# 3R – 1026 GWMR + WP 12/02/2014



#### CORRECTIVE ACTION REPORT AND SITE INVESTIGATION WORK PLAN

Property:

Gallegos #2 Well Tie Pipeline Release (9/18/2014) NE 1/4, S29 T26N R11W San Juan County, New Mexico

> December 2, 2014 Apex Project No. 7030414G035

> > Prepared for:

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

Prepared by:

ther M. Woods

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

Elizabeth Scaggs, P.G. Senior Program Manager

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#### CORRECTIVE ACTION REPORT AND SITE INVESTIGATION WORK PLAN

Gallegos #2 Well Tie Pipeline Release (9/18/2014) NE 1/4, S29 T26N R11W San Juan County, New Mexico

#### Apex Project No. 7030414G035

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

The Gallegos #2 Well Tie Pipeline Release (9/18/2014) site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) <sup>1</sup>/<sub>4</sub> of Section 29 in Township 26 North, Range 11 West in rural San Juan County, New Mexico (36.46020N 108.02147W), referred to hereinafter as the "Site" or "subject Site". The Site is located on Navajo Nation allotted land, and consists of native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately southwest to northeast.

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak, which was discovered on September 18, 2014. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release.

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

#### 1.2 **Project Objective**

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

#### 2.0 SITE RANKING

The site is under the jurisdiction of the Navajo Nation Environmental Protection Agency (NNEPA) and the New Mexico ENMRD OCD. Site activities were performed in accordance with the ENMRD OCD *Guidelines for Remediation of Leaks, Spills and Releases*, in addition to the OCD rules, specifically NMAC 19.15.29 *Remediation Plan*. This guidance establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during completion of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Rankin	Ranking Score		
	<50 feet	20	
Depth to Groundwater	50 to 99 feet	10	20
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water	Yes	20	0
source, or; <200 feet from private domestic water source.	No	0	J
	<200 feet	20	
Distance to Surface Water Body	200 to 1,000 feet	10	20
	>1,000 feet	0	
Total Rai	40		

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "40". This ranking is based on the following:

- Groundwater was observed in the pipeline repair excavation at approximately 2.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater. No water wells were identified on the OSE website database within one mile of the Site.
- No water sources or wellheads were identified within 1,000 feet of the Site, resulting in a ranking of "0" for proximity to a wellhead protection area.
- The Site is located adjacent to the active channel of the Gallegos Wash, resulting in a ranking of "20" for distance to surface water

#### 3.0 **RESPONSE ACTIONS**

#### 3.1 Soil Excavation Activities

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers and Heather Woods, Apex environmental professionals, provided environmental support.

Confirmation soil samples were collected over the course of several days, as different areas of the excavation became accessible during soil removal and dewatering activities. Confirmation samples C-1 through C-15 were collected from the floors and sidewalls of the excavation to evaluate soils remaining in place. Subsequent analytical results indicated that a portion of the west sidewall still exhibited evidence of hydrocarbon impact (sample C-8). This sidewall was over-excavated on October 14, 2014, and resampled (confirmation sample C-16) to verify the removal of hydrocarbon affected soils.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands with variable amounts of silt and clay.

The final excavation measured approximately 380 feet long with variable width and depth, typically six (6) feet wide and four (4) to six (6) feet bgs in depth. The majority of this excavation



was created to proactively replace sections of pipeline that exhibited signs of internal corrosion. The portion of the excavated area affected by the hydrocarbon release measured approximately 41 feet long by 30 feet wide and 8 to 10 feet bgs in depth.

A total of approximately 568 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, approximately 585 barrels (bbls) of water were removed from the excavation during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The executed C-138 forms are provided in Appendix B. Composite samples (SP-1 through SP-12) were collected from the remaining soil stockpiles associated with the northern (unaffected) portion of the excavation at an approximate 20 cubic yard sample interval (as requested by the NMOCD) to verify the potential for reuse as backfill material. Subsequent to the laboratory verification that the remaining stockpiled soils were not affected, the excavation was backfilled with clean, imported fill and soils from the remaining unaffected stockpiles.

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

#### 3.2 Soil and Water Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 electron volt (eV) lamp to aid in determining the excavation limits.

Apex's soil sampling program included the collection of sixteen (16) confirmation samples (C-1 through C-16) from the resulting excavation for laboratory analysis. Additionally, twelve (12) composite samples (SP-1 through SP-12) were collected from the remaining unaffected stockpiled soils to determine the potential to reuse these soils as excavation backfill. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample (EW-1) was collected from the open excavation and submitted for laboratory analysis, to evaluate potential groundwater impact at the Site.

The confirmation soil and water samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in coolers, which were secured with custody seals. The sample coolers and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for analysis.

#### 3.3 Laboratory Analytical Methods

The confirmation and stockpile soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015. Additionally, at the request of the NMOCD, the stockpile composite samples were analyzed for chloride using EPA Method 300.0.

The excavation water sample was analyzed for BTEX using EPA SW-846 #8021, anions using EPA Method 300.0, and cations using EPA Method 200.7.

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



#### 4.0 DATA EVALUATION

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

#### 4.1 Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation and stockpile samples for soils remaining at the Site to the OCD *Remediation Action Levels* for sites having a total ranking score of "40". Soils associated with confirmation sample C-8 were removed by over-excavation and are not included in the following discussion.

- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate benzene concentrations ranging from below laboratory reporting limits to 0.33 milligrams per kilogram (mg/kg), which are below the OCD *Remediation Action Level.*
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate total BTEX concentrations ranging from below laboratory reporting limits to 6.7 mg/kg, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 74 mg/Kg, which are below the OCD *Remediation Action Level.*

The laboratory analyses of the stockpile samples identified chloride concentrations ranging from 4.6 mg/kg to 12 mg/kg. Chloride does not have an established OCD *Remediation Action Level*. Confirmation sample results are provided in Tables 1A and 1B in Appendix D.

#### 4.2 Water Sample

Apex compared the BTEX constituent concentrations or reporting limits (RLs) associated with the excavation water sample collected from the main excavation area to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analyses of the excavation water sample (EW-1) indicates a benzene concentration of 1,400 micrograms per liter ( $\mu$ g/L), which is above the WQCC GQS of 10  $\mu$ g/L.
- The laboratory analyses of EW-1 indicates a toluene concentration of 6,300  $\mu$ g/L, which is above the WQCC GQS of 750  $\mu$ g/L.
- The laboratory analyses of EW-1 indicates an ethylbenzene concentration of 870  $\mu$ g/L, which is above the WQCC GQS of 750  $\mu$ g/L.
- The laboratory analyses of EW-1 indicates a total xylenes concentration of 11,000  $\mu g/L,$  which above the WQCC GQS of 620  $\mu g/L.$



In addition to the analysis for BTEX, the NMOCD requested that the excavation water sample be analyzed for anions/cations.

- The laboratory analyses of EW-1 indicates fluoride, nitrogen (nitrate), and sulfate concentrations below the laboratory reporting limits, which are below the WQCC GQS of 1.6 milligrams per liter (mg/L) fluoride, 10.0 mg/L nitrogen (nitrate), and 600 mg/L sulfate. Laboratory analyses of EW-1 also indicates nitrogen (nitrite), bromide, and phosphorus (orthophosphate) concentrations below the laboratory reporting limits, for which no WQCC GQSs have been established. The laboratory analyses of EW indicates a chloride concentration of 94 mg/L, which is below the WQCC GQS of 250 mg/L for domestic water supplies.
- Laboratory analyses of EW-1 also identified cation concentrations of 100 mg/L calcium, 34 mg/L magnesium, 22 mg/L potassium, and 580 mg/L sodium. No WQCC GQSs have been established for these cations.

