 14, 2014
Drilled by: Earthwork
Driller: L. Trujillo
Logged by: H. Woods
Sampler: H. Woods

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: -
West Coordinate: -
Bench Mark Elevation: N/A
At Completion
At Well Stabilization

Borehole Diameter: 2.25"
Casing Diameter: 1" PVC
Well Materials: N/A
Surface Completion: N/A
Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FTD/FTD READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEFINITION)
0							CLAYEY SAND: mod olive brown, dry to slightly moist, no odor, no staining	
							POORLY GRADED SAND: trace silt and clay, mod olive brown, slightly moist to moist, no odor, no staining	
5							-black, wet, sewer odor, staining	
10							-trace gravel @ 10 - 12	
							-mod olive brown, sewer odor, some staining	
							-sandy silty clay lense @ 11 - 12	
							TOTAL DEPTH OF BORING - 12.0 feet BGS	
15								
20								
25								

Filter pack (20-40
clean silica sand)

Flush threaded 1" ID
Schedule 40 PVC with 0.010" machine
slotted openings (-12 feet)

12.0'

**Apex TITAN, Inc.**

11391 Meadowglen Lane, Suite H
Houston, Texas 77082
Phone: (281) 497-1665
www.apexcds.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services

Project Name: Cohn #1 Pipeline Release

Project Location: Rural San Juan County, New Mexico

Project Manager: Kyle Summers

BORING LOG NUMBER

TMP-3

Project # 7030413G018.001

Date Sampled: August 14, 2014

Drilled by: Earthworks

Driller: L. Trujillo

Logged by: H. Woods

Sampler: H. Woods

Ground Surface Elevation: N/A

Top of Casing Elevation: N/A

North Coordinate: -

West Coordinate: -

Bench Mark Elevation: N/A

At Completion

At Well Stabilization

Borehole Diameter: 2.25"

Casing Diameter: 1" PVC

Well Materials: N/A

Surface Completion: N/A

Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/FID READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0				-			CLAYEY SAND: mod olive brown, dry to moist, no odor, no staining	
				0			POORLY GRADED SAND: trace silt and sand, mod olive brown, moist, no odor, no staining	
				-			SANDY SILTY CLAY: black, moist, sewer odor, staining	
				3				
5				-			POORLY GRADED SAND: trace silt and clay, mod olive brown, moist, slight sewer odor, no staining, thin silty clay lenses	
				3				
				-			-black, sewer odor, staining	
				3				
				-			-wet	
10				3				
				-				
				3			-mod olive brown, slight sewer odor, no staining	
				1				
TOTAL DEPTH OF BORING - 13.0 feet BGS								Filter pack (20-40 clean silica sand) Flush, lanced 1" ID Schedule 40 PVC with 0.010" machine slotted openings (3-15 feet) 13.0'

**Apex TITAN, Inc.**

11391 Meadowglen Lane, Suite H
Houston, Texas 77082
Phone: (281) 497-1865
www.bdrx.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services

Project Name: Cohn #1 Pipeline Release

Project Location: Rural San Juan County, New Mexico

Project Manager: Kyle Summers

BORING LOG NUMBER

TMP-4

Project # 7030413G018.001

Date Sampled: August 14, 2014

Drilled by: Earthwork

Driller: L. Trujillo

Logged by: H. Woods

Sampler: H. Woods

Ground Surface Elevation: N/A

Top of Casing Elevation: N/A

North Coordinate: -

West Coordinate: -

Bench Mark Elevation: N/A

At Completion

At Well Stabilization

Borehole Diameter: 2.25"

Casing Diameter: 1" PVC

Well Materials: N/A

Surface Completion: N/A

Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							POORLY GRADED SAND: trace silt and clay, mod olive brown, dry to moist, no odor, no staining	
							-black, sewer odor, staining, slight degraded hydrocarbon odor	
5				7			CLAYEY SILT: black, moist, sewer odor, degraded hydrocarbon odor, staining	
				31			POORLY GRADED SAND: trace silt and clay, black, wet, sewer odor, staining	
10				3			-grading to mod olive brown	
				1			-mod olive brown	
				1				
15							TOTAL DEPTH OF BORING - 13.0 feet BGS	
20								
25								

Filter pack (20-40 clean silica sand)

Flush threaded 1" ID Schedule 40 PVC with 0.010" machine dotted openings (8-13 feet)

13.0'

**Apex TITAN, Inc.**11391 Meadowglen Lane, Suite H
Houston, Texas 77062
Phone: (281) 497-1885www.apexcos.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field ServicesProject Name: Cohn #1 Pipeline ReleaseProject Location: Rural San Juan County, New MexicoProject Manager: Kyle Summers

BORING LOG NUMBER

TMP-5Project # 7030413G018.001Date Sampled: August 14, 2014Drilled by: EarthworxDriller: L. TrujilloLogged by: H. WoodsSampler: H. WoodsGround Surface Elevation: N/ATop of Casing Elevation: N/ANorth Coordinate: -West Coordinate: -Bench Mark Elevation: N/A

At Completion

At Well Stabilization

Borehole Diameter: 2.25"Casing Diameter: 1" PVCWell Materials: N/ASurface Completion: N/ABoring Method: Geoprobe

DEPTH (#)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/FID READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							SILTY CLAYEY SAND: trace to with gravel, mod yellowish brown, dry to moist, no odor, no staining	
5				1				
10				41			POORLY GRADED SAND: trace silt and clay, mod olive brown with thin lenses of black, wet, sewer odor, staining -black, hydrocarbon odor, sewer odor, thin lenses of silty clay @ 8 - 10	
15				276				
20				13				
25							TOTAL DEPTH OF BORING - 13.0 feet BGS	

Filter pack (20-40
clean silica sand)Flash threaded 1" ID
Schedule 40 PVC with 0.010" machine
electrod openings (8-13 feet)

13.0'

**Apex TITAN, Inc.**

11391 Meadowglen Lane, Suite H
Houston, Texas 77082
Phone: (281) 497-1665
www.apexco.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services

Project Name: Cohn #1 Pipeline Release

Project Location: Rural San Juan County, New Mexico

Project Manager: Kyle Summers

BORING LOG NUMBER**TMP-6**

Project # 7030413G018.001

Date Sampled: August 14, 2014
Drilled by: Earthwork
Driller: L. Trujillo
Logged by: H. Woods
Sampler: H. Woods

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: -
West Coordinate: -
Bench Mark Elevation: N/A
At Completion
At Well Stabilization

Borehole Diameter: 2.25"
Casing Diameter: 1" PVC
Well Materials: N/A
Surface Completion: N/A
Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/ID READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							CLAYEY SAND: mod olive brown, dry to moist, no odor, no staining	
							POORLY GRADED SAND: trace silt and clay, mod olive brown to black @ 3, moist, slight sewer odor, degraded hydrocarbon odor	
3								
5								
							-clayey silt lens @ 7.5, wet	
35								
10							-sewer and hydrocarbon odor	
151								
31								
23								
							TOTAL DEPTH OF BORING - 13.0 feet BGS	
15								
20								
25								

Filter pack (20-40 clean silica sand)

13.0'

Flush threaded 1" ID
Schedule 40 PVC with 0.010" machine
slotted openings (8-13 feet)

**Apex TITAN, Inc.**11391 Meadowglen Lane, Suite H
Houston, Texas 77062
Phone: (281) 497-1665
www.apexcos.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field ServicesProject Name: Cohn #1 Pipeline ReleaseProject Location: Rural San Juan County, New MexicoProject Manager: Kyle Summers

BORING LOG NUMBER

TMP-7Project # 7030413G018.001Date Sampled: August 14, 2014Drilled by: EarthworxDriller: L. TrujilloLogged by: H. WoodsSampler: H. WoodsGround Surface Elevation: N/ATop of Casing Elevation: N/ANorth Coordinate: -West Coordinate: -Bench Mark Elevation: N/A☒ At Completion☐ At Well StabilizationBorehole Diameter: 2.25"Casing Diameter: 1" PVCWell Materials: N/ASurface Completion: N/ABoring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							POORLY GRADED SAND: trace silt and clay, mod olive brown, dry to moist, slight sewer odor, no staining	
5				1			POORLY GRADED SAND: trace silt and clay, black, moist, sewer and slightly degraded hydrocarbon odor, staining	
10				15				
				5				
				1				
				1				
15							TOTAL DEPTH OF BORING - 13.0 feet BGS	
20								
25								

Filter pack (20-40 clean silica sand)

13.0'

Finish threaded 1" ID
Schedule 40 PVC with 0.010" machine
slotted openings (8-13 feet)

**Apex TITAN, Inc.**

11391 Meadowglan Lane, Suite H
Houston, Texas 77062
Phone: (281) 497-1865
www.apexccos.com

A Subsidiary of Apex Companies, LLC

Client: Enterprise Field Services

Project Name: Cohn #1 Pipeline Release

Project Location: Rural San Juan County, New Mexico

Project Manager: Kyle Summers

BORING LOG NUMBER

TMP-8

Project # 7030413G018.001

Date Sampled: August 14, 2014
Drilled by: Earthwork
Driller: L. Trujillo
Logged by: H. Woods
Sampler: H. Woods

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: -
West Coordinate: -
Bench Mark Elevation: N/A
☒ At Completion
☒ At Well Stabilization

Borehole Diameter: 2.25"
Casing Diameter: 1" PVC
Well Materials: N/A
Surface Completion: N/A
Boring Method: Geoprobe

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PTD READING (ppm)	POTENTIAL METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0							CLAYEY SILTY SAND: mod olive brown, dry to moist, slight odor, no staining	
5				1				
							POORLY GRADED SAND: trace silt and clay, black, sewer and degraded hydrocarbon odor	
				3			-wet	
10							SANDY CLAYEY SILTY: black grading to mod olive brown, wet, sewer odor, staining grading to slight staining	
				1			POORLY GRADED SAND: with silt, trace clay, mod olive brown, wet, sewer odor, slight staining	
15							TOTAL DEPTH OF BORING - 13.0 feet BGS	
20								
25								

Filter pack (20-40 clean silica sand)

13.0'

Flush threaded 1" ID
Schedule 40 PVC with 0.010" machine
slotted openings (8-13 feet)

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 28, 2014

Kyle Summers
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL: (505) 599-2141
FAX

RE: Cohn #1

OrderNo.: 1408774

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/15/2014 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 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'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services

