3R-1011

Release Report/ General Correspondence

Enterprise SJ

Trunk MD 16 Inch 2016

204

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South Line	Feet from	East/West Line	County
M	**1**	**29N**	**11W**	the **1185**	North (South)	the **1361**	East (West)	**San Juan**

Latitude 36.750534 Longitude -107.947310

NATURE OF RELEASE

Type of Release: Hydro Static Test Water	Volume of Release **Estimated 1,113 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **6/16/2016 @ 6:30 p.m.**	Date and Hour of Discovery: **6/16/2016 @ 6:30 p.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Courtesy Notification – Vanessa Fields, NMOCD; Katherina Diemer	
By Whom? Thomas Long	Date and Time June 16, 2016 @ 8:55 p.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

OIL CONS. DIV DIST. 3
NOV 28 2016

If a Watercourse was Impacted, Describe Fully.* Approximately 1,113 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.5 miles.

Describe Cause of Problem and Remedial Action: At approximately 6:30 p.m., on June 16, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 1,113 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.5 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 17, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final." C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 9/20/2016 Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1616732247

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

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Form C-141
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Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner:**BLM**	Serial Number:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South Line	Feet from	East/West Line	County
M	**1**	**29N**	**11W**	the **126**	North (South)	the **684**	East (West)	**San Juan**

Latitude 36.747770 Longitude -107.949616

NATURE OF RELEASE

Type of Release: Hydro Static Test Water	Volume of Release **Estimated 120 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **6/19/2016 @ 11:15 a.m.**	Date and Hour of Discovery: **6/19/2016 @ 11:15 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Courtesy Notification – Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time June 19, 2016 @ 1:35 p.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 120 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.20 miles.

Describe Cause of Problem and Remedial Action: At approximately 6:30 p.m., on June 19, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 120 barrels of potable water was released to the ground surface and flowed south entering an ephemeral wash and continued a flowing south for approximately 0.20 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 19-20, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final." C-141.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 9/2/2016 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1601448436

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **State of NM**	Mineral Owner: **State of NM**	Serial Number: **RW-23639**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South	Feet from	East/West	County
J	**36**	**30N**	**11W**	the **2280**	Line	the **1520**	Line	**San Juan**

Latitude 36.76743 Longitude -107.93893

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 100 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **6/22/2016 @ 1:25 p.m.**	Date and Hour of Discovery: **6/22/2016 @ 1:25 p.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD	
By Whom? Thomas Long	Date and Time June 22, 2016 @ 2:25 p.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 100 barrels of potable water was released to the ground surface and flowed west entering an ephemeral wash and continued a flowing west for approximately 0.50 miles.

Describe Cause of Problem and Remedial Action: At approximately 1:25 p.m., on June 22, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 100 barrels of potable water was released to the ground surface and flowed west entering an ephemeral wash and continued a flowing west for approximately 0.50 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 23, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final." C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 12/1/2016 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: NVF1617954385 Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South Line	Feet from	East/West Line	County
L	**30**	**30N**	**11W**	**the 431**	North/South	**the 1047**	East/West	**San Juan**

Latitude 36.788716 Longitude -107.930199

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 100 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **6/24/2016 @ 3:06 p.m.**	Date and Hour of Discovery: **6/24/2016 @ 3:06 p.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time June 24, 2016 @ 6:00 p.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 100 barrels of potable water was released to the ground surface and flowed southwest entering an ephemeral wash to the southwest and continued a flowing south for approximately 0.35 miles.

Describe Cause of Problem and Remedial Action: At approximately 3:06 p.m., on June 24, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 100 barrels of potable water was released to the ground surface and flowed southwest entering an ephemeral wash to the southwest and continued a flowing south for approximately 0.35 miles.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on June 27-29, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final." C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist:	
Title: Director, Field Environmental	Approval Date: 1/19/2017	Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval:	Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1617953104	

* Attach Additional Sheets If Necessary

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Form C-141
Revised August 8, 2011

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South	Feet from	East/West	County
P	**18**	**30N**	**10W**	the **1017**	(South) Line	the **1218**	(East) Line	**San Juan**

Latitude 36.807101 Longitude -107.920458

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 100 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **6/30/2016 @ 5:55 p.m.**	Date and Hour of Discovery: **6/30/2016 @ 5:55 p.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time June 30, 2016 @ 7:00 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: At approximately 5:55 p.m., on June 30, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 100 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way for approximately 500 feet.

Describe Area Affected and Cleanup Action: Approximately 100 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way for approximately 500 feet. Enterprise collected soil samples from the source and flow path of the release on July 1, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final" C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 1/19/2017 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1701948247

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	**19**	**30N**	**10W**	**1323**	North	**2161**	East	**San Juan**

Latitude 36.800683 Longitude -107.923786

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 700 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **7/5/2016 @ 9:30 a.m.**	Date and Hour of Discovery: **7/5/2016 @ 9:30 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time July 5, 2016 @ 3:15 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 700 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 1,500 feet.

Describe Cause of Problem and Remedial Action: At approximately 9:30 a.m., on July 5, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 700 barrels of potable was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 1,500 feet.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on July 5, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final" C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 1/19/2017 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: NVF1618848228 Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	**18**	**30N**	**10W**	**991**	North/South	**1263**	East/West	**San Juan**

Latitude 36.8807050 Longitude -107.920570

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 100 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **7/8/2016 @ 12:51 p.m.**	Date and Hour of Discovery: **7/8/2016 @ 12:51 p.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time July 8, 2016 @ 1:59 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: At approximately 5:55 p.m., on June 30, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 100 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way for approximately 500 feet.

Describe Area Affected and Cleanup Action: Approximately 100 barrels of potable was released to the ground surface and flowed southwest along the right-of-way for approximately 500 feet. Enterprise collected soil samples from the source and flow path of the release on July 8, 2016 with NMOCD witnessing sample collection. Analytical results indicate no environmental impact. A third party corrective action report is included with this "Final" C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 1/19/2017 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1621727535

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South Line	Feet from	East/West Line	County
B	**19**	**30N**	**10W**	the **1193**	North	the **2118**	East	**San Juan**

Latitude 36.801030 Longitude -107.923660

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 600 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **7/9/2016 @ 9:45 a.m.**	Date and Hour of Discovery: **7/9/2016 @ 9:45 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer - BLM	
By Whom? Thomas Long	Date and Time July 9, 2016 @ 11:00 p.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 600 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 1,500 feet.

Describe Cause of Problem and Remedial Action: At approximately 9:45 a.m., on July 9, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 600 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 1,500 feet.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on July 11, 2016 with NMOCD witnessing sample collection. Analytical results indicate on environmental impact. A third party corrective action report is included with this "Final" C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 1/19/2017 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	NVF1621729117

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: **Trunk MD 16 Inch**	Facility Type: **Natural Gas Pipeline**

Surface Owner: **BLM**	Mineral Owner: **BLM**	Serial Number: **SN 080782**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from	North/South Line	Feet from	East/West Line	County
B	**19**	**30N**	**10W**	the **1193**	(North) South	the **2118**	(East) West	**San Juan**

Latitude 36.0076 Longitude -107.92376

NATURE OF RELEASE

Type of Release: Hydro-Static Test Water	Volume of Release **Estimated 600 barrels of potable water**	Volume Recovered: **None**
Source of Release: Ruptured Pipeline	Date and Hour of Occurrence: **7/11/2016 @ 9:45 a.m.**	Date and Hour of Discovery: **7/11/2016 @ 9:45 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Vanessa Fields, NMOCD; Katherina Diemer, BLM	
By Whom? Thomas Long	Date and Time July 11, 2016 @ 10:08 a.m.	
Was a Watercourse Reached? ☒ Yes ☐ No	If YES, Volume	

If a Watercourse was Impacted, Describe Fully.* Approximately 600 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 2,000 feet.

Describe Cause of Problem and Remedial Action: At approximately 9:45 a.m., on July 11, 2016, a rupture occurred during hydro-static testing of the Trunk MD 16 Inch pipeline. Approximately 600 barrels of potable water was released to the ground surface and flowed southwest along the right-of-way entering an ephemeral wash and flowed for approximately 2,000 feet.

Describe Area Affected and Cleanup Action: Enterprise collected soil samples from the source and flow path of the release on July 11, 2016 with NMOCD witnessing sample collection. Analytical results indicated no environmental impact. A third party corrective action report is included with this "Final" C-141.

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

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist:
Title: Director, Field Environmental	Approval Date: 1/19/2017 Expiration Date:
E-mail Address:jefields@eprod.com	Conditions of Approval: NVF1621728758 Attached ☐
Date: 10/10/2016 Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

ENVIRONMENTAL SITE INVESTIGATION REPORT

Property:

Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

SW ¼ S1 T29N R11W (Rupture 1 and 2)
SE ¼ S36 T30N R11W (Rupture 3)
NW ¼ S30 T30 N R10W (Rupture 4)
SE ¼ S18 T30N R10W (Rupture 5 and 7)
NE ¼ S19 T30N R10W (Rupture 6, 8, and 9)
San Juan County, New Mexico

September 12, 2016
Apex Project No. 725040112171

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Scientist

Kyle Summers, CPG
Branch Manager/Senior Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

APEX

ENVIRONMENTAL SITE INVESTIGATION REPORT

Trunk MD 16" Pipeline Hydrostatic Test (Ruptures 1 through 9)

SW ¼ S1 T29N R11W (Rupture 1 and 2)
SE ¼ S36 T30N R11W (Rupture 3)
NW ¼ S30 T30 N R10W (Rupture 4)
SE ¼ S18 T30N R10W (Rupture 5 and 7)
NE ¼ S19 T30N R10W (Rupture 6, 8, and 9)
San Juan County, New Mexico

Apex Project No. 725040112171

1.0 INTRODUCTION

1.1 Site Description & Background

The Trunk MD 16" pipeline hydrostatic test release sites (Ruptures 1 through 9) originated within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in Section 1, Township 29 North, Range 11 West; Section 36, Township 30 North, Range 11 West; and Sections 18, 19, and 30, Township 30 North, Range 10 West, in San Juan County, New Mexico, referred to hereinafter as the "Site(s)".

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segment 1, 2A, 2B, and 3) covering a total span of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired and re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests.

Geospatial Positioning Coordinates (GPS)

- Rupture-1: 36.75053N, 107.94731W (Segment 1)
- Rupture-2: 36.747890N, 107.949531W (Segment 1)
- Rupture-3: 36.767490N, 107.939080W (Segment 1)
- Rupture-4:36.78877N, 107.93019W (Segment 2A)
- Rupture-5:36.80710N, 107.92046W (Segment 2A)
- Rupture-6: 36.80065N,107.92373W (Segment 2A)
- Rupture-7: 36.80694 N, 107.92058W (Segment 2A)
- Rupture-8: 36.80097N, 107.92358W (Segment 2A)
- Rupture-9: 36.80079N, 107.92367W (Segment 2A)

Rupture Sites 1, 2, and 4 through 9 are located on land managed by the United States Bureau of Land Management (BLM). Rupture Site 3 is located on land owned by the State of New Mexico and managed by the New Mexico State Land Office. The Sites are surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise MD 16" Trunk natural gas pipeline which traverses the area from approximately north to south.

A topographic map depicting the locations of the Sites 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 Environmental Site Investigation (ESI) was to evaluate the potential impact to the environment from the released hydrostatic test water. The soils contacted by the test water (as well as the test water itself) were evaluated to determine if constituents of concern (COCs) affected the on-Site soils at concentrations above the applicable regulatory standards.

2.0 SITE RANKING

In accordance with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) *Guidelines for Remediation of Leaks, Spills and Releases*, Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site.

The ranking criteria are provided in the following table:

Ranking Criteria		
Depth to Groundwater	<50 feet	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
	No	0
Distance to Surface Water Body	<200 feet	20
	200 to 1,000 feet	10
	>1,000 feet	0
Total Ranking Score		

Based on the Apex TITAN, Inc. (Apex) evaluation of the scoring criteria, each of the nine (9) ruptures occurred in, or flowed into, areas that would rank ">19" in the OCD ranking system, due to the distance to surface water body ("blue line" ephemeral washes), and at some releases the projected depth to groundwater due to the duration of the flow path. No water source wells or private domestic water sources are present in the vicinity of the ruptures/releases.

A Site ranking of >19 correlates to the most stringent closure standards for an OCD regulated release, which includes: Benzene at 10 milligrams/kilogram (mg/kg); benzene, ethylbenzene, toluene and total xylenes (BTEX) at 50 mg/kg; and total petroleum hydrocarbon (TPH) combined gasoline range organics (GRO) and diesel range organics (DRO) at 100 mg/kg.

3.0 FIELD ACTIVITIES

3.1 Pipeline Testing and Repair

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segments 1, 2A, 2B, and 3), covering a total distance of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all occurring in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired by replacing pipe, and were re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests. During the pipeline repair and ESI activities, Halo Services, Inc.,

provided heavy equipment and labor support, and Ranee Deechilly, Chad D'Aponti, and Kyle Summers, Apex environmental professionals, provided environmental support.

3.2 Environmental Site Investigation

Enterprise's and Apex's soil sampling program combined to include the collection of 38 confirmation flow path samples from the nine (9) rupture Sites for laboratory analysis. Additionally, four (4) water samples were collected from the ruptured pipeline or from standing water at Rupture Sites 1, 2, 6, and 8.

The following table presents each of the Rupture Sites and identifies the corresponding release samples and sample matrices:

Rupture Site	Sample Matrix	Sample I.D
1	Soil	Source and SC-3 –SC-4
2	Soil	SR SC-1 and FP-1 through FP-4
3	Soil	RP-1 through RP-8
4	Soil	WP-1 through WP-6
5	Soil	DP-1 through DP-4
6	Soil	XP-1 through XP-4
7	Soil	HP-1 through HP-3
8&9	Soil	CP-1 through CP-5

Rupture Site	Sample Matrix	Sample I.D
1	Water	Source
2	Water	SR WS-1
6	Water	Rupture #6
8	Water	Rupture #8

Enterprise coordinated with the New Mexico OCD to determine appropriate sample collection points and laboratory analytical methods for each Rupture Site. A representative from either the OCD or the BLM was present during each of the soil sampling events.

Domestic supply water from the city of Bloomfield was utilized as the test fluid during each of the hydrostatic tests. Enterprise collected one (1) sample from the pipeline on June 16, 2016, however it was later determined that the sample had been collected from pipeline fluids in front of the pipeline cleaning pig instead of from test water in the pressure test section. As a result, the June 16 sample was not included in this report. Enterprise subsequently collected two (2) samples (Header ES 480 and Header ES 571) of the test water from the water-filled pipeline on June 17, 2016.

Figures 3A through 3E depict the approximate flow paths and sampling locations in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix B.

The flow path soil samples and water 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 samples and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico for analysis.

3.3 Soil Laboratory Analytical Methods

The flow path soil samples from Rupture Sites 1 through 9 were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA SW-846 Method #8021, total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0. The "Source" sample from Rupture Site 2 was also analyzed for RCRA 8 Metals. The soil samples from Rupture Sites 8 and 9 were also analyzed for anions and cations.

Laboratory results for Site soils are summarized in Tables 1 through 3, included in Appendix C. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

3.4 Water Laboratory Analytical Methods

The water sample from Rupture Site 2 was analyzed for volatile organic compounds (VOCs) using EPA Method #8260. The water samples collected from Header ES 480, Header ES 571, and Rupture Sites 1, 6, and 8 samples were analyzed for VOCs using EPA Method #8260, and RCRA 8 Metals. The water sample from Rupture Site 6 was also analyzed for Cations/Anions.

Laboratory results for the water samples are summarized in Tables 4 through 6, included in Appendix C. Due to the extensive list of VOC analytes, Table 4 includes only results for analytes that exceeded the practical quantitation limit (PQL) in one (1) or more samples. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas 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 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the constituent concentrations or PQLs associated with the rupture soil samples to the OCD *Remediation Action Levels* (RALs), New Mexico Environmental Department (NMED) baseline Soil Screening Levels (SSLs) (Residential and Industrial), and historic background levels (Arsenic) from available United States Geological Survey (USGS)[1] records.

[1] *"Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States (1984)."* Hansford T. Shacklette and Josephine G. Boerngen, Professional Paper 1270 USGS.

Benzene, BTEX, TPH, and Chlorides

- The laboratory analyses of the confirmation soil samples collected from Rupture Sites 1 through 9 indicate benzene concentrations below the PQLs, which are below the OCD *RAL* of 10 milligram per kilogram (mg/kg).
- The laboratory analyses of the confirmation soil samples indicate total BTEX concentrations below the PQLs, which are below the OCD *RAL* of 50 mg/kg.
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 1 through 9 indicate combined TPH GRO/DRO concentrations ranging from below PQLs to 25 mg/kg (XP-1), which are below the OCD *RAL* of 100 mg/kg.
- The laboratory analyses of confirmation soil samples indicate chloride concentrations ranging from below PQLs to 150 mg/kg (Source).

RCRA 8 Metals

- The laboratory analysis of the confirmation soil sample collected from the Rupture Site 2 source area ("Source") indicates an arsenic concentration of 6.9 mg/kg, which is above the NMED base-line Residential SSL of 4.25 mg/kg and below the base-line NMED Industrial SSL of 21.5 mg/kg. Available USGS data[1] suggests that background arsenic concentrations for surficial material in this region of New Mexico are >6.5 parts per million[2] (ppm), which would indicate that the arsenic level at Rupture Site 2 is on the lower end of anticipated background levels. Additionally, arsenic was not detected at elevated concentrations in the test water or release water samples.
- The remaining RCRA 8 analytes in the soil sample "Source", from Rupture Site 2, were detected at levels below the NMED Residential SSLs or were below the laboratory PQLs, which are below the NMED Residential SSLs.

Anions and Cations

- NMED SSLs are not established for calcium, magnesium, potassium, sodium, and sulfates. The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate: calcium concentrations ranging from 660 mg/kg (CP-4) to 1,900 mg/kg (CP-1); magnesium concentrations ranging from 380 mg/kg (CP-4) to 1,300 mg/kg (CP-3); potassium concentrations ranging from 370 mg/kg (CP-4) to 870 mg/kg (CP-3); sodium concentrations ranging from below PQLs to 35 mg/kg (CP-5); and sulfate concentrations ranging from 5.7 mg/kg (CP-4) to 17 mg/kg (CP-1).
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate fluoride concentrations ranging from 0.45 mg/kg (CP-4) to 2.3 mg/kg (CP-5), which are below NMED SSLs.
- The laboratory analyses of confirmation soil samples collected from Rupture Sites 8 and 9 indicate nitrate concentrations ranging from below PQLs to 1.4 mg/kg (CP-2), which are below NMED SSLs.

Confirmation sample laboratory analytical results for soils are provided in Tables 1 through 3 in Appendix C.

[2] Part per million is equivalent to mg/kg

4.2 Water Samples

Apex compared constituent concentrations or method PQLs associated with the water samples collected from the test-water filled pipeline and Rupture Sites 1, 2, 6, and 8 to the New Mexico Water Quality Control Commission (WQCC) Human Health Standards (HHSs), and WQCC Domestic Water Supply Standards (DWSSs).

VOCs

- The test-water sample (Header ES 480) exhibited polycyclic aromatic hydrocarbons (PAHs) at a combined concentration of 44 micrograms/liter (µg/L), which exceeds the WQCC HHS of 30 µg/L. The test-water sample (Header ES 571) exhibited a benzene concentration of 16 µg/L, which exceeds the WQCC HHS of 10 µg/L. No other VOC exceedances were identified in the test-water samples.

- No VOC exceedances were identified in the Rupture Site water samples.

Naphthalene is not listed individually as a contaminant under the NM WQCC HHSs, but is included with the PAHs.

RCRA 8 Metals

- The two (2) test-water samples exhibited barium concentrations of 0.060 milligram per liter (mg/L) (Header ES 480) and 0.090 mg/L (Header ES 571), which are below the WQCC HHS of 1.0 mg/L. Arsenic, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver concentrations for the test-water samples are below PQLs, which are below applicable WQCC HHSs.

- The water samples collected from Rupture Sites 1, 6, and 8 exhibited barium concentrations ranging from 0.13 mg/L (Source) to 0.25 mg/L (Ruptures 6 and 8), which are below the WQCC HHS of 1.0 mg/L. Arsenic concentrations range from below PQLs to 0.011 mg/L (Rupture #6), which are below the WQCC HHS of 0.1 mg/L. Chromium concentrations range from below PQLs to 0.0047 mg/L (Rupture #6), which are below the WQCC HHS of 0.05 mg/L. Mercury concentrations range from below PQLs to 0.00019 mg/L (Rupture #6), which are below the WQCC HHS of 0.002 mg/L. Cadmium, Lead, Selenium, and Silver concentrations are below PQLs, which are below the applicable WQCC HHSs.

Anions and Cations

- The water sample collected from Rupture 6 exhibited concentrations of fluoride (0.35 mg/L), chloride (37 mg/L), bromide (0.93 mg/L), nitrate (0.32 mg/L), sulfate (54 mg/L), calcium (44mg/L), magnesium (7.8 mg/L), potassium (19 mg/L), and sodium (18 mg/L), which are within acceptable ranges with regards to established WQCC HSSs and DWSSs.

The results of the water sample analyses are summarized in Tables 4 through 6 of Appendix C. Due to the extensive list of VOC analytes, Table 4 includes only results for analytes that exceeded the PQL in one (1) or more samples. Laboratory data sheets and chain-of-custody documentation are provided as Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Trunk MD 16" pipeline hydrostatic test (Ruptures 1 through 9) Sites are located within the Enterprise pipeline ROW in Section 1, Township 29 North, Range 11 West, Section 36, Township 30 North, Range 11 West, and Sections 18, 19, and 30, Township 30 North, Range 10 West, in San Juan County, New Mexico. Rupture Sites 1, 2, and 4 through 9 are located on land managed by the BLM. Rupture Site 3 is located on land owned by the State of New Mexico and managed by the New Mexico State Land Office. The Sites are surrounded by native-vegetation rangeland periodically interrupted by oil and gas gathering facilities, including the Enterprise MD 16" Trunk natural gas pipeline which traverses the area from approximately north to south.

Between June 17, 2016 and July 7, 2016, Enterprise performed a series of hydrostatic pressure tests on the Trunk MD 16" pipeline, which was separated into four test segments (Segments 1, 2A, 2B, and 3), covering a total distance of approximately 10.6 miles, to evaluate the integrity of the pipeline. The hydrostatic pressure tests ultimately resulted in nine (9) ruptures (all occurring in Segments 1 and 2A). The resulting pipeline failures were subsequently repaired by replacing pipe, and were re-tested until the entire pipeline passed the over-pressure and sustained-pressure hydrostatic tests.

- The primary objective of the ESI was to evaluate the potential impact to the environment from the released hydrostatic test water. The soils contacted by the test water (as well as the test water itself) were evaluated to determine if COCs affected the on-Site soils at concentrations above the applicable regulatory standards.

- A total of 38 confirmation flow path soil samples were collected from the nine (9) rupture locations for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *RAL*s for Site rankings of ">19".