Sample results are provided in Tables 2A through 2C in Appendix D.

It should be noted that due to the "mixing/blending" nature of excavation activities, as well as the characteristics of the native media comprising the local aquifer and vadose zone, open excavation water sample analyses are sometimes not indicative of the actual groundwater constituent concentrations in the area.

#### 5.0 FINDINGS AND RECOMMENDATIONS

The Gallegos #2 Well Tie Pipeline Release (9/18/2014) site is located within the Enterprise pipeline ROW in the NE <sup>1</sup>/<sub>4</sub> of Section 29 in Township 26 North, Range 11 West in rural San Juan County, New Mexico (36.46020N 108.02147W). The Site is located on Navajo Nation allotted land, and consists of native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately southwest to northeast.

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The final excavation measured approximately 380 feet long with variable width and depth, typically 6 feet wide and 4 to 6 feet bgs in depth. The majority of this excavation was created to proactively replace sections of pipeline that exhibited signs of internal corrosion. The portion of the excavated area affected by the hydrocarbon release measured approximately 41 feet long by 30 feet wide and 8 to 10 feet bgs in depth.
- Groundwater was encountered during the corrective action excavation activities. A water sample was collected from the open excavation and submitted for laboratory analyses.



- The laboratory analysis of the excavation water sample indicates a benzene concentration of 1,400 μg/L, which exceeds the WQCC GQS of 10 μg/L.
- The laboratory analysis of the excavation water sample indicates a toluene concentration of 6,300 μg/L, which exceeds the WQCC GQS of 750 μg/L.
- The laboratory analysis of the excavation water sample indicates an ethylbenzene concentration of 870 μg/L, which exceeds the WQCC GQS of 750 μg/L.
- The laboratory analysis of the excavation water sample indicates a total xylene concentration of 11,000 μg/L, which exceeds the WQCC GQS of 620 μg/L.
- Prior to backfilling, final confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *Remediation Action Levels* for a Site ranking of "40".
- A total of approximately 568 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, approximately 585 barrels (bbls) were removed from the excavation during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The excavation was backfilled with clean imported fill and stockpiled soils not impacted by COCs above applicable OCD *Remediation Action Levels* based on laboratory analytical results. The area was then contoured to the surrounding grade.

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

#### 6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

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

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is



prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

#### 7.0 SITE INVESTIGATION WORK PLAN

#### 7.1 Objective

The primary objective of the proposed site investigation is to evaluate potential COC concentrations in groundwater with respect to the WQCC *Groundwater Quality Standards*.

The scope of work at the Site will include the advancement of eight (8) soil borings which will be completed as temporary monitoring wells. The borings will be advanced to a depth of approximately ten (10) feet bgs, three to four feet below the initial groundwater table elevation, or equipment refusal, whichever is more shallow, to evaluate the presence, magnitude and/or extent of dissolved-phase COCs.

#### 7.2 Health and Safety Plan

Apex will develop a site specific Health and Safety Plan (HSP) for the performance of the corrective actions described herein. For the purposes of the HSP, it is assumed that the COCs include petroleum hydrocarbons. It is assumed that the scope of services can be conducted under modified Level D personal protective equipment (PPE), which will include a hard hat, steel-toed boots, protective eyewear, and gloves. Should the need arise to upgrade PPE (e.g. respiratory protection), the client will be notified, and the HSP will be modified accordingly.

Apex will ensure that utilities are cleared through the New Mexico One Call System and will coordinate with the utility companies as necessary to ensure the safe completion of site activities.

#### 7.3 Soil Boring Installation

Eight (8) soil borings will be advanced and completed as temporary monitoring wells utilizing a direct push Geoprobe<sup>®</sup> drilling rig. The soil borings will be placed in selected locations to further evaluate potential petroleum hydrocarbon soil and groundwater impacts. The soil borings will be advanced to a depth of approximately ten (10) feet bgs, three to four feet below the initial groundwater table elevation, or equipment refusal, whichever is more shallow. Figure 4 is a site map that indicates the approximate locations of the proposed temporary monitoring wells (Appendix A).

Non-disposable sampling and drilling equipment will be decontaminated using an Alconox<sup>®</sup> wash and potable water rinse prior to commencement of the project and between the advancement of each soil boring.

Soil samples will be collected continuously using core barrels or split spoon samplers to document lithology, color, relative moisture content and visual or olfactory evidence of impairment. In addition, the samples will be scanned with a PID for the presence of volatile organic compounds (VOCs).



#### 7.4 Temporary Monitoring Well Installation

Subsequent to advancement, the soil borings will be completed as temporary groundwater monitoring wells to evaluate the initial groundwater-bearing unit. The temporary monitoring wells will be completed as follows:

- Temporary installation of 5 to 10 feet of 1-inch diameter, machine slotted schedule 40 PVC well screen assembly with a threaded bottom plug;
- Installation of schedule 40 riser pipe to surface; and
- Graded silica sand for annular sand pack around the well screen from the bottom of the well to one foot above the groundwater level, if needed.

The temporary monitoring wells will be developed by surging and removing groundwater until the fluid appears relatively free of fine-grained sediment. Groundwater samples will be collected following development and monitoring well recovery utilizing low-flow sampling techniques. The temporary wells will be removed upon the completion of sampling and the boreholes backfilled with bentonite to the surface.

#### 7.5 Soil Sampling Program

Up to two (2) soil samples will be collected from each soil boring from one or more of the following locations:

- The depth interval exhibiting the highest concentration of VOCs based on PID evidence;
- An interval exhibiting visual/olfactory evidence of impairment;
- The capillary fringe zone;
- From a change in lithology; or
- From the bottom of the boring.

The soil samples will be collected in laboratory prepared glassware and placed on ice in a cooler, which will be secured with a custody seal. The samples will be transported to Hall along with a completed chain-of-custody form.

#### 7.6 Soil Laboratory Analytical Program

Selected soil samples will be analyzed for TPH GRO/DRO utilizing EPA SW-846 Method 8015 and BTEX utilizing EPA SW-846 Method 8021.

A summary of the analysis, sample type, and EPA-approved methods is presented in the following table:

Analysis	Sample Type	No. of Samples	EPA Method
TPH GRO/DRO	Soil	8-16	SW-846 8015
BTEX	Soil	8-16	SW-846 8021

#### 7.7 Groundwater Sampling Program

Prior to sampling, fluid levels in each of the temporary monitoring wells will be gauged utilizing an interface probe capable of detecting non aqueous phase liquid (NAPL).



Apex will collect one (1) groundwater sample from each of the eight (8) temporary monitoring wells, utilizing low-flow sampling methods, to evaluate the potential magnitude and extent of COCs identified in association with the on-site groundwater.

Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. It does not necessarily refer to the flow rate of water discharged at the surface which can be affected by flow regulators or restrictions. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective is to pump in a manner that minimizes stress (drawdown) to the system to the extent practical taking into account established site sampling objectives. Flow rates on the order of 0.1 to 0.5 liters per minute (L/min) will be maintained during the sampling activities using dedicated sampling equipment.

The utilization of low-flow minimal drawdown techniques enables the isolation of the screened interval groundwater from the overlying stagnant casing water. The pump intake is placed within the screened interval such that the groundwater pumped is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone.

Disposable tubing will be utilized during the low-flow sampling activities and are typically discarded after a single use. In the event that tubing reuse was ever required, the tubing would be washed in the same manner as the pump itself, with an Alconox<sup>®</sup> soap solution and then rinsed with clean water prior to re-use.