Client Sample ID: TMP-1

Project: Cohn #1

Collection Date: 8/14/2014 11:10:00 AM

Lab ID: 1408774-001

Matrix: AQUEOUS

Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	12	1.0		µg/L	1	8/25/2014 11:53:36 AM	R20777
Toluene	ND	1.0		µg/L	1	8/25/2014 11:53:36 AM	R20777
Ethylbenzene	ND	1.0		µg/L	1	8/25/2014 11:53:36 AM	R20777
Xylenes, Total	ND	1.5		µg/L	1	8/25/2014 11:53:36 AM	R20777
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	8/25/2014 11:53:36 AM	R20777
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	8/25/2014 11:53:36 AM	R20777
Surr: Dibromofluoromethane	89.6	70-130		%REC	1	8/25/2014 11:53:36 AM	R20777
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2014 11:53:36 AM	R20777

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Enterprise Field Services**Client Sample ID:** TMP-2**Project:** Cohn #1**Collection Date:** 8/14/2014 11:50:00 AM**Lab ID:** 1408774-002**Matrix:** AQUEOUS**Received Date:** 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	8.0	2.0		µg/L	2	8/25/2014 3:14:51 PM	R20777
Toluene	ND	2.0		µg/L	2	8/25/2014 3:14:51 PM	R20777
Ethylbenzene	ND	2.0		µg/L	2	8/25/2014 3:14:51 PM	R20777
Xylenes, Total	ND	3.0		µg/L	2	8/25/2014 3:14:51 PM	R20777
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: 4-Bromofluorobenzene	101	70-130		%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Dibromofluoromethane	97.9	70-130		%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Toluene-d8	101	70-130		%REC	2	8/25/2014 3:14:51 PM	R20777

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	Page 2 of 10
	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.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services

Client Sample ID: TMP-3

Project: Cohn #1

Collection Date: 8/14/2014 2:04:00 PM

Lab ID: 1408774-003

Matrix: AQUEOUS

Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	200	5.0		µg/L	5	8/25/2014 3:43:41 PM	R20777
Toluene	ND	5.0		µg/L	5	8/25/2014 3:43:41 PM	R20777
Ethylbenzene	48	5.0		µg/L	5	8/25/2014 3:43:41 PM	R20777
Xylenes, Total	37	7.5		µg/L	5	8/25/2014 3:43:41 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: 4-Bromofluorobenzene	88.7	70-130		%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Dibromofluoromethane	92.6	70-130		%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Toluene-d8	108	70-130		%REC	5	8/25/2014 3:43:41 PM	R20777

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.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services

Client Sample ID: TMP-4

Project: Cohn #1

Collection Date: 8/14/2014 2:10:00 PM

Lab ID: 1408774-004

Matrix: AQUEOUS

Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	5.3	1.0		µg/L	1	8/25/2014 5:10:12 PM	R20777
Toluene	ND	1.0		µg/L	1	8/25/2014 5:10:12 PM	R20777
Ethylbenzene	2.6	1.0		µg/L	1	8/25/2014 5:10:12 PM	R20777
Xylenes, Total	ND	1.5		µg/L	1	8/25/2014 5:10:12 PM	R20777
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Dibromofluoromethane	98.4	70-130		%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Toluene-d8	100	70-130		%REC	1	8/25/2014 5:10:12 PM	R20777

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	Page 4 of 10
	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.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services**Client Sample ID:** TMP-5**Project:** Cohn #1**Collection Date:** 8/14/2014 2:18:00 PM**Lab ID:** 1408774-005**Matrix:** AQUEOUS**Received Date:** 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	ND	10		µg/L	10	8/25/2014 5:39:04 PM	R20777
Toluene	ND	10		µg/L	10	8/25/2014 5:39:04 PM	R20777
Ethylbenzene	48	10		µg/L	10	8/25/2014 5:39:04 PM	R20777
Xylenes, Total	800	15		µg/L	10	8/25/2014 5:39:04 PM	R20777
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Dibromofluoromethane	91.4	70-130		%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Toluene-d8	102	70-130		%REC	10	8/25/2014 5:39:04 PM	R20777

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.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services**Client Sample ID:** TMP-6**Project:** Cohn #1**Collection Date:** 8/14/2014 2:25:00 PM**Lab ID:** 1408774-006**Matrix:** AQUEOUS**Received Date:** 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	1400	20		µg/L	20	8/25/2014 6:07:54 PM	R20777
Toluene	50	20		µg/L	20	8/25/2014 6:07:54 PM	R20777
Ethylbenzene	150	20		µg/L	20	8/25/2014 6:07:54 PM	R20777
Xylenes, Total	490	30		µg/L	20	8/25/2014 6:07:54 PM	R20777
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	20	8/25/2014 6:07:54 PM	R20777
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	20	8/25/2014 6:07:54 PM	R20777
Surr: Dibromofluoromethane	88.6	70-130		%REC	20	8/25/2014 6:07:54 PM	R20777
Surr: Toluene-d8	102	70-130		%REC	20	8/25/2014 6:07:54 PM	R20777

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.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services

Client Sample ID: TMP-7

Project: Cohn #1

Collection Date: 8/14/2014 2:30:00 PM

Lab ID: 1408774-007

Matrix: AQUEOUS

Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	32	1.0		µg/L	1	8/25/2014 6:36:39 PM	R20777
Toluene	ND	1.0		µg/L	1	8/25/2014 6:36:39 PM	R20777
Ethylbenzene	3.8	1.0		µg/L	1	8/25/2014 6:36:39 PM	R20777
Xylenes, Total	1.8	1.5		µg/L	1	8/25/2014 6:36:39 PM	R20777
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Toluene-d8	105	70-130		%REC	1	8/25/2014 6:36:39 PM	R20777

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.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

CLIENT: Enterprise Field Services

Client Sample ID: TMP-8

Project: Cohn #1

Collection Date: 8/14/2014 2:38:00 PM

Lab ID: 1408774-008

Matrix: AQUEOUS

Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: cadg
Benzene	ND	1.0		µg/L	1	8/25/2014 7:05:26 PM	R20777
Toluene	ND	1.0		µg/L	1	8/25/2014 7:05:26 PM	R20777
Ethylbenzene	ND	1.0		µg/L	1	8/25/2014 7:05:26 PM	R20777
Xylenes, Total	ND	1.5		µg/L	1	8/25/2014 7:05:26 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: Dibromofluoromethane	97.8	70-130		%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: Toluene-d8	106	70-130		%REC	1	8/25/2014 7:05:26 PM	R20777

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	Page 8 of 10
	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.	
	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#: 1408774

28-Aug-14

Client: Enterprise Field Services

Project: Cohn #1

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R20777	RunNo:	20777					
Prep Date:		Analysis Date:	8/25/2014	SeqNo:	604723	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Sum: 1,2-Dichloroethane-d4	10		10.00		99.8	70	130			
Sum: 4-Bromofluorobenzene	10		10.00		100	70	130			
Sum: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Sum: Toluene-d8	10		10.00		102	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R20777	RunNo:	20777					
Prep Date:		Analysis Date:	8/25/2014	SeqNo:	604724	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	108	70	130			
Toluene	21	1.0	20.00	0	104	80	120			
Sum: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Sum: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Sum: Dibromofluoromethane	9.5		10.00		94.7	70	130			
Sum: Toluene-d8	11		10.00		108	70	130			

Sample ID	1408774-003a ms	SampType:	MS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	TMP-3	Batch ID:	R20777	RunNo:	20777					
Prep Date:		Analysis Date:	8/25/2014	SeqNo:	604728	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.7	70	130			
Toluene	100	5.0	100.0	0	103	67.5	123			
Sum: 1,2-Dichloroethane-d4	49		50.00		98.0	70	130			
Sum: 4-Bromofluorobenzene	47		50.00		93.7	70	130			
Sum: Dibromofluoromethane	43		50.00		86.1	70	130			
Sum: Toluene-d8	51		50.00		102	70	130			

Sample ID	1408774-003a msd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	TMP-3	Batch ID:	R20777	RunNo:	20777					
Prep Date:		Analysis Date:	8/25/2014	SeqNo:	604729	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.6	70	130	0.0382	20	
Toluene	96	5.0	100.0	0	96.2	67.5	123	6.47	20	

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408774

28-Aug-14

Client: Enterprise Field Services

Project: Cohn #1

Sample ID	1408774-003a msd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	TMP-3	Batch ID:	R20777	RunNo:	20777					
Prep Date:		Analysis Date:	8/25/2014	SeqNo:	604729	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	51		50.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	44		50.00		87.9	70	130	0	0	
Surr: Dibromofluoromethane	44		50.00		88.4	70	130	0	0	
Surr: Toluene-d8	51		50.00		101	70	130	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.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Enterprise

Work Order Number: 1408774

RcptNo: 1

Received by/date:	LM	08/15/14
Logged By:	Celina Sessa	8/15/2014 8:00:00 AM
Completed By:	Celina Sessa	8/15/2014 9:35:43 AM
Reviewed By:		

Chain of Custody

- Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- 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)

- 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Client: Enterprise Field Services LLC

Mailing Address: 6114 Reilly Avenue
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP

☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Cohn #1

Project #:

70304136018

Project Manager:

Kyle Summers

Sampler: K. Summers / H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 3



**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	ANALYSIS	BTEX + MTFA	BTEX + MTFA	TPH 8015B	TPH (Method)	EDB (Method)	PAH's (8310)	RCRA 8 Metals	Anions (F, Cl)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOCs)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
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Date: 8/14/14 Time: 1710 Relinquished by: Heather M. Woods

Received by: Christine Wale Date: 8/14/14 Time: 1710

Date: 8/14/14 Time: 1815 Relinquished by: Chad Wale

Received by: [Signature] Date: 08/15/14 Time: 0800

Remarks: Direct bill Enterprise
Attn: Tom Long
Paykey: RB21200

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.



CORRECTIVE ACTION REPORT

Property:

**Cohn #1 Pipeline Release (11/08/2014)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico**

June 27, 2014
Apex Project No. 7030413G018

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Tom Long**

Prepared by:



Kyle Summers, C.P.G.
Branch Manager / Senior Geologist



Elizabeth Scaggs, P.G.
Senior Program Manager

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Appendix B:	Executed C-138 Solid Waste Acceptance Forms
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Appendix D:	Tables
Appendix E:	Laboratory Analytical Reports & Chain of Custody Documentation

CORRECTIVE ACTION REPORT

Cohn #1 Pipeline Release (11/08/2014)

NE 1/4, S25 T29N R10W
San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of chemicals of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex), formerly Southwest Geoscience, utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or, <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

*Groundwater was encountered during excavation activities.