- Sample SR SC-1 exhibited an arsenic concentration that exceeds the baseline NMED Residential SSLs, but appears to be on the lower end of the concentration range published by the USGS for this region of New Mexico.

- A total of four (4) water samples were collected from the ruptured pipeline or from standing water at Rupture Sites 1, 2, 6, and 8 for laboratory analyses. Based on analytical results, the release Site water samples exhibited COC concentrations below the NM WQCC HHSs and/or DWSSs.

- Two (2) samples of the test water from the water-filled pipeline were collected for laboratory analysis. Based on analytical results, test-water sample (Header ES 480) exhibited a combined PAH concentration above the WQCC HHS of 30 µg/L and test-water sample (Header ES 571) exhibited a benzene concentration above the WQCC HHS of 10 µg/L. No other VOC exceedances were identified in the hydrostatic test-water samples.

Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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 or described herein. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g.

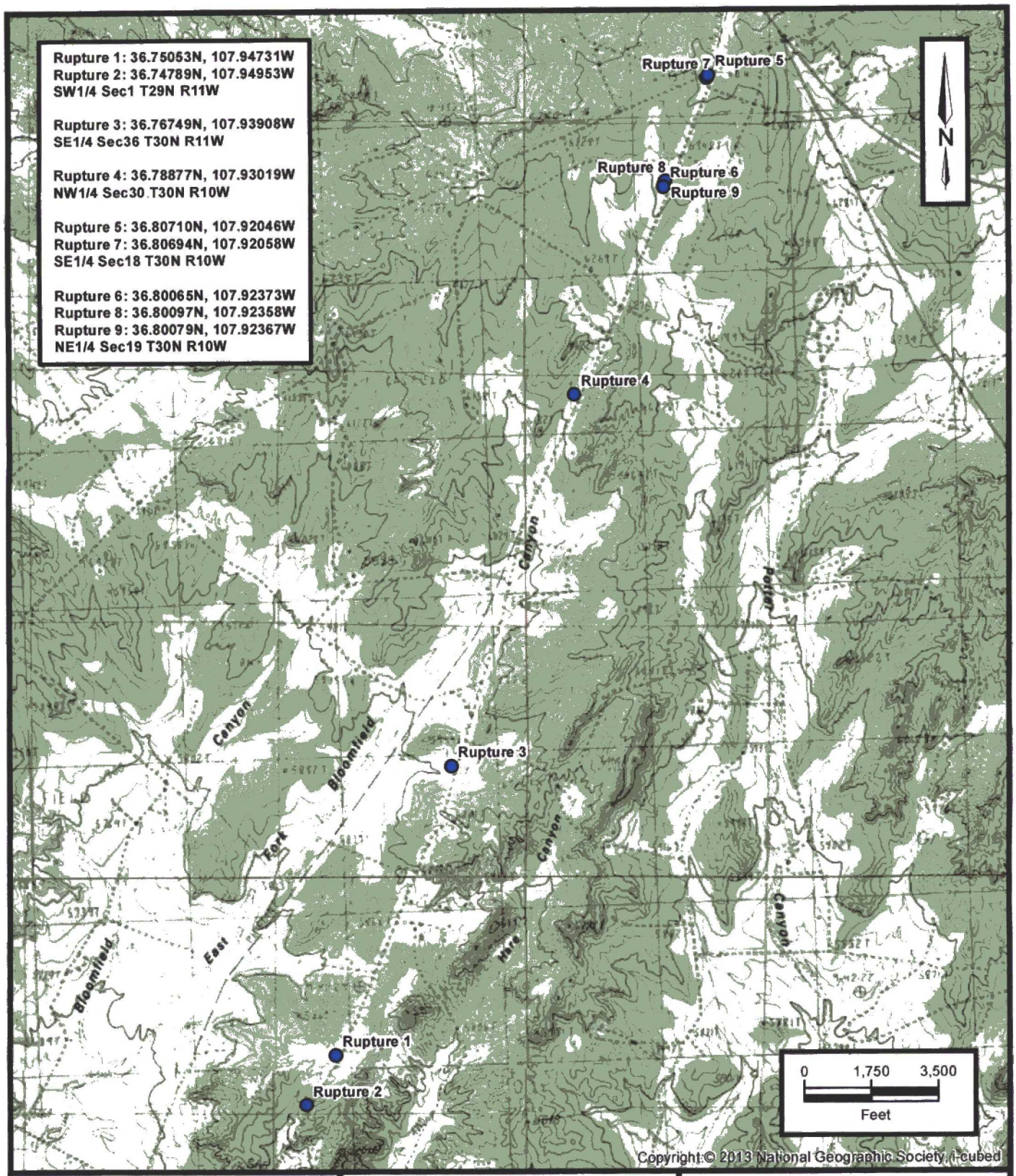
laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

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



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico

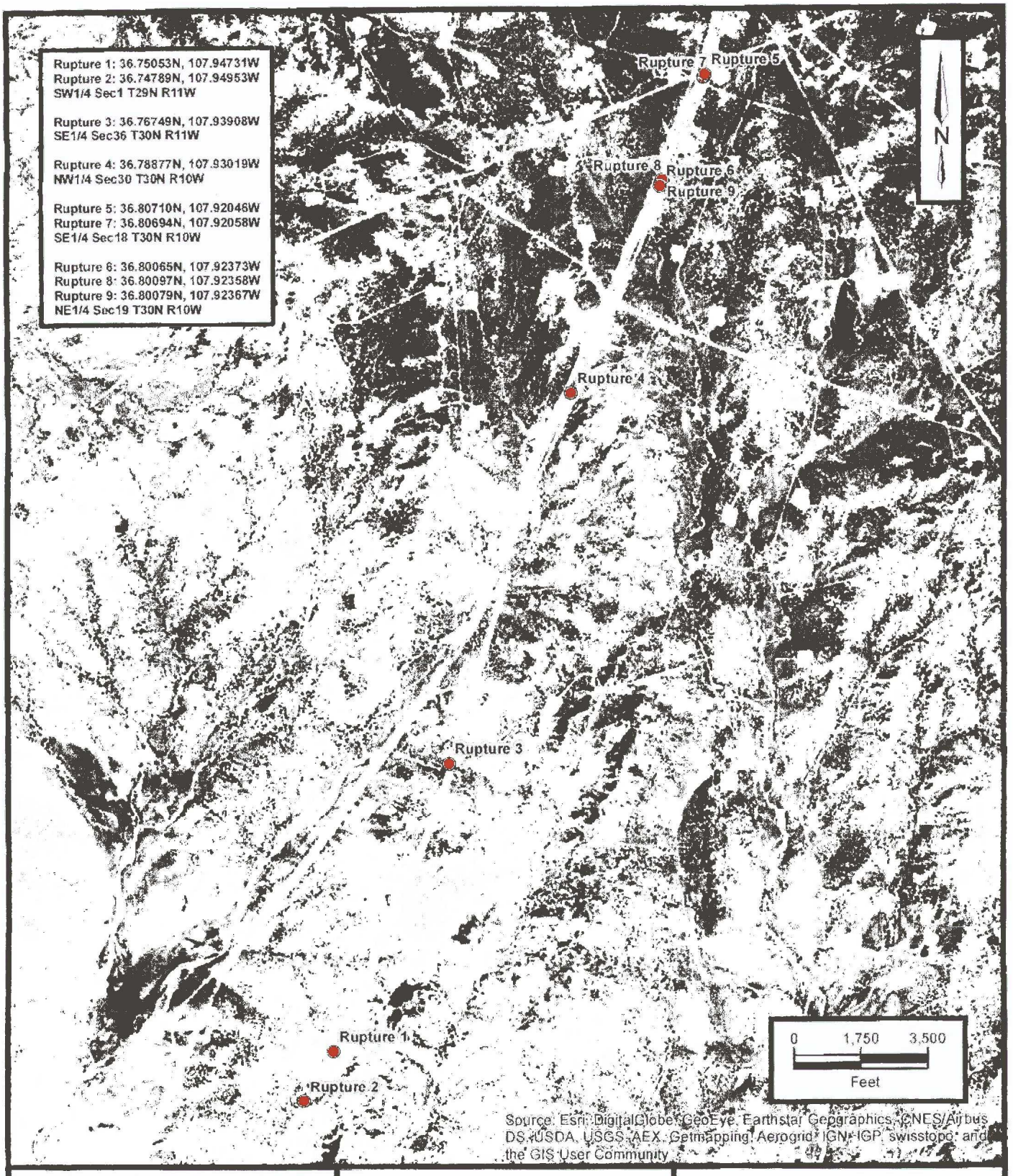
Project No. 725040112171

Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, NM 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 1

Topographic Map
Rupture Locations
Aztec, New Mexico Quadrangle
Bloomfield, New Mexico Quadrangle

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 1.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico

Project No. 725040112171

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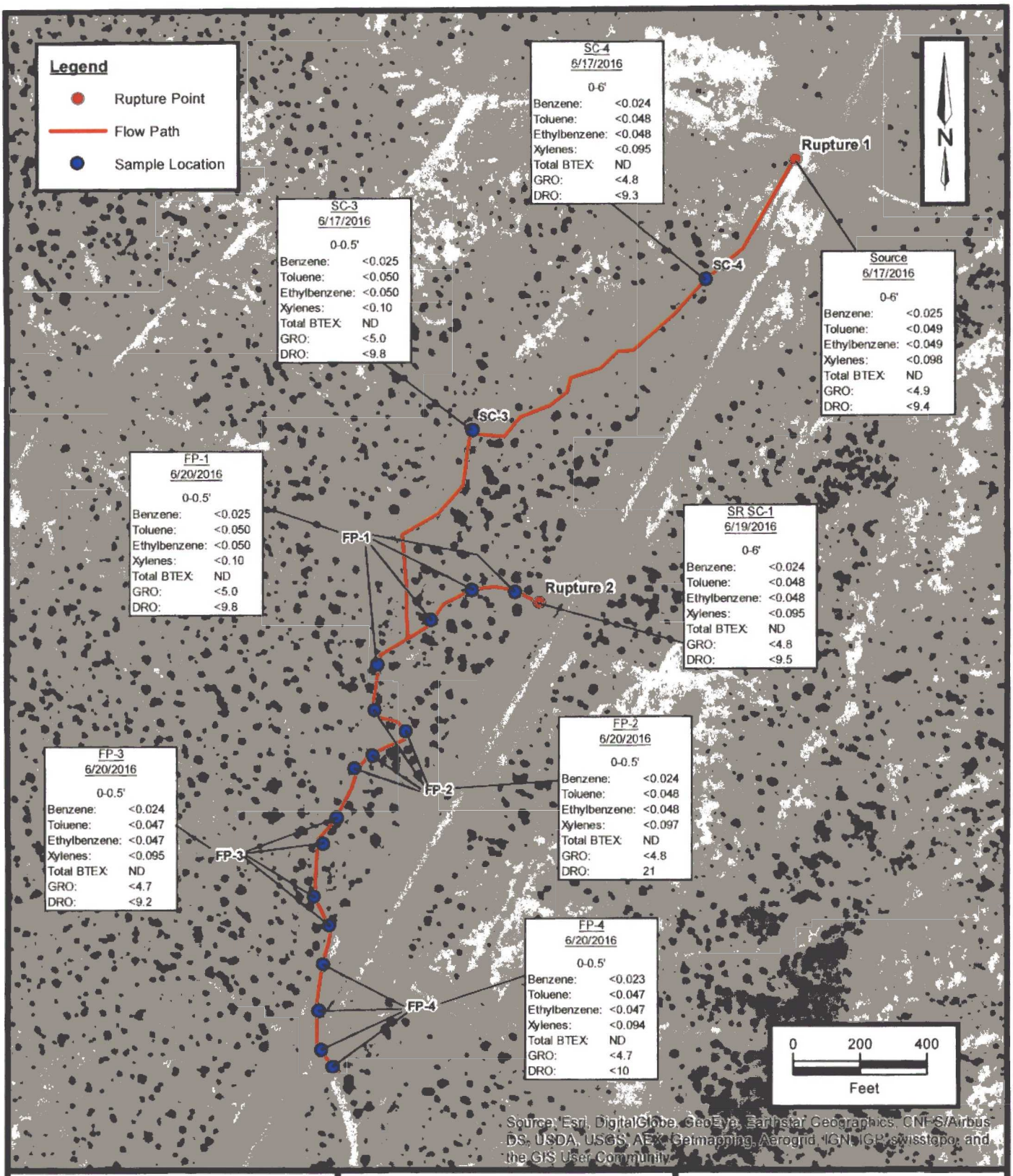
FIGURE 2

Site Vicinity Map
Rupture Locations

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 2.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico
Rupture 1: 36.75053N, 107.94731W
Rupture 2: 36.74789N, 107.94953W
SW1/4 Sec1 T29N R11W

Project No. 725040112171

Apex TITAN, Inc.
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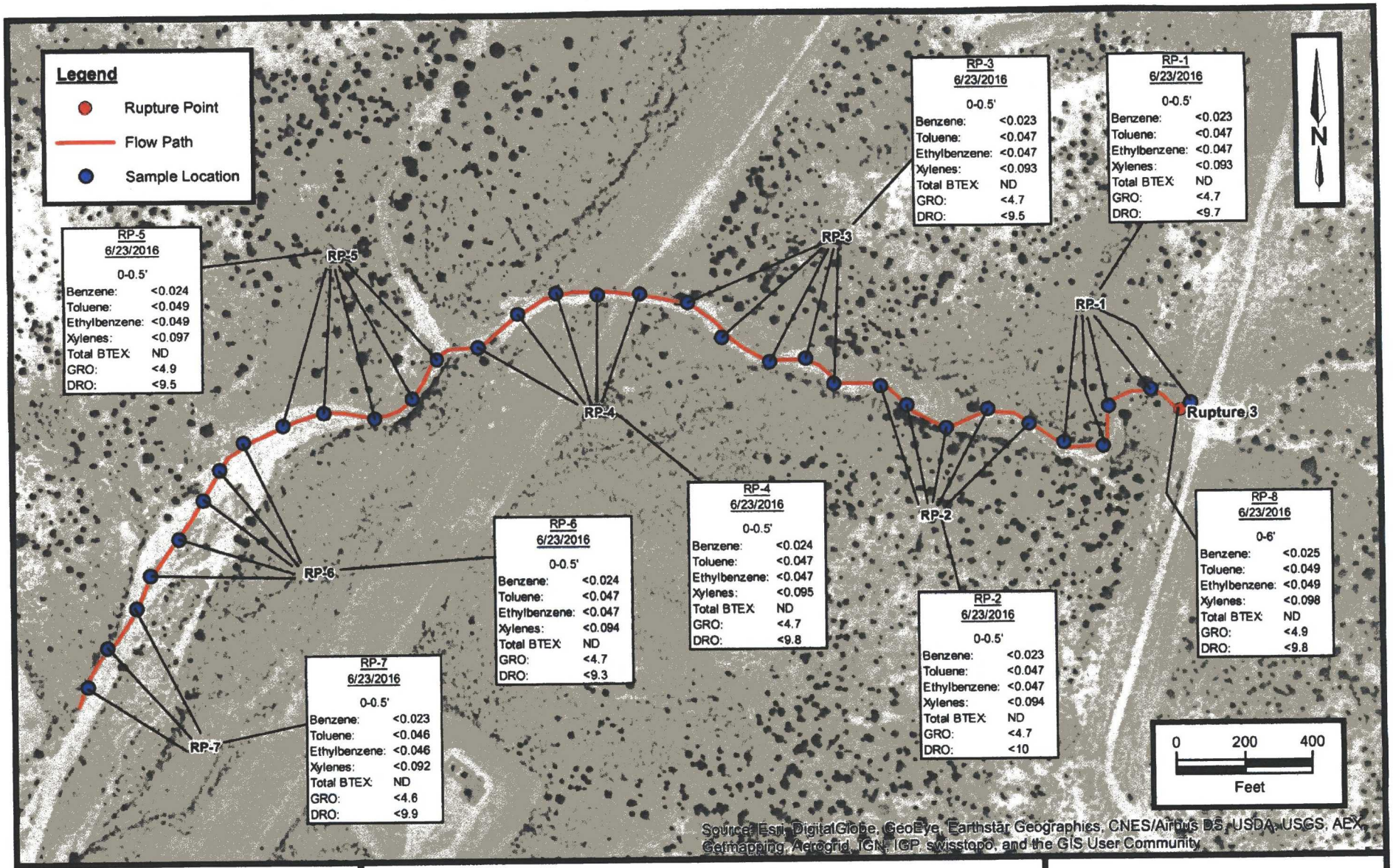
FIGURE 3A
Rupture 1 and 2

Site Map with Flow Path
Soil Analytical Results

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3A.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico
Rupture 3: 36.76749N, 107.93908W
SE1/4 Sec36 T30N R11W

Project No. 725040112171

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Phone: (505) 334-5200
www.apexcos.com
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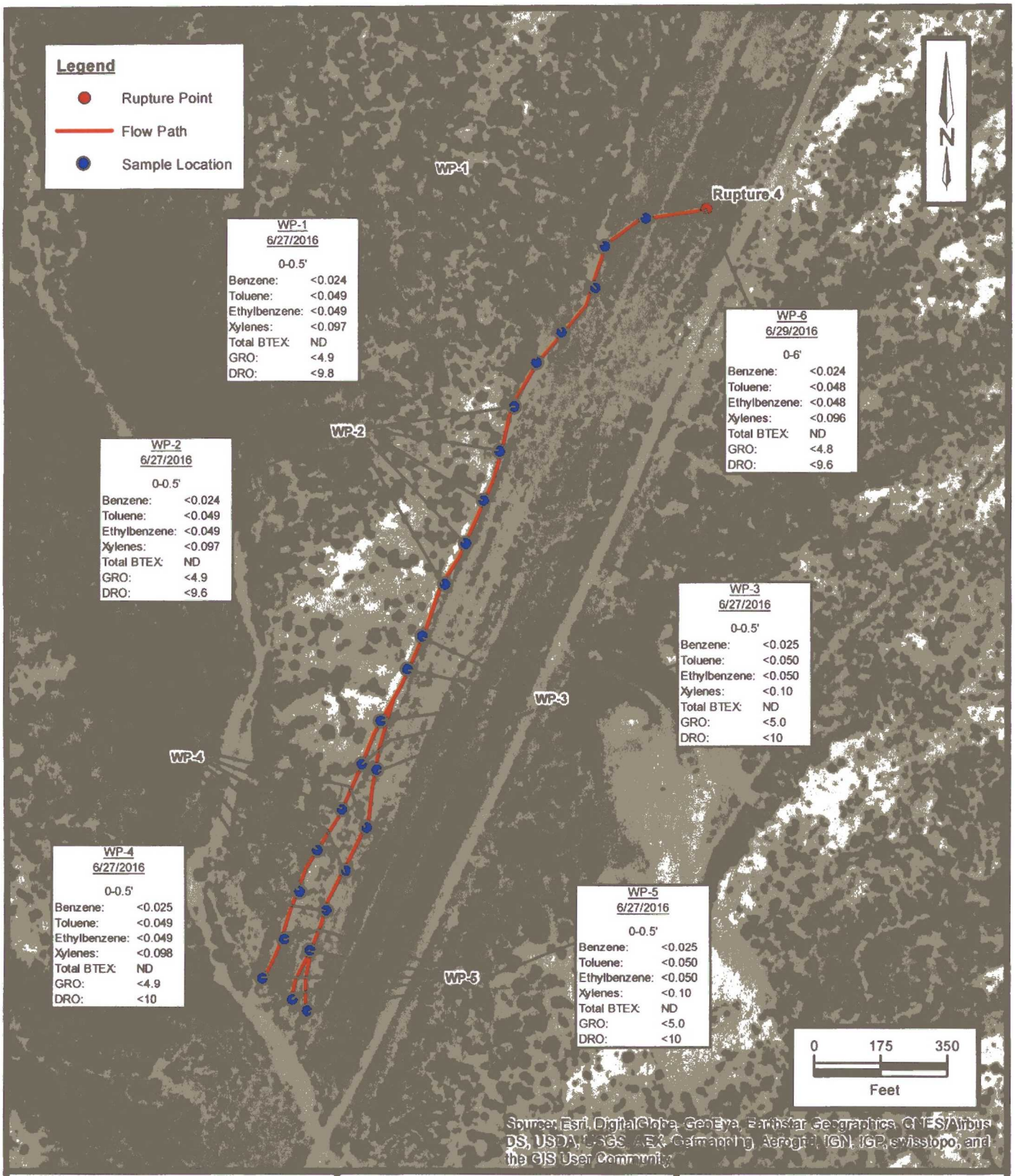
FIGURE 3B
Rupture 3

Site Map with Flow Path
Soil Analytical Results

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3B.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico
Rupture 4: 36.78877N, 107.93019W
NW1/4 Sec30 T30N R10W

Project No. 725040112171

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Aztec, NM 87410
Phone: (505) 334-5200
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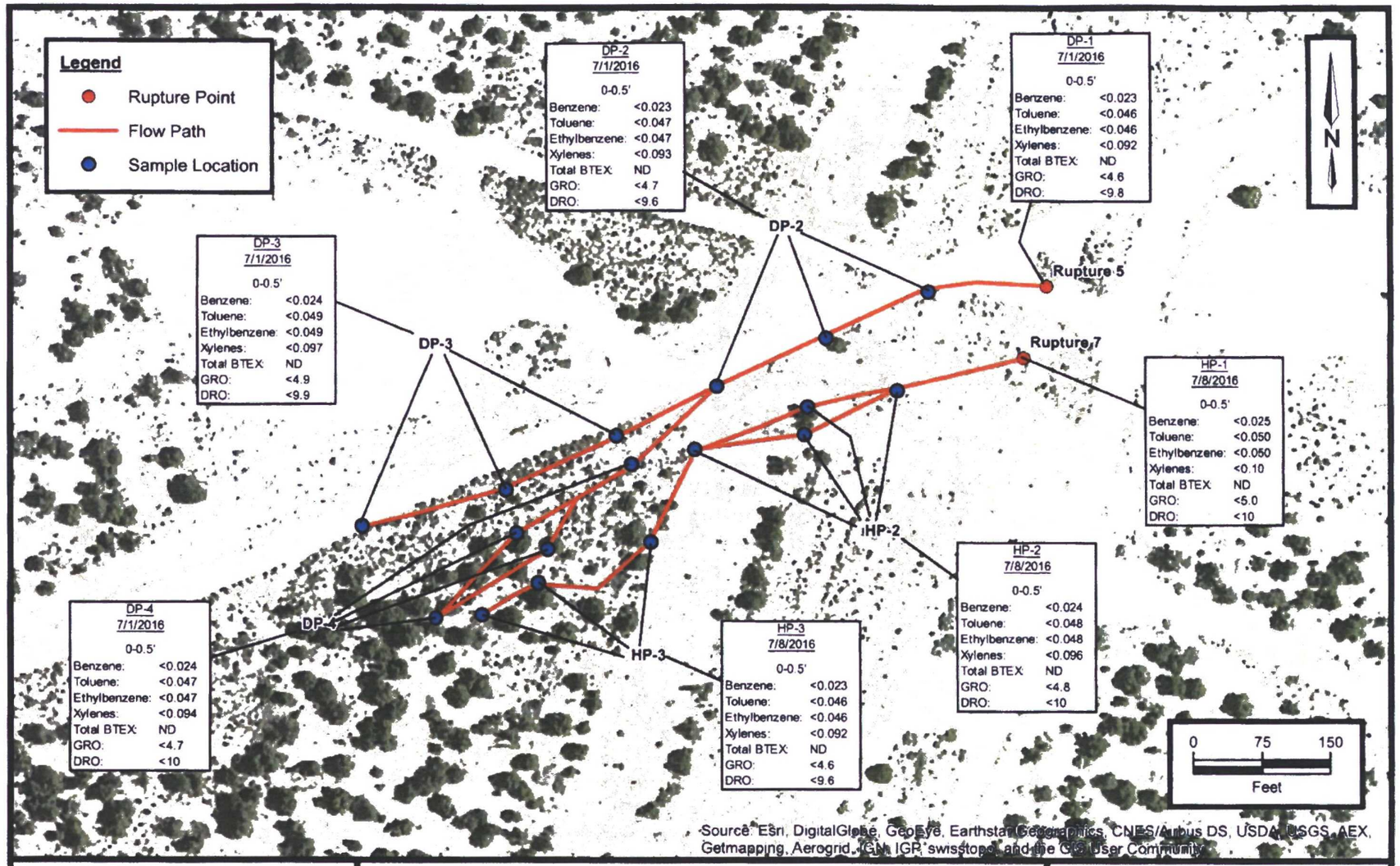
FIGURE 3C
Rupture 4