The temporary monitoring wells will be purged until produced groundwater is consistent in color, clarity, pH, temperature and conductivity. The general goal for stabilization of the monitored groundwater parameters of pH, temperature, and conductivity is three (3) consecutive readings at five (5) minute intervals that demonstrate less than 10% variation.

The groundwater samples will be collected in laboratory prepared glassware and placed on ice in a cooler, which will be secured with a custody seal. The samples will be transported to Hall along with a completed chain-of-custody form.

#### 7.8 Groundwater Laboratory Analytical Program

The groundwater samples will be analyzed BTEX utilizing EPA SW-846 Method 8021.

A summary of the analysis, sample type, and EPA-approved methods is presented below:

Analysis	Sample Type	No. of Samples	EPA Method
BTEX	Groundwater	8	SW-846 8021

#### 7.9 Plugging & Abandonment of Temporary Monitoring Wells

The temporary monitoring wells will be plugged and abandoned by removing the casings and screens, and backfilling the boreholes with bentonite pellets. Water will be added to the plugged boreholes to hydrate the bentonite, sealing the annulus.



#### 8.0 SITE INVESTIGATION REPORT

Upon completion of the site investigation activities, a final report will be prepared that will include documentation of field activities, a site plan detailing pertinent site features, logs of subsurface exploration, laboratory analytical results, an evaluation of sampling results, and recommendations concerning further action.

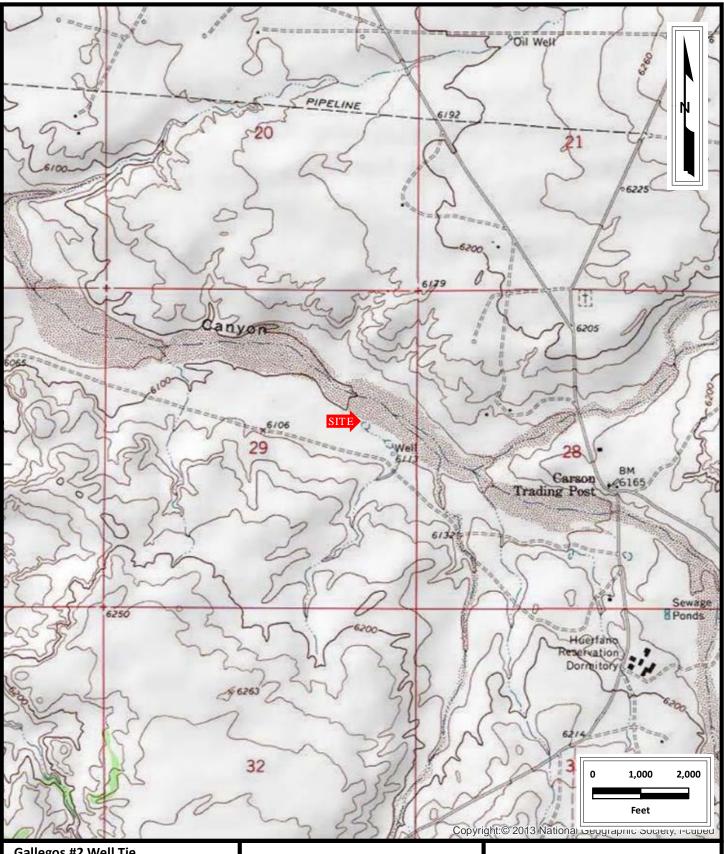
#### 9.0 PROJECT SCHEDULE

The completion of the proposed site investigation activities will require an estimated two (2) days for temporary monitoring well installation and development, one (1) day to sample the monitoring wells, and one (1) day to plug and abandon the temporary monitoring wells.



APPENDIX A

Figures

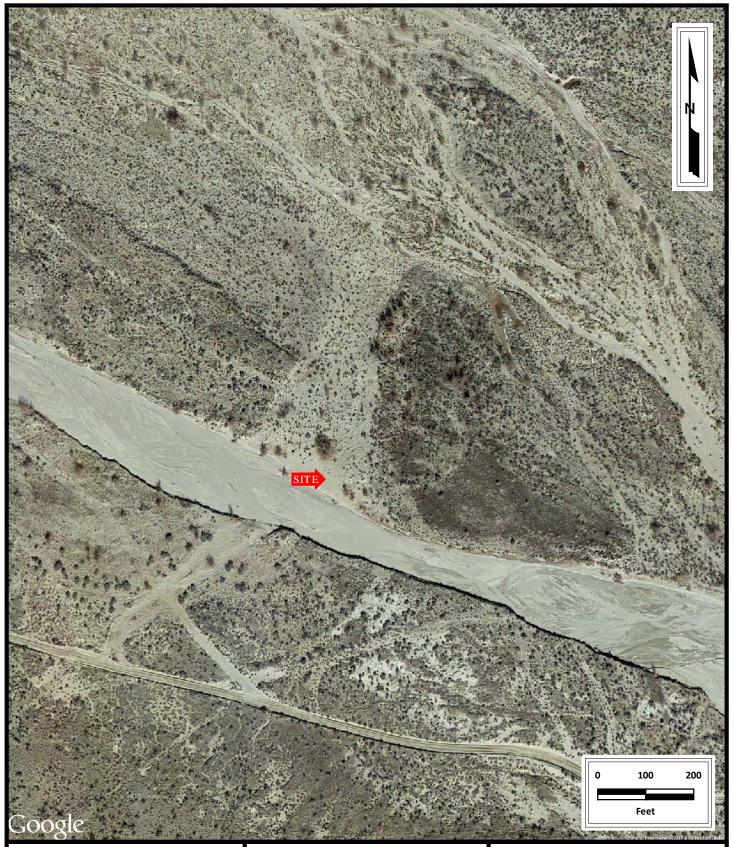


Gallegos #2 Well Tie Pipeline Release (9/18/2014) Rural San Juan County 36.46020N, 108.02147W NE ¼ Sec 29 T26N R11W



Apex TITAN, Inc. 606 S. Rio Grande, Suite A Aztec, New Mexico 87410 Phone: (505) 334-5200 www.apexcos.com A Subsidiary of Apex Companies, LLC FIGURE 1 Topographic Map Carson Trading Post, NM Quad. 1978