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of "30". This ranking is based on the following:

- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.
- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within the search radius.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

Excavation activities associated with the pipeline repair were completed on December 18th, 2013. Soil samples (S-1 to S-8) were collected subsequent to the pipeline repair activities on December 18th, 2013. The analyses of these initial soil samples demonstrated that hydrocarbon affected soils remained in place at the Site.

Corrective action excavation proceeded at the Site on April 23rd, 2014. The excavation was extended in all four (4) cardinal directions from the initial release point, and groundwater was encountered during the excavation activities. Subsequent to encountering groundwater in the excavation, Enterprise elected to remove and properly dispose of an estimated 300 bbls of the potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation.

The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands, silty sands, and silty clays.

During excavation activities, air in the breathing zone was monitored to ensure that the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 200 parts per million (ppm) Time Weighted Average (TWA) for an 8-hour work day was not exceeded. Additionally, Enterprise monitored the excavation for explosive atmosphere conditions and oxygen deficiency prior to any entries into the excavation.

Approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The executed C-138 forms are provided in Appendix B. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil and Water Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eighteen (18) final confirmation samples (S-9 through S-26) from the resulting excavation for laboratory analysis. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample was collected from the open excavation and submitted for laboratory analysis, to evaluate the potential for groundwater impact at the Site. The water sample was collected utilizing a disposable bailer.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Envirotech, Inc. Analytical Laboratory in Bloomfield, New Mexico, and/or Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

The water sample and confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1 and Table 2, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the excavated area to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation sample collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory detection limits to 30.5 milligrams per Kilogram (mg/Kg) which are below the OCD RAL.

Confirmation sample results are provided in Table 1 in Appendix D.

4.2 Water Sample

Apex compared the BTEX concentrations associated with the water sample collected from the open excavation area to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analysis of the water sample (WS-1) indicates a benzene concentration of 780 micrograms/Liter ($\mu\text{g/L}$), which exceeds the WQCC GQS of 10 $\mu\text{g/L}$.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 $\mu\text{g/L}$, which is equal to the WQCC GQS of 750 $\mu\text{g/L}$.
- The laboratory analysis of WS-1 indicates an ethylbenzene concentration of 60 $\mu\text{g/L}$, which is below the WQCC GQS of 750 $\mu\text{g/L}$.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 $\mu\text{g/L}$, which exceeds the WQCC GQS of 620 $\mu\text{g/L}$.

The laboratory analysis of water sample WS-1 identified a TPH GRO concentration of 5.2 milligrams per Liter (mg/L) and a TPH DRO concentration of 5.2 mg/L. TPH GRO/DRO do not have established WQCC GQSs.

It should be noted that due to the "mixing/blending" nature of excavation activities, as well as the characteristics of the native media comprising the local aquifer and vadose zone, open

excavation water sample analyses are sometimes not indicative of actual groundwater concentrations in the area.

5.0 FINDINGS AND RECOMMENDATIONS

The Cohn #1 pipeline release site is located within the Enterprise pipeline ROW in the NE ¼ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico. The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. No surface expression of the release was evident. Soil impact at the Site was remediated by physical removal (excavation).

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty-sands.
- The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.
- Groundwater was encountered during the corrective action excavation activities. A water sample was collected from the open excavation and submitted for laboratory analysis.
- The laboratory analysis of the water sample indicates a benzene concentration of 780 micrograms/Liter (µg/L), which exceeds the WQCC GQS of 10 µg/L.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 µg/L, which is equal to the WQCC GQS of 750 µg/L.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 µg/L, which exceeds the WQCC GQS of 620 µg/L.
- Prior to backfilling, eighteen (18) final confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD RALs for a Site ranking of "30".
- A total of approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

Based on the laboratory analytical results, no further action appears warranted regarding soil impact at the Site, however, groundwater may be affected by the petroleum hydrocarbon release.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures





Cohn #1 Pipeline Release
 NE $\frac{1}{4}$ S25 T29N R10W
 Blanco, San Juan County, NM
 36.703146N, -107.829618W

Project No. 7030413G018



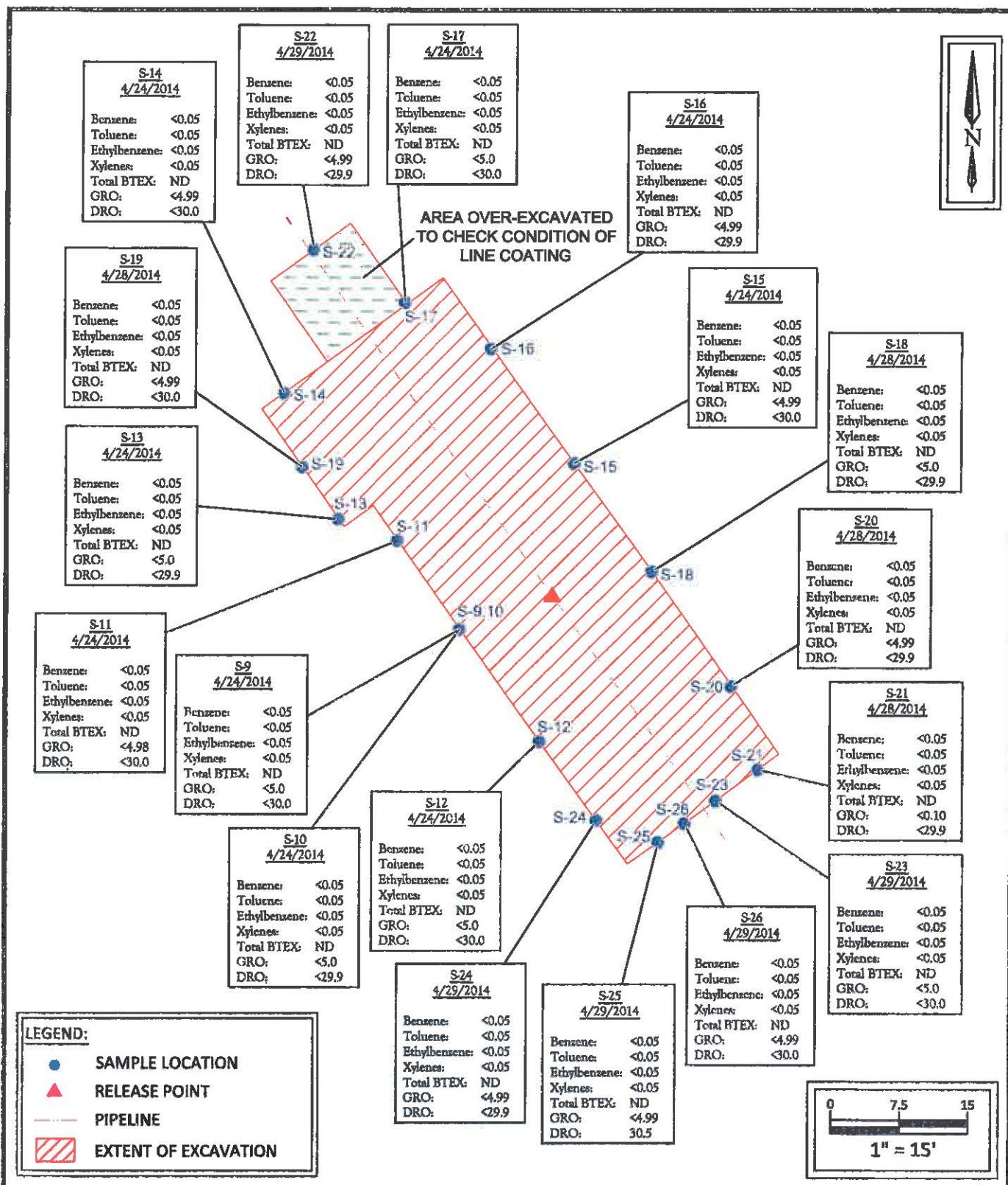
Apex TITAN, Inc.

606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apexcos.com

A Subsidiary of Apex Companies, LLC

FIGURE 2
Site Vicinity Map
 2013 Aerial Photograph



Cohn #1 Pipeline Release
 NE 1/4 S25 T29N R10W
 Blanco, San Juan County, NM
 36.703146N, -107.829618W

Project No. 7030413G018



Apex TITAN, Inc.

606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apexcoos.com

A Subsidiary of Apex Companies, LLC

FIGURE 3
Site Map with
Sample Locations

APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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-138
Revised August 1, 2011
97057-0633
*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 Avenue, Farmington, NM 87401	April '14
2. Originating Site: Cohn 29-10-25 #1 Pipeline Release	
3. Location of Material (Street Address, City, State or ULSTR): Unit A Sec 25 T 29N R 10W; 36.70314, -107.829618, San Juan County, NM	
4. Source and Description of Waste: Hydrocarbon impacted soil from a pipeline excavation.	
5. Estimated Volume 200 yd ³ bbls Known Volume (to be entered by the operator at the end of the haul) 720 yd ³ bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby PRINT & SIGN NAME COMPANY NAME 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. <u>Operator Use Only</u> <u>Waste Acceptance Frequency</u> ☐ Monthly ☐ Weekly ☐ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☒ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> 4-23-14, representative for <u>Enterprise Field Services, LLC</u> authorize <u>Envirotech, Inc.</u> to Generator Signature complete the required testing/sign the Generator Waste Testing Certification. I, <u>Kendra Running</u> , representative for <u>Envirotech</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 landfills 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. 6. Transporter: West State Energy Contractors <u>Moss</u>	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: #43 Road 7175, South of Bloomfield NM
Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Running