Site Map with Flow Path
Soil Analytical Results

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3C.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico
Rupture 5: 36.80710N, 107.92046W
Rupture 7: 36.80694N, 107.92058W
SE1/4 Sec18 T30N R10W

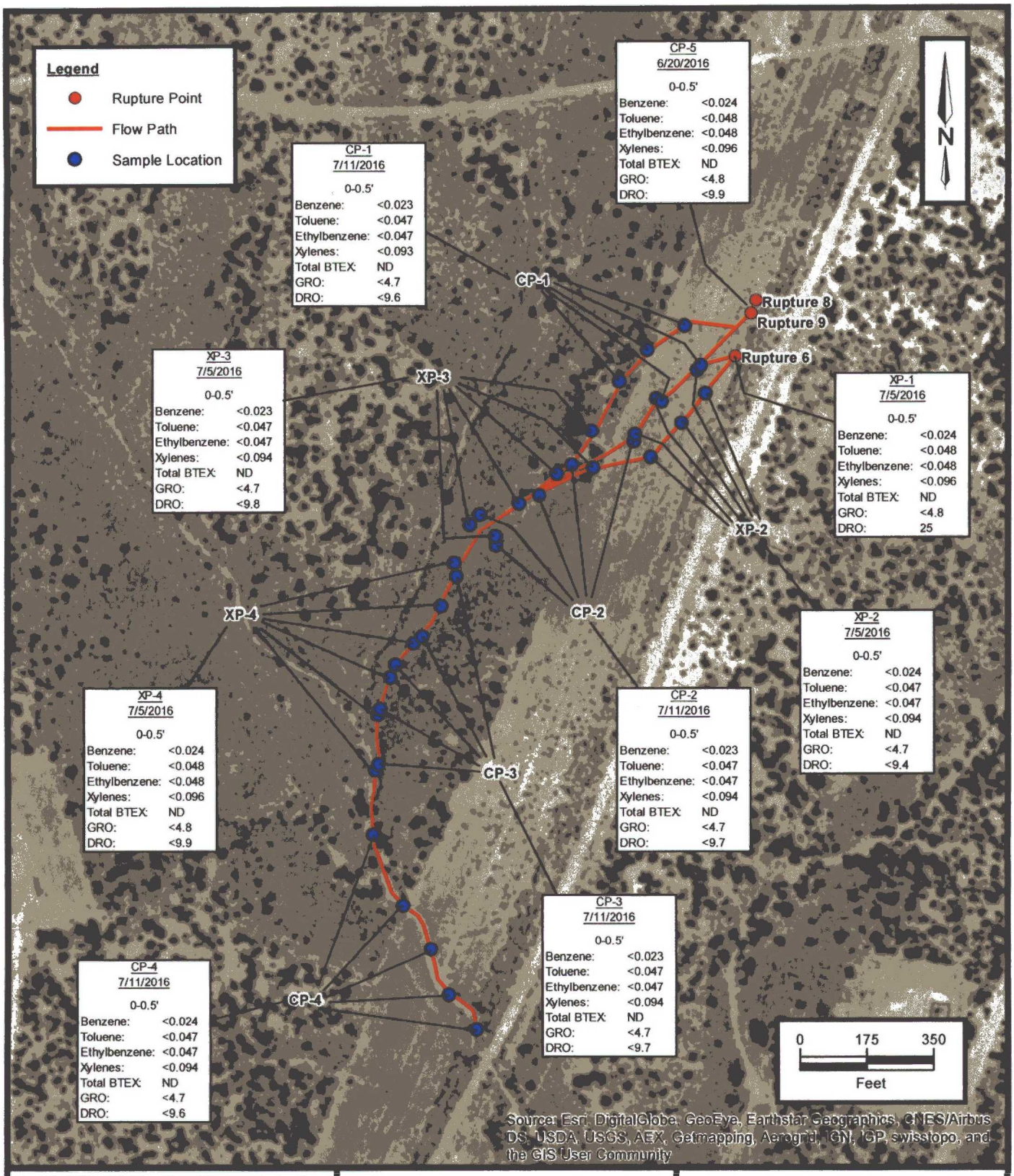
Project No. 725040112171

Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, NM 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3D
Rupture 5 and 7

Site Map with Flow Path
Soil Analytical Results

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3D.mxd 8/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System



Trunk MD 16" Pipeline Hydrostatic Test
Ruptures 1 through 9
San Juan County, New Mexico
Rupture 6: 36.80065N, 107.92373W
Rupture 8: 36.80097N, 107.92358W
Rupture 9: 36.80079N, 107.92367W
NE1/4 Sec19 T30N R10W

Project No. 725040112171

Apex TITAN, Inc.
608 South Rio Grande, Suite A
Aztec, NM 87410
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A Subsidiary of Apex Companies, LLC

FIGURE 3E
Rupture 6, 8 and 9

Site Map with Flow Path
Soil Analytical Results

Z:\Houston South\Drafting\New Mexico 04\2016\725040112171\Figure 3E.mxd 9/8/2016 WGS 1984 Web Mercator Auxiliary Sphere Projected Coordinate System

APPENDIX B

Photographic Documentation

Photograph 1

View of the Rupture 2 flow path (mid-section), facing northeast.

Photograph 2

View of the Rupture 2 flow path (southern section), facing northeast.

Photograph 3

View of the Rupture 3 source area, facing west.

Photograph 4

View of the end of the Rupture 3 flow path, facing north.

Photograph 5

View of the Rupture 4 source area, facing west.

Photograph 6

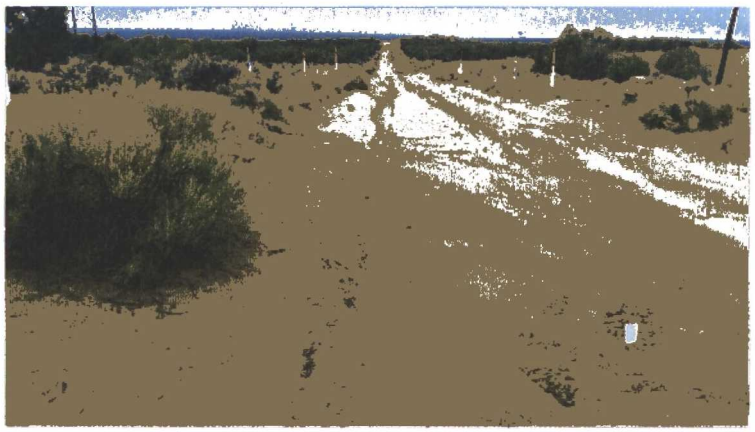
View of the Rupture 4 flow path (mid-section), facing north.

Photograph 7

View of the Rupture 5 source area, facing northwest.

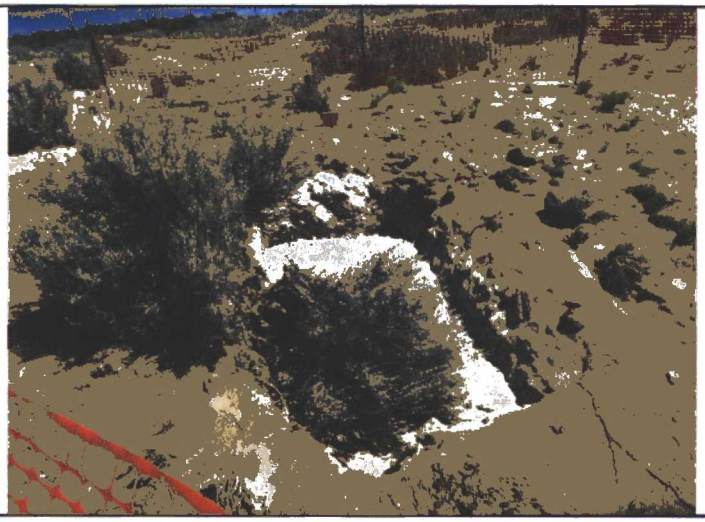
Photograph 8

View of the Rupture 5 flow path, facing southwest.



Photograph 9

View of the Rupture 6 source area, facing northwest.



Photograph 10

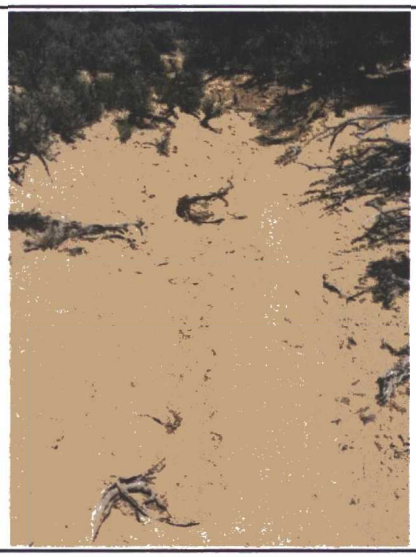
View of the end of the Rupture 6 flow path, facing northwest.

Photograph 11

View of the Rupture 7 source area, facing southwest.

Photograph 12

View of the end of the Rupture 7 flow path, facing northeast.



Photograph 13

View of the Rupture 8/9 source area, facing southwest.

Photograph 14

View of the end of the Rupture 8/9 flow path, facing northwest.

APPENDIX C

Tables

APEX

TABLE 1

Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)

SOIL ANALYTICAL SUMMARY - BTEX, TPH, AND CHLORIDES

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)	TPH MRO (mg/kg)	Chlorides (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100		NE	NE
Rupture 1 Flow Path Samples											
Source	6.17.16	0 to 0.5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.4	<47	150
SC-3	6.17.16	0 to 0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	<49	<30
SC-4	6.17.16	0 to 0.5	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.3	<47	<30
Rupture 2 Flow Path Samples											
SR SC-1	6.19.16	0 to 0.5	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.5	NA	1.5
FP-1	6.20.16	0 to 0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	NA	<30
FP-2	6.20.16	0 to 0.5	<0.024	<0.048	<0.048	<0.097	ND	<4.8	21	NA	<30
FP-3	6.20.16	0 to 0.5	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.2	NA	<30
FP-4	6.20.16	0 to 0.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<10	NA	<30
Rupture 3 Flow Path Samples											
RP-1	6.23.16	0 to 0.5	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.7	NA	1.5
RP-2	6.23.16	0 to 0.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<10	NA	<1.5
RP-3	6.23.16	0 to 0.5	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.5	NA	<30
RP-4	6.23.16	0 to 0.5	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.8	NA	<30
RP-5	6.23.16	0 to 0.5	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.5	NA	<30
RP-6	6.23.16	0 to 0.5	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.3	NA	<30
RP-7	6.23.16	0 to 0.5	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.9	NA	<30
RP-8	6.23.16	0 to 0.5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.8	NA	<30
Rupture 4 Flow Path Samples											
WP-1	6.27.16	0 to 0.5	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.8	NA	<30
WP-2	6.27.16	0 to 0.5	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.6	NA	<30
WP-3	6.27.16	0 to 0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	NA	<30
WP-4	6.27.16	0 to 0.5	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<10	NA	<30
WP-5	6.27.16	0 to 0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	NA	<30
WP-6	6.29.16	0 to 0.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.6	NA	<30

APEX

TABLE 1

Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)

SOIL ANALYTICAL SUMMARY - BTEX, TPH, AND CHLORIDES

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)	TPH MRO (mg/kg)	Chlorides (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100		NE	NE
Rupture 5 Flow Path Samples											
DP-1	7.01.16	0 to 0.5	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.8	NA	<30
DP-2	7.01.16	0 to 0.5	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.6	NA	<30
DP-3	7.01.16	0 to 0.5	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	NA	<30
DP-4	7.01.16	0 to 0.5	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<10	NA	<30
Rupture 6 Flow Path Samples											
XP-1	7.05.16	0 to 0.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	25	NA	<30
XP-2	7.05.16	0 to 0.5	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.4	NA	<30
XP-3	7.05.16	0 to 0.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.8	NA	<30
XP-4	7.05.16	0 to 0.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.9	NA	<30
Rupture 7 Flow Path Samples											
HP-1	7.08.16	0 to 0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	NA	<30
HP-2	7.08.16	0 to 0.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<10	NA	<30
HP-3	7.08.16	0 to 0.5	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.6	NA	<30
Rupture 8/9 Flow Path Samples											
CP-1	7.11.16	0 to 0.5	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.6	NA	3.4
CP-2	7.11.16	0 to 0.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.7	NA	3.6
CP-3	7.11.16	0 to 0.5	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.7	NA	4.6
CP-4	7.11.16	0 to 0.5	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.6	NA	2.5
CP-5	7.11.16	0 to 0.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.9	NA	6.1

ND = Not Detected above the Laboratory Reporting Limits

NE = Not established

APEX

TABLE 2

Trunk MD 16" Pipeline Hydrostatic Test- (Ruptures 1 through 9)

SOIL ANALYTICAL SUMMARY- RCRA 8 METALS

Sample I.D.	Date	Sample Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
New Mexico Environmental Department (NMED) default Soil Screening Levels (SSLs) Residential			**4.25**	**15,600**	**70.5**	**96.6**	**400**	**23.8**	**391**	**391**
New Mexico Environmental Department (NMED) default Soil Screening Levels (SSLs) Industrial			**21.5**	**255,000**	**1,100**	**505**	**800**	**112**	**6,490**	**6,490**
Rupture 2 Flow Path Sample										
SR SC-1	6.19.16	0 to 0.5	**6.9**	45	<0.099	1.3	3.7	<0.032	<2.5	<0.25

Note: Concentrations in **bold** and yellow exceed a soil screening level

APEX

TABLE 3
Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)
SOIL ANALYTICAL SUMMARY - ANION/CATIONS

Sample I.D.	Date	Sample Depth (feet)	Calcium (mg/kg)	Magnesium (mg/kg)	Potassium (mg/kg)	Sodium (mg/kg)	Fluoride (mg/kg)	Nitrate (mg/kg)	Sulfate (mg/kg)
New Mexico Environmental Department (NMED) default Soil Screening Levels (SSLs) Residential			NE	NE	NE	NE	4,690	125,000	NE
New Mexico Environmental Department (NMED) default Soil Screening Levels (SSLs) Industrial			-	-	-	-	77,800	2,080,000	- -
Rupture 8/9 Flow Path Samples									
CP-1	7.11.16	0 to 0.5	1,900	1,100	730	<50	0.71	0.84	17
CP-2	7.11.16	0 to 0.5	790	590	550	29	0.74	1.4	11
CP-3	7.11.16	0 to 0.5	1,400	1,300	870	32	1.2	1.0	10
CP-4	7.11.16	0 to 0.5	660	380	370	<25	0.45	0.55	5.7
CP-5	7.11.16	0 to 0.5	1,100	570	440	35	2.3	<0.30	15

NE = Not established

APEX

TABLE 4
Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)
WATER ANALYTICAL SUMMARY- Volatile Organic Compounds

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5- Trimethylbenzene (µg/L)	Naphthalene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Acetone (µg/L)	Bromodichloromethane (µg/L)	Chloroform (µg/L)	Dibromochloromethane (µg/L)	Isopropylbenzene (µg/L)	n-Propylbenzene (µg/L)
New Mexico Water Quality Control Commission Human Health Standards		**10**	**750**	**750**	**620**	**NE**	**NE**	**PAH-30**			**NE**	**NE**	**100**	**NE**	**NE**	**NE**
Pipeline Header Water Samples																
Header ES 480	6.17.16	7.2	31	3.7	64	50	19	**23**	**8.9**	**12**	50	2.7	24	<1.0	2.1	6.8
Header ES 571	6.17.16	**16**	58	5.6	80	25	9.3	10	<4.0	4.5	<10	4.8	19	<1.0	1.8	4.3
Rupture 1 Water Sample																
Source	6.16.16	3.5	43	11	120	26	12	9.1	7.4	9.8	<10	10	67	<1.0	2.6	3.1
Rupture 2 Water Sample																
SR WS-1	6.19.16	<1.0	1.1	<1.0	4.9	1.6	1.1	<2.0	<4.0	<4.0	<10	8.8	74	1.1	<1.0	<1.0
Rupture 6 Water Sample																
Rupture #6*	7.5.16	<200	<200	<200	<300	<200	<200	<400	<800	<800	<2,000	<200	85 (J)	<200	<200	<200
Rupture 8 Water Sample																
Rupture #8	7.9.16	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<2.0	<4.0	<4.0	<10	6.6	47	<1.0	47	<1.0

Note: Concentrations in **bold** and yellow exceed a WQCC Human Health Standard.

1,2,4-Trimethylbenzene,1,3,5-Trimethylbenzene, bromodichloromethane, dibromochloromethane, isopropylbenzene, and n-propylbenzene are not priority pollutants under the federal Clean Water Act (CWA) or the NM WQCC.

NE = Not Established

NA = Not Analyzed

* Sample was diluted due to TCLP reporting request.

J= Analyte dected below quantitation limits

TABLE 5

Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)

WATER ANALYTICAL SUMMARY- RCRA 8 METALS

Sample I.D.	Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
New Mexico Water Quality Control Commission Human Health Standards		0.1	1.0	0.01	0.05	0.05	0.002	0.05	0.05
Pipeline Header Water Samples									
Header ES 480	6.17.16	<0.020	0.060	<0.0020	<0.0060	<0.0050	0.00023	<0.050	<0.0050
Header ES 571	6.17.16	<0.020	0.090	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
Rupture 1 Water Sample									
Source	6.16.16	<0.020	0.13	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
Rupture 6 Water Sample									
Rupture #6	7.5.16	0.011 (J)	0.25	<0.0020	0.0047 (J)	<0.0050	0.00019 (J)	<0.050	<0.0050
Rupture 8 Water Sample									
Rupture #8	7.9.16	<0.020	0.25	<0.0020	<0.0060	0.0066	<0.00020	<0.050	<0.0050

Note: All RCRA 8 Metals are priority pollutants under the NM WQCC and federal CWA except Barium.
Barium is a priority pollutant under NM WQCC but not under the federal CWA.
J= Analyte dected below quantitation limits

TABLE 6

Trunk MD 16" Pipeline Hydrostatic Test - (Ruptures 1 through 9)

WATER ANALYTICAL SUMMARY- ANIONS AND CATIONS

Sample I.D.	Date	Fluoride (mg/L)	Chloride (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
New Mexico Water Quality Control Commission Human Health and Domestic Water Supply Standards		**1.6**	**250**	**NE**	**10**	**600**	**NE**	**NE**	**NE**	**NE**
Rupture 6 Water Sample										
Rupture #6	7.5.16	0.35 (J)	37	0.93	0.32 (J)	54	44	7.8	19	18

Note: Bromide, calcium, mangesium, potassium, and sodium are not priority pollutants under the federal CWA or the NM WQCC.

Chloride and sulfate priority pollutants under NM WQCC but not under the federal CWA.