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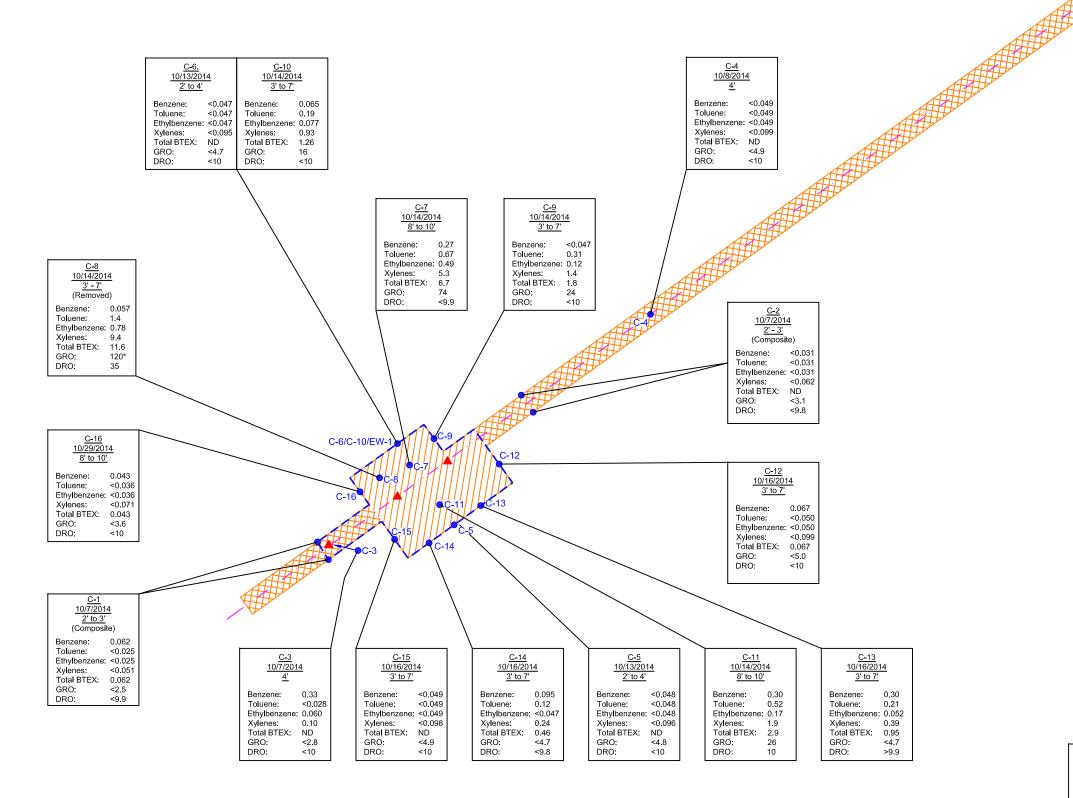


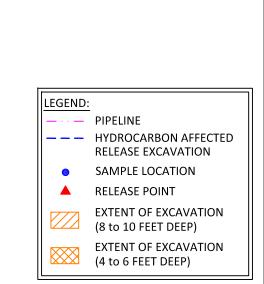
Gallegos #2 Well Tie Pipeline Release (9/18/2014) Rural San Juan County 36.46020N, 108.02147W NE ¼ Sec 29 T26N R11W



Apex TITAN, Inc. 606 S. Rio Grande, Suite A Aztec, New Mexico 87410 Phone: (505) 334-5200 www.apexcos.com A Subsidiary of Apex Companies, LLC FIGURE 2 Site Vicinity Map November 2013 Aerial Photograph Source: Google Earth

Apex Project # 7030414G035





#### NOTE: ALL VALUES ARE REPORTED IN mg/kg. \* EXCEEDS NMOCD ACTION LEVELS



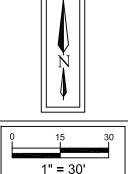
#### Apex TITAN, Inc.

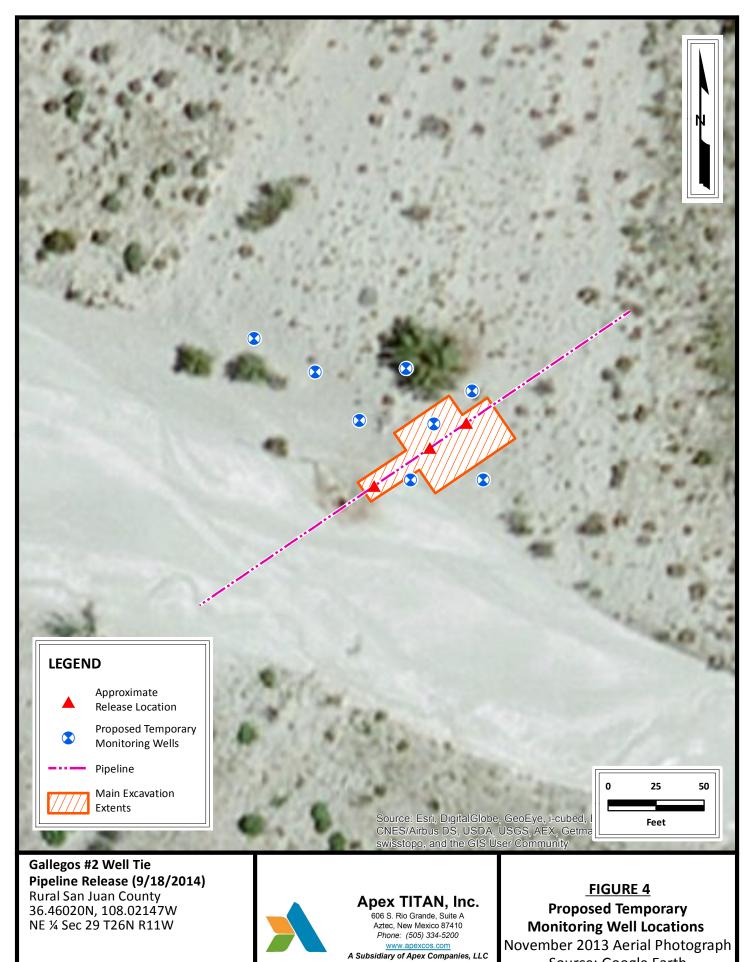
606 S. Rio Grande, Suite A Aztec, New Mexico 87410 Phone: (505) 334-5200 www.apexcos.com A Subsidiary of Apex Companies, LLC

Gallegos #2 Well Tie Pipeline Release (9/18/2014) Rural San Juan County 36.46020N, 108.02147W NE ¼ Sec 29 T26N R11W

Apex Project # 7030414G035

FIGURE 3 Site Map with Sample Locations





Apex Project # 7030414G035

Source: Google Earth



APPENDIX B

Executed C-138 Solid Waste Acceptance Forms District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

97057-0664

Form C-138 Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	
2. Originating Site: Gallegos #2 Well Tie Oct 2014	
3. Location of Material (Street Address, City, State or ULSTR): Unit Letter H Section 29 T 26N R 11W; 36.46020, -108.02147, San Juan County, NM	
<ul> <li>Source and Description of Waste:</li> <li>Source: Natural Gas Pipeline Release</li> <li>Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.</li> <li>Estimated Volume _ 50 (yd<sup>3</sup>) bbls Known Volume (to be entered by the operator at the end of the haul)</li></ul>	yd <sup>3</sup> bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
Thomas Long	
I, , representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby Generator Signature	
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection regulatory determination, the above described waste is: (Check the appropriate classification)	Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are no exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> Monthly Weekly Per Load	t mixed with non-
□ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 4 subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is not the appropriate items)	0 CFR, part 261
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide descrip	tion in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARM	
Jhow Jacy I, 10-7-14, representative for Enterprise Field Services, LLC. authorizes Envirotech, Inc. to complete Generator Signature	
the required testing/sign the Generator Waste Testing Certification.	
I, <u>Envirotech</u> do hereby certify that Representative/Agent Signature	
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content a have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NI of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Se 19.15.36 NMAC.	MAC. The results ection 15 of
5. Transporter: Various transporters on the OCD approved haulers list. Foutz + Busson, Moss, Fon	r States Paul + S
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011 Address of Facility: Hilltop, NM	
Method of Treatment and/or Disposal:	
Waste Acceptance Status:	s Permanent Record)
PRINT NAME: Gree Crabtree SIGNATURE: Surface Waste Management Facility Authorized Agent TITLE: Environmental Manager DAT Surface Waste Management Facility Authorized Agent 505-632-0615	E: 10/14/19
<u></u>	