TITLE: Waste Coordinator

DATE: 4/23/14

SIGNATURE: Kendra Running
Surface Waste Management Facility Authorized Agent

TELEPHONE NO. (505) 632-0615



Bill of Lading

MANIFEST # 46557
DATE 4/23/14 JOB # 97657-0633

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 Lohm 29-10-25 #1	LFTI-5	cont. Soil	A21	10	-	Moss	47	1040	Lee Moss	
2	"	"	cont. Soil	A21	10	-	Moss	17	1040	Og Kobza	
3	"	"	cont. Soil	A21	10	-	Moss	15	1040	John Buck	
4	"	"	cont. Soil	A21	20	-	Moss	47	1210	Lee Moss	
5	"	"	cont. Soil	A21	10	-	Moss	17	1215	Og Kobza	
6	"	"	cont. Soil	A21	10	-	Moss	15	1210	John Buck	
7	"	"	cont. Soil	A21	10	-	Moss	47	1345	Lee Moss	
8	"	"	cont. Soil	A21	10	-	Moss	17	1346	Og Kobza	
9	"	"	cont. Soil	A21	10	-	Moss	15	1350	John Buck	
10	"	"	"	A21	10	-	Moss	47	15:35	Lee Moss	
11	"	"	"	A21	10	-	Moss	17	15:40	Og Kobza	
12	"	"	"	A21	10	-	Moss	15	15:45	John Buck	
RESULTS:		LANDFARM EMPLOYEE:		NOTES:							
274	CHLORIDE TEST	3	Patrick Bateman 120 Blew		ENTERED APR 29 2014						
	PAINT FILTER TEST	3									
				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. Moss Excavation NAME Lee Moss SIGNATURE Lee Moss
COMPANY CONTACT Lee Moss PHONE 801-1803 DATE 4-23-14

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 46566 97057-0633
DATE 4/24/14 JOB # 92290-

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 Conn 29-10-25 #1	LEII-5	Cont. Soil	D-21	10	—	Moss	47	940	Lee Moss
2	u u	u u	u u	D-21	10	—	Moss	17	945	Q. Kobayashi
3	u u	u u	u u	D-21	10	—	Moss	15	945	Patrick B. Mearns
4	u u	u u	u u	D-21	10	—	Moss	47	1120	Lee Moss
5	u u	u u	u u	D-21	10	—	Moss	17	1125	Q. Kobayashi
6	u u	u u	u u	D-21	10	—	Moss	15	1128	Patrick B. Mearns
7	u u	u u	u u	D-21	10	—	Moss	47	1258	Lee Moss
8	u u	u u	u u	D-21	10	—	Moss	17	1259	Q. Kobayashi
9	u u	u u	u u	D-21	10	—	Moss	15	1301	Patrick B. Mearns
10	u u	u u	u u	D-21	10	—	Moss	47	15:20	Lee Moss
11	u u	u u	u u	D-21	10	—	Moss	15	15:20	Q. Kobayashi
12	u u	u u	u u	D-21	10	—	Moss	15	15:25	Patrick B. Mearns
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
271	CHLORIDE TEST	3	Certification of above receipt & placement		ENTERED APR 29 2014					
	PAINT FILTER TEST	3								

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. Moss Excavation NAME Lee Moss SIGNATURE Lee Moss
COMPANY CONTACT Lee Moss PHONE 801-1803 DATE 4-24-14

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Bill of Lading

MANIFEST # **46574**
DATE **4/25/14** JOB # **97057-0633**

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 Contn 29-10-25 #1	LFIT-5	cont. soil	C21	10	-	Moss	17	905	Q Kobza
2	"	"	cont. soil	C21	10	-	Moss	15	910	Nick Bink
3	"	"	cont. soil	C21	10	-	Moss	47	910	Lee Moss
4	"	"	cont. soil	C21	10	-	Moss	47	1050	Lee Moss
5	"	"	cont. soil	C21	10	-	Moss	17	1050	Q Kobza
6	"	"	cont. soil	C21	10	-	Moss	15	1050	Nick Bink
7	"	"	cont. soil	C21	10	-	Moss	17	1245	Q Kobza
8	"	"	cont. soil	C21	10	-	Moss	47	1245	Lee Moss
9	"	"	cont. soil	C21	10	-	Moss	15	1280	Nick Bink
10	"	"	cont. soil	C21	10	-	Moss	47	1500	Lee Moss
11	"	"	cont. soil	C21	10	-	Moss	17	1500	Q Kobza
12	"	"	cont. soil	C21	10	-	Moss	15	1500	Nick Bink
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
CHLORIDE TEST 3		Patrick Bateman		120 Blew						
PAINT FILTER TEST 3		Certification of above receipt & placement		ENTERED APR 29 2014						

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. **Moss Ex** NAME **Q Kobza** SIGNATURE **Q Kobza**
COMPANY CONTACT **See Moss** PHONE **505 801 803** DATE **4/25/14**
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Bill of Lading

MANIFEST # **46585**DATE **4/28/14** JOB # **97A57-0633**

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 Cohn 29-10-25 #1	LEII-5	Cont. Soil	B-17	10	-	Moss	17	1050	OK Kobza	
2	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	47	1100	Lee Moss
3	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	15	1100	Lee Moss
4	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	47	1150	Lee Moss
5	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	17	1255	OK Kobza
6	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	15	1310	Lee Moss
7	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	47	1435	Lee Moss
8	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	17	1437	OK Kobza
9	"	"	LEII-5	cont. Soil	B-17	10	-	Moss	15	1443	Lee Moss
						90					
RESULTS:			LANDFARM	NOTES: ENTERED MAY 01 2014							
<271	CHLORIDE TEST	2	EMPLOYEE:								
	PAINT FILTER TEST	2	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. Moss Ex NAME OK Kobza SIGNATURE OK Kobza
COMPANY CONTACT OK Kobza PHONE 970 553 0393 DATE 4/28/14
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Bill of Lading

MANIFEST # **46586**DATE **4/28/14** JOB # **97057-0633**

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	Clean Fill		10	-	Moss	17	1100	OJ Kobza
2	"	"	Clean Fill		10	-	Moss	47	1100	Lee Moss
3	"	"	Clean Fill		10	-	Moss	15	1100	Patrick B. M. K.
4	"	"	Clean Fill		10	-	Moss	47	1250	Lee Moss
5	"	"	Clean Fill		10	-	Moss	17	1255	OJ Kobza
6	"	"	Clean Fill		10	-	Moss	15	1310	Patrick B. M. K.
7	"	"	Clean Fill		10	-	Moss	47	1435	Lee Moss
8	"	"	Clean Fill		10	-	Moss	17	1437	OJ Kobza
9	"	"	Clean Fill		10	-	Moss	15	1443	Patrick B. M. K.
					90					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
☒	CHLORIDE TEST	☒	Patrick B. M. K.	ENTERED MAY 01 2014						
☒	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. **Moss Ex** NAME **OJ Kobza** SIGNATURE **OJ Kobza**
COMPANY CONTACT **OJ Kobza** PHONE **9705530393** DATE **4/28/14**
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Bill of Lading

MANIFEST # **46592**DATE **4/29/14** JOB # **97057-0633**

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	CONM ^{Environ 29-10-25} #10	LFII-5	cont. Soil	B20	10	-	Moss	15	900	Nathan B. McKinn
2	" "	LFII-5	cont. Soil	B20	10	-	Moss	17	905	ag Kobza
3	" "	LFII-5	" "	B20	10	-	Moss	47	1015	Lee Moss
4	" "	LFII-5	" "	B20	10	-	Moss	15	1055	Nathan B. McKinn
5	" "	LFII-5	" "	B20	10	-	Moss	17	1055	ag Kobza
6	" "	LFII-5	" "	B20	10	-	Moss	47	1135	Lee Moss
7	" "	LFII-5	" "	B20	10	-	Moss	15	1258	Nathan B. McKinn
8	" "	LFII-5	" "	B20	10	-	Moss	17	1300	ag Kobza
9	" "	LFII-5	" "	B20	10	-	Moss	47	1303	Lee Moss
10	" "	LFII-5	" "	B20	10	-	Moss	15	1510	Nathan B. McKinn
11	" "	LFII-5	" "	B20	10	-	Moss	17	1516	ag Kobza
12	" "	LFII-5	" "	B20	10	-	Moss	47	1517	Lee Moss
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
4271	CHLORIDE TEST	3	Patrick Bateman							
	PAINT FILTER TEST	3	Certification of above receipt & placement		ENTERED MAY 01 2014					

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. Moss Excavation NAME Nathan B. McKinn SIGNATURE Nathan B. McKinn
COMPANY CONTACT Nathan B. McKinn PHONE 505-320-8617 DATE 4-29-14

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Bill of Lading

MANIFEST # 46593DATE 4/29/14 JOB # 97057-0633

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 Conn 29-10-35	Clean Fill		10	-	Moss	15	900	Nathan B. McKinney
2	u	u	u	u	10	-	Moss	17	905	Lee Moss
3	u	u	u	u	10	-	Moss	47	1015	Lee Moss
4	u	u	u	u	10	-	Moss	15	1055	Nathan B. McKinney
5	u	u	u	u	10	-	Moss	17	1055	Lee Moss
6	u	u	u	u	10	-	Moss	47	1135	Lee Moss
7	u	u	u	u	10	-	Moss	15	1251	Nathan B. McKinney
8	u	u	u	u	10	-	Moss	17	1300	Lee Moss
9	u	u	u	u	10	-	Moss	47	1303	Lee Moss
10	u	u	u	u	10	-	Moss	15	1510	Nathan B. McKinney
11	u	u	u	u	10	-	Moss	17	1510	Lee Moss
12	u	u	u	u	10	-	Moss	47	1510	Lee Moss
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
CHLORIDE TEST		Patrick B. Bateman		120 Bbls						
PAINT FILTER TEST		Certification of above receipt & placement				ENTERED MAY 01 2014				

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. Moss Excavation NAME Nathan B. McKinney SIGNATURE Nathan B. McKinney
COMPANY CONTACT Nathan B. McKinney PHONE 505-320-8217 DATE 4-29-14

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Bill of Lading

MANIFEST # 46605DATE 4-30-14 JOB # 97057-0633

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 Cohn	LFI 5	CONC SOIL	C-38	10	-	MOSS	15	915	Nathan B. McKinney
2	29-10-25-	"	"	C-38	10	-	MOSS	47	920	Lee Moss
3	1	"	"	C-38	10	-	MOSS	17	925	Q Kobza
4	"	"	"	C-38	10	-	MOSS	15	1130	Lee Moss
5	"	"	"	C-38	10	-	MOSS	47	1140	Lee Moss
6	"	"	"	C-38	10	-	MOSS	17	114	Q Kobza
7	"	"	"	C-38	10	-	MOSS	47	1330	Lee Moss
8	"	"	"	C-38	10	-	MOSS	17	1330	Q Kobza
9	"	"	"	C-38	10	-	MOSS	15	1335	Nathan B. McKinney
10	"	"	"	C-38	10	-	MOSS	47	1600	Lee Moss
11	"	"	"	C-38	10	-	MOSS	17	1600	Q Kobza
12	"	"	"	C-38	10	-	MOSS	15	1600	Nathan B. McKinney
RESULTS:		LANDFARM EMPLOYEE:		GARY ROBINSON 120 Certification of above receipt & placement		NOTES: ENTERED MAY 01 2014				
<271	CHLORIDE TEST	3								
	PAINT FILTER TEST	3								