NE = Not Established

J= Analyte detected below quantitation limits

APEX

APPENDIX D

Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 27, 2016

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

RE: MD 16 Inch Trunk Rupture OrderNo.: 1606A37

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/18/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606A37**
Date Reported: **6/27/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: MD 16 Inch Trunk Rupture
Lab ID: 1606A37-001 **Matrix:** SOIL

Client Sample ID: Source 36.750534-107.947310
Collection Date: 6/17/2016 8:30:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	150	30		mg/Kg	20	6/20/2016 4:23:06 PM	25953
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/20/2016 6:21:15 PM	25934
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2016 6:21:15 PM	25934
Surr: DNOP	88.7	70-130		%Rec	1	6/20/2016 6:21:15 PM	25934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/21/2016 12:52:31 PM	25948
Surr: BFB	102	80-120		%Rec	1	6/21/2016 12:52:31 PM	25948
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.025		mg/Kg	1	6/21/2016 12:52:31 PM	25948
Toluene	ND	0.049		mg/Kg	1	6/21/2016 12:52:31 PM	25948
Ethylbenzene	ND	0.049		mg/Kg	1	6/21/2016 12:52:31 PM	25948
Xylenes, Total	ND	0.098		mg/Kg	1	6/21/2016 12:52:31 PM	25948
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	6/21/2016 12:52:31 PM	25948

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: MD 16 Inch Trunk Rupture
Lab ID: 1606A37-004 **Matrix:** SOIL

Client Sample ID: SC-3 36.748655-107.950182
Collection Date: 6/17/2016 9:06:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/20/2016 4:35:31 PM	25953
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/20/2016 6:49:30 PM	25934
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2016 6:49:30 PM	25934
Surr: DNOP	90.2	70-130		%Rec	1	6/20/2016 6:49:30 PM	25934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2016 1:17:01 PM	25948
Surr: BFB	101	80-120		%Rec	1	6/21/2016 1:17:01 PM	25948
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.025		mg/Kg	1	6/21/2016 1:17:01 PM	25948
Toluene	ND	0.050		mg/Kg	1	6/21/2016 1:17:01 PM	25948
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2016 1:17:01 PM	25948
Xylenes, Total	ND	0.10		mg/Kg	1	6/21/2016 1:17:01 PM	25948
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	6/21/2016 1:17:01 PM	25948

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: MD 16 Inch Trunk Rupture
Lab ID: 1606A37-005 **Matrix:** SOIL

Client Sample ID: SC-4 36-749991-107.948064
Collection Date: 6/17/2016 9:16:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/20/2016 4:47:56 PM	25953
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/20/2016 7:17:45 PM	25934
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2016 7:17:45 PM	25934
Surr: DNOP	90.1	70-130		%Rec	1	6/20/2016 7:17:45 PM	25934
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2016 1:41:34 PM	25948
Surr: BFB	98.8	80-120		%Rec	1	6/21/2016 1:41:34 PM	25948
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	6/21/2016 1:41:34 PM	25948
Toluene	ND	0.048		mg/Kg	1	6/21/2016 1:41:34 PM	25948
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2016 1:41:34 PM	25948
Xylenes, Total	ND	0.095		mg/Kg	1	6/21/2016 1:41:34 PM	25948
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	6/21/2016 1:41:34 PM	25948

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A37**

27-Jun-16

Client: Enterprise Field Services

Project: MD 16 Inch Trunk Rupture

Sample ID **MB-25953**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **25953**	RunNo: **35022**							
Prep Date: **6/20/2016**	Analysis Date: **6/20/2016**	SeqNo: **1083001**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-25953**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **25953**	RunNo: **35022**							
Prep Date: **6/20/2016**	Analysis Date: **6/20/2016**	SeqNo: **1083002**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A37**

27-Jun-16

Client: Enterprise Field Services
Project: MD 16 Inch Trunk Rupture

Sample ID **MB-25888**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25888**	RunNo: **35005**
Prep Date: **6/16/2016**	Analysis Date: **6/20/2016**	SeqNo: **1082125** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.4	70	130			

Sample ID **LCS-25888**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25888**	RunNo: **35005**
Prep Date: **6/16/2016**	Analysis Date: **6/20/2016**	SeqNo: **1082126** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.3	70	130			

Sample ID **MB-25934**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25934**	RunNo: **35006**
Prep Date: **6/20/2016**	Analysis Date: **6/20/2016**	SeqNo: **1082985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	70	130			

Sample ID **LCS-25934**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25934**	RunNo: **35006**
Prep Date: **6/20/2016**	Analysis Date: **6/20/2016**	SeqNo: **1082986** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	62.6	124			
Surr: DNOP	4.7		5.000		93.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A37**

27-Jun-16

Client: Enterprise Field Services

Project: MD 16 Inch Trunk Rupture

Sample ID **MB-25948**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **25948**	RunNo: **35050**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1084234** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	80	120			

Sample ID **LCS-25948 C**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **25948**	RunNo: **35050**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084235** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.3	80	120			
Surr: BFB	1000		1000		105	80	120			

Sample ID **1606A37-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Source 36.750534-1**	Batch ID: **25948**	RunNo: **35050**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1084236** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.8	24.11	0	77.2	59.3	143			
Surr: BFB	1000		964.3		105	80	120			

Sample ID **1606A37-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Source 36.750534-1**	Batch ID: **25948**	RunNo: **35050**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1084238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.7	23.30	0	78.6	59.3	143	1.51	20	
Surr: BFB	1000		932.0		108	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A37**

27-Jun-16

Client: Enterprise Field Services

Project: MD 16 Inch Trunk Rupture

Sample ID **MB-25948**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25948**	RunNo: **35050**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1084239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID **LCS-25948**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25948**	RunNo: **35050**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1084240** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.5	75.3	123			
Toluene	0.85	0.050	1.000	0	84.7	80	124			
Ethylbenzene	0.83	0.050	1.000	0	83.3	82.8	121			
Xylenes, Total	2.5	0.10	3.000	0	83.8	83.9	122			S
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Enterprise** Work Order Number: **1606A37** RcptNo: **1**

Received by/date: 06/18/16

Logged By: **Lindsay Mangin** 6/18/2016 8:00:00 AM

Completed By: **Lindsay Mangin** 6/18/2016 8:50:35 AM

Reviewed By: 06/20/16

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	1.4	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: Enterprise Products Operating
Mailing Address: 614 Reilly Ave. Farmington NM 87401
Phone #: 505-599-2286
email or Fax#: tjlong@eprod.com
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ NELAP ☐ Other ____ ☐ EDD (Type) ____

Turn-Around Time: ☐ Standard ☒ Rush Next Day
Project Name: ~~Tank~~ MD 16 Inch Trunk Rupture
Project #:
Project Manager: Thomas Long
Sampler: TJL
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.2

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1610[illegible]	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
10-17-16	0830	Soil	Source 36.750534, -107.947310	4oz Jars	cool	-001	X		X									X				
	0856		SC-1 36.749208, -107.951213			-002	X		X									X				
	0900		SC-2 36.746128, -107.951291			-003	X		X									X				
	0906		SC-3 36.748655, -107.950182			-004	X		X									X				
	0916		SC-4 36.749991, -107.948064			-005	X		X									X				

Date: 10/18/16 Time: 0800 Relinquished by: Thomas Long
Received by: [signature] Date: 10/18/16 Time: 0800
Date: Time: Relinquished by:
Received by: Date: Time:

Remarks: CANCEL SC-1, SC-2 (-002 & -003) PER TOM LONG

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 29, 2016

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

RE: Trunk MD 16 Inch OrderNo.: 1606A36

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/18/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 27, 2016.

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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606A36**
Date Reported: **6/29/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-001 **Matrix:** AQUEOUS

Client Sample ID: Source 36.750534-107.947310
Collection Date: 6/16/2016 8:40:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	6/20/2016 3:48:59 PM	25939
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	0.020		mg/L	1	6/21/2016 8:20:18 AM	25941
Barium	0.13	0.020		mg/L	1	6/21/2016 8:20:18 AM	25941
Cadmium	ND	0.0020		mg/L	1	6/21/2016 8:20:18 AM	25941
Chromium	ND	0.0060		mg/L	1	6/21/2016 8:20:18 AM	25941
Lead	ND	0.0050		mg/L	1	6/21/2016 8:20:18 AM	25941
Selenium	ND	0.050		mg/L	1	6/21/2016 8:20:18 AM	25941
Silver	ND	0.0050		mg/L	1	6/21/2016 8:20:18 AM	25941
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	3.5	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Toluene	43	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Ethylbenzene	11	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2,4-Trimethylbenzene	26	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,3,5-Trimethylbenzene	12	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Naphthalene	9.1	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1-Methylnaphthalene	7.4	4.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
2-Methylnaphthalene	9.8	4.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Acetone	ND	10		µg/L	1	6/21/2016 5:23:00 PM	R35071
Bromobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Bromodichloromethane	10	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Bromoform	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Bromomethane	ND	3.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
2-Butanone	ND	10		µg/L	1	6/21/2016 5:23:00 PM	R35071
Carbon disulfide	ND	10		µg/L	1	6/21/2016 5:23:00 PM	R35071
Carbon Tetrachloride	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Chlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Chloroethane	ND	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Chloroform	67	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Chloromethane	ND	3.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
2-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
4-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
cis-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-001 **Matrix:** AQUEOUS

Client Sample ID: Source 36.750534-107.947310
Collection Date: 6/16/2016 8:40:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Dibromochloromethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Dibromomethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1-Dichloroethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1-Dichloroethene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,3-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
2,2-Dichloropropane	ND	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Hexachlorobutadiene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
2-Hexanone	ND	10		µg/L	1	6/21/2016 5:23:00 PM	R35071
Isopropylbenzene	2.6	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
4-Isopropyltoluene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
4-Methyl-2-pentanone	ND	10		µg/L	1	6/21/2016 5:23:00 PM	R35071
Methylene Chloride	ND	3.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
n-Butylbenzene	ND	3.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
n-Propylbenzene	3.1	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
sec-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Styrene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
tert-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
trans-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Trichlorofluoromethane	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Vinyl chloride	ND	1.0		µg/L	1	6/21/2016 5:23:00 PM	R35071
Xylenes, Total	120	1.5		µg/L	1	6/21/2016 5:23:00 PM	R35071
Surr: 1,2-Dichloroethane-d4	85.8	70-130		%Rec	1	6/21/2016 5:23:00 PM	R35071
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	6/21/2016 5:23:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-001 **Matrix:** AQUEOUS

Client Sample ID: Source 36.750534-107.947310
Collection Date: 6/16/2016 8:40:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Surr: Dibromofluoromethane	93.6	70-130		%Rec	1	6/21/2016 5:23:00 PM	R35071
Surr: Toluene-d8	98.6	70-130		%Rec	1	6/21/2016 5:23:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-002 **Matrix:** AQUEOUS

Client Sample ID: Header ES 480
Collection Date: 6/17/2016 12:03:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	0.00023	0.00020		mg/L	1	6/20/2016 3:55:06 PM	25939
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	0.020		mg/L	1	6/21/2016 8:23:51 AM	25941
Barium	0.060	0.020		mg/L	1	6/21/2016 8:23:51 AM	25941
Cadmium	ND	0.0020		mg/L	1	6/21/2016 8:23:51 AM	25941
Chromium	ND	0.0060		mg/L	1	6/21/2016 8:23:51 AM	25941
Lead	ND	0.0050		mg/L	1	6/21/2016 8:23:51 AM	25941
Selenium	ND	0.050		mg/L	1	6/21/2016 8:23:51 AM	25941
Silver	ND	0.0050		mg/L	1	6/21/2016 8:23:51 AM	25941
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	7.2	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Toluene	31	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Ethylbenzene	3.7	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2,4-Trimethylbenzene	50	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,3,5-Trimethylbenzene	19	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Naphthalene	23	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1-Methylnaphthalene	8.9	4.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
2-Methylnaphthalene	12	4.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Acetone	50	10		µg/L	1	6/21/2016 6:34:00 PM	R35071
Bromobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Bromodichloromethane	2.7	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Bromoform	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Bromomethane	ND	3.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
2-Butanone	ND	10		µg/L	1	6/21/2016 6:34:00 PM	R35071
Carbon disulfide	ND	10		µg/L	1	6/21/2016 6:34:00 PM	R35071
Carbon Tetrachloride	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Chlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Chloroethane	ND	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Chloroform	24	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Chloromethane	ND	3.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
2-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
4-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
cis-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-002 **Matrix:** AQUEOUS

Client Sample ID: Header ES 480
Collection Date: 6/17/2016 12:03:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Dibromochloromethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Dibromomethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1-Dichloroethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1-Dichloroethene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,3-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
2,2-Dichloropropane	ND	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Hexachlorobutadiene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
2-Hexanone	ND	10		µg/L	1	6/21/2016 6:34:00 PM	R35071
Isopropylbenzene	2.1	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
4-Isopropyltoluene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
4-Methyl-2-pentanone	ND	10		µg/L	1	6/21/2016 6:34:00 PM	R35071
Methylene Chloride	ND	3.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
n-Butylbenzene	ND	3.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
n-Propylbenzene	6.8	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
sec-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Styrene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
tert-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
trans-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Trichlorofluoromethane	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Vinyl chloride	ND	1.0		µg/L	1	6/21/2016 6:34:00 PM	R35071
Xylenes, Total	64	1.5		µg/L	1	6/21/2016 6:34:00 PM	R35071
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%Rec	1	6/21/2016 6:34:00 PM	R35071
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/21/2016 6:34:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-002 **Matrix:** AQUEOUS

Client Sample ID: Header ES 480
Collection Date: 6/17/2016 12:03:00 PM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	6/21/2016 6:34:00 PM	R35071
Surr: Toluene-d8	97.3	70-130		%Rec	1	6/21/2016 6:34:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-003 **Matrix:** AQUEOUS

Client Sample ID: Header ES 571
Collection Date: 6/17/2016 11:39:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	6/20/2016 3:57:08 PM	25939
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	0.020		mg/L	1	6/21/2016 8:25:02 AM	25941
Barium	0.090	0.020		mg/L	1	6/21/2016 8:25:02 AM	25941
Cadmium	ND	0.0020		mg/L	1	6/21/2016 8:25:02 AM	25941
Chromium	ND	0.0060		mg/L	1	6/21/2016 8:25:02 AM	25941
Lead	ND	0.0050		mg/L	1	6/21/2016 8:25:02 AM	25941
Selenium	ND	0.050		mg/L	1	6/21/2016 8:25:02 AM	25941
Silver	ND	0.0050		mg/L	1	6/21/2016 8:25:02 AM	25941
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Benzene	16	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Toluene	58	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Ethylbenzene	5.6	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2,4-Trimethylbenzene	25	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,3,5-Trimethylbenzene	9.3	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Naphthalene	10	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1-Methylnaphthalene	ND	4.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
2-Methylnaphthalene	4.5	4.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Acetone	ND	10		µg/L	1	6/21/2016 6:58:00 PM	R35071
Bromobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Bromodichloromethane	4.8	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Bromoform	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Bromomethane	ND	3.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
2-Butanone	ND	10		µg/L	1	6/21/2016 6:58:00 PM	R35071
Carbon disulfide	ND	10		µg/L	1	6/21/2016 6:58:00 PM	R35071
Carbon Tetrachloride	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Chlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Chloroethane	ND	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Chloroform	19	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Chloromethane	ND	3.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
2-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
4-Chlorotoluene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
cis-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-003 **Matrix:** AQUEOUS

Client Sample ID: Header ES 571
Collection Date: 6/17/2016 11:39:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Dibromochloromethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Dibromomethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1-Dichloroethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1-Dichloroethene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,3-Dichloropropane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
2,2-Dichloropropane	ND	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Hexachlorobutadiene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
2-Hexanone	ND	10		µg/L	1	6/21/2016 6:58:00 PM	R35071
Isopropylbenzene	1.8	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
4-Isopropyltoluene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
4-Methyl-2-pentanone	ND	10		µg/L	1	6/21/2016 6:58:00 PM	R35071
Methylene Chloride	ND	3.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
n-Butylbenzene	ND	3.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
n-Propylbenzene	4.3	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
sec-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Styrene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
tert-Butylbenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
trans-1,2-DCE	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Trichlorofluoromethane	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Vinyl chloride	ND	1.0		µg/L	1	6/21/2016 6:58:00 PM	R35071
Xylenes, Total	80	1.5		µg/L	1	6/21/2016 6:58:00 PM	R35071
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	6/21/2016 6:58:00 PM	R35071
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/21/2016 6:58:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606A36-003 **Matrix:** AQUEOUS

Client Sample ID: Header ES 571
Collection Date: 6/17/2016 11:39:00 AM
Received Date: 6/18/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BCN**	
Surr: Dibromofluoromethane	94.0	70-130		%Rec	1	6/21/2016 6:58:00 PM	R35071
Surr: Toluene-d8	97.7	70-130		%Rec	1	6/21/2016 6:58:00 PM	R35071

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **tune 6**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084527** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **tune 6**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084527** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	9.9		10.00		99.4	70	130			

Sample ID **1606a36-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Source 36.750534-1**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084538** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	3.962	97.6	70	130			
Toluene	63	1.0	20.00	46.34	81.3	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **1606a36-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Source 36.750534-1**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084538** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.7	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.9	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Sample ID **1606a36-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Source 36.750534-1**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084539** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	3.962	98.2	70	130	0.467	20	
Toluene	61	1.0	20.00	46.34	74.8	70	130	2.09	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	2.01	20	
1,1-Dichloroethene	19	1.0	20.00	0	93.7	70	130	7.96	20	
Trichloroethene (TCE)	19	1.0	20.00	0	95.9	70	130	5.55	20	
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	9.5		10.00		95.3	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		97.0	70	130	0	0	

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R35071**	RunNo: **35071**
Prep Date:	Analysis Date: **6/21/2016**	SeqNo: **1084542** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.1	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID	**MB-25939**	SampType:	**MBLK**		TestCode:	**EPA Method 7470: Mercury**				
Client ID:	**PBW**	Batch ID:	**25939**		RunNo:	**35037**				
Prep Date:	**6/20/2016**	Analysis Date:	**6/20/2016**		SeqNo:	**1083381**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-25939**	SampType:	**LCS**		TestCode:	**EPA Method 7470: Mercury**				
Client ID:	**LCSW**	Batch ID:	**25939**		RunNo:	**35037**				
Prep Date:	**6/20/2016**	Analysis Date:	**6/20/2016**		SeqNo:	**1083382**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	96.3	80	120			

Sample ID	**1606A36-001BMS**	SampType:	**MS**		TestCode:	**EPA Method 7470: Mercury**				
Client ID:	**Source 36.750534-1**	Batch ID:	**25939**		RunNo:	**35037**				
Prep Date:	**6/20/2016**	Analysis Date:	**6/20/2016**		SeqNo:	**1083384**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	75	125			

Sample ID	**1606A36-001BMSD**	SampType:	**MSD**		TestCode:	**EPA Method 7470: Mercury**				
Client ID:	**Source 36.750534-1**	Batch ID:	**25939**		RunNo:	**35037**				
Prep Date:	**6/20/2016**	Analysis Date:	**6/20/2016**		SeqNo:	**1083385**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.5	75	125	0.754	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB-25941**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **25941**	RunNo: **35033**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1083100** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Sample ID **LCS-25941**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **25941**	RunNo: **35033**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1083101** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.50	0.020	0.5000	0	101	80	120			
Barium	0.49	0.020	0.5000	0	98.3	80	120			
Cadmium	0.49	0.0020	0.5000	0	98.9	80	120			
Chromium	0.49	0.0060	0.5000	0	98.7	80	120			
Lead	0.49	0.0050	0.5000	0	98.4	80	120			
Selenium	0.51	0.050	0.5000	0	103	80	120			
Silver	0.10	0.0050	0.1000	0	99.6	80	120			

Sample ID **1606A36-001BMS**	SampType: **MS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Source 36.750534-1**	Batch ID: **25941**	RunNo: **35033**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1083104** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.020	0.5000	0	104	75	125			
Barium	0.62	0.020	0.5000	0.1331	96.6	75	125			
Cadmium	0.49	0.0020	0.5000	0	97.3	75	125			
Chromium	0.48	0.0060	0.5000	0.003980	95.4	75	125			
Lead	0.48	0.0050	0.5000	0	95.3	75	125			
Selenium	0.50	0.050	0.5000	0	99.9	75	125			
Silver	0.099	0.0050	0.1000	0	98.6	75	125			

Sample ID **1606A36-001BMSD**	SampType: **MSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Source 36.750534-1**	Batch ID: **25941**	RunNo: **35033**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1083105** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.52	0.020	0.5000	0	104	75	125	0.110	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A36**

29-Jun-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **1606A36-001BMSD**	SampType: **MSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Source 36.750534-1**	Batch ID: **25941**	RunNo: **35033**
Prep Date: **6/20/2016**	Analysis Date: **6/21/2016**	SeqNo: **1083105** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.60	0.020	0.5000	0.1331	94.2	75	125	1.93	20	
Cadmium	0.49	0.0020	0.5000	0	97.4	75	125	0.0801	20	
Chromium	0.48	0.0060	0.5000	0.003980	95.7	75	125	0.330	20	
Lead	0.48	0.0050	0.5000	0	95.6	75	125	0.340	20	
Selenium	0.52	0.050	0.5000	0	103	75	125	3.42	20	
Silver	0.098	0.0050	0.1000	0	97.6	75	125	1.07	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Enterprise** Work Order Number: **1606A36** RcptNo: **1**

Received by/date: 06/18/16
Logged By: **Lindsay Mangin** 6/18/2016 8:00:00 AM
Completed By: **Lindsay Mangin** 6/18/2016 8:43:53 AM
Reviewed By: 06/20/16

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 ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
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 ☐	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	1.4	Good	Yes			

Chain-of-Custody Record

Client: Enterprise Products Operating

Mailing Address: 614 Reilly Ave. Farmington, NM 87401

Phone #: 505-599-2286

Email or Fax#: tjlong@eprod.com

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

Accreditation: NELAP ☐ Other _____

EDD (Type) _____

Turn-Around Time: ☐ Standard ☒ Rush Next Day

Project Name: Trunk MD 16 Inch

Project #:

Project Manager: Thomas Long

Sampler: TJC

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1600ABLo	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)						Air Bubbles (Y or N)
16-16	2040	Water	Source 36.750534 -107.949310	3 VOAs 500mL	HCl/HNO3	-001							X			X							
7-16	1203	↓	Header ES 480	↓	↓	-002							X			X							
↓	1139	↓	Header ES 571	↓	↓	-003							X			X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/16		Thomas Long			
Date:	Time:	Relinquished by:	Received by:	Date	Time
				07/11/16	0900

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 14, 2016

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

RE: Trunk MD 16 Inch OrderNo.: 1606B73

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/21/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606B73**
Date Reported: **7/14/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606B73-001 **Matrix:** SOIL

Client Sample ID: SR SC-1
Collection Date: 6/19/2016 1:30:00 PM
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	1.5	1.5		mg/Kg	1	6/24/2016 5:25:57 PM	26073
EPA METHOD 7471: MERCURY						Analyst: **pmf**	
Mercury	ND	0.032		mg/Kg	1	6/24/2016 12:20:25 PM	26037
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Arsenic	6.9	2.5		mg/Kg	1	6/30/2016 10:22:10 AM	26038
Barium	45	0.099		mg/Kg	1	6/30/2016 10:22:10 AM	26038
Cadmium	ND	0.099		mg/Kg	1	6/27/2016 11:39:27 AM	26038
Chromium	1.3	0.30		mg/Kg	1	6/27/2016 11:39:27 AM	26038
Lead	3.7	0.25		mg/Kg	1	6/30/2016 10:22:10 AM	26038
Selenium	ND	2.5		mg/Kg	1	6/30/2016 10:22:10 AM	26038
Silver	ND	0.25		mg/Kg	1	6/27/2016 11:39:27 AM	26038
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/27/2016 3:45:24 PM	25992
Surr: DNOP	94.6	70-130		%Rec	1	6/27/2016 3:45:24 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2016 1:21:07 AM	25994
Surr: BFB	99.2	80-120		%Rec	1	6/27/2016 1:21:07 AM	25994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 1:21:07 AM	25994
Toluene	ND	0.048		mg/Kg	1	6/27/2016 1:21:07 AM	25994
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2016 1:21:07 AM	25994
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2016 1:21:07 AM	25994
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	6/27/2016 1:21:07 AM	25994

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606B73-002 **Matrix:** AQUEOUS

Client Sample ID: SR WS-1
Collection Date: 6/19/2016 12:05:00 PM
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Toluene	1.1	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Ethylbenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2,4-Trimethylbenzene	1.6	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,3,5-Trimethylbenzene	1.1	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Naphthalene	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1-Methylnaphthalene	ND	4.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
2-Methylnaphthalene	ND	4.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Acetone	ND	10		µg/L	1	6/27/2016 9:17:19 PM	A35244
Bromobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Bromodichloromethane	8.8	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Bromoform	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Bromomethane	ND	3.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
2-Butanone	ND	10		µg/L	1	6/27/2016 9:17:19 PM	A35244
Carbon disulfide	ND	10		µg/L	1	6/27/2016 9:17:19 PM	A35244
Carbon Tetrachloride	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Chlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Chloroethane	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Chloroform	74	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Chloromethane	ND	3.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
2-Chlorotoluene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
4-Chlorotoluene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
cis-1,2-DCE	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Dibromochloromethane	1.1	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Dibromomethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1-Dichloroethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1-Dichloroethene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2-Dichloropropane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,3-Dichloropropane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
2,2-Dichloropropane	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1606B73-002 **Matrix:** AQUEOUS