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
2. Originating Site: Gallegos #2 Well Tie
3. Location of Material (Street Address, City, State or ULSTR): Unit Letter H Section 29 T 26N R 11W; 36.46020, -108.02147, San Juan County, NM
4. Source and Description of Waste:
Source: Natural Gas Pipeline Release
<b>Description:</b> Exempt petroleum affected soil from clean-up efforts at pipeline release. Estimated Volumeyd <sup>3</sup> bbls Known Volume (to be entered by the operator at the end of the haul) $\frac{565}{265}$ yd <sup>3</sup> / kbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
Jhann Lorg I, , representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <u>Monthly</u> <u>Weekty</u> <u>Per Load</u>
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
🔲 MSDS Information 🔲 RCRA Hazardous Waste Analysis 🖾 Process Knowledge 🔲 Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
<i>Thorm Long</i> I, 10-7-14, representative for authorize Basin Disposal, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.
I, do hereby certify that
Representative/Agent Signature
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Various transporters on the OCD approved haulers list.
OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Basin Disposal, Inc. * Permit #: NM1-005 Address of Facility: 200 Montana Bloomfield, NM
Method of Treatment and/or Disposal:
Waste Acceptance Status:
APPROVED       DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: J. M. Vollard J. TITLE: Land //S DATE: 1/24/17 SIGNATURE: Surface Waste Management Facility authorized Agent TITLE: 505-632-8936



APPENDIX C

Photographic Documentation



#### SITE PHOTOGRAPHS

#### Gallegos #2 Well Tie Pipeline

#### Photograph 1

View of the excavation facing northeast.



#### Photograph 2

View of the hydrocarbon affected release excavation facing southwest.



#### Photograph 3

View of the hydrocarbon affected release excavation facing east.





#### Photograph 4

View of the hydrocarbon affected release excavation facing northwest.





#### APPENDIX D

### Tables



## TABLE 1AGallegos #2 Well Tie Pipeline ReleaseSOIL ANALYTICAL SUMMARY - EXCAVATION CONFIRMATION SAMPLES

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)		
New Mexico Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level		10	NE	NE	NE	50	1(	00			
	Sample Removed by Excavation										
C-8	10/14/2014	3 to 7	0.057	1.4	0.78	9.4	11.6	120	35		
				Excavation Con	firmation Samples						
C-1	10/7/2014	2 to 3	0.062	<0.025	<0.025	<0.051	0.062	<2.5	<9.9		
C-2	10/7/2014	2 to 3	<0.031	<0.031	<0.031	<0.062	ND	<3.1	<9.8		
C-3	10/7/2014	4	0.33	<0.028	0.060	0.10	0.49	<2.8	<10		
C-4	10/8/2014	4	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10		
C-5	10/13/2014	2 to 4	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<10		
C-6	10/13/2014	2 to 4	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10		
C-7	10/14/2014	8 to 10	0.27	0.67	0.49	5.3	6.7	74	<9.9		
C-9	10/14/2014	3 to 7	<0.047	0.31	0.12	1.4	1.8	24	<10		
C-10	10/14/2014	3 to 7	0.065	0.19	0.077	0.93	1.26	16	<10		
C-11	10/14/2014	8 to 10	0.30	0.52	0.17	1.9	2.9	26	10		
C-12	10/16/2014	3 to 7	0.067	<0.050	<0.050	<0.099	0.067	<5.0	<10		
C-13	10/16/2014	3 to 7	0.30	0.21	0.052	0.39	0.95	<4.7	<9.9		
C-14	10/16/2014	3 to 7	0.095	0.12	<0.047	0.24	0.46	<4.7	<9.8		
C-15	10/16/2014	3 to 7	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10		
C-16	10/29/2014	8 to 10	0.043	<0.036	< 0.036	<0.071	0.043	<3.6	<10		

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

NE = Not Established

ND = Not Detected above Laboratory Reporting Limits



## TABLE 1B Gallegos #2 Well Tie Pipeline Release SOIL ANALYTICAL SUMMARY - STOCKPILE CONFIRMATION SAMPLES

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	TPH DRO	Chloride (mg/kg)
								(mg/kg)	(mg/kg)	
New Mexico Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	1	00	NE
				Stock	pile Confirmation S	amples				
SP-1	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	12
SP-2	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<9.9	9.2
SP-3	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.9	11
SP-4	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.097	ND	<4.9	<10	10
SP-5	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10	11
SP-6	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<9.9	7.2
SP-7	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.097	ND	<4.8	<10	12
SP-8	10/13/2014	Stockpile	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10	8.2
SP-9	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.8	5.5
SP-10	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.9	17
SP-11	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<9.9	8.0
SP-12	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	4.6

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

NE = Not Established

ND = Not Detected above Laboratory Reporting Limits



## TABLE 2AGallegos #2 Well Tie Pipeline ReleaseEXCAVATION WATER ANALYTICAL SUMMARY - BTEX

Sample I.D.	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)		
	er Quality Control ater Quality Standards	10	750	750	620		
Excavation Water Sample							
EW-1	10/16/2014	1,400	6,300	870	11,000		
Noto: Concentrations in	hold and vollow avgoad	the applicable WOCC	Croupdwater Quality S	tandards			

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

NE = Not Established

NA = Not Analyzed



## TABLE 2BGallegos #2 Well Tie Pipeline ReleaseEXCAVATION WATER ANALYTICAL SUMMARY - ANIONS

Sample I.D.	Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrogen, Nitrite (As N) (mg/L)	Bromide (mg/L)	Nitrogen, Nitrate (As N) (mg/L)	Phosphorus, Orthophosphate (As P) (mg/L)	Sulfate (mg/L)
New Mexico Water Quality Control Commision Groundwater Quality Standards		1.6	250*	NE	NE	10.0	NE	600*
Excavation Water Sample								
EW-1	10/16/2014	<0.50	94	<0.50	<0.50	<0.50	<2.5	<2.5

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

\*Standard for Domestic Water Supply

NE = Not Established

NA = Not Analyzed



#### TABLE 2C

#### Gallegos #2 Well Tie Pipeline Release EXCAVATION WATER ANALYTICAL SUMMARY - CATIONS

Sample I.D.	Date	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)			
New Mexico Wate Commision Groundwa	er Quality Control ater Quality Standards	NE	NE	NE	NE			
Excavation Water Sample								
EW-1	10/16/2014	100	34	22	580			

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

NE = Not Established

NA = Not Analyzed



APPENDIX E

Laboratory Data Reports & Chain-of-Custody Documentation



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

October 09, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410348

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/8/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1410348 Date Reported: 10/9/2014

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	APEX AZTEC	Client Sample ID: C-1	
<b>Project:</b>	Enterprise Gallegos #2	Collection Date: 10/7/2014 1:40:00 PI	М
Lab ID:	1410348-001	<b>Matrix:</b> MEOH (SOIL) <b>Received Date:</b> 10/8/2014 6:50:00 A	М

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/8/2014 9:31:09 AM	15769
Surr: DNOP	93.0	57.9-140	%REC	1	10/8/2014 9:31:09 AM	15769
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	2.5	mg/Kg	1	10/8/2014 10:35:49 AM	1 R21746
Surr: BFB	91.2	80-120	%REC	1	10/8/2014 10:35:49 AM	1 R21746
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	0.062	0.025	mg/Kg	1	10/8/2014 10:35:49 AM	1 R21746
Toluene	ND	0.025	mg/Kg	1	10/8/2014 10:35:49 AM	1 R21746
Ethylbenzene	ND	0.025	mg/Kg	1	10/8/2014 10:35:49 AM	1 R21746
Xylenes, Total	ND	0.051	mg/Kg	1	10/8/2014 10:35:49 AN	1 R21746
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	10/8/2014 10:35:49 AM	1 R21746