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. MOSS EX NAME Nathan B. McKinney SIGNATURE Nathan B. McKinney
COMPANY CONTACT Lee Moss PHONE 801-1803 DATE 4-30-14

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Bill of Lading

MANIFEST # **46606**DATE **4-30-14** JOB # **97057-0633**

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 Clean	Fill	—	10	—	MOSS	15	915	Nathan B. McK
2	" "	29-10-25	SOIL	—	10	—	MOSS	47	920	Lee Moss
3	" "	"	"	—	10	—	MOSS	17	925	Og Kobza
4	" "	"	"	—	10	—	MOSS	15	1130	Nathan B. McK
5	" "	"	"	—	10	—	MOSS	47	1140	Lee Moss
6	" "	"	"	—	10	—	MOSS	17	1141	Og Kobza
7	" "	"	"	—	10	—	MOSS	47	1330	Lee Moss
8	" "	"	"	—	10	—	MOSS	17	1330	Og Kobza
9	" "	"	"	—	10	—	MOSS	15	1335	Nathan B. McK
10	" "	"	"	—	10	—	MOSS	47	1600	Lee Moss
11	" "	"	"	—	10	—	MOSS	17	1600	Og Kobza
12	" "	"	"	—	10	—	MOSS	15	1600	Nathan B. McK
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
☒ CHLORIDE TEST		GARY ROBINSON		ENTERED MAY 01 2014						
☒ 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. **MOSS EX.** NAME **Nathan B. McK** SIGNATURE **Nathan B. McK**
COMPANY CONTACT **Lee Moss** PHONE **801-1803** DATE **4-30-14**

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Bill of Lading

MANIFEST # **46620**

DATE 5-1-14

JOB # 97057-0633

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	Enurotech Landfarm	Cohn Enterprise 29-10-25 IIIS	Clean F.V.		10	/	MOSS EX	15	0934	Nathan B. Kinn
2	"	"	"		10	/	MOSS	47	0935	Lee Moss
3	"	"	"		10	/	MOSS	17	0938	of Koby
					30					
RESULTS:		LANDFARM EMPLOYEE: Devin Roberts				NOTES:				
/	CHLORIDE TEST	/	Certification of above receipt & placement							
/	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. Moss Excavation NAME Nathan B. McKinney SIGNATURE Nathan B. McKinney
COMPANY CONTACT Lee Moss PHONE 801-1803 DATE 5-7-14

Signatures required prior to distribution of the legal document.

APPENDIX C

Photographic Documentation

Photograph 1

Release area prior to excavation activities.



Photograph 2

Initial excavation after line repairs completed.



Photograph 3

Removing impact on west side of excavation. Note dark anaerobic material from natural decay processes.



Photograph 4

Removing impacted material from northwest portion of excavation.



Photograph 5

Excavation prior to stripping back soil along pipeline.



Photograph 6

General view of reclaimed area after excavation backfill.



APPENDIX D

Tables



TABLE 1
Cohn #1 Pipeline Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Samples for Soils Removed by Excavation									
S-1	12/18/2013		2.73	31.3	6.33	73.6	114	397	690
S-2	12/18/2013		8.11	78.7	15.4	165	267	806	3,850
S-3	12/18/2013		<0.50	24.1	1.69	60.1	85.9	489	4,190
S-4	12/18/2013		<0.05	<0.05	<0.05	<0.05	ND	6.23	285
S-5	12/18/2013		<0.50	5.93	<0.50	18.7	24.6	207	1,550
S-6	12/18/2013		<0.05	3.18	0.60	10.4	14.2	75.6	696
S-7	12/18/2013		<0.05	<0.05	<0.05	<0.05	ND	7.19	103
S-8	12/18/2013		<0.50	23.6	2.22	66.6	92.4	548	2,270
Stockpile Samples									
SP-1	4/7/2014		<0.12	<0.25	<0.25	3.2	3.2	120	1,900
SP-2	4/7/2014		<0.12	1.5	0.38	7.2	9.08	110	1,200
Confirmation Samples for Soils Remaining in Place									
S-9	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
S-10	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9
S-11	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.98	<30.0
S-12	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
S-13	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9
S-14	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
S-15	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
S-16	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-17	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
S-18	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9
S-19	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
S-20	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-21	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<0.10	<29.9
S-22	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-23	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0



TABLE 1
Cohn #1 Pipeline Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
S-24	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-25	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	30.5
S-26	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0

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

NA = Not Analyzed

NE = Not Established

ND = Not Detected



TABLE 2
Cohn #1 Pipeline Release
WATER ANALYTICAL SUMMARY

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		10	750	750	620	NE	NE
WS-1	4/29/2014	780	750	60	730	5.2	5.2

Note: Concentrations in bold and yellow exceed the applicable WQCC Standards

NA = Not Analyzed

NE = Not Established

APPENDIX E

Laboratory Data Reports & Chain-of-Custody Documentation



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 16451

Samples Received: 12/18/2013 3:36:00PM

Job Number: 03022-0001

Work Order: P312087

Project Name/Location: Cohn #1

Entire Report Reviewed By:

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

Date: 12/20/13

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: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1	P312087-01A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-2	P312087-02A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-3	P312087-03A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-4	P312087-04A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-5	P312087-05A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-6	P312087-06A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-7	P312087-07A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-8	P312087-08A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.

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

 envirotechllc.com
 laboratory@envirotechllc.com

Enterprise Products
 614 Reilly Ave
 Farmington NM, 87401

 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

S-1
P312087-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<u>Volatile Organics by EPA 8021</u>										
Benzene	2.73	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
Toluene	31.3	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	6.33	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylenc	59.6	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	14.0	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	73.6	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
Total BTEX	114	0.05	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		132 %		80-120		1351031	12/18/13	12/19/13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		516 %		80-120		1351031	12/18/13	12/19/13	EPA 8021B	S-02
<u>Nonhalogenated Organics by 8015</u>										
Gasoline Range Organics (C6-C10)	397	5.00	mg/kg	1		1351031	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	690	30.0	mg/kg	1		1351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	1090	5.00	mg/kg			[CALC]	12/18/13	12/19/13	EPA 8015D	

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 envirotech-inc.com
 laboratory@envirotech-inc.com

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 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

S-2
P312087-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	8.11	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Toluene	78.7	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	15.4	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylene	132	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	32.3	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	165	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total BTEX	267	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		267 %		80-120	1351031	12/18/13	12/19/13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		600 %		80-120	1351031	12/18/13	12/19/13	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	806	4.99	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	3850	29.9	mg/kg	1	1351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	4660	4.99	mg/kg		[CALC]	12/18/13	12/19/13	EPA 8015D	

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Enterprise Products
 614 Reilly Ave
 Farmington NM, 87401

 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

S-3
P312087-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	24.1	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	1.69	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	52.1	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	7.97	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	60.1	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	85.9	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		105 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		86.3 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	489	49.9	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	4190	29.9	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	4680	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	

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Project Name: Cohn #1
Project Number: 03022-0001
Project Manager: Kyle Summers-SW Geoscience

Reported:
20-Dec-13 10:55

S-4

P312087-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %		80-120		1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		108 %		80-120		1351031	12/19/13	12/19/13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	6.23	4.98	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	285	30.0	mg/kg	1		1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	291	4.98	mg/kg			[CALC]	12/19/13	12/19/13	EPA 8015D	

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 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
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S-5
P312087-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	5.93	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	17.7	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	1.01	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	18.7	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	24.6	0.50	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %		80-120		1351031	12-19-13	12-19-13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		103 %		80-120		1351031	12-19-13	12-19-13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	207	49.9	mg/kg	10		1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	1550	29.9	mg/kg	1		1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	1760	29.9	mg/kg			[CALC]	12/19/13	12/19/13	EPA 8015D	

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 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

S-6
P312087-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	3.18	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	0.60	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	8.80	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	1.57	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	10.4	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	14.2	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		116 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		128 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	S-02
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	75.6	4.99	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	696	30.0	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	771	4.99	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	

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Enterprise Products	Project Name:	Cohn #1	Reported:
614 Reilly Ave	Project Number:	03022-0001	20-Dec-13 10:55
Farmington NM, 87401	Project Manager:	Kyle Summers-SW Geoscience	

S-7

P312087-07 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %		80-120		1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		106 %		80-120		1351031	12/19/13	12/19/13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	7.19	5.00	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	103	29.9	mg/kg	1		1351031	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	110	5.00	mg/kg			[CALC]	12/19/13	12/19/13	EPA 8015D	

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envirotech inc.com
laboratory@envirotech-inc.com

Enterprise Products
 614 Reilly Ave
 Farmington NM, 87401

 Project Name: Cohn #1
 Project Number: 03022-0001
 Project Manager: Kyle Summers-SW Geoscience

 Reported:
 20-Dec-13 10:55

S-8
P312087-08 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	23.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	2.22	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	55.9	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	10.8	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	66.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	92.5	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		112 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		113 %		80-120	1351031	12/19/13	12/19/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	548	49.8	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	2720	29.9	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	3270	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Cohn #1
Project Number: 03022-0001
Project Manager: Kyle Summers-SW Geoscience

Reported:
20-Dec-13 10:55

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
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Batch 1351031 - Purge and Trap EPA 5030A

Blank (1351031-BLK1)

Prepared: 18-Dec-13 Analyzed: 19-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	52.6		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			

Duplicate (1351031-DUP1)

Source: P312087-01

Prepared: 18-Dec-13 Analyzed: 19-Dec-13

Benzene	ND	0.50	mg/kg		2.73				30	D1
Toluene	17.4	0.50	"		31.3			57.0	30	D1
Ethylbenzene	0.67	0.50	"		6.33			162	30	D1
p,m-Xylene	40.6	0.50	"		59.6			38.0	30	D1
o-Xylene	6.19	0.50	"		14.0			77.2	30	D1
Surrogate: 1,3-Dichlorobenzene	58.2		ug/L	50.0		116	80-120			
Surrogate: Bromochlorobenzene	58.3		"	50.0		117	80-120			

Matrix Spike (1351031-MS1)