Client Sample ID: SR WS-1
Collection Date: 6/19/2016 12:05:00 PM
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Hexachlorobutadiene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
2-Hexanone	ND	10		µg/L	1	6/27/2016 9:17:19 PM	A35244
Isopropylbenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
4-Isopropyltoluene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
4-Methyl-2-pentanone	ND	10		µg/L	1	6/27/2016 9:17:19 PM	A35244
Methylene Chloride	ND	3.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
n-Butylbenzene	ND	3.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
n-Propylbenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
sec-Butylbenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Styrene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
tert-Butylbenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
trans-1,2-DCE	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Trichlorofluoromethane	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Vinyl chloride	ND	1.0		µg/L	1	6/27/2016 9:17:19 PM	A35244
Xylenes, Total	4.9	1.5		µg/L	1	6/27/2016 9:17:19 PM	A35244
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/27/2016 9:17:19 PM	A35244
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	6/27/2016 9:17:19 PM	A35244
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	6/27/2016 9:17:19 PM	A35244
Surr: Toluene-d8	92.5	70-130		%Rec	1	6/27/2016 9:17:19 PM	A35244

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID	**MB-26073**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26073**		RunNo:	**35186**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088718**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26073**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26073**		RunNo:	**35186**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088719**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB-25992**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089257** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	ND	10								
Surr: DNOP	8.9		10.00		88.6	70	130			

Sample ID **LCS-25992**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089274** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	62.6	124			
Surr: DNOP	4.8		5.000		96.6	70	130			

Sample ID **1606B73-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SR SC-1**	Batch ID: **25992**	RunNo: **35219**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089739** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	39	9.2	45.87	2.122	80.5	33.9	141			
Surr: DNOP	4.3		4.587		93.9	70	130			

Sample ID **1606B73-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SR SC-1**	Batch ID: **25992**	RunNo: **35219**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089740** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.4	46.90	2.122	82.9	33.9	141	4.91	20	
Surr: DNOP	4.3		4.690		92.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB-25994**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089084** 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	990		1000		99.1	80	120			

Sample ID **LCS-25994**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089085** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	80	120			
Surr: BFB	1100		1000		109	80	120			

Sample ID **1606B73-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SR SC-1**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.80	0	96.5	59.3	143			
Surr: BFB	1100		992.1		107	80	120			

Sample ID **1606B73-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SR SC-1**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.06	0	103	59.3	143	3.16	20	
Surr: BFB	1000		962.5		109	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB-25994**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089121** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	80	120			

Sample ID **LCS-25994**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25994**	RunNo: **35223**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	75.3	123			
Toluene	1.1	0.050	1.000	0	108	80	124			
Ethylbenzene	1.1	0.050	1.000	0	109	82.8	121			
Xylenes, Total	3.2	0.10	3.000	0	107	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35244**	RunNo: **35244**
Prep Date:	Analysis Date: **6/27/2016**	SeqNo: **1089953** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35244**	RunNo: **35244**
Prep Date:	Analysis Date: **6/27/2016**	SeqNo: **1089953** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.8	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	9.4		10.00		93.9	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A35244**	RunNo: **35244**
Prep Date:	Analysis Date: **6/27/2016**	SeqNo: **1089954** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	18	1.0	20.00	0	91.4	70	130			
Chlorobenzene	18	1.0	20.00	0	90.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A35244**	RunNo: **35244**
Prep Date:	Analysis Date: **6/27/2016**	SeqNo: **1089954** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.5	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.1	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID	**MB-26037**	SampType:	**MBLK**		TestCode:	**EPA Method 7471: Mercury**				
Client ID:	**PBS**	Batch ID:	**26037**		RunNo:	**35191**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088910**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	**LCS-26037**	SampType:	**LCS**		TestCode:	**EPA Method 7471: Mercury**				
Client ID:	**LCSS**	Batch ID:	**26037**		RunNo:	**35191**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088911**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	102	80	120			

Sample ID	**1606B73-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 7471: Mercury**				
Client ID:	**SR SC-1**	Batch ID:	**26037**		RunNo:	**35191**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088913**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.032	0.1620	0.003284	103	75	125			

Sample ID	**1606B73-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 7471: Mercury**				
Client ID:	**SR SC-1**	Batch ID:	**26037**		RunNo:	**35191**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088914**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1671	0.003284	105	75	125	4.59	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services
Project: Trunk MD 16 Inch

Sample ID **MB-26038**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **26038**	RunNo: **35227**
Prep Date: **6/23/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089173** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Lead	ND	0.25								
Selenium	ND	2.5								
Silver	ND	0.25								

Sample ID **LCS-26038**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **26038**	RunNo: **35227**
Prep Date: **6/23/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089174** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	25.00	0	93.0	80	120			
Barium	23	0.10	25.00	0	93.0	80	120			
Cadmium	24	0.10	25.00	0	95.4	80	120			
Chromium	23	0.30	25.00	0	92.8	80	120			
Lead	22	0.25	25.00	0	89.1	80	120			
Selenium	24	2.5	25.00	0	95.8	80	120			
Silver	4.8	0.25	5.000	0	95.4	80	120			

Sample ID **1606B73-001AMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **SR SC-1**	Batch ID: **26038**	RunNo: **35227**
Prep Date: **6/23/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089256** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	20	0.099	24.81	0	79.1	75	125			
Chromium	20	0.30	24.81	1.261	76.5	75	125			
Silver	4.0	0.25	4.961	0	81.3	75	125			

Sample ID **1606B73-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **SR SC-1**	Batch ID: **26038**	RunNo: **35227**
Prep Date: **6/23/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	21	0.10	25.14	0	83.2	75	125	6.36	20	
Chromium	22	0.30	25.14	1.261	83.3	75	125	9.21	20	
Silver	4.2	0.25	5.027	0	84.3	75	125	4.90	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B73**

14-Jul-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID	1606B73-001AMS	SampType:	MS		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	SR SC-1	Batch ID:	26038		RunNo:	35332				
Prep Date:	6/23/2016	Analysis Date:	6/30/2016		SeqNo:	1093135	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	2.5	24.81	6.922	77.0	75	125			
Barium	61	0.099	24.81	45.48	60.7	75	125			S
Lead	23	0.25	24.81	3.701	79.2	75	125			
Selenium	22	2.5	24.81	0	86.9	75	125			

Sample ID	1606B73-001AMSD	SampType:	MSD		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	SR SC-1	Batch ID:	26038		RunNo:	35332				
Prep Date:	6/23/2016	Analysis Date:	6/30/2016		SeqNo:	1093136	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	27	2.5	25.14	6.922	78.0	75	125	1.96	20	
Barium	83	0.10	25.14	45.48	148	75	125	30.8	20	RS
Lead	24	0.25	25.14	3.701	80.3	75	125	2.33	20	
Selenium	21	2.5	25.14	0	83.6	75	125	2.56	20	

Sample ID	1606B73-001APS	SampType:	PS		TestCode:	EPA Method 6010B: Soil Metals				
Client ID:	SR SC-1	Batch ID:	26038		RunNo:	35332				
Prep Date:		Analysis Date:	6/30/2016		SeqNo:	1093137	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	73	0.099	24.82	45.48	109	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Enterprise | Work Order Number: 1606B73 | RcptNo: 1

Received by/date: LM 06/21/16

Logged By: Joe Archuleta 6/21/2016 8:00:00 AM

Completed By: Joe Archuleta 6/21/2016 3:04:21 PM

Reviewed By: aJ 6/21/16

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	3.5	Good	Yes			

Chain-of-Custody Record

Client: Enterprise Products Operating

Mailing Address: 614 Reilly Ave. Farmington, NM 87401

Phone #: 505-599-2286

Email or Fax#: fjlong@eprod.com

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

Accreditation: ☐ NELAP ☐ Other

EDD (Type):

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: Trunk MD 16 Inch

Project #:

Project Manager: Thomas Long

Sampler: TJL

On Ice: ☐ Yes ☐ No

Sample Temperature: 3.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1606373	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chlorides				Air Bubbles (Y or N)
6-16	1330	Soil	SR SC-1	4oz Jar	cool	-001	X		X				X					X				
6-16	1205	Water	SR WS-1	2 VOA's	HgCl2	-002										X						

Date: 6-16 Time: Relinquished by: Thomas Long

Date: Time: Relinquished by:

Received by: Date: 06/24/16 Time: 0800

Received by: Date: Time:

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 29, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1606B27

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/21/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606B27**
Date Reported: **6/29/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: FP-1
Project: Trunk MD 16" Hydro
Collection Date: 6/20/2016 10:50:00 AM
Lab ID: 1606B27-001
Matrix: SOIL
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/24/2016 5:02:07 AM	26042
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/23/2016 4:46:52 PM	25944
Surr: DNOP	108	70-130		%Rec	1	6/23/2016 4:46:52 PM	25944
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2016 5:00:53 PM	25976
Surr: BFB	99.4	80-120		%Rec	1	6/22/2016 5:00:53 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.025		mg/Kg	1	6/22/2016 5:00:53 PM	25976
Toluene	ND	0.050		mg/Kg	1	6/22/2016 5:00:53 PM	25976
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2016 5:00:53 PM	25976
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2016 5:00:53 PM	25976
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	6/22/2016 5:00:53 PM	25976

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: FP-2
Project: Trunk MD 16" Hydro
Collection Date: 6/20/2016 11:00:00 AM
Lab ID: 1606B27-002
Matrix: SOIL
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/24/2016 5:14:31 AM	26042
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	6/23/2016 5:08:37 PM	25944
Surr: DNOP	107	70-130		%Rec	1	6/23/2016 5:08:37 PM	25944
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/22/2016 6:11:39 PM	25976
Surr: BFB	97.6	80-120		%Rec	1	6/22/2016 6:11:39 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	6/22/2016 6:11:39 PM	25976
Toluene	ND	0.048		mg/Kg	1	6/22/2016 6:11:39 PM	25976
Ethylbenzene	ND	0.048		mg/Kg	1	6/22/2016 6:11:39 PM	25976
Xylenes, Total	ND	0.097		mg/Kg	1	6/22/2016 6:11:39 PM	25976
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	6/22/2016 6:11:39 PM	25976

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: FP-3
Project: Trunk MD 16" Hydro
Collection Date: 6/20/2016 11:10:00 AM
Lab ID: 1606B27-003
Matrix: SOIL
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/24/2016 11:50:52 AM	26073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/23/2016 5:30:31 PM	25944
Surr: DNOP	107	70-130		%Rec	1	6/23/2016 5:30:31 PM	25944
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/22/2016 7:22:36 PM	25976
Surr: BFB	97.2	80-120		%Rec	1	6/22/2016 7:22:36 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	6/22/2016 7:22:36 PM	25976
Toluene	ND	0.047		mg/Kg	1	6/22/2016 7:22:36 PM	25976
Ethylbenzene	ND	0.047		mg/Kg	1	6/22/2016 7:22:36 PM	25976
Xylenes, Total	ND	0.095		mg/Kg	1	6/22/2016 7:22:36 PM	25976
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	6/22/2016 7:22:36 PM	25976

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: FP-4
Project: Trunk MD 16" Hydro
Collection Date: 6/20/2016 11:20:00 AM
Lab ID: 1606B27-004
Matrix: SOIL
Received Date: 6/21/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/24/2016 12:28:05 PM	26073
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/23/2016 5:52:18 PM	25944
Surr: DNOP	109	70-130		%Rec	1	6/23/2016 5:52:18 PM	25944
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/22/2016 7:46:09 PM	25976
Surr: BFB	102	80-120		%Rec	1	6/22/2016 7:46:09 PM	25976
EPA METHOD 8021B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.023		mg/Kg	1	6/22/2016 7:46:09 PM	25976
Toluene	ND	0.047		mg/Kg	1	6/22/2016 7:46:09 PM	25976
Ethylbenzene	ND	0.047		mg/Kg	1	6/22/2016 7:46:09 PM	25976
Xylenes, Total	ND	0.094		mg/Kg	1	6/22/2016 7:46:09 PM	25976
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	6/22/2016 7:46:09 PM	25976

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B27**

29-Jun-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26042**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26042**		RunNo:	**35149**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/23/2016**		SeqNo:	**1087334**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26042**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26042**		RunNo:	**35149**				
Prep Date:	**6/23/2016**	Analysis Date:	**6/23/2016**		SeqNo:	**1087335**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Sample ID	**MB-26073**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26073**		RunNo:	**35186**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088718**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26073**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26073**		RunNo:	**35186**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/24/2016**		SeqNo:	**1088719**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B27**

29-Jun-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-25944**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25944**	RunNo: **35116**
Prep Date: **6/20/2016**	Analysis Date: **6/23/2016**	SeqNo: **1086562** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		88.1	70	130			

Sample ID **LCS-25944**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25944**	RunNo: **35116**
Prep Date: **6/20/2016**	Analysis Date: **6/23/2016**	SeqNo: **1086657** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	38	10	50.00	0	75.2	62.6	124			
Surr: DNOP	4.4		5.000		87.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B27**

29-Jun-16

Client: APEX TITAN
Project: Trunk MD 16" Hydro

Sample ID **MB-25976**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **25976**	RunNo: **35097**							
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085943**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	80	120			

Sample ID **1606B27-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **FP-2**	Batch ID: **25976**	RunNo: **35097**							
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085947**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.83	0	94.2	59.3	143			
Surr: BFB	1100		993.0		106	80	120			

Sample ID **1606B27-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **FP-2**	Batch ID: **25976**	RunNo: **35097**							
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085948**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.56	0	99.9	59.3	143	0.589	20	
Surr: BFB	1100		942.5		118	80	120	0	0	

Sample ID **LCS-25976**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **25976**	RunNo: **35174**							
Prep Date: **6/21/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088116**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	80	120			
Surr: BFB	1100		1000		107	80	120			

Sample ID **LCS-26055**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **26055**	RunNo: **35174**							
Prep Date: **6/24/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088117**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	80	120			

Sample ID **MB-26055**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **26055**	RunNo: **35174**							
Prep Date: **6/24/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088118**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B27**

29-Jun-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-25976**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085953** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	80	120			

Sample ID **LCS-25976**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085954** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	75.3	123			
Toluene	0.98	0.050	1.000	0	97.7	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.4	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	98.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID **1606B27-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **FP-1**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9285	0	103	71.5	122			
Toluene	0.98	0.046	0.9285	0	106	71.2	123			
Ethylbenzene	0.99	0.046	0.9285	0	107	75.2	130			
Xylenes, Total	2.9	0.093	2.786	0.01671	103	72.4	131			
Surr: 4-Bromofluorobenzene	0.94		0.9285		101	80	120			

Sample ID **1606B27-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **FP-1**	Batch ID: **25976**	RunNo: **35097**
Prep Date: **6/21/2016**	Analysis Date: **6/22/2016**	SeqNo: **1085957** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9785	0	97.1	71.5	122	0.686	20	
Toluene	1.0	0.049	0.9785	0	102	71.2	123	1.71	20	
Ethylbenzene	1.0	0.049	0.9785	0	105	75.2	130	3.94	20	
Xylenes, Total	3.0	0.098	2.935	0.01671	103	72.4	131	5.38	20	
Surr: 4-Bromofluorobenzene	0.98		0.9785		100	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606B27**

29-Jun-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**LCS-26055**	SampType:	**LCS**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**LCSS**	Batch ID:	**26055**		RunNo:	**35174**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/25/2016**		SeqNo:	**1088135**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Sample ID	**MB-26055**	SampType:	**MBLK**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**PBS**	Batch ID:	**26055**		RunNo:	**35174**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/25/2016**		SeqNo:	**1088136**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC Work Order Number: 1606B27 RcptNo: 1

Received by/date: OT 06/21/16

Logged By: Ashley Gallegos 6/21/2016 8:00:00 AM

Completed By: Ashley Gallegos 6/21/2016 10:13:59 AM

Reviewed By: aJ 6/21/16

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	4.8	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 4.8

1 | 2 | 3 | 4 | 5

Page 1 of 1

Sampler's Name: Ranee Deechilly

Sampler's Signature: RDeechilly

Proj. No.

Project Name: Trunk MD 16" Hydro

No/Type of Containers

ANALYSIS REQUESTED

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	8021 BTEX	8015 TPH (GRO/DRO)	Chlorides	Lab Sample ID (Lab Use Only)
S	6/20/16	1050			FP-1						1		X	X	X	1606B27 001
S		1100			FP-2						1		X	X	X	-002
S		1110			FP-3						1		X	X	X	-003
S	↓	1120			FP-4						1		X	X	X	-004

NES

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
RDeechilly	6/20/16	1630		6/21/16	0900
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:

Bill to Tom Lung EPROD

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1606D44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/24/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606D44**
Date Reported: **7/6/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-1
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 9:50:00 AM
Lab ID: 1606D44-001
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	1.5	1.5		mg/Kg	1	6/28/2016 12:54:41 AM	26092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/27/2016 8:51:37 PM	25992
Surr: DNOP	94.7	70-130		%Rec	1	6/27/2016 8:51:37 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 6:33:33 PM	26054
Surr: BFB	99.1	80-120		%Rec	1	6/27/2016 6:33:33 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2016 6:33:33 PM	26054
Toluene	ND	0.047		mg/Kg	1	6/27/2016 6:33:33 PM	26054
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 6:33:33 PM	26054
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2016 6:33:33 PM	26054
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	6/27/2016 6:33:33 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-2
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:00:00 AM
Lab ID: 1606D44-002
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	1.5		mg/Kg	1	6/28/2016 1:19:31 AM	26092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/27/2016 9:13:31 PM	25992
Surr: DNOP	98.3	70-130		%Rec	1	6/27/2016 9:13:31 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 6:57:04 PM	26054
Surr: BFB	96.2	80-120		%Rec	1	6/27/2016 6:57:04 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2016 6:57:04 PM	26054
Toluene	ND	0.047		mg/Kg	1	6/27/2016 6:57:04 PM	26054
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 6:57:04 PM	26054
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2016 6:57:04 PM	26054
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	6/27/2016 6:57:04 PM	26054

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-3
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:10:00 AM
Lab ID: 1606D44-003
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 10:50:34 AM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/27/2016 9:35:16 PM	25992
Surr: DNOP	97.0	70-130		%Rec	1	6/27/2016 9:35:16 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 7:20:31 PM	26054
Surr: BFB	97.9	80-120		%Rec	1	6/27/2016 7:20:31 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2016 7:20:31 PM	26054
Toluene	ND	0.047		mg/Kg	1	6/27/2016 7:20:31 PM	26054
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 7:20:31 PM	26054
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2016 7:20:31 PM	26054
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	6/27/2016 7:20:31 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-4
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:20:00 AM
Lab ID: 1606D44-004
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 11:52:37 AM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/27/2016 9:57:18 PM	25992
Surr: DNOP	97.4	70-130		%Rec	1	6/27/2016 9:57:18 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 7:43:59 PM	26054
Surr: BFB	97.2	80-120		%Rec	1	6/27/2016 7:43:59 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 7:43:59 PM	26054
Toluene	ND	0.047		mg/Kg	1	6/27/2016 7:43:59 PM	26054
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 7:43:59 PM	26054
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2016 7:43:59 PM	26054
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	6/27/2016 7:43:59 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-5
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:30:00 AM
Lab ID: 1606D44-005
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 12:05:01 PM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/27/2016 10:19:06 PM	25992
Surr: DNOP	95.6	70-130		%Rec	1	6/27/2016 10:19:06 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2016 8:07:26 PM	26054
Surr: BFB	98.5	80-120		%Rec	1	6/27/2016 8:07:26 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 8:07:26 PM	26054
Toluene	ND	0.049		mg/Kg	1	6/27/2016 8:07:26 PM	26054
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2016 8:07:26 PM	26054
Xylenes, Total	ND	0.097		mg/Kg	1	6/27/2016 8:07:26 PM	26054
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	6/27/2016 8:07:26 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-6
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:40:00 AM
Lab ID: 1606D44-006
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 12:17:25 PM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/27/2016 10:41:03 PM	25992
Surr: DNOP	96.2	70-130		%Rec	1	6/27/2016 10:41:03 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2016 8:30:50 PM	26054
Surr: BFB	98.0	80-120		%Rec	1	6/27/2016 8:30:50 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2016 8:30:50 PM	26054
Toluene	ND	0.047		mg/Kg	1	6/27/2016 8:30:50 PM	26054
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2016 8:30:50 PM	26054
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2016 8:30:50 PM	26054
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	6/27/2016 8:30:50 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-7
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 10:50:00 AM
Lab ID: 1606D44-007
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 12:29:50 PM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/27/2016 11:02:50 PM	25992
Surr: DNOP	95.9	70-130		%Rec	1	6/27/2016 11:02:50 PM	25992
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2016 8:54:23 PM	26054
Surr: BFB	98.3	80-120		%Rec	1	6/27/2016 8:54:23 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2016 8:54:23 PM	26054
Toluene	ND	0.046		mg/Kg	1	6/27/2016 8:54:23 PM	26054
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2016 8:54:23 PM	26054
Xylenes, Total	ND	0.092		mg/Kg	1	6/27/2016 8:54:23 PM	26054
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	6/27/2016 8:54:23 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: RP-8
Project: Trunk MD 16" Hydro
Collection Date: 6/23/2016 11:30:00 AM
Lab ID: 1606D44-008
Matrix: SOIL
Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/29/2016 12:42:15 PM	26161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/27/2016 2:20:27 PM	26058
Surr: DNOP	77.9	70-130		%Rec	1	6/27/2016 2:20:27 PM	26058
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2016 9:17:52 PM	26054
Surr: BFB	97.9	80-120		%Rec	1	6/27/2016 9:17:52 PM	26054
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/27/2016 9:17:52 PM	26054
Toluene	ND	0.049		mg/Kg	1	6/27/2016 9:17:52 PM	26054
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2016 9:17:52 PM	26054
Xylenes, Total	ND	0.098		mg/Kg	1	6/27/2016 9:17:52 PM	26054
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	6/27/2016 9:17:52 PM	26054

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606D44**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26092**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26092**		RunNo:	**35241**				
Prep Date:	**6/27/2016**	Analysis Date:	**6/27/2016**		SeqNo:	**1089804**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26092**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26092**		RunNo:	**35241**				
Prep Date:	**6/27/2016**	Analysis Date:	**6/27/2016**		SeqNo:	**1089805**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID	**MB-26161**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26161**		RunNo:	**35326**				
Prep Date:	**6/30/2016**	Analysis Date:	**6/29/2016**		SeqNo:	**1092908**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26161**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26161**		RunNo:	**35326**				
Prep Date:	**6/30/2016**	Analysis Date:	**6/29/2016**		SeqNo:	**1092909**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606D44**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **LCS-26058**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26058**	RunNo: **35221**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089122** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.4	62.6	124			
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID **MB-26058**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26058**	RunNo: **35221**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		95.6	70	130			

Sample ID **MB-25992**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089257** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.9		10.00		88.6	70	130			

Sample ID **LCS-25992**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25992**	RunNo: **35221**
Prep Date: **6/22/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089274** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	62.6	124			
Surr: DNOP	4.8		5.000		96.6	70	130			

Sample ID **1606D44-008AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **RP-8**	Batch ID: **26058**	RunNo: **35220**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.5	47.53	0	74.5	33.9	141			
Surr: DNOP	3.7		4.753		77.1	70	130			

Sample ID **1606D44-008AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **RP-8**	Batch ID: **26058**	RunNo: **35220**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1090134** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606D44**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**1606D44-008AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**RP-8**	Batch ID:	**26058**		RunNo:	**35220**				
Prep Date:	**6/24/2016**	Analysis Date:	**6/27/2016**		SeqNo:	**1090134**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.5	47.26	0	75.4	33.9	141	0.651	20	
Surr: DNOP	3.8		4.726		80.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606D44**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26054**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26054**	RunNo: **35243**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089910** 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	980		1000		97.6	80	120			

Sample ID **LCS-26054**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26054**	RunNo: **35243**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089911** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	80	120			
Surr: BFB	1100		1000		109	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606D44**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26054**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26054**	RunNo: **35243**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089938** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	80	120			

Sample ID **LCS-26054**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26054**	RunNo: **35243**
Prep Date: **6/24/2016**	Analysis Date: **6/27/2016**	SeqNo: **1089939** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.2	75.3	123			
Toluene	0.99	0.050	1.000	0	99.5	80	124			
Ethylbenzene	1.0	0.050	1.000	0	102	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	99.7	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC | Work Order Number: 1606D44 | RcptNo: 1

Received by/date: AT 06/24/16

Logged By: Anne Thorne 6/24/2016 7:47:00 AM Anne Thorne

Completed By: Anne Thorne 6/24/2016 Anne Thorne

Reviewed By: JA 06/24/16

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	2.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall Environmental

Address: ABQ, NM

Contact: A. Fremur

Phone:

PO/SO #:

Sampler's Name: Rance Deechilly

Sampler's Signature:

Proj No.