а. ation. Refer to the OC St le login checklist for fla d OC date ation info A

Refer to the G	2C Summary	y report and	sample log	gin checklist	for flagged (	2C data and	preservation	information

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits

- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 1 of 6

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** Lab Order 1410348 Date Reported: 10/9/2014

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC **Client Sample ID:** C-2 Collection Date: 10/7/2014 1:50:00 PM **Project:** Enterprise Gallegos #2 1410348-002 Matrix: MEOH (SOIL) Received Date: 10/8/2014 6:50:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/8/2014 10:00:51 AM	15769
Surr: DNOP	93.6	57.9-140	%REC	1	10/8/2014 10:00:51 AM	15769
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Surr: BFB	90.7	80-120	%REC	1	10/8/2014 11:04:27 AM	R21746
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.031	mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Toluene	ND	0.031	mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Ethylbenzene	ND	0.031	mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Xylenes, Total	ND	0.062	mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Surr: 4-Bromofluorobenzene	93.6	80-120	%REC	1	10/8/2014 11:04:27 AM	R21746

D.C. 000 • 11.46 tion. .1. 1 . 1. CI 1001 • :...f

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation in	itormation.
---	-------------

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 2 of 6

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** Lab Order 1410348 Date Reported: 10/9/2014

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC **Client Sample ID:** C-3 Collection Date: 10/7/2014 2:00:00 PM **Project:** Enterprise Gallegos #2 1410348-003 Matrix: MEOH (SOIL) Received Date: 10/8/2014 6:50:00 AM Lab ID:

Analyses	Result	KL Qu	al Units	Dr	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE				Analys	st: <b>JME</b>	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/8/2014 9:47:50 AM	15769
Surr: DNOP	77.7	57.9-140	%REC	1	10/8/2014 9:47:50 AM	15769
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	2.8	mg/Kg	1	10/8/2014 11:32:59 Al	M R21746
Surr: BFB	91.6	80-120	%REC	1	10/8/2014 11:32:59 Al	M R21746
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	0.33	0.028	mg/Kg	1	10/8/2014 11:32:59 Al	M R21746
Toluene	ND	0.028	mg/Kg	1	10/8/2014 11:32:59 Al	M R21746
Ethylbenzene	0.060	0.028	mg/Kg	1	10/8/2014 11:32:59 Al	M R21746
Xylenes, Total	0.10	0.056	mg/Kg	1	10/8/2014 11:32:59 Al	M R21746
Surr: 4-Bromofluorobenzene	94.5	80-120	%REC	1	10/8/2014 11:32:59 AI	M R21746

la login chaptelist for fl D.C tion. 100.1 • 

Р

B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded

Page 3 of 6

ND Not Detected at the Reporting Limit

Sample pH greater than 2. RL Reporting Detection Limit

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation in
---

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1410348
	09-Oct-14

Client:		AZTEC								
Project:	Enterp	rise Gallegos #2								
Sample ID	MB-15769	SampType: <b>M</b>	BLK	Tes	tCode: EP	A Method	8015D: Diese	l Range C	Organics	
Client ID:	PBS	Batch ID: 15	769	R	unNo: <b>21</b>	735				
Prep Date:	10/7/2014	Analysis Date: 1	0/8/2014	S	eqNo: 63	8274	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
5	Organics (DRO)	ND 10								
Surr: DNOP		8.0	10.00		80.2	57.9	140			
Sample ID	LCS-15769	SampType: LO	s	Tes	tCode: EP	A Method	8015D: Diese	l Range C	Organics	
Client ID:	LCSS	Batch ID: 15	769	R	unNo: <b>21</b>	735				
Prep Date:	10/7/2014	Analysis Date: 1	0/8/2014	S	eqNo: 63	8381	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	64 10	50.00	0	128	68.6	130			
Surr: DNOP		3.4	5.000		67.0	57.9	140			
Sample ID	MB-15738	SampType: <b>M</b>	BLK	Tes	tCode: EP	A Method	8015D: Diese	l Range C	Organics	
Client ID:	PBS	Batch ID: 15	738	R	tunNo: <b>21</b>	737				
Prep Date:	10/6/2014	Analysis Date: 1	0/8/2014	S	eqNo: 63	8953	Units: %REC	2		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.2	10.00		92.2	57.9	140			
Sample ID	LCS-15738	SampType: LO	s	Tes	tCode: EP	A Method	8015D: Diese	l Range C	Organics	
Client ID:	LCSS	Batch ID: 15	738	R	unNo: <b>21</b>	737				
Prep Date:	10/6/2014	Analysis Date: 1	0/8/2014	S	eqNo: 63	8954	Units: %REC	2		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5	5.000		89.1	57.9	140			

#### **Qualifiers:**

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

\_\_\_\_\_

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#:	1410348
	09-Oct-14

	AZTEC rise Gallegos	;#2								
Sample ID MB-15757 MK	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: <b>R2</b>	1746	746 RunNo: 21746						
Prep Date:	Analysis D	Date: 10	0/8/2014	S	SeqNo: 6	38774	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	80	120			
Sample ID LCS-15757 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	n ID: <b>R2</b>	1746	F	RunNo: <b>2</b>	1746				
Prep Date:	Analysis D	Date: 10	0/8/2014	S	SeqNo: 6	38775	Units: <b>mg/k</b>	٨g		
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	65.8	139			
Surr: BFB	990		1000		99.2	80	120			

#### Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	1410348
	09-Oct-14

	AZTEC ise Gallegos	s #2								
Sample ID MB-15757 MK	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: <b>R2</b>	1746	R	aunNo: 2	1746				
Prep Date:	Analysis D	Date: 10	0/8/2014	S	eqNo: 6	38804	Units: <b>mg/k</b>	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	80	120			
Sample ID LCS-15757 MK	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: <b>R2</b>	1746	R	lunNo: <b>2</b>	1746				
Prep Date:	Analysis D	Date: 10	0/8/2014	S	SeqNo: 6	38805	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.9	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Lurybonzono										
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			

#### **Qualifiers:**

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

09-Oct-14



#### 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:		Work Order Number:	14103	48		RcptNo:	1
Received by/da	te:	10 08/14			,		
Logged By:	Lindsay Mangin	10/8/2014 6:50:00 AM			finaley Hofigo		
Completed By:	Lindsay Mangin	10/8/2014 7:31:58 AM			Annaka Honor		
Reviewed By:		10/08/14			0.9.40		
Chain of Cus	stody	<u></u>		·			
	als intact on sample bot	tles?	Yes		No 🗌	Not Present 🛃	
2. Is Chain of	Custody complete?		Yes		No 🗌	Not Present 🗌	
3. How was th	e sample delivered?		<u>Cour</u>	ier			
<u>Log In</u>							
4. Was an att	empt made to cool the s	samples?	Yes		No 🗌	NA 🗌	
5. Were all sa	imples received at a ten	perature of >0° C to 6.0°C	Yes		No 🗆		
6. Sample(s)	in proper container(s)?		Yes		No 🗌		
7. Sufficient s	ample volume for indica	ted test(s)?	Yes		No 🗌		
8. Are sample	es (except VOA and ON	G) properly preserved?	Yes		No 🗌		
9. Was prese	rvative added to bottles?	?	Yes		No 🛃	NA 🗌	
10.VOA vials l	nave zero headspace?		Yes		No 🗌	No VOA Vials 🛃	
11. Were any	sample containers recei	ved broken?	Yes		No 🛃	# of preserved	/
12 Dees papa	rwork match bottle labe	62	Yes		No 🗌	bottles checked for pH:	
	epancies on chain of cu		103			(<2	or >12 unless noted)
13. Are matrice	es correctly identified on	Chain of Custody?	Yes		No 🗌	Adjusted?	
14. Is it clear w	/hat analyses were requ	ested?	Yes		No 🗌	Observed by:	
	olding times able to be n y customer for authoriza		Yes		No 🗌	Checked by:	
	-						
Special Han	dling (if applicabl	<u>e)</u>				_	
16. Was client	notified of all discrepan	cies with this order?	Yes		No	NA 🛃	
Pers	on Notified:	Date:					
By W	Vhom:	Via:	eM	ail 🗌	] Phone 🔲 Fax	In Person	
Rega	arding:						
Clier	nt Instructions:	· · · · · · · · · · · · · · · · · · ·			<u> </u>		
17. Additional	remarks:						
18. <u>Cooler In</u>	formation						
Cooler	No Temp °C Cond	many and the second states of the second states of the	Seal D	ate	Signed By		
	1.7 Good	Yes					
							· · · · · ·