Source: P312087-01

Prepared: 18-Dec-13 Analyzed: 19-Dec-13

Benzene	56.9		ug/L	50.0	5.48	103	39-150			
Toluene	110		"	50.0	62.7	93.6	46-148			
Ethylbenzene	63.8		"	50.0	12.7	102	32-160			
p,m-Xylene	230		"	100	119	111	46-148			
o-Xylene	76.7		"	50.0	28.0	97.4	46-148			
Surrogate: 1,3-Dichlorobenzene	57.2		"	50.0		114	80-120			
Surrogate: Bromochlorobenzene	58.9		"	50.0		118	80-120			

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laboratory@envirotech-inc.com

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Cohn #1
Project Number: 03022-0001
Project Manager: Kyle Summers-SW Geoscience

Reported:
20-Dec-13 10:55

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
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Batch 1351030 - DRO Extraction EPA 3550C

Blank (1351030-BLK1)

Prepared: 18-Dec-13 Analyzed: 19-Dec-13

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

Duplicate (1351030-DUP1)

Source: P312087-01

Prepared: 18-Dec-13 Analyzed: 19-Dec-13

Diesel Range Organics (C10-C28) 671 30.0 mg/kg 690 2.78 30

Matrix Spike (1351030-MS1)

Source: P312087-01

Prepared: 18-Dec-13 Analyzed: 19-Dec-13

Diesel Range Organics (C10-C28) 940 31.6 mg/kg 263 690 95.1 75-125

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Enterprise Products	Project Name:	Cohn #1	Reported:
614 Reilly Ave	Project Number:	03022-0001	20-Dec-13 10:55
Farmington NM, 87401	Project Manager:	Kyle Summers-SW Geoscience	

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
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Batch 1351031 - Purge and Trap EPA 5030A

Blank (1351031-BLK1)										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1351031-DUP1)										
Gasoline Range Organics (C6-C10)	0.84	0.10	mg/kg		397			199	30	D1
Matrix Spike (1351031-MS1)										
Gasoline Range Organics (C6-C10)	1.36		mg/L	0.450	0.80	126	75-125			SPK1, Surr2

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Cohn #1
Project Number: 03022-0001
Project Manager: Kyle Summers-SW Geoscience

Reported:
20-Dec-13 10:55

Notes and Definitions

Surr2 Surrogate recovery was below acceptable limits.

SPK1 The spike recovery for this QC sample is outside of control limits.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

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

16451

Page 15 of 15

Client: Enterprise / SWG			Project Name / Location: Cohn #1			ANALYSIS / PARAMETERS													
Email results to: kyle.summers@southwestscience.com			Sampler Name: Kyle Summers			TPH (Method 8015) QAO BTX (Method 8021) VOC (Method 8260) RCRA 8 Metals Cation / Anion RCI TCLP with H/P CO Table 910-1 TPH (418.1) CHLORIDE Sample Cool Sample Intact													
Client Phone No.: 903 821 5603			Client No.: 03022-0001 D7174-0003																

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
					HNO ₃	HCl																
S-1	12/18/13	1030	P312087-01	1 X 4oz				X	X												Y	Y
S-2		1035	P312087-02																			
S-3		1040	P312087-03																			
S-4		1045	P312087-04																			
S-5		1050	P312087-05																			
S-6		1055	P312087-06																			
S-7		1100	P312087-07																			
S-8		1105	P312087-08																			
Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) _____ Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____ ☐ Sample(s) dropped off after hours to secure drop off area. RUSH Date 12/18/13 Time 1536 Received by: (Signature) <i>[Signature]</i> Received by: (Signature) _____ RUSH RB21200 Date 12/18/13 Time 1536																						



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Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16915

Samples Received: 4/24/2014 2:55:00PM

Job Number: 07174-0003

Work Order: P404080

Project Name/Location: Cohn #1

Entire Report Reviewed By:

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

Date: 4/23/14

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.



Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-9	P404080-01A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-10	P404080-02A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-11	P404080-03A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-12	P404080-04A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-13	P404080-05A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-14	P404080-06A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-15	P404080-07A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-16	P404080-08A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-17	P404080-09A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 28-Apr-14 13:47

S-9
P404080-01 (Solid)

Analyte	Reporting				Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.2 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

S-10
P404080-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.1 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		109 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1417023	04/24/14	04/25/14	EPA 8015D	

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laboratory@envirotech-inc.com

Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 28-Apr-14 13:47

S-11
P404080-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.1 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 28-Apr-14 13:47

S-12
P404080-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.2 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

S-13

P404080-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.7 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8015D	
Diocsl Range Organics (C10-C28)	ND	29.9	mg/kg	1		1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

S-14
P404080-06 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		92.0 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

S-15
P404080-07 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		101 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.3 %		80-120		1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

S-16
P404080-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.4 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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

envirotech-inc.com
laboratory@envirotech-inc.com

Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 28-Apr-14 13:47

S-17
P404080-09 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.5 %		80-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 28-Apr-14 13:47

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
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Batch 1417022 - Purge and Trap EPA 5030A
Blank (1417022-BLK1)

Prepared: 24-Apr-14 Analyzed: 25-Apr-14

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	53.7		"	50.0		107	80-120			

Duplicate (1417022-DUP1)

Source: P404073-01

Prepared: 24-Apr-14 Analyzed: 25-Apr-14

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	43.1		ug/L	50.0		86.3	80-120			
Surrogate: Bromochlorobenzene	47.9		"	50.0		95.7	80-120			

Matrix Spike (1417022-MS1)

Source: P404073-01

Prepared: 24-Apr-14 Analyzed: 25-Apr-14

Benzene	50.3		ug/L	50.0	ND	101	39-150			
Toluene	50.2		"	50.0	ND	100	46-148			
Ethylbenzene	50.4		"	50.0	ND	101	32-160			
p,m-Xylene	102		"	100	ND	102	46-148			
o-Xylene	51.3		"	50.0	ND	103	46-148			
Surrogate: 1,3-Dichlorobenzene	46.4		"	50.0		92.8	80-120			
Surrogate: Bromochlorobenzene	51.3		"	50.0		103	80-120			

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 envirotech-inc.com
 laboratory@envirotech-inc.com



Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

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 1417022 - Purge and Trap EPA 5030A										
Blank (1417022-BLK1)				Prepared: 24-Apr-14 Analyzed: 25-Apr-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1417022-DUP1)				Source: P404073-01 Prepared: 24-Apr-14 Analyzed: 25-Apr-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1417022-MS1)				Source: P404073-01 Prepared: 24-Apr-14 Analyzed: 25-Apr-14						
Gasoline Range Organics (C6-C10)	0.48		mg/L	0.450	ND	106	75-125			

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Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

Reported:
 28-Apr-14 13:47

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
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Batch 1417023 - DRO Extraction EPA 3550C

Blank (1417023-BLK1) Prepared: 24-Apr-14 Analyzed: 25-Apr-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg

Duplicate (1417023-DUP1) Source: P404073-01 Prepared: 24-Apr-14 Analyzed: 25-Apr-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg ND 30

Matrix Spike (1417023-MS1) Source: P404073-01 Prepared: 24-Apr-14 Analyzed: 25-Apr-14

Diesel Range Organics (C10-C28) 212 mg/L 250 6.21 82.5 75-125

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 laboratory@envirotech-llc.com

Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
28-Apr-14 13:47

Notes and Definitions

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

16915

Client: SWG/Apex		Project Name / Location: Lohn #1		ANALYSIS / PARAMETERS													
Email results to: Rsummers@Apexcos.com		Sampler Name: Ryle Summers		TPH (Method 8015) X BTEX (Method 8021) X VOC (Method 8260) RCRA 8 Metals Cation / Anion RCI TCLP with H/P CO Table 910-1 TPH (418.1) CHLORIDE Sample Cool Sample Intact													
Client Phone No.: 903 821 5603		Client No.: 07174-0003															

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	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
					HNO ₃	HCl															
S-9	4/24/12	1200	9404080-01	1x4oz			X	X												✓	✓
S-10		1205	-02																	✓	✓
S-11		1210	-03																	✓	✓
S-12		1215	-04																	✓	✓
S-13		1330	-05																	✓	✓
S-14		1345	-06																	✓	✓
S-15		1400	-07																	✓	✓
S-16		1405	-08																	✓	✓
S-17		1410	-09																	✓	✓
↓																					

Relinquished by: (Signature)		Date: 4/24/12	Time: 1455	Received by: (Signature)		Date: 4/24/12	Time: 1455
Relinquished by: (Signature)				Received by: (Signature)			
Sample Matrix							
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐							
☐ Sample(s) dropped off after hours to secure drop off area. RUSH		envirotech Analytical Laboratory 8.9 5.3 6.4					



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16914

Samples Received: 4/28/2014 4:36:00PM

Job Number: 07174-0003

Work Order: P404111

Project Name/Location: Cohn #1

Entire Report Reviewed By:

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

Date: 4/30/14

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.

Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

Reported:
 30-Apr-14 12:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-18	P404111-01A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-19	P404111-02A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-20	P404111-03A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-21	P404111-04A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.