Project Name: Trunk MD 16" Hydro

No/Type of Containers

Lab use only
Due Date: 2-7

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

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	8021 BTEX	8015 TPH GRO/DRO	Chlorides	Lab Sample ID (Lab Use Only)
S	6/23/16	950			RP-1						1		X	X	X	1606D44-001
S		1000			RP-2						1		X	X	X	-002
S		1010			RP-3						1		X	X	X	-003
S		1020			RP-4						1		X	X	X	-004
S		1030			RP-5						1		X	X	X	-005
S		1040			RP-6						1		X	X	X	-006
S		1050			RP-7						1		X	X	X	-007
S	↓	1130			RP-8						1		X	X	X	-008

NFS

Turn around time: [X] Normal [ ] 25% Rush [ ] 50% Rush [ ] 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	6/23/16	1442		6/23/16	1442
	6/23/16	1844		06/24/16	0747

NOTES:

Bill to Tom Long EPROD

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 14, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1607041

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/30/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1607041-001 **Matrix:** SOIL

Client Sample ID: WP-6
Collection Date: 6/29/2016 7:50:00 AM
Received Date: 6/30/2016 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/8/2016 5:56:39 PM	26308
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/6/2016 1:06:57 PM	26224
Surr: DNOP	94.6	70-130		%Rec	1	7/6/2016 1:06:57 PM	26224
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/5/2016 1:20:58 PM	26197
Surr: BFB	97.8	80-120		%Rec	1	7/5/2016 1:20:58 PM	26197
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/5/2016 1:20:58 PM	26197
Toluene	ND	0.048		mg/Kg	1	7/5/2016 1:20:58 PM	26197
Ethylbenzene	ND	0.048		mg/Kg	1	7/5/2016 1:20:58 PM	26197
Xylenes, Total	ND	0.096		mg/Kg	1	7/5/2016 1:20:58 PM	26197
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	1	7/5/2016 1:20:58 PM	26197

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607041**

14-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26308**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**26308**	RunNo:	**35546**					
Prep Date:	**7/8/2016**	Analysis Date:	**7/8/2016**	SeqNo:	**1100588**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26308**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**26308**	RunNo:	**35546**					
Prep Date:	**7/8/2016**	Analysis Date:	**7/8/2016**	SeqNo:	**1100589**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607041**

14-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26224**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26224**	RunNo: **35437**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1096560** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		94.6	70	130			

Sample ID **LCS-26224**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26224**	RunNo: **35437**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1096561** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.7	62.6	124			
Surr: DNOP	4.1		5.000		82.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607041**

14-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26197**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26197**	RunNo: **35429**
Prep Date: **7/1/2016**	Analysis Date: **7/5/2016**	SeqNo: **1096243** 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	960		1000		95.8	80	120			

Sample ID **LCS-26197**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26197**	RunNo: **35429**
Prep Date: **7/1/2016**	Analysis Date: **7/5/2016**	SeqNo: **1096244** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	1100		1000		107	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607041**

14-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26197**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26197**	RunNo: **35429**
Prep Date: **7/1/2016**	Analysis Date: **7/5/2016**	SeqNo: **1096264** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	80	120			

Sample ID **LCS-26197**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26197**	RunNo: **35429**
Prep Date: **7/1/2016**	Analysis Date: **7/5/2016**	SeqNo: **1096265** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	75.3	123			
Toluene	0.93	0.050	1.000	0	92.7	80	124			
Ethylbenzene	0.96	0.050	1.000	0	96.3	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	94.4	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC | Work Order Number: 1607041 | RcptNo: 1

Received by/date: [illegible] 06/30/16

Logged By: Lindsay Mangin 6/30/2016 8:05:00 AM [signature]

Completed By: Lindsay Mangin 7/1/2016 12:36:12 PM [signature]

Reviewed By: aJ 7/1/16

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K Summers

Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.1

1	2	3	4	5

Page 1 of 1

Sampler's Name: Ranee Deechilly

Sampler's Signature: R Deechilly

Proj. No.

Project Name: Trunk MD 16" Hydro

Matrix	Date	Time	Composite	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 LL	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED: 8021 BTEX	8015 TPH GRO/DRO	Chlorides	Lab Sample ID (Lab Use Only)
S	6/29/16	0750			WP-6						1		X	X	X	1607041-001

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Ranee Deechilly	6/29/16	1254	[illegible]	6/29/16	1254
Matt Wactor	6/29/16	1851	[illegible]	06/30/16	0805

NOTES:

Bill to Tom Long EPROD

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1606F25

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/28/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606F25**
Date Reported: **7/6/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: WP-1
Project: Trunk MD 16" Hydro
Collection Date: 6/27/2016 11:40:00 AM
Lab ID: 1606F25-001
Matrix: SOIL
Received Date: 6/28/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/1/2016 2:41:18 PM	26203
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/30/2016 10:20:04 AM	26153
Surr: DNOP	90.5	70-130		%Rec	1	6/30/2016 10:20:04 AM	26153
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2016 9:07:51 PM	26117
Surr: BFB	98.1	80-120		%Rec	1	6/29/2016 9:07:51 PM	26117
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2016 9:07:51 PM	26117
Toluene	ND	0.049		mg/Kg	1	6/29/2016 9:07:51 PM	26117
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2016 9:07:51 PM	26117
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2016 9:07:51 PM	26117
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	6/29/2016 9:07:51 PM	26117

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1606F25-002 **Matrix:** SOIL

Client Sample ID: WP-2
Collection Date: 6/27/2016 11:50:00 AM
Received Date: 6/28/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/1/2016 3:18:32 PM	26203
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/30/2016 11:49:23 AM	26153
Surr: DNOP	90.3	70-130		%Rec	1	6/30/2016 11:49:23 AM	26153
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2016 9:31:24 PM	26117
Surr: BFB	98.7	80-120		%Rec	1	6/29/2016 9:31:24 PM	26117
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2016 9:31:24 PM	26117
Toluene	ND	0.049		mg/Kg	1	6/29/2016 9:31:24 PM	26117
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2016 9:31:24 PM	26117
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2016 9:31:24 PM	26117
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	6/29/2016 9:31:24 PM	26117

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: WP-3
Project: Trunk MD 16" Hydro
Collection Date: 6/27/2016 12:00:00 PM
Lab ID: 1606F25-003
Matrix: SOIL
Received Date: 6/28/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/1/2016 3:30:57 PM	26203
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/30/2016 12:11:14 PM	26153
Surr: DNOP	97.6	70-130		%Rec	1	6/30/2016 12:11:14 PM	26153
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2016 9:54:56 PM	26117
Surr: BFB	99.0	80-120		%Rec	1	6/29/2016 9:54:56 PM	26117
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2016 9:54:56 PM	26117
Toluene	ND	0.050		mg/Kg	1	6/29/2016 9:54:56 PM	26117
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2016 9:54:56 PM	26117
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2016 9:54:56 PM	26117
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	6/29/2016 9:54:56 PM	26117

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: WP-4
Project: Trunk MD 16" Hydro
Collection Date: 6/27/2016 12:10:00 PM
Lab ID: 1606F25-004
Matrix: SOIL
Received Date: 6/28/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/1/2016 3:43:21 PM	26203
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/30/2016 12:33:00 PM	26153
Surr: DNOP	90.3	70-130		%Rec	1	6/30/2016 12:33:00 PM	26153
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/29/2016 10:18:25 PM	26117
Surr: BFB	101	80-120		%Rec	1	6/29/2016 10:18:25 PM	26117
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2016 10:18:25 PM	26117
Toluene	ND	0.049		mg/Kg	1	6/29/2016 10:18:25 PM	26117
Ethylbenzene	ND	0.049		mg/Kg	1	6/29/2016 10:18:25 PM	26117
Xylenes, Total	ND	0.098		mg/Kg	1	6/29/2016 10:18:25 PM	26117
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	6/29/2016 10:18:25 PM	26117

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1606F25-005 **Matrix:** SOIL

Client Sample ID: WP-5
Collection Date: 6/27/2016 12:20:00 PM
Received Date: 6/28/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/1/2016 3:55:46 PM	26203
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/30/2016 12:55:02 PM	26153
Surr: DNOP	88.2	70-130		%Rec	1	6/30/2016 12:55:02 PM	26153
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2016 10:41:55 PM	26117
Surr: BFB	97.8	80-120		%Rec	1	6/29/2016 10:41:55 PM	26117
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2016 10:41:55 PM	26117
Toluene	ND	0.050		mg/Kg	1	6/29/2016 10:41:55 PM	26117
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2016 10:41:55 PM	26117
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2016 10:41:55 PM	26117
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	6/29/2016 10:41:55 PM	26117

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606F25**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26203**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26203**		RunNo:	**35411**				
Prep Date:	**7/1/2016**	Analysis Date:	**7/1/2016**		SeqNo:	**1095690**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26203**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26203**		RunNo:	**35411**				
Prep Date:	**7/1/2016**	Analysis Date:	**7/1/2016**		SeqNo:	**1095691**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606F25**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **LCS-26153**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26153**	RunNo: **35335**
Prep Date: **6/29/2016**	Analysis Date: **6/30/2016**	SeqNo: **1093643** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	62.6	124			
Surr: DNOP	4.6		5.000		91.0	70	130			

Sample ID **MB-26153**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26153**	RunNo: **35335**
Prep Date: **6/29/2016**	Analysis Date: **6/30/2016**	SeqNo: **1093644** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.6		10.00		86.4	70	130			

Sample ID **1606F25-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **WP-1**	Batch ID: **26153**	RunNo: **35334**
Prep Date: **6/29/2016**	Analysis Date: **6/30/2016**	SeqNo: **1094441** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.6	48.03	2.386	84.6	33.9	141			
Surr: DNOP	4.2		4.803		86.6	70	130			

Sample ID **1606F25-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **WP-1**	Batch ID: **26153**	RunNo: **35334**
Prep Date: **6/29/2016**	Analysis Date: **6/30/2016**	SeqNo: **1094442** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.56	2.386	87.0	33.9	141	7.55	20	
Surr: DNOP	4.6		5.056		91.5	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606F25**

06-Jul-16

C : APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26117**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26117**	RunNo: **35307**
Prep Date: **6/28/2016**	Analysis Date: **6/29/2016**	SeqNo: **1092208** 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	990		1000		99.3	80	120			

Sample ID **LCS-26117**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26117**	RunNo: **35307**
Prep Date: **6/28/2016**	Analysis Date: **6/29/2016**	SeqNo: **1092209** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	80	120			
Surr: BFB	1100		1000		111	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606F25**

06-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26117**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26117**	RunNo: **35307**
Prep Date: **6/28/2016**	Analysis Date: **6/29/2016**	SeqNo: **1092238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	80	120			

Sample ID **LCS-26117**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26117**	RunNo: **35307**
Prep Date: **6/28/2016**	Analysis Date: **6/29/2016**	SeqNo: **1092239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	75.3	123			
Toluene	0.97	0.050	1.000	0	96.9	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.4	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	98.4	83.9	122			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC Work Order Number: 1606F25 RcptNo: 1

Received by/date: 06/28/16

Logged By: Ashley Gallegos 6/28/2016 8:00:00 AM

Completed By: Ashley Gallegos 6/28/2016 11:51:34 AM

Reviewed By: 06/28/16

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?	Client		

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.8

1 | 2 | 3 | 4 | 5

Page 1 of 1

Sampler's Name: Ranee Deechilly

Sampler's Signature: R Deechilly

Proj. No.

Project Name: Trunk MD 16" Hydro

No/Type of Containers

ANALYSIS REQUESTED: 8021 BTEX; 8015 TPH GRO/DRO; Chlorides

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	6/27/16	1140			WP-1						1		1606F85-001
S		1150			WP-2						1		-002
S		1200			WP-3						1		-003
S		1210			WP-4						1		-004
S		1220			WP-5						1		-005

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
R Deechilly	6/27/16	1540	Brett Walters	6/27/16	1540
Kristine Walters	6/27/16	1910		06/28/16	0800
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Tom Long EPROI

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 13, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: MD16 Hydro 5 OrderNo.: 1607083

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/2/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: MD16 Hydro 5
Lab ID: 1607083-001 **Matrix:** SOIL

Client Sample ID: DP-1
Collection Date: 7/1/2016 8:45:00 AM
Received Date: 7/2/2016 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 9:52:16 PM	26315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/7/2016 2:21:40 PM	26260
Surr: DNOP	85.4	70-130		%Rec	1	7/7/2016 2:21:40 PM	26260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/6/2016 1:28:52 PM	26229
Surr: BFB	99.3	80-120		%Rec	1	7/6/2016 1:28:52 PM	26229
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/6/2016 1:28:52 PM	26229
Toluene	ND	0.046		mg/Kg	1	7/6/2016 1:28:52 PM	26229
Ethylbenzene	ND	0.046		mg/Kg	1	7/6/2016 1:28:52 PM	26229
Xylenes, Total	ND	0.092		mg/Kg	1	7/6/2016 1:28:52 PM	26229
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	7/6/2016 1:28:52 PM	26229

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: MD16 Hydro 5
Lab ID: 1607083-002
Matrix: SOIL
Client Sample ID: DP-2
Collection Date: 7/1/2016 8:50:00 AM
Received Date: 7/2/2016 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 10:04:40 PM	26315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/7/2016 2:43:48 PM	26260
Surr: DNOP	87.6	70-130		%Rec	1	7/7/2016 2:43:48 PM	26260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2016 5:01:06 PM	26229
Surr: BFB	101	80-120		%Rec	1	7/6/2016 5:01:06 PM	26229
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/6/2016 5:01:06 PM	26229
Toluene	ND	0.047		mg/Kg	1	7/6/2016 5:01:06 PM	26229
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2016 5:01:06 PM	26229
Xylenes, Total	ND	0.093		mg/Kg	1	7/6/2016 5:01:06 PM	26229
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	7/6/2016 5:01:06 PM	26229

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: DP-3
Project: MD16 Hydro 5
Collection Date: 7/1/2016 9:00:00 AM
Lab ID: 1607083-003
Matrix: SOIL
Received Date: 7/2/2016 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 10:17:05 PM	26315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/7/2016 3:05:41 PM	26260
Surr: DNOP	93.6	70-130		%Rec	1	7/7/2016 3:05:41 PM	26260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2016 5:24:40 PM	26229
Surr: BFB	99.3	80-120		%Rec	1	7/6/2016 5:24:40 PM	26229
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/6/2016 5:24:40 PM	26229
Toluene	ND	0.049		mg/Kg	1	7/6/2016 5:24:40 PM	26229
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2016 5:24:40 PM	26229
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2016 5:24:40 PM	26229
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	7/6/2016 5:24:40 PM	26229

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: MD16 Hydro 5
Lab ID: 1607083-004 **Matrix:** SOIL

Client Sample ID: DP-4
Collection Date: 7/1/2016 9:10:00 AM
Received Date: 7/2/2016 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 10:54:19 PM	26315
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/7/2016 3:27:48 PM	26260
Surr: DNOP	88.1	70-130		%Rec	1	7/7/2016 3:27:48 PM	26260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/6/2016 5:48:15 PM	26229
Surr: BFB	101	80-120		%Rec	1	7/6/2016 5:48:15 PM	26229
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/6/2016 5:48:15 PM	26229
Toluene	ND	0.047		mg/Kg	1	7/6/2016 5:48:15 PM	26229
Ethylbenzene	ND	0.047		mg/Kg	1	7/6/2016 5:48:15 PM	26229
Xylenes, Total	ND	0.094		mg/Kg	1	7/6/2016 5:48:15 PM	26229
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	7/6/2016 5:48:15 PM	26229

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607083**

13-Jul-16

Client: APEX TITAN
Project: MD16 Hydro 5

Sample ID	**MB-26315**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26315**		RunNo:	**35578**				
Prep Date:	**7/8/2016**	Analysis Date:	**7/11/2016**		SeqNo:	**1101772**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26315**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26315**		RunNo:	**35578**				
Prep Date:	**7/8/2016**	Analysis Date:	**7/11/2016**		SeqNo:	**1101773**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607083**

13-Jul-16

Client: APEX TITAN

Project: MD16 Hydro 5

Sample ID **MB-26260**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26260**	RunNo: **35477**
Prep Date: **7/6/2016**	Analysis Date: **7/7/2016**	SeqNo: **1098295** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		91.4	70	130			

Sample ID **LCS-26260**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26260**	RunNo: **35477**
Prep Date: **7/6/2016**	Analysis Date: **7/7/2016**	SeqNo: **1098315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.6	62.6	124			
Surr: DNOP	4.4		5.000		87.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607083**

13-Jul-16

Client: APEX TITAN

Project: MD16 Hydro 5

Sample ID **MB-26229**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26229**	RunNo: **35443**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1097615** 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	960		1000		95.5	80	120			

Sample ID **LCS-26229**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26229**	RunNo: **35443**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1097616** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	1100		1000		108	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607083**

13-Jul-16

Client: APEX TITAN

Project: MD16 Hydro 5

Sample ID **MB-26229**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26229**	RunNo: **35443**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1097633** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			

Sample ID **LCS-26229**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26229**	RunNo: **35443**
Prep Date: **7/5/2016**	Analysis Date: **7/6/2016**	SeqNo: **1097635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	75.3	123			
Toluene	0.97	0.050	1.000	0	96.9	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.4	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	99.2	83.9	122			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **APEX AZTEC** Work Order Number: **1607083** RcptNo: **1**

Received by/date: LM 07/02/16

Logged By: **Joe Archuleta** 7/2/2016 10:15:00 AM JA

Completed By: **Joe Archuleta** 7/5/2016 8:51:58 AM JA

Reviewed By: aJ 7/5/16

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	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, N.M

Project Manager: K. Sommers

Laboratory: Hall Env

Address: Albq N.M

Contact: A Pierman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 2.3

1 | 2 | 3 | 4 | 5

Page 1 of 1

Sampler's Name: Chad D'Aponti

Sampler's Signature:

Proj. No.: 725040112171

Project Name: MD16 Hydro #5

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021 | TPH DRO/GRO 8015 | Chlorides

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	7/1/16	8:45			DP-1						1		1607083 -001
S	7/1/16	8:50			DP-2						1		-002
S	7/1/16	9:00			DP-3						1		-003
S	7/1/16	9:10			DP-4						1		-004

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7-1-16	1260	Mista Waete	7/1/16	1700
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/1/16	1624		07/02/16	1015
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Tom Long

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 18, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1607307

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/6/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607307**
Date Reported: **7/18/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: XP-1
Project: Trunk MD 16" Hydro
Collection Date: 7/5/2016 2:30:00 PM
Lab ID: 1607307-001 **Matrix:** SOIL **Received Date:** 7/6/2016 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 3:52:20 PM	26328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	25	9.3		mg/Kg	1	7/11/2016 1:06:02 PM	26309
Surr: DNOP	100	70-130		%Rec	1	7/11/2016 1:06:02 PM	26309
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2016 8:46:15 PM	26286
Surr: BFB	99.8	80-120		%Rec	1	7/8/2016 8:46:15 PM	26286
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/8/2016 8:46:15 PM	26286
Toluene	ND	0.048		mg/Kg	1	7/8/2016 8:46:15 PM	26286
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2016 8:46:15 PM	26286
Xylenes, Total	ND	0.096		mg/Kg	1	7/8/2016 8:46:15 PM	26286
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	7/8/2016 8:46:15 PM	26286

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: XP-2
Project: Trunk MD 16" Hydro
Collection Date: 7/5/2016 2:40:00 PM
Lab ID: 1607307-002
Matrix: SOIL
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 4:04:45 PM	26328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/11/2016 2:34:49 PM	26309
Surr: DNOP	95.1	70-130		%Rec	1	7/11/2016 2:34:49 PM	26309
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2016 9:09:42 PM	26286
Surr: BFB	104	80-120		%Rec	1	7/8/2016 9:09:42 PM	26286
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/8/2016 9:09:42 PM	26286
Toluene	ND	0.047		mg/Kg	1	7/8/2016 9:09:42 PM	26286
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2016 9:09:42 PM	26286
Xylenes, Total	ND	0.094		mg/Kg	1	7/8/2016 9:09:42 PM	26286
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	7/8/2016 9:09:42 PM	26286

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: XP-3
Project: Trunk MD 16" Hydro
Collection Date: 7/5/2016 2:50:00 PM
Lab ID: 1607307-003
Matrix: SOIL
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 4:17:10 PM	26328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/11/2016 2:57:03 PM	26309
Surr: DNOP	94.4	70-130		%Rec	1	7/11/2016 2:57:03 PM	26309
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2016 9:33:03 PM	26286
Surr: BFB	101	80-120		%Rec	1	7/8/2016 9:33:03 PM	26286
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/8/2016 9:33:03 PM	26286
Toluene	ND	0.047		mg/Kg	1	7/8/2016 9:33:03 PM	26286
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2016 9:33:03 PM	26286
Xylenes, Total	ND	0.094		mg/Kg	1	7/8/2016 9:33:03 PM	26286
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	7/8/2016 9:33:03 PM	26286

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: XP-4
Project: Trunk MD 16" Hydro
Collection Date: 7/5/2016 3:00:00 PM
Lab ID: 1607307-004
Matrix: SOIL
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	7/11/2016 4:29:35 PM	26328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/11/2016 3:19:27 PM	26309
Surr: DNOP	85.7	70-130		%Rec	1	7/11/2016 3:19:27 PM	26309
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2016 9:56:28 PM	26286
Surr: BFB	99.2	80-120		%Rec	1	7/8/2016 9:56:28 PM	26286
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/8/2016 9:56:28 PM	26286
Toluene	ND	0.048		mg/Kg	1	7/8/2016 9:56:28 PM	26286
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2016 9:56:28 PM	26286
Xylenes, Total	ND	0.096		mg/Kg	1	7/8/2016 9:56:28 PM	26286
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	7/8/2016 9:56:28 PM	26286

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607307**

18-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26328**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26328**		RunNo:	**35578**				
Prep Date:	**7/11/2016**	Analysis Date:	**7/11/2016**		SeqNo:	**1101743**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26328**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26328**		RunNo:	**35578**				
Prep Date:	**7/11/2016**	Analysis Date:	**7/11/2016**		SeqNo:	**1101744**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607307**

18-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **LCS-26309**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26309**	RunNo: **35548**
Prep Date: **7/8/2016**	Analysis Date: **7/11/2016**	SeqNo: **1100969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	38	10	50.00	0	75.6	62.6	124			
Surr: DNOP	4.1		5.000		81.5	70	130			

Sample ID **MB-26309**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26309**	RunNo: **35548**
Prep Date: **7/8/2016**	Analysis Date: **7/11/2016**	SeqNo: **1100970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.5		10.00		84.8	70	130			

Sample ID **1607307-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **XP-1**	Batch ID: **26309**	RunNo: **35548**
Prep Date: **7/8/2016**	Analysis Date: **7/11/2016**	SeqNo: **1101096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Range Organics (DRO)	100	10	50.81	0	203	33.9	141			S
Surr: DNOP	4.7		5.081		92.5	70	130			

Sample ID **1607307-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **XP-1**	Batch ID: **26309**	RunNo: **35548**
Prep Date: **7/8/2016**	Analysis Date: **7/11/2016**	SeqNo: **1101097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	9.5	47.26	0	247	33.9	141	12.0	20	S
Surr: DNOP	4.2		4.726		89.1	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607307**

18-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26286**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26286**	RunNo: **35527**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1100342** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	80	120			

Sample ID **LCS-26286**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26286**	RunNo: **35527**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1100343** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1100		1000		112	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607307**

18-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26286**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26286**	RunNo: **35527**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1100371** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Sample ID **LCS-26286**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26286**	RunNo: **35527**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1100372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.6	75.3	123			
Toluene	0.96	0.050	1.000	0	95.8	80	124			
Ethylbenzene	0.98	0.050	1.000	0	98.3	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	97.6	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: APEX AZTEC Work Order Number 1607307 RcptNo 1

Received by/date: AT 07/06/16

Logged By: Lindsay Mangin 7/6/2016 7:35:00 AM

Completed By: Lindsay Mangin 7/7/2016 1:15:37 PM

Reviewed By: JA 07/07/16

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

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date: 1.0

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

Page 1 of 1

Sampler's Name: Ranee Deechilly

Sampler's Signature: Ranee Deechilly

Proj. No.