CHAIN OF CUSTODY RECORD	Lab use only		Temp. of coolers								Lab Sample ID (Lab Use Only)	1410348-001	 -03					18×14	NOTES: Direct bill to Enterprise Field Services	Attn: 10m Long	W0 # 878637	Kaykey RBZ1200	0-01
	ANALYSIS / /	g Reauested / /			) 280	 		2 H.C 7 H.C 7 J			0/4	X X 1	<u> </u>					Sults My	A I BUS	Time:	Time:	Date: Time: Yayke	C - Charcoal tube SL - sludge C
		Laboratory: Hall Environmental	Address: Albuquerque, NM		Contact: ANdry Freeman	PO/SO #: Direct Bill to Enterprise	Sampler's Signature	Heithe M. Woods		305 # 2 MUCH KIT/4 02	of Sample(s) Start Start Depth A/G A/G A/G A/G A/G A/G A/G A/G	     					/	0 50% Rush X 100% Rush Samo Day -	<u>م</u> و	Received by: (Signature)	Received by: (Signature)	Time: Received by: (Signature) Do	L-Liquid A-Air Bag
			APEX	Office Location Aztec, NN		Project Manager Heather Woods F		Honther Woods	iject Name	25025 1115025	Date Time C G Identifying Marks of Sample(s)			0011 h1/E/0	SI F			Turn around time UNormal 25% Rush 05	(Signature) Date:	Date:	Date	Relinquished by (Signature) Date: Ti	Matrix WW - Wastewater W - Water S - Soil SD - Soild

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

October 20, 2014

Kyle Summers APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (903) 821-5603 FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410601

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Client Sample ID:** C-4 Collection Date: 10/8/2014 11:20:00 AM

Project:	Gallegos #2			Collection I	Date: 10,	/8/2014 11:20:00 A	М					
Lab ID:	1410601-001	Matrix:	SOIL	Received I	<b>Received Date:</b> 10/14/2014 7:00:00 AM							
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch					
EPA MET	THOD 8015D: DIESEL RAN	GE ORGANICS				Anal	yst: <b>JME</b>					
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	10/14/2014 12:15:40	) PM 15880					
Surr: I	DNOP	96.8	57.9-140	%REC	1	10/14/2014 12:15:40	) PM 15880					
EPA MET	THOD 8015D: GASOLINE R	ANGE				Anal	yst: <b>NSB</b>					
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 10:33:56	6 PM 15883					
Surr: I	BFB	91.1	80-120	%REC	1	10/15/2014 10:33:56	6 PM 15883					
EPA MET	THOD 8021B: VOLATILES					Anal	yst: <b>NSB</b>					
Benzene	9	ND	0.049	mg/Kg	1	10/15/2014 10:33:56	6 PM 15883					
Toluene		ND	0.049	mg/Kg	1	10/15/2014 10:33:56	6 PM 15883					
Ethylben	izene	ND	0.049	mg/Kg	1	10/15/2014 10:33:56	6 PM 15883					
Xylenes,	, Total	ND	0.099	mg/Kg	1	10/15/2014 10:33:56	6 PM 15883					
Surr: 4	4-Bromofluorobenzene	90.9	80-120	%REC	1	10/15/2014 10:33:56	6 PM 15883					

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

*	Value exceeds Maximum Contaminant Level.
Е	Value above quantitation range
J	Analyte detected below quantitation limits
0	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
	E J O R

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 4
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

	K AZTEC gos #2									
Sample ID MB-15880	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID: PBS	Batch	Batch ID: 15880			RunNo: <b>21866</b>					
Prep Date: 10/14/2014	Analysis D	Date: 10	0/14/2014	S	SeqNo: 64	43143	Units: <b>mg/k</b>	٨g		
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		96.2	57.9	140			
Sample ID LCS-15880	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID: LCSS	Batch	h ID: 15	880	F	RunNo: 2	1866				
Prep Date: 10/14/2014	Analysis D	Date: 10	0/14/2014	S	eqNo: 64	43147	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

#### **Qualifiers:**

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: APEX Project: Gallege	AZTEC os #2									
Sample ID MB-15883	SampT	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	Batch ID: 15883			RunNo: <b>21927</b>					
Prep Date: 10/14/2014	Analysis D	Date: 10	0/15/2014	S	SeqNo: 6	44456	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.2	80	120			
Sample ID LCS-15883	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	h ID: 15	883	F	RunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	0/15/2014	S	SeqNo: 6	44457	Units: mg/k	٢g		
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	65.8	139			
Surr: BFB	970		1000		96.6	80	120			

#### **Qualifiers:**

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

Hall Environmen	tal Anal	ysis L	Laborat	ory, Inc.						20-Oct-14
Client:APEXProject:Gallege	AZTEC os #2									
Sample ID MB-15883	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	n ID: 15	883	F	aunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	)/15/2014	S	eqNo: 6	44540	Units: <b>mg/ł</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			
Sample ID LCS-15883	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 15	883	F	RunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	)/15/2014	S	SeqNo: 6	44541	Units: mg/ł	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Р Sample pH greater than 2.
  - RL Reporting Detection Limit

WO#:

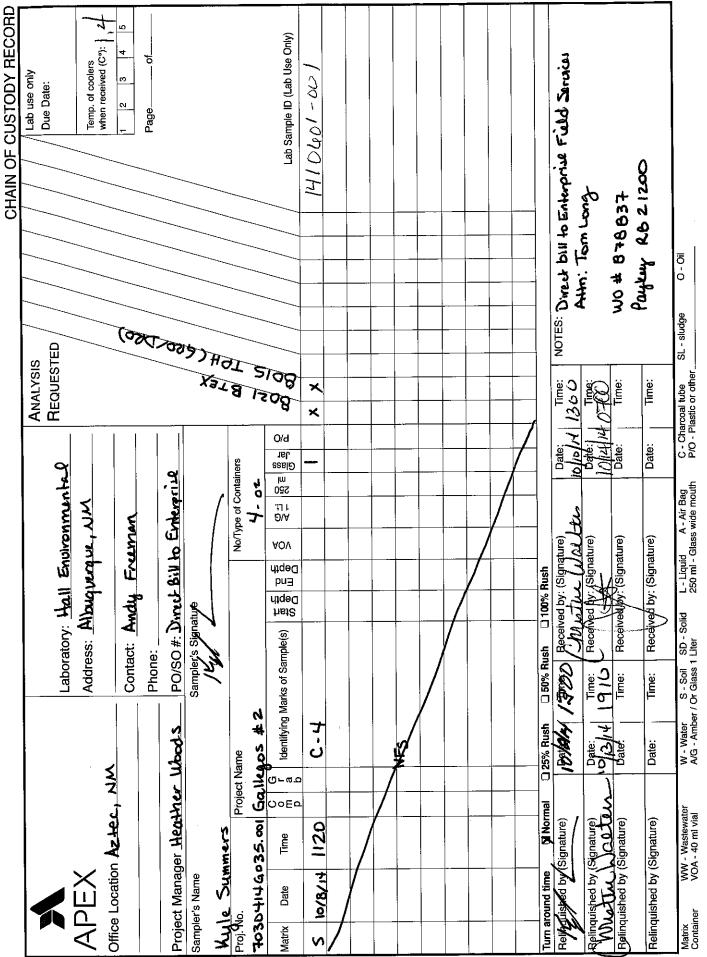
1410601

ENVIRONMENTAL	Hall Environmental Analysis Lab 4901 Hawl Albuquerque, NM TEL: 505-345-3975 FAX: 505-34 Website: www.hallenvironmen	tins NE 187105 Samp 15-4107	le Log-In Che	eck List
Client Name: APEX AZTEC Wo	rk Order Number: 1410601		RcptNo: 1	
Received by/date: LM 10/14	114			
Logged By: Michelle Garcia 10/14	/2014 7:00:00 AM	Mitrill Gone	in	
Completed By: Michelle Garcia 10/14	/2014 8:51:16 AM	Michelle Gone Micrelle Gone	in	
Reviewed By: (IS ) 0	14/14			
Chain of Custody	· · · · · · · · · · · · · · · · · · ·			
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🔽	No 🗌	Not Present 🗋	
3. How was the sample delivered?	Courier			·
<u>Log In</u>				
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 🗆		
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 pres	served? 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	
	Yes 🗹	No 🗆	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 💌			>12 unless noted)
13. Are matrices correctly identified on Chain of Custo	ody? 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 or	rder? Yes 🗌	No 🗆		
Person Notified:	Date:			
By Whom:	Via: eMail [	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions:		and the second second second second	e Mallandra a concerner a conferencia da 1	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			



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

October 20, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410602

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Project: Gallegos #2

**Client Sample ID:** C-5 Collection Date: 10/13/2014 3:36:00 PM

Lab ID: 1410602-001	Matrix:	SOIL	Received 1	Date: 10/14/2014 7:00:00 AM	
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			Analyst:	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 10/15/2014 5:30:02 PM	15880
Surr: DNOP	102	57.9-140	%REC	1 10/15/2014 5:30:02 PM	15880
EPA METHOD 8015D: GASOLINE RA	NGE			Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 10/15/2014 11:02:31 PM	15883
Surr: BFB	92.2	80-120	%REC	1 10/15/2014 11:02:31 PN	15883
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene	ND	0.048	mg/Kg	1 10/15/2014 11:02:31 PM	15883
Toluene	ND	0.048	mg/Kg	1 10/15/2014 11:02:31 PN	15883
Ethylbenzene	ND	0.048	mg/Kg	1 10/15/2014 11:02:31 PN	15883
Xylenes, Total	ND	0.096	mg/Kg	1 10/15/2014 11:02:31 PN	15883
Surr: 4-Bromofluorobenzene	93.8	80-120	%REC	1 10/15/2014 11:02:31 PN	15883

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

Page 1 of 5

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

Client Sample ID: C-6 Collection Date: 10/13/2014 3:40:00 PM

Lab ID: 1410602-002	Matrix:	SOIL	Received Date: 10/14/2014 7:00:00 AM						
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analy	st: <b>JME</b>			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 6:01:07 F	M 15880			
Surr: DNOP	96.9	57.9-140	%REC	1	10/15/2014 6:01:07 P	M 15880			
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/15/2014 11:31:01	PM 15883			
Surr: BFB	91.1	80-120	%REC	1	10/15/2014 11:31:01	PM 15883			
EPA METHOD 8021B: VOLATILES					Analy	st: NSB			
Benzene	ND	0.047	mg/Kg	1	10/15/2014 11:31:01	PM 15883			
Toluene	ND	0.047	mg/Kg	1	10/15/2014 11:31:01	PM 15883			
Ethylbenzene	ND	0.047	mg/Kg	1	10/15/2014 11:31:01	PM 15883			
Xylenes, Total	ND	0.095	mg/Kg	1	10/15/2014 11:31:01	PM 15883			
Surr: 4-Bromofluorobenzene	93.0	80-120	%REC	1	10/15/2014 11:31:01	PM 15883			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated

- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- d Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Page 2 of 5
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

	K AZTEC gos #2									
Sample ID MB-15880	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID: PBS	Batch ID: 15880			RunNo: 21866						
Prep Date: 10/14/2014	Analysis D	ate: 10	0/14/2014	S	SeqNo: 64	43143	Units: <b>mg/k</b>	٢g		
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		96.2	57.9	140			
Sample ID LCS-15880	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID: LCSS	Batch	ID: 15	880	F	RunNo: 2	1866				
Prep Date: 10/14/2014	Analysis D	ate: 10	0/14/2014	S	eqNo: 64	43147	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

#### **Qualifiers:**

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: APEX Project: Galleg	AZTEC gos #2									
Sample ID MB-15883	83 SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batcl	h ID: 15	883	RunNo: 21927						
Prep Date: 10/14/2014	Analysis D	Date: 10	0/15/2014	SeqNo: 644456 U			Units: <b>mg/k</b>	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	900		1000		90.2	80	120			
Sample ID LCS-15883	SampT	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batcl	h ID: 15	883	F	RunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	0/15/2014	S	SeqNo: 6	44457	Units: <b>mg/k</b>	٢g		
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	65.8	139			
Surr: BFB	970		1000		96.6	80	120			

#### Qualifiers:

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

-

Hall Environmen	all Environmental Analysis Laboratory, Inc. 20									20-Oct-14
Client:APEXProject:Gallege	AZTEC os #2									
Sample ID MB-15883	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	Batch ID: 15883			aunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	)/15/2014	S	eqNo: 6	44540	Units: <b>mg/ł</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			
Sample ID LCS-15883	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 15	883	F	RunNo: 2	1927				
Prep Date: 10/14/2014	Analysis D	Date: 10	)/15/2014	S	SeqNo: 6	44541	Units: mg/ł	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Р Sample pH greater than 2.
  - RL Reporting Detection Limit

Page 5 of 5

1410602

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-39	al Analysis Labor 4901 Hawkin Ibuquerque, NM 8 75 FAX: 505-345- hallenvironmental	7105 <b>Sam</b> 4107	Sample Log-In Check List			
Client Name: APEX AZTEC	Work Order Numbe	er: 1410602		RcptNo: 1			
Received by/date:	10/14/14	<b></b>					
Logged By: Michelle Garcia	10/14/2014 7:00:00 /	AM	Mirillo Ga Mirillo Ga	nun			
Completed By: Michelle Garcia	10/14/2014 9:01:21 /	۹M	Minul Ga	nun			
Reviewed By:	10/14/14						
Chain of Custody	,						
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present			
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present			
3. How was the sample delivered?		Courier					
<ul><li>4. Was an attempt made to cool the sample</li><li>5. Were all samples received at a temperatu</li><li>6. Sample(s) in proper container(s)?</li></ul>		Yes ✔ Yes ✔ Yes ✔	No 🗌 No 🗌	NA 🗌			
7. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	No 🗌				
8. Are samples (except VOA and ONG) prop		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 bro	oken?	Yes 🗆	No 🗹	# of preserved bottles checked			
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	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:			