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 laboratory@envirotech-inc.com

Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 30-Apr-14 12:58

S-18
P404111-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		106 %		80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		102 %		80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1418010	04/29/14	04/29/14	EPA 8015D	

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Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410	Project Name: Cohn #1 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 30-Apr-14 12:58
--	--	------------------------------

S-19

P404111-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		101 %		80-120	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.1 %		80-120	1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 30-Apr-14 12:58

S-20
P404111-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %		80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.4 %		80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1418010	04/29/14	04/29/14	EPA 8015D	

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 envirotech-inc.com
 Laboratory@envirotech-inc.com

Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
30-Apr-14 12:58

S-21

P404111-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		100 %	80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.2 %	80-120		1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg	0.02	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 30-Apr-14 12:58

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
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Batch 1418009 - Purge and Trap EPA 5030A
Blank (1418009-BLK1)

Prepared & Analyzed: 29-Apr-14

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	48.9		ug/L	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			

Duplicate (1418009-DUP1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

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	49.2		ug/L	50.0		98.4	80-120			
Surrogate: Bromochlorobenzene	51.5		"	50.0		103	80-120			

Matrix Spike (1418009-MS1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Benzene	48.4		ug/L	50.0	ND	96.8	39-150			
Toluene	48.8		"	50.0	ND	97.6	46-148			
Ethylbenzene	49.1		"	50.0	ND	98.2	32-160			
p,m-Xylene	98.5		"	100	ND	98.5	46-148			
o-Xylene	49.1		"	50.0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		"	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		"	50.0		98.1	80-120			

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 envirotech-inc.com
 laboratory@envirotech-inc.com

Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
30-Apr-14 12:58

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 1418009 - Purge and Trap EPA 5030A										
Blank (1418009-BLK1)										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							Prepared & Analyzed: 29-Apr-14
Duplicate (1418009-DUP1)										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	Source: P404111-01 Prepared & Analyzed: 29-Apr-14
Matrix Spike (1418009-MIS1)										
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125			Source: P404111-01 Prepared & Analyzed: 29-Apr-14

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
30-Apr-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1418010 - DRO Extraction EPA 3550C									
Blank (1418010-BLK1)					Prepared & Analyzed: 29-Apr-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg						
Duplicate (1418010-DUP1)					Source: P404111-01 Prepared & Analyzed: 29-Apr-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND			30	
Matrix Spike (1418010-MS1)					Source: P404111-01 Prepared & Analyzed: 29-Apr-14				
Diesel Range Organics (C10-C28)	222		mg/L	250	12.4	84.0	75-125		

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Apex TITAN, Inc.
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Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
30-Apr-14 12:58

Notes and Definitions

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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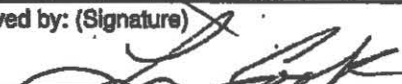
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CHAIN OF CUSTODY RECORD

16914

Client: SWG/AREX		Project Name/ Location: Coln #1		ANALYSIS / PARAMETERS																		
Email/Results to: RSUMMER@AREXCD.COM		Sampler Name: Nyle Summers		TPH (Method 8015) DRD BTEX (Method 8021) DRD VOC (Method 8260) RCRA 8 Metals Cation / Anion RCI TCLP with H/P CO Table 910-1 TPH (418.1) CHLORIDE Sample Cool Sample Intact																		
Client Phone No.: 703-821-5603		Client No.:																				
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	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
					HNO ₃	HCl																
S-18	4/24/16	1430	P404111-01	1X40Z				X	X												✓	✓
S-19	4/28/16	1500	-02																		✓	✓
S-20	↓	1515	-03	↓																	✓	✓
S-21	↓	1530	-04	↓																	✓	✓
NFS 103																						
Relinquished by: (Signature) 				Date/Time: 4/28/16 1636		Received by: (Signature) 				Date/Time: 4/28/16 1636												
Relinquished by: (Signature)						Received by: (Signature)																
Sample Matrix																						
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																						
☐ Sample(s) dropped off after hours to secure drop off area. Rush																						



8.1 6.8 5.2



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16940

Samples Received: 4/29/2014 2:40:00PM

Job Number: 07174-0003

Work Order: P404115

Project Name/Location: Cohn #1

Entire Report Reviewed By:

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

Date: 5/1/14

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.



Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-22	P404115-01A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.
S-23	P404115-02A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.
S-24	P404115-03A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.
S-25	P404115-04A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.
S-26	P404115-05A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

S-22

P404115-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.6 %		80-120		1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.3 %		80-120		1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1418010	04/30/14	04/30/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

S-23

P404115-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.0 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		96.4 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 01-May-14 13:50

S-24
P404115-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.8 %		80-120		1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.2 %		80-120		1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1418010	04/30/14	04/30/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

S-25

P404115-04 (Solid)

Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.0 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.4 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	30.5	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	

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Apex TITAN, Inc.
 606 S. Rio Grand, Suite A
 Aztec NM, 87410

 Project Name: Cohn #1
 Project Number: 07174-0003
 Project Manager: Kyle Summers

 Reported:
 01-May-14 13:50

S-26
P404115-05 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		89.1 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		92.6 %		80-120	1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

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
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Batch 1418009 - Purge and Trap EPA 5030A

Blank (1418009-BLK1)

Prepared & Analyzed: 29-Apr-14

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	48.9		ug/L	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			

Duplicate (1418009-DUP1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

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	49.2		ug/L	50.0		98.4	80-120			
Surrogate: Bromochlorobenzene	51.5		"	50.0		103	80-120			

Matrix Spike (1418009-MS1)

Source: P404111-01

Prepared & Analyzed: 29-Apr-14

Benzene	48.4		ug/L	50.0	ND	96.8	39-150			
Toluene	48.8		"	50.0	ND	97.6	46-148			
Ethylbenzene	49.1		"	50.0	ND	98.2	32-160			
p,m-Xylene	98.5		"	100	ND	98.5	46-148			
o-Xylene	49.1		"	50.0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		"	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		"	50.0		98.1	80-120			

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Apex TITAN, Inc.
606 S. Rio Grand, Suite A
Aztec NM, 87410

Project Name: Cohn #1
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
01-May-14 13:50

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 1418009 - Purge and Trap EPA 5030A

Blank (1418009-BLK1)				Prepared & Analyzed: 29-Apr-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1418009-DUP1)				Prepared & Analyzed: 29-Apr-14						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1418009-MS1)				Prepared & Analyzed: 29-Apr-14						
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125			

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Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410	Project Name: Cohn #1 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 01-May-14 13:50
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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
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Batch 1418010 - DRO Extraction EPA 3550C

Blank (1418010-BLK1)		Prepared & Analyzed: 29-Apr-14								
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1418010-DUP1)		Source: P404111-01		Prepared & Analyzed: 29-Apr-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1418010-MS1)		Source: P404111-01		Prepared & Analyzed: 29-Apr-14						
Diesel Range Organics (C10-C28)	222		mg/L	250	12.4	84.0	75-125			

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



Apex TITAN, Inc.	Project Name:	Cohn #1	Reported:
606 S. Rio Grand, Suite A	Project Number:	07174-0003	01-May-14 13:50
Aztec NM, 87410	Project Manager:	Kyle Summers	

Notes and Definitions

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

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

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CHAIN OF CUSTODY RECORD

16940

Client: Apex			Project Name / Location: Cohn #1			ANALYSIS / PARAMETERS															
Email results to: Rswimmers@ApexCDs.com			Sampler Name: Ryle Summers			DRO GRO	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.: 903-821-5603			Client No.: 07174-0003																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative																
					HNO ₃	HCl															
S-22	4/29/14	1110	P404115-01	1 X 4oz																X	X
S-23		1200	P404115-02																	X	X
S-24		1210	P404115-03																	X	X
S-25		1220	P404115-04																	X	X
S-26		1240	P404115-05	4																X	X
Relinquished by: (Signature) <i>[Signature]</i> Relinquished by: (Signature) Date/Time: 4/29/14, 1440 Received by: (Signature) <i>[Signature]</i> Received by: (Signature) Date/Time: 4/29/14, 14:40																					
Sample Matrix																					
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																					
☐ Sample(s) dropped off after hours to secure drop off area. <i>Rush</i>																					



4.4 1.7 3.2 (3.1)



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

April 14, 2014

Kyle Summers

Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX (214) 350-2914

RE: COHN #1

OrderNo.: 1404314

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/8/2014 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 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 1404314

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-1

Project: COHN #1

Collection Date: 4/7/2014 11:40:00 AM

Lab ID: 1404314-001

Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					02a00000BCN		
000000a0ge 00ga00000000	1000	00		0 gmg	10	00 0000 0 0000 07 P0	10000
00000000P	0	00000	0	0 000	10	00 0000 0 0000 07 P0	10000
EPA METHOD 8015D: GASOLINE RANGE					02a00000NSB		
0a00000 0a0ge 00ga00000000	100	00		0 gmg	0	000000 0 1000 00 P0	10000
000000000	000	7000000	0	0 000	0	000000 0 1000 00 P0	10000
EPA METHOD 8021B: VOLATILES					02a00000NSB		
0e00000e	000	000		0 gmg	0	000000 0 1000 00 P0	10000
0o00000e	00	0000		0 gmg	0	000000 0 1000 00 P0	10000
000000000e0e	00	0000		0 gmg	0	000000 0 1000 00 P0	10000
000e00000000	000	0000		0 gmg	0	000000 0 1000 00 P0	10000
0000000000 0f00000e0e0e	110	000000		0 0000	0	000000 0 1000 00 P0	10000

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	Page
O	RSD is greater than RSDlimit	P Sample pH greater than 2.	
R	RPD outside accepted recovery limits	RL Reporting Detection Limit	
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1404314

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-2

Project: COHN #1

Collection Date: 4/7/2014 11:45:00 AM

Lab ID: 1404314-002

Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							BCN
Diesel Range Organics	11.1	10.0	1	ug/g	10	4/14/2014	1404314
1,2-Dichlorobenzene	1.0	0.1	1	ug/g	10	4/14/2014	1404314
EPA METHOD 8015D: GASOLINE RANGE							NSB
Gasoline Range Organics	11.1	10.0	1	ug/g	10	4/14/2014	1404314
1,2-Dichlorobenzene	17.0	7.0	1	ug/g	10	4/14/2014	1404314
EPA METHOD 8021B: VOLATILES							NSB
Benzene	1.0	0.1	1	ug/g	10	4/14/2014	1404314
Toluene	1.0	0.1	1	ug/g	10	4/14/2014	1404314
Ethylbenzene	1.0	0.1	1	ug/g	10	4/14/2014	1404314
Methylcyclohexane	7.0	0.1	1	ug/g	10	4/14/2014	1404314
Sum of m-xylene, p-xylene, and o-xylene	11.0	0.1	1	ug/g	10	4/14/2014	1404314

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.
	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#: 1404314

14-Apr-14

Client: Southwest Geoscience

Project: COHN #1

Sample ID	MB-12586	Sample Type	MBLK	Test Code	EPA Method 8015D: Diesel Range Organics
Client ID	PBS	Batch ID	12586	Run No	17898
Prep Date	4/8/2014	Analysis Date	4/10/2014	Seq No	516454
Units					mg/Kg
Analyte		PQL	SPK value	SPK Ref Val	%REC

Diesel Range Organics (DRO)

Sum: DNOP

10

1000

100

101

Sample ID	LCS-12586	Sample Type	LCS	Test Code	EPA Method 8015D: Diesel Range Organics
Client ID	LCSS	Batch ID	12586	Run No	17898
Prep Date	4/8/2014	Analysis Date	4/10/2014	Seq No	516498
Units					mg/Kg
Analyte		PQL	SPK value	SPK Ref Val	%REC

Diesel Range Organics (DRO)