Project Name: Trunk M 16" Hydro

No/Type of Containers

ANALYSIS REQUESTED: 8021 BTEX; 8015 TPH GRO/DRO; Chlorides

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	7/5/16	1430			XP-1						1		1607307-001
S		1440			XP-2						1		-002
S		1450			XP-3						1		-003
S		1500			XP-4						1		-004

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Ranee Deechilly	7/5/16	1740	Christine Walls	7/5/16	1740
Christine Walls	7/5/16	1846	[illegible]	07/06/16	0735

NOTES: Bill to Tom Long EPROD

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 20, 2016

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

RE: Trunk MD 16 Inch OrderNo.: 1607128

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/6/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 13, 2016.

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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607128**
Date Reported: **8/20/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1607128-001 **Matrix:** AQUEOUS

Client Sample ID: Rupture #6
Collection Date: 7/5/2016 11:30:00 AM
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: **LGT**	
Fluoride	0.35	0.14	0.50	J	mg/L	5	7/6/2016 5:20:12 PM	A35474
Chloride	37	0.14	2.5		mg/L	5	7/6/2016 5:20:12 PM	A35474
Nitrogen, Nitrite (As N)	ND	0.26	0.50		mg/L	5	7/6/2016 5:20:12 PM	A35474
Bromide	0.93	0.22	0.50		mg/L	5	7/6/2016 5:20:12 PM	A35474
Nitrogen, Nitrate (As N)	0.32	0.20	0.50	J	mg/L	5	7/6/2016 5:20:12 PM	A35474
Phosphorus, Orthophosphate (As P)	ND	1.1	2.5		mg/L	5	7/6/2016 5:20:12 PM	A35474
Sulfate	54	0.71	2.5		mg/L	5	7/6/2016 5:20:12 PM	A35474
EPA METHOD 7470: MERCURY							Analyst: **pmf**	
Mercury	0.00019	0.000053	0.00020	J	mg/L	1	7/8/2016 1:56:42 PM	26294
EPA 6010B: TOTAL RECOVERABLE METALS							Analyst: **MED**	
Arsenic	0.011	0.0082	0.020	J	mg/L	1	7/8/2016 11:39:42 AM	26285
Barium	0.25	0.00070	0.020		mg/L	1	7/8/2016 11:39:42 AM	26285
Cadmium	ND	0.00078	0.0020		mg/L	1	7/8/2016 11:39:42 AM	26285
Calcium	44	0.066	1.0		mg/L	1	7/8/2016 11:39:42 AM	26285
Chromium	0.0047	0.0012	0.0060	J	mg/L	1	7/8/2016 11:39:42 AM	26285
Lead	ND	0.0041	0.0050		mg/L	1	7/8/2016 11:39:42 AM	26285
Magnesium	7.8	0.020	1.0		mg/L	1	7/8/2016 11:39:42 AM	26285
Potassium	19	0.12	1.0		mg/L	1	7/8/2016 11:39:42 AM	26285
Selenium	ND	0.025	0.050		mg/L	1	7/8/2016 11:39:42 AM	26285
Silver	ND	0.00072	0.0050		mg/L	1	7/8/2016 11:39:42 AM	26285
Sodium	18	0.21	1.0		mg/L	1	7/8/2016 11:39:42 AM	26285
EPA METHOD 8260B: VOLATILES							Analyst: **DJF**	
Benzene	ND	19	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Toluene	ND	24	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Ethylbenzene	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Methyl tert-butyl ether (MTBE)	ND	42	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2,4-Trimethylbenzene	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,3,5-Trimethylbenzene	ND	23	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2-Dichloroethane (EDC)	ND	23	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2-Dibromoethane (EDB)	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Naphthalene	ND	19	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
1-Methylnaphthalene	ND	41	800		µg/L	200	7/6/2016 11:14:45 PM	A35447
2-Methylnaphthalene	ND	32	800		µg/L	200	7/6/2016 11:14:45 PM	A35447
Acetone	ND	980	2000		µg/L	200	7/6/2016 11:14:45 PM	A35447
Bromobenzene	ND	20	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Bromodichloromethane	ND	28	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Bromoform	ND	20	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Bromomethane	ND	160	600		µg/L	200	7/6/2016 11:14:45 PM	A35447

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Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1607128-001 **Matrix:** AQUEOUS

Client Sample ID: Rupture #6
Collection Date: 7/5/2016 11:30:00 AM
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **DJF**	
2-Butanone	ND	150	2000		µg/L	200	7/6/2016 11:14:45 PM	A35447
Carbon disulfide	ND	120	2000		µg/L	200	7/6/2016 11:14:45 PM	A35447
Carbon Tetrachloride	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Chlorobenzene	ND	23	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Chloroethane	ND	38	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
Chloroform	85	18	200	J	µg/L	200	7/6/2016 11:14:45 PM	A35447
Chloromethane	ND	43	600		µg/L	200	7/6/2016 11:14:45 PM	A35447
2-Chlorotoluene	ND	80	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
4-Chlorotoluene	ND	26	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
cis-1,2-DCE	ND	25	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
cis-1,3-Dichloropropene	ND	21	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2-Dibromo-3-chloropropane	ND	47	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
Dibromochloromethane	ND	17	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Dibromomethane	ND	24	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2-Dichlorobenzene	ND	80	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,3-Dichlorobenzene	ND	29	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,4-Dichlorobenzene	ND	29	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Dichlorodifluoromethane	ND	71	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1-Dichloroethane	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1-Dichloroethene	ND	21	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2-Dichloropropane	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,3-Dichloropropane	ND	31	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
2,2-Dichloropropane	ND	33	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1-Dichloropropene	ND	27	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Hexachlorobutadiene	ND	40	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
2-Hexanone	ND	170	2000		µg/L	200	7/6/2016 11:14:45 PM	A35447
Isopropylbenzene	ND	21	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
4-Isopropyltoluene	ND	28	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
4-Methyl-2-pentanone	ND	86	2000		µg/L	200	7/6/2016 11:14:45 PM	A35447
Methylene Chloride	ND	37	600		µg/L	200	7/6/2016 11:14:45 PM	A35447
n-Butylbenzene	ND	32	600		µg/L	200	7/6/2016 11:14:45 PM	A35447
n-Propylbenzene	ND	26	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
sec-Butylbenzene	ND	25	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Styrene	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
tert-Butylbenzene	ND	23	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1,1,2-Tetrachloroethane	ND	22	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1,2,2-Tetrachloroethane	ND	26	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
Tetrachloroethene (PCE)	ND	30	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
trans-1,2-DCE	ND	80	200		µg/L	200	7/6/2016 11:14:45 PM	A35447

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services
Project: Trunk MD 16 Inch
Lab ID: 1607128-001 **Matrix:** AQUEOUS

Client Sample ID: Rupture #6
Collection Date: 7/5/2016 11:30:00 AM
Received Date: 7/6/2016 7:35:00 AM

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **DJF**	
trans-1,3-Dichloropropene	ND	21	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2,3-Trichlorobenzene	ND	23	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2,4-Trichlorobenzene	ND	27	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1,1-Trichloroethane	ND	18	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,1,2-Trichloroethane	ND	25	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Trichloroethene (TCE)	ND	35	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Trichlorofluoromethane	ND	41	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
1,2,3-Trichloropropane	ND	40	400		µg/L	200	7/6/2016 11:14:45 PM	A35447
Vinyl chloride	ND	39	200		µg/L	200	7/6/2016 11:14:45 PM	A35447
Xylenes, Total	ND	73	300		µg/L	200	7/6/2016 11:14:45 PM	A35447
Surr: 1,2-Dichloroethane-d4	97.7	0	70-130		%Rec	200	7/6/2016 11:14:45 PM	A35447
Surr: 4-Bromofluorobenzene	104	0	70-130		%Rec	200	7/6/2016 11:14:45 PM	A35447
Surr: Dibromofluoromethane	100	0	70-130		%Rec	200	7/6/2016 11:14:45 PM	A35447
Surr: Toluene-d8	96.1	0	70-130		%Rec	200	7/6/2016 11:14:45 PM	A35447

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

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A35474**	RunNo: **35474**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1098104** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A35474**	RunNo: **35474**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1098105** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	102	90	110			
Chloride	4.9	0.50	5.000	0	97.4	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	93.9	90	110			
Bromide	2.5	0.10	2.500	0	99.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	99.0	90	110			
Sulfate	9.9	0.50	10.00	0	99.3	90	110			

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1097715** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	0.28	1.0								J
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services
Project: Trunk MD 16 Inch

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1097715** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	0.50	10								J
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	10		10.00		99.5	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1097716** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.7	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	20	1.0	20.00	0	97.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services
Project: Trunk MD 16 Inch

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1097716** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	97.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Sample ID **1607128-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Rupture #6**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/6/2016**	SeqNo: **1097718** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4100	200	4000	0	102	70	130			
Toluene	4000	200	4000	0	101	70	130			
Chlorobenzene	3800	200	4000	0	95.9	70	130			
1,1-Dichloroethene	4200	200	4000	0	105	70	130			
Trichloroethene (TCE)	3900	200	4000	0	96.9	70	130			
Surr: 1,2-Dichloroethane-d4	1900		2000		96.3	70	130			
Surr: 4-Bromofluorobenzene	2100		2000		106	70	130			
Surr: Dibromofluoromethane	2000		2000		99.4	70	130			
Surr: Toluene-d8	2000		2000		99.1	70	130			

Sample ID **1607128-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Rupture #6**	Batch ID: **A35447**	RunNo: **35447**
Prep Date:	Analysis Date: **7/7/2016**	SeqNo: **1097719** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4000	200	4000	0	101	70	130	0.863	20	
Toluene	4000	200	4000	0	101	70	130	0.101	20	
Chlorobenzene	3800	200	4000	0	94.7	70	130	1.24	20	
1,1-Dichloroethene	4200	200	4000	0	106	70	130	0.576	20	
Trichloroethene (TCE)	3800	200	4000	0	96.0	70	130	0.938	20	
Surr: 1,2-Dichloroethane-d4	2000		2000		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	2000		2000		102	70	130	0	0	
Surr: Dibromofluoromethane	2100		2000		105	70	130	0	0	
Surr: Toluene-d8	2000		2000		99.9	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services
Project: Trunk MD 16 Inch

Sample ID	MB-26294	SampType:	MBLK	TestCode:	EPA Method 7470: Mercury				
Client ID:	PBW	Batch ID:	26294	RunNo:	35534				
Prep Date:	7/7/2016	Analysis Date:	7/8/2016	SeqNo:	1100169	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00013	0.00020								J

Sample ID	LCS-26294	SampType:	LCS	TestCode:	EPA Method 7470: Mercury				
Client ID:	LCSW	Batch ID:	26294	RunNo:	35534				
Prep Date:	7/7/2016	Analysis Date:	7/8/2016	SeqNo:	1100170	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	80	120			

Sample ID	1607128-001CMS	SampType:	MS	TestCode:	EPA Method 7470: Mercury				
Client ID:	Rupture #6	Batch ID:	26294	RunNo:	35534				
Prep Date:	7/7/2016	Analysis Date:	7/8/2016	SeqNo:	1100172	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0064	0.00020	0.005000	0.0001875	125	75	125			

Sample ID	1607128-001CMSD	SampType:	MSD	TestCode:	EPA Method 7470: Mercury				
Client ID:	Rupture #6	Batch ID:	26294	RunNo:	35534				
Prep Date:	7/7/2016	Analysis Date:	7/8/2016	SeqNo:	1100173	Units:	mg/L		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0061	0.00020	0.005000	0.0001875	119	75	125	4.68	20	

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

Sample ID **MB-26285**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **26285**	RunNo: **35523**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1099961** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
A c	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
I	ND	0.0050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Selenium	ND	0.050								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID **LCS-26285**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **26285**	RunNo: **35523**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1099962** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
A c	0.42	0.020	0.5000	0	84.9	80	120			
Barium	0.41	0.020	0.5000	0	82.6	80	120			
Cadmium	0.42	0.0020	0.5000	0	83.5	80	120			
Calcium	41	1.0	50.00	0	82.3	80	120			
Chromium	0.41	0.0060	0.5000	0	82.9	80	120			
I	0.41	0.0050	0.5000	0	82.5	80	120			
Magnesium	41	1.0	50.00	0	81.4	80	120			
Potassium	40	1.0	50.00	0	80.4	80	120			
Selenium	0.43	0.050	0.5000	0	86.2	80	120			
Silver	0.083	0.0050	0.1000	0	83.2	80	120			
Sodium	38	1.0	50.00	0	76.6	80	120			S

Sample ID **1607128-001CMS**	SampType: **MS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Rupture #6**	Batch ID: **26285**	RunNo: **35523**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1099983** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.46	0.020	0.5000	0.01055	90.8	75	125			
Barium	0.71	0.020	0.5000	0.2516	90.8	75	125			
Cadmium	0.45	0.0020	0.5000	0	90.4	75	125			
Calcium	90	1.0	50.00	44.00	91.5	75	125			
Chromium	0.46	0.0060	0.5000	0.004670	90.5	75	125			
I	0.45	0.0050	0.5000	0	90.1	75	125			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607128**

20-Aug-16

Client: Enterprise Field Services

Project: Trunk MD 16 Inch

ple ID **1607128-001CMS**	SampType: **MS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Rupture #6**	Batch ID: **26285**	RunNo: **35523**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1099983** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	53	1.0	50.00	7.794	90.2	75	125			
Potassium	64	1.0	50.00	19.09	89.4	75	125			
n	0.44	0.050	0.5000	0	88.6	75	125			
Silver	0.090	0.0050	0.1000	0	90.3	75	125			
Sodium	61	1.0	50.00	18.00	86.0	75	125			

Sample ID **1607128-001CMSD**	SampType: **MSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **Rupture #6**	Batch ID: **26285**	RunNo: **35523**
Prep Date: **7/7/2016**	Analysis Date: **7/8/2016**	SeqNo: **1099984** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
c	0.48	0.020	0.5000	0.01055	94.3	75	125	3.69	20	
Barium	0.73	0.020	0.5000	0.2516	95.1	75	125	3.06	20	
Cadmium	0.46	0.0020	0.5000	0	92.5	75	125	2.27	20	
Calcium	92	1.0	50.00	44.00	95.7	75	125	2.32	20	
Chromium	0.47	0.0060	0.5000	0.004670	92.4	75	125	2.13	20	
	0.46	0.0050	0.5000	0	92.1	75	125	2.17	20	
Magnesium	54	1.0	50.00	7.794	91.5	75	125	1.29	20	
Potassium	65	1.0	50.00	19.09	92.3	75	125	2.29	20	
n	0.45	0.050	0.5000	0	89.7	75	125	1.26	20	
Silver	0.092	0.0050	0.1000	0	92.4	75	125	2.29	20	
Sodium	61	1.0	50.00	18.00	86.7	75	125	0.582	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Enterprise | Work Order Number: 1607128 | RcptNo: 1

Received by/date: AT 07/06/16

Logged By: Lindsay Mangin 7/6/2016 7:35:00 AM

Completed By: Lindsay Mangin 7/6/2016 8:53:18 AM

Reviewed By: JA 07/06/16

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: 1 (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? 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 ☐	Checked by: aJ

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

ent: Enterprise Products

iling Address: 614 Reilly Ave.

armington, NM 87401

one #: 505-599-2286

ail or Fax#: tjlong@eprod.com

/QC Package
Standard ☐ Level 4 (Full Validation)

creditation
NELAP ☐ Other

EDD (Type)

Turn-Around Time: 3 day
☐ Standard ☒ Rush

Project Name: Trunk MD 16 Inch

Project #:

Project Manager: Thomas Long

Sampler: TJL

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
7-16	1130	Water	Rupture #6	3 VOA's 2 HDEP	HgCl / HNO3	1607128 -001

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi VOA)	Cations / Anions				Air Bubbles (Y or N)
						X			X		X				

Date	Time	Relinquished by	Received by	Date	Time
7-16	1230	Thomas Long	Christine Walker	7/15/16	1230
7/16	1841	Christine Walker		07/16/16	0735

Remarks: TCLP Limits

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 25, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1607412

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/9/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 18, 2016.

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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607412**
Date Reported: **7/25/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: HP-1
Project: Trunk MD 16" Hydro
Collection Date: 7/8/2016 3:15:00 PM
Lab ID: 1607412-001
Matrix: SOIL
Received Date: 7/9/2016 11:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2016 9:57:57 AM	26529
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/12/2016 4:44:16 PM	26331
Surr: DNOP	97.3	70-130		%Rec	1	7/12/2016 4:44:16 PM	26331
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2016 4:39:50 PM	26325
Surr: BFB	100	80-120		%Rec	1	7/12/2016 4:39:50 PM	26325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/12/2016 4:39:50 PM	26325
Toluene	ND	0.050		mg/Kg	1	7/12/2016 4:39:50 PM	26325
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2016 4:39:50 PM	26325
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2016 4:39:50 PM	26325
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	7/12/2016 4:39:50 PM	26325

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: HP-2
Project: Trunk MD 16" Hydro
Collection Date: 7/8/2016 3:25:00 PM
Lab ID: 1607412-002
Matrix: SOIL
Received Date: 7/9/2016 11:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2016 10:35:11 AM	26529
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/12/2016 5:06:10 PM	26331
Surr: DNOP	102	70-130		%Rec	1	7/12/2016 5:06:10 PM	26331
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2016 5:03:21 PM	26325
Surr: BFB	99.2	80-120		%Rec	1	7/12/2016 5:03:21 PM	26325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/12/2016 5:03:21 PM	26325
Toluene	ND	0.048		mg/Kg	1	7/12/2016 5:03:21 PM	26325
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2016 5:03:21 PM	26325
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2016 5:03:21 PM	26325
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	7/12/2016 5:03:21 PM	26325

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: HP-3
Project: Trunk MD 16" Hydro
Collection Date: 7/8/2016 3:35:00 PM
Lab ID: 1607412-003
Matrix: SOIL
Received Date: 7/9/2016 11:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	7/21/2016 10:47:36 AM	26529
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/12/2016 5:27:51 PM	26331
Surr: DNOP	100	70-130		%Rec	1	7/12/2016 5:27:51 PM	26331
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/12/2016 5:27:04 PM	26325
Surr: BFB	95.6	80-120		%Rec	1	7/12/2016 5:27:04 PM	26325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/12/2016 5:27:04 PM	26325
Toluene	ND	0.046		mg/Kg	1	7/12/2016 5:27:04 PM	26325
Ethylbenzene	ND	0.046		mg/Kg	1	7/12/2016 5:27:04 PM	26325
Xylenes, Total	ND	0.092		mg/Kg	1	7/12/2016 5:27:04 PM	26325
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	7/12/2016 5:27:04 PM	26325

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607412**

25-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID	**MB-26529**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**26529**		RunNo:	**35903**				
Prep Date:	**7/21/2016**	Analysis Date:	**7/21/2016**		SeqNo:	**1111501**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26529**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26529**		RunNo:	**35903**				
Prep Date:	**7/21/2016**	Analysis Date:	**7/21/2016**		SeqNo:	**1111502**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607412**

25-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **LCS-26331**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26331**	RunNo: **35611**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102563** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	62.6	124			
Surr: DNOP	4.7		5.000		93.8	70	130			

Sample ID **MB-26331**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26331**	RunNo: **35611**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102564** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.0		10.00		90.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607412**

25-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26325**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102390** 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	950		1000		94.7	80	120			

Sample ID **LCS-26325**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1000		1000		105	80	120			

Sample ID **1607412-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **HP-2**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102394** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.83	0	115	59.3	143			
Surr: BFB	1100		953.3		111	80	120			

Sample ID **1607412-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **HP-2**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102395** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	109	59.3	143	2.93	20	
Surr: BFB	1100		972.8		109	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607412**

25-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26325**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102416** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.2	80	120			

Sample ID **LCS-26325**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102417** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	75.3	123			
Toluene	0.95	0.050	1.000	0	95.5	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.3	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	99.1	83.9	122			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID **1607412-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **HP-1**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102419** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.023	0.9302	0	105	71.5	122			
Toluene	1.0	0.047	0.9302	0	109	71.2	123			
Ethylbenzene	1.1	0.047	0.9302	0	115	75.2	130			
Xylenes, Total	3.2	0.093	2.791	0	115	72.4	131			
Surr: 4-Bromofluorobenzene	0.92		0.9302		98.8	80	120			

Sample ID **1607412-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **HP-1**	Batch ID: **26325**	RunNo: **35619**
Prep Date: **7/11/2016**	Analysis Date: **7/12/2016**	SeqNo: **1102421** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9690	0	102	71.5	122	1.52	20	
Toluene	0.98	0.048	0.9690	0	101	71.2	123	3.72	20	
Ethylbenzene	1.0	0.048	0.9690	0	108	75.2	130	2.07	20	
Xylenes, Total	3.1	0.097	2.907	0	107	72.4	131	3.25	20	
Surr: 4-Bromofluorobenzene	0.95		0.9690		97.9	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC | Work Order Number: 1607412 | RcptNo: 1

Received by/date: 07/08/16

Logged By: Lindsay Mangin | 7/9/2016 11:08:00 AM

Completed By: Lindsay Mangin | 7/9/2016 12:50:37 PM

Reviewed By: 07/09/16

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	3.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 3.3

1	2	3	4	5

Page ____ of ____

Sampler's Name: Ranee Deechilly

Sampler's Signature: Ranee Deechilly

Proj. No.