Sum: DNOP

10

1000

110

100

100

101

Sample ID	MB-12624	Sample Type	MBLK	Test Code	EPA Method 8015D: Diesel Range Organics
Client ID	PBS	Batch ID	12624	Run No	17898
Prep Date	4/9/2014	Analysis Date	4/10/2014	Seq No	516973
Units					%REC
Analyte		PQL	SPK value	SPK Ref Val	%REC

Sum: DNOP

9.5

10.00

95.4

66

131

Sample ID	LCS-12624	Sample Type	LCS	Test Code	EPA Method 8015D: Diesel Range Organics
Client ID	LCSS	Batch ID	12624	Run No	17898
Prep Date	4/9/2014	Analysis Date	4/10/2014	Seq No	516974
Units					%REC
Analyte		PQL	SPK value	SPK Ref Val	%REC

Sum: DNOP

4.4

5.000

87.9

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404314

14-Apr-14

Client: Southwest Geoscience

Project: COHN #1

Sample ID	MB-12598	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12598	RunNo:	17894					
Prep Date:	4/8/2014	Analysis Date:	4/9/2014	SeqNo:	516112	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	890		1000		88.9	74.5	109			

Sample ID	LCS-12598	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12598	RunNo:	17894					
Prep Date:	4/8/2014	Analysis Date:	4/9/2014	SeqNo:	516113	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	5.0	5.00	0	107	71.7	134			
Surr: BFB	980		1000		97.6	74.5	109			

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404314

14-Apr-14

Client: Southwest Geoscience

Project: COHN #1

Sample ID	MB-12598	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	12598	RunNo:	17894					
Prep Date:	4/8/2014	Analysis Date:	4/9/2014	SeqNo:	516138	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		107	80	100			

Sample ID	LCS-12598	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	12598	RunNo:	17894					
Prep Date:	4/8/2014	Analysis Date:	4/9/2014	SeqNo:	516139	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	111	80	100			
Toluene	1.0	0.050	1.000	0	100	80	100			
Ethylbenzene	1.0	0.050	1.000	0	104	80	100			
Xylenes, Total	3.1	0.10	3.000	0	103	80	100			
Surr: 4-Bromofluorobenzene	1.0		1.000		116	80	100			

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.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Southwest Geoscience

Work Order Number: 1404314

RcptNo: 1

Received by/date:	<i>[Signature]</i>	04/08/14
Logged By:	Lindsay Mangin	4/8/2014 10:00:00 AM
Completed By:	Lindsay Mangin	4/8/2014 10:26:28 AM
Reviewed By:	<i>[Signature]</i>	04/08/14

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	2.9	Good	Yes			

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE Environmental & Hydrogeologic Consultants		Laboratory: <u>HALL</u> Address: <u>ABQ</u> Contact: <u>FREEMAN</u> Phone: _____ PO/SO #: <u>04136018</u>		ANALYSIS REQUESTED BTX 808.1 TPH 8015 DRUGS		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>2.9</u> 12345 Page <u>1</u> of <u>1</u>								
		Office Location: <u>AZTEL, NM</u> Project Manager: <u>KYLE SUMMERS</u> Sampler's Name: <u>AARON BRYANT</u> Sampler's Signature: <u>Aaron Bryant</u>												
Proj. No.: <u>04136018</u> Project Name: <u>COHN #1</u> No/Type of Containers: <u>2x 40Z</u>														
Matrix	Date	Time	COED	Grid	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	P/O	Lab Sample ID (Lab Use Only)		
S	4-7-14	1140	X		SP-1						1	X	X	1404314-001 -002
S	4-7-14	1145	X		SP-2						1	X	X	
NFS AB														
Turn around time ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush														
Relinquished by (Signature): <u>[Signature]</u>		Date: <u>4/7/14</u>		Time: <u>1510</u>		Received by (Signature): <u>[Signature]</u>		Date: <u>4-7-14</u>		Time: <u>1510</u>		NOTES:		
Relinquished by (Signature): <u>[Signature]</u>		Date: <u>4/7/14</u>		Time: <u>1757</u>		Received by (Signature): <u>[Signature]</u>		Date: <u>4/7/14</u>		Time: <u>1000</u>				
Relinquished by (Signature): _____		Date: _____		Time: _____		Received by (Signature): _____		Date: _____		Time: _____				
Relinquished by (Signature): _____		Date: _____		Time: _____		Received by (Signature): _____		Date: _____		Time: _____				
Matrix		WW - Wastewater		W - Water		S - Soil		SD - Solid		L - Liquid		A - Air Bag		
Container		VOA - 40 ml vial		A/G - Amber / Or Glass 1 Liter		250 ml - Glass wide mouth		C - Charcoal tube		P/O - Plastic or other		SL - sludge O - Oil		



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

May 02, 2014

Kyle Summers

Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX (214) 350-2914

RE: Cohn #1

OrderNo.: 1404C00

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2014 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 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.

Analytical Report

Lab Order 1404C00

Date Reported: 5/2/2014

CLIENT: Southwest Geoscience

Client Sample ID: WS-1

Project: Cohn #1

Collection Date: 4/29/2014 8:30:00 AM

Lab ID: 1404C00-001

Matrix: AQUEOUS

Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: BCN
Diesel Range Organics DR	5.0	1.0		mg/L	1	4/30/2014 1:56:53 PM	10941
Surr: DNOP	107	607	145	%REC	1	4/30/2014 1:56:53 PM	10941
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics OR	5.0	0.05		mg/L	5	4/30/2014 11:41:07 AM	R18301
Surr: BCB	101	80.4	18	%REC	5	4/30/2014 11:41:07 AM	R18301
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	780	0		ug/L	0	4/30/2014 1:36:03 PM	R18301
Toluene	750	0		ug/L	0	4/30/2014 1:36:03 PM	R18301
Ethylbenzene	60	5.0		ug/L	5	4/30/2014 11:41:07 AM	R18301
Xylenes Total	730	10		ug/L	5	4/30/2014 11:41:07 AM	R18301
Surr: 4-Bromofluorobenzene	115	8.19	39	%REC	5	4/30/2014 11:41:07 AM	R18301

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	Page 1 of 4
	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.	
	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#: 1404C00

02-May-14

Client: Southwest Geoscience

Project: Cohn #1

Sample ID	MB-12941	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	12941	RunNo:	18255					
Prep Date:	4/30/2014	Analysis Date:	4/30/2014	SeqNo:	528470	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.4		1.000		139	6.7	145			

Sample ID	LCS-12941	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	12941	RunNo:	18255					
Prep Date:	4/30/2014	Analysis Date:	4/30/2014	SeqNo:	528471	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	115	78.6	146			
Surr: DNOP	0.61		0.5000		1.1	6.7	145			

Sample ID	LCSD-12941	SampType:	LCSD	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSS02	Batch ID:	12941	RunNo:	18255					
Prep Date:	4/30/2014	Analysis Date:	4/30/2014	SeqNo:	528472	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	119	78.6	146	3.88	6.5	
Surr: DNOP	0.58		0.5000		115	6.7	145	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404C00

02-May-14

Client: Southwest Geoscience

Project: Cohn #1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R18301	RunNo:	18301					
Prep Date:		Analysis Date:	4/30/2014	SeqNo:	529304	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		0.00		88.0	80.4	118			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R18301	RunNo:	18301					
Prep Date:		Analysis Date:	4/30/2014	SeqNo:	529305	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	109	80	100			
Surr: BFB	19		0.00		95.8	80.4	118			

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404C00

02-May-14

Client: Southwest Geoscience

Project: Cohn #1

Sample ID	5ML RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBW	Batch ID: R18301		RunNo: 18301						
Prep Date:		Analysis Date: 4/30/2014		SeqNo: 529327		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.0								
Surr: 4-Bromofluorobenzene	ND		10.00		98.5	81.9	139			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R18301	RunNo:	18301					
Prep Date:		Analysis Date:	4/30/2014	SeqNo:	529328	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	11	1.0	10.00	0	103	80	110			
Toluene	10	1.0	10.00	0	103	80	110			
Ethylbenzene	10	1.0	10.00	0	101	80	110			
Xylenes, Total	64	1.0	60.00	0	107	80	110			
Surr: 4-Bromofluorobenzene	11		10.00		103	81.9	139			

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.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Southwest Geoscience

Work Order Number: 1404C00

RcptNo: 1

Received by/date:

[Signature] 04/30/14

Logged By: Ashley Gallegos

4/30/2014 10:05:00 AM

[Signature]

Completed By: Ashley Gallegos

4/30/2014 10:55:56 AM

[Signature]

Reviewed By:

CS

04/30/14

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 ☐ # of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
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 ☐ 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

Southwest GEOSCIENCE Environmental & Hydrogeologic Consultants				Laboratory: <u>HALL</u> Address: <u>ABQ</u> Contact: <u>FREEMAN</u> Phone: _____ PO/SO #: <u>04136018</u>				ANALYSIS REQUESTED Box 8021 TRH 8015 04/16/14										Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.0</u> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table> Page <u>1</u> of <u>1</u>					1	2	3	4	5
				1	2	3	4											5									
Office Location <u>AZTEC, NM</u> Project Manager <u>Kyle Summers</u> Sampler's Name <u>ARON BRYANT</u> <u>Kyle Summers</u> Sampler's Signature <u>[Signature]</u>																											
Proj. No. <u>04136018</u>		Project Name <u>COHN #1</u>				No/Type of Containers																					
Matrix	Date	Time	COED	GAB	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1L	250 ml	P/O	Lab Sample ID (Lab Use Only)															
W	4-29-14	0830		X	WS-1			5				X	X	1404200-001													
NFS WBS																											
Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush																											
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>4/29/14</u>		Time: <u>1257</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>4/29/14</u>		Time: <u>1257</u>		NOTES:															
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>4/19/14</u>		Time: <u>1746</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>04/20/14</u>		Time: <u>1005</u>																	
Relinquished by (Signature) _____		Date: _____		Time: _____		Received by (Signature) _____		Date: _____		Time: _____																	
Relinquished by (Signature) _____		Date: _____		Time: _____		Received by (Signature) _____		Date: _____		Time: _____																	
Matrix Container		WW - Wastewater		W - Water		S - Soil		SD - Solid		L - Liquid		A - Air Bag		C - Charcoal tube		SL - sludge		O - Oil									
		VOA - 40 ml vial						AG - Amber / Or Glass 1 Liter		250 ml - Glass wide mouth				P/O - Plastic or other													