Project Name: Mink MD 16" Hydro

No/Type of Containers

ANALYSIS REQUESTED: 8021 BTEX; 8015 TPH GRO/DRO; Chlorides

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	7/8/16	1515	X		HP-1						1		1607412-001
S	↓	1525	X		HP-2						1		-002
S	↓	1535	X		HP-3						1		-003

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/8/16	1615		7/8/16	1615
	7/8/16	1857		07/09/16	1108

NOTES: Bill to Tom Long EPROD

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other ____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 28, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" Hydro OrderNo.: 1607562

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/12/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607562**
Date Reported: **7/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: CP-1
Project: Trunk MD 16" Hydro
Collection Date: 7/11/2016 12:30:00 PM
Lab ID: 1607562-001
Matrix: SOIL
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Fluoride	0.71	0.30		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Chloride	3.4	1.5		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Bromide	ND	0.30		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Nitrogen, Nitrate (As N)	0.84	0.30		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	7/15/2016 2:48:45 PM	26445
Sulfate	17	1.5		mg/Kg	1	7/15/2016 2:48:45 PM	26445
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Calcium	1900	50		mg/Kg	2	7/14/2016 10:33:33 AM	26385
Magnesium	1100	50		mg/Kg	2	7/14/2016 10:33:33 AM	26385
Potassium	730	100		mg/Kg	2	7/14/2016 10:33:33 AM	26385
Sodium	ND	50		mg/Kg	2	7/14/2016 10:33:33 AM	26385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/14/2016 3:45:14 PM	26377
Surr: DNOP	95.5	70-130		%Rec	1	7/14/2016 3:45:14 PM	26377
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2016 6:13:41 PM	26374
Surr: BFB	98.3	80-120		%Rec	1	7/15/2016 6:13:41 PM	26374
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/15/2016 6:13:41 PM	26374
Toluene	ND	0.047		mg/Kg	1	7/15/2016 6:13:41 PM	26374
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2016 6:13:41 PM	26374
Xylenes, Total	ND	0.093		mg/Kg	1	7/15/2016 6:13:41 PM	26374
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	7/15/2016 6:13:41 PM	26374

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1607562-002 **Matrix:** SOIL

Client Sample ID: CP-2
Collection Date: 7/11/2016 12:40:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Fluoride	0.74	0.30		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Chloride	3.6	1.5		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Bromide	ND	0.30		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Nitrogen, Nitrate (As N)	1.4	0.30		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	7/15/2016 12:44:38 PM	26445
Sulfate	11	1.5		mg/Kg	1	7/15/2016 12:44:38 PM	26445
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Calcium	790	25		mg/Kg	1	7/14/2016 10:37:44 AM	26385
Magnesium	590	25		mg/Kg	1	7/14/2016 10:37:44 AM	26385
Potassium	550	49		mg/Kg	1	7/14/2016 10:37:44 AM	26385
Sodium	29	25		mg/Kg	1	7/14/2016 10:37:44 AM	26385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/14/2016 4:13:35 PM	26377
Surr: DNOP	98.4	70-130		%Rec	1	7/14/2016 4:13:35 PM	26377
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2016 7:24:24 PM	26374
Surr: BFB	99.5	80-120		%Rec	1	7/15/2016 7:24:24 PM	26374
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/15/2016 7:24:24 PM	26374
Toluene	ND	0.047		mg/Kg	1	7/15/2016 7:24:24 PM	26374
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2016 7:24:24 PM	26374
Xylenes, Total	ND	0.094		mg/Kg	1	7/15/2016 7:24:24 PM	26374
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	7/15/2016 7:24:24 PM	26374

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1607562-003 **Matrix:** SOIL

Client Sample ID: CP-3
Collection Date: 7/11/2016 12:50:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Fluoride	1.2	0.30		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Chloride	4.6	1.5		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Bromide	ND	0.30		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Nitrogen, Nitrate (As N)	1.0	0.30		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	7/15/2016 1:34:17 PM	26445
Sulfate	10	1.5		mg/Kg	1	7/15/2016 1:34:17 PM	26445
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Calcium	1400	25		mg/Kg	1	7/14/2016 10:46:30 AM	26385
Magnesium	1300	25		mg/Kg	1	7/14/2016 10:46:30 AM	26385
Potassium	870	50		mg/Kg	1	7/14/2016 10:46:30 AM	26385
Sodium	32	25		mg/Kg	1	7/14/2016 10:46:30 AM	26385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/14/2016 4:41:51 PM	26377
Surr: DNOP	95.5	70-130		%Rec	1	7/14/2016 4:41:51 PM	26377
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2016 7:47:53 PM	26374
Surr: BFB	96.4	80-120		%Rec	1	7/15/2016 7:47:53 PM	26374
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/15/2016 7:47:53 PM	26374
Toluene	ND	0.047		mg/Kg	1	7/15/2016 7:47:53 PM	26374
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2016 7:47:53 PM	26374
Xylenes, Total	ND	0.094		mg/Kg	1	7/15/2016 7:47:53 PM	26374
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	7/15/2016 7:47:53 PM	26374

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16" Hydro
Lab ID: 1607562-004 **Matrix:** SOIL

Client Sample ID: CP-4
Collection Date: 7/11/2016 1:00:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Fluoride	0.45	0.30		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Chloride	2.5	1.5		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Bromide	ND	0.30		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Nitrogen, Nitrate (As N)	0.55	0.30		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	7/15/2016 1:59:07 PM	26445
Sulfate	5.7	1.5		mg/Kg	1	7/15/2016 1:59:07 PM	26445
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Calcium	660	25		mg/Kg	1	7/14/2016 10:49:13 AM	26385
Magnesium	380	25		mg/Kg	1	7/14/2016 10:49:13 AM	26385
Potassium	370	49		mg/Kg	1	7/14/2016 10:49:13 AM	26385
Sodium	ND	25		mg/Kg	1	7/14/2016 10:49:13 AM	26385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/14/2016 5:10:07 PM	26377
Surr: DNOP	98.2	70-130		%Rec	1	7/14/2016 5:10:07 PM	26377
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/15/2016 8:11:16 PM	26374
Surr: BFB	98.1	80-120		%Rec	1	7/15/2016 8:11:16 PM	26374
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/15/2016 8:11:16 PM	26374
Toluene	ND	0.047		mg/Kg	1	7/15/2016 8:11:16 PM	26374
Ethylbenzene	ND	0.047		mg/Kg	1	7/15/2016 8:11:16 PM	26374
Xylenes, Total	ND	0.094		mg/Kg	1	7/15/2016 8:11:16 PM	26374
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	7/15/2016 8:11:16 PM	26374

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: CP-5
Project: Trunk MD 16" Hydro
Collection Date: 7/11/2016 1:10:00 PM
Lab ID: 1607562-005
Matrix: SOIL
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Fluoride	2.3	0.30		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Chloride	6.1	1.5		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Bromide	ND	0.30		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Nitrogen, Nitrate (As N)	ND	0.30		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	7/15/2016 2:23:55 PM	26445
Sulfate	15	1.5		mg/Kg	1	7/15/2016 2:23:55 PM	26445
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Calcium	1100	25		mg/Kg	1	7/14/2016 10:51:58 AM	26385
Magnesium	570	25		mg/Kg	1	7/14/2016 10:51:58 AM	26385
Potassium	440	50		mg/Kg	1	7/14/2016 10:51:58 AM	26385
Sodium	35	25		mg/Kg	1	7/14/2016 10:51:58 AM	26385
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2016 5:38:43 PM	26377
Surr: DNOP	99.9	70-130		%Rec	1	7/14/2016 5:38:43 PM	26377
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/15/2016 8:34:41 PM	26374
Surr: BFB	96.8	80-120		%Rec	1	7/15/2016 8:34:41 PM	26374
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/15/2016 8:34:41 PM	26374
Toluene	ND	0.048		mg/Kg	1	7/15/2016 8:34:41 PM	26374
Ethylbenzene	ND	0.048		mg/Kg	1	7/15/2016 8:34:41 PM	26374
Xylenes, Total	ND	0.096		mg/Kg	1	7/15/2016 8:34:41 PM	26374
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	7/15/2016 8:34:41 PM	26374

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN
Project: Trunk MD 16" Hydro

Sample ID **MB-26445**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **26445**	RunNo: **35763**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1106514** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Phosphorus, Orthophosphate (As P	ND	1.5								
Sulfate	ND	1.5								

Sample ID **LCS-26445**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **26445**	RunNo: **35763**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1106515** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.5	0.30	1.500	0	102	90	110			
Chloride	14	1.5	15.00	0	92.5	90	110			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	93.8	90	110			
Bromide	6.8	0.30	7.500	0	90.7	90	110			
Nitrogen, Nitrate (As N)	7.3	0.30	7.500	0	97.0	90	110			
Phosphorus, Orthophosphate (As P	14	1.5	15.00	0	92.6	90	110			
Sulfate	29	1.5	30.00	0	95.5	90	110			

Sample ID **1607562-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **CP-1**	Batch ID: **26445**	RunNo: **35763**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1106533** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.30	1.500	0.7127	60.9	15	110			
Chloride	18	1.5	15.00	3.380	94.7	70.8	119			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	92.8	71.5	113			
Bromide	7.0	0.30	7.500	0	93.3	81.1	111			
Nitrogen, Nitrate (As N)	8.2	0.30	7.500	0.8363	98.2	83.8	113			
Phosphorus, Orthophosphate (As P	8.4	1.5	15.00	0	55.9	15	105			
Sulfate	47	1.5	30.00	16.78	100	25.1	158			

Sample ID **1607562-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **CP-1**	Batch ID: **26445**	RunNo: **35763**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1106534** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.30	1.500	0.7127	56.0	15	110	4.62	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **1607562-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **CP-1**	Batch ID: **26445**	RunNo: **35763**
Prep Date: **7/15/2016**	Analysis Date: **7/15/2016**	SeqNo: **1106534** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	1.5	15.00	3.380	94.6	70.8	119	0.130	20	
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	94.9	71.5	113	2.16	20	
Bromide	7.1	0.30	7.500	0	95.1	81.1	111	1.88	20	
Nitrogen, Nitrate (As N)	8.3	0.30	7.500	0.8363	99.8	83.8	113	1.37	20	
Phosphorus, Orthophosphate (As P	9.2	1.5	15.00	0	61.5	15	105	9.57	20	
Sulfate	44	1.5	30.00	16.78	91.7	25.1	158	5.62	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **LCS-26377**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **26377**			RunNo: **35683**					
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**			SeqNo: **1105643**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	62.6	124			
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID **MB-26377**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **26377**			RunNo: **35683**					
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**			SeqNo: **1105644**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		91.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26374**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105954** 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	970		1000		96.9	80	120			

Sample ID **LCS-26374**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	1100		1000		108	80	120			

Sample ID **1607562-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **CP-1**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.34	0	104	59.3	143			
Surr: BFB	1000		933.7		110	80	120			

Sample ID **1607562-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **CP-1**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	59.3	143	3.07	20	
Surr: BFB	1100		1000		109	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26374**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105992** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ND	0.025								
T ɜ	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

Sample ID **LCS-26374**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26374**	RunNo: **35744**
Prep Date: **7/13/2016**	Analysis Date: **7/15/2016**	SeqNo: **1105993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.0	75.3	123			
Toluene	0.97	0.050	1.000	0	97.1	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.4	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	98.5	83.9	122			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

H ll Environmental Analysis Laboratory, Inc.

WO#: **1607562**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16" Hydro

Sample ID **MB-26385**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **26385**	RunNo: **35691**
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**	SeqNo: **1104223** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	25								
Magnesium	ND	25								
Potassium	ND	50								
Sodium	ND	25								

Sample ID **LCS-26385**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **26385**	RunNo: **35691**
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**	SeqNo: **1104224** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2400	25	2500	0	95.7	80	120			
Magnesium	2300	25	2500	0	94.0	80	120			
Potassium	2300	50	2500	0	90.6	80	120			
Sodium	2400	25	2500	0	94.3	80	120			

Sample ID **1607562-001AMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **CP-1**	Batch ID: **26385**	RunNo: **35691**
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**	SeqNo: **1104238** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4100	50	2493	1928	85.7	75	125			
Magnesium	3300	50	2493	1052	90.0	75	125			
Potassium	2800	100	2493	730.2	83.9	75	125			
Sodium	2200	50	2493	40.04	87.7	75	125			

Sample ID **1607562-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **CP-1**	Batch ID: **26385**	RunNo: **35691**
Prep Date: **7/13/2016**	Analysis Date: **7/14/2016**	SeqNo: **1104239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4100	50	2476	1928	87.5	75	125	0.773	20	
Magnesium	3300	50	2476	1052	91.6	75	125	0.740	20	
Potassium	2900	99	2476	730.2	87.0	75	125	2.20	20	
Sodium	2100	50	2476	40.04	84.3	75	125	4.56	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC | Work Order Number: 1607562 | RcptNo: 1

Received by/date: AT 07/12/16

Logged By: Lindsay Mangin 7/12/2016 7:50:00 AM

Completed By: Lindsay Mangin 7/13/2016 8:36:24 AM

Reviewed By: 07/13/16

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall Environmental

Address: Albuquerque, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date: 1.0

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

Page 1 of 1

Sampler's Name: Ranee Deechilly Chad Hensley

Sampler's Signature:

Proj. No.

Project Name: Trunk MD 16" Hydro

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED: 8021 BTEX	8015 TPH GRO/DRO	Chlorides	Cations / Anions	Lab Sample ID (Lab Use Only)
S	7/11/16	1230			CP-1						1		X	X	X	X	1607562-001
S		1240			CP-2						1		X	X	X	X	-002
S		1250			CP-3						1		X	X	X	X	-003
S		1300			CP-4						1		X	X	X	X	-004
S		1310			CP-5						1		X	X	X	X	-005

NES

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/11/16	1615		07/12/16	0750
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Tom Long
N 25789

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 28, 2016

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Trunk MD 16" OrderNo.: 1607561

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/12/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1607561**
Date Reported: **7/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16"
Lab ID: 1607561-001
Matrix: AQUEOUS
Client Sample ID: Rupture #8
Collection Date: 7/9/2016 12:00:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: **pmf**	
Mercury	ND	0.00020		mg/L	1	7/15/2016 10:27:28 AM	26407
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **MED**	
Arsenic	ND	0.020		mg/L	1	7/15/2016 10:28:02 AM	26413
Barium	0.25	0.020		mg/L	1	7/21/2016 11:47:16 AM	26413
Cadmium	ND	0.0020		mg/L	1	7/15/2016 10:28:02 AM	26413
Chromium	ND	0.0060		mg/L	1	7/15/2016 10:28:02 AM	26413
Lead	0.0066	0.0050		mg/L	1	7/19/2016 8:10:40 AM	26413
Selenium	ND	0.050		mg/L	1	7/15/2016 10:28:02 AM	26413
Silver	ND	0.0050		mg/L	1	7/15/2016 10:28:02 AM	26413
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Toluene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Ethylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Naphthalene	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1-Methylnaphthalene	ND	4.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
2-Methylnaphthalene	ND	4.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Acetone	ND	10		µg/L	1	7/15/2016 12:12:00 AM	A35696
Bromobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Bromodichloromethane	6.6	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Bromoform	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Bromomethane	ND	3.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
2-Butanone	ND	10		µg/L	1	7/15/2016 12:12:00 AM	A35696
Carbon disulfide	ND	10		µg/L	1	7/15/2016 12:12:00 AM	A35696
Carbon Tetrachloride	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Chlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Chloroethane	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Chloroform	47	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Chloromethane	ND	3.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
2-Chlorotoluene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
4-Chlorotoluene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
cis-1,2-DCE	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696

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

Qualifiers:

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16"
Lab ID: 1607561-001
Matrix: AQUEOUS
Client Sample ID: Rupture #8
Collection Date: 7/9/2016 12:00:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Dibromochloromethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Dibromomethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1-Dichloroethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1-Dichloroethene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2-Dichloropropane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,3-Dichloropropane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
2,2-Dichloropropane	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1-Dichloropropene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Hexachlorobutadiene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
2-Hexanone	ND	10		µg/L	1	7/15/2016 12:12:00 AM	A35696
Isopropylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
4-Isopropyltoluene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
4-Methyl-2-pentanone	ND	10		µg/L	1	7/15/2016 12:12:00 AM	A35696
Methylene Chloride	ND	3.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
n-Butylbenzene	ND	3.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
n-Propylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
sec-Butylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Styrene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
tert-Butylbenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
trans-1,2-DCE	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Trichlorofluoromethane	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Vinyl chloride	ND	1.0		µg/L	1	7/15/2016 12:12:00 AM	A35696
Xylenes, Total	ND	1.5		µg/L	1	7/15/2016 12:12:00 AM	A35696
IS: 1,4-Dichlorobenzene-d4	10	0			1	7/15/2016 12:12:00 AM	A35696
IS: Chlorobenzene-d5	10	0			1	7/15/2016 12:12:00 AM	A35696

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Trunk MD 16"
Lab ID: 1607561-001
Matrix: AQUEOUS
Client Sample ID: Rupture #8
Collection Date: 7/9/2016 12:00:00 PM
Received Date: 7/12/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
IS: Pentafluorobenzene	10	0			1	7/15/2016 12:12:00 AM	A35696
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	1	7/15/2016 12:12:00 AM	A35696
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/15/2016 12:12:00 AM	A35696
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	7/15/2016 12:12:00 AM	A35696
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/15/2016 12:12:00 AM	A35696

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607561**

28-Jul-16

Client: APEX TITAN
Project: Trunk MD 16"

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A35696**	RunNo: **35696**
Prep Date:	Analysis Date: **7/14/2016**	SeqNo: **1105190** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	48	1.0	47.00	0	102	70	130			
Toluene	48	1.0	47.00	0	101	70	130			
Chlorobenzene	47	1.0	47.00	0	100	70	130			
1,1-Dichloroethene	49	1.0	47.00	0	104	70	130			
Trichloroethene (TCE)	45	1.0	47.00	0	96.7	70	130			
IS: 1,4-Dichlorobenzene-d4	10	0								
IS: Chlorobenzene-d5	10	0								
IS: Pentafluorobenzene	10	0								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.9	70	130			
Surr: Toluene-d8	9.6		10.00		96.1	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35696**	RunNo: **35696**
Prep Date:	Analysis Date: **7/14/2016**	SeqNo: **1105199** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607561**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16"

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35696**	RunNo: **35696**
Prep Date:	Analysis Date: **7/14/2016**	SeqNo: **1105199** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								

Qualifiers:

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20

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607561**

28-Jul-16

Client: APEX TITAN

Project: Trunk MD 16"

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A35696**	RunNo: **35696**
Prep Date:	Analysis Date: **7/14/2016**	SeqNo: **1105199** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
IS: 1,4-Dichlorobenzene-d4	10	0								
IS: Chlorobenzene-d5	10	0								
IS: Pentafluorobenzene	10	0								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		99.8	70	130			
Surr: Toluene-d8	9.7		10.00		96.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607561**

28-Jul-16

Client: APEX TITAN
Project: Trunk MD 16"

Sample ID	MB-26407	SampType:	MBLK		TestCode:	EPA Method 7470: Mercury				
Client ID:	PBW	Batch ID:	26407		RunNo:	35726				
Prep Date:	7/14/2016	Analysis Date:	7/15/2016		SeqNo:	1105600	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-26407	SampType:	LCS		TestCode:	EPA Method 7470: Mercury				
Client ID:	LCSW	Batch ID:	26407		RunNo:	35726				
Prep Date:	7/14/2016	Analysis Date:	7/15/2016		SeqNo:	1105601	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	103	80	120			

Sample ID	1607561-001BMS	SampType:	MS		TestCode:	EPA Method 7470: Mercury				
Client ID:	Rupture #8	Batch ID:	26407		RunNo:	35726				
Prep Date:	7/14/2016	Analysis Date:	7/15/2016		SeqNo:	1105603	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0056	0.00020	0.005000	0.0001126	109	75	125			

Sample ID	1607561-001BMSD	SampType:	MSD		TestCode:	EPA Method 7470: Mercury				
Client ID:	Rupture #8	Batch ID:	26407		RunNo:	35726				
Prep Date:	7/14/2016	Analysis Date:	7/15/2016		SeqNo:	1105604	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0056	0.00020	0.005000	0.0001126	110	75	125	0.599	20	

Qualifiers:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC | Work Order Number: 1607561 | RcptNo: 1

Received by/date: AT 07/12/16

Logged By: Lindsay Mangin 7/12/2016 7:50:00 AM

Completed By: Lindsay Mangin 7/13/2016 8:33:26 AM

Reviewed By: JA 07/13/16

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: 1 (<2 or >12 unless noted)

Adjusted? NO

Checked by: AJ

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

APEX

Office Location Aztec

Project Manager

Laboratory: Hall

Address: ABQ

Contact: Andy Freeman

Phone:

PO/SO #:

Lab use only
Due Date: 1.0

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

Page 1 of 1

Sampler's Name: Kyle Summers

Sampler's Signature:

Proj. No.

Project Name: Trunk MO 16"

ANALYSIS REQUESTED: 8260, RCRA-8

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 L	250 ml	Glass Jar	P/O	8260	RCRA-8	Lab Sample ID (Lab Use Only)
W	7/9/16	1200		X	Rupture #8			3				1	X	X	1607561-001

NES
KJ

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/11/16	1345	Ken Duke	7/11/16	1445
Ken Duke	7/11/16	1615		07/12/16	0750

NOTES: Bill Tom Long.
N25789

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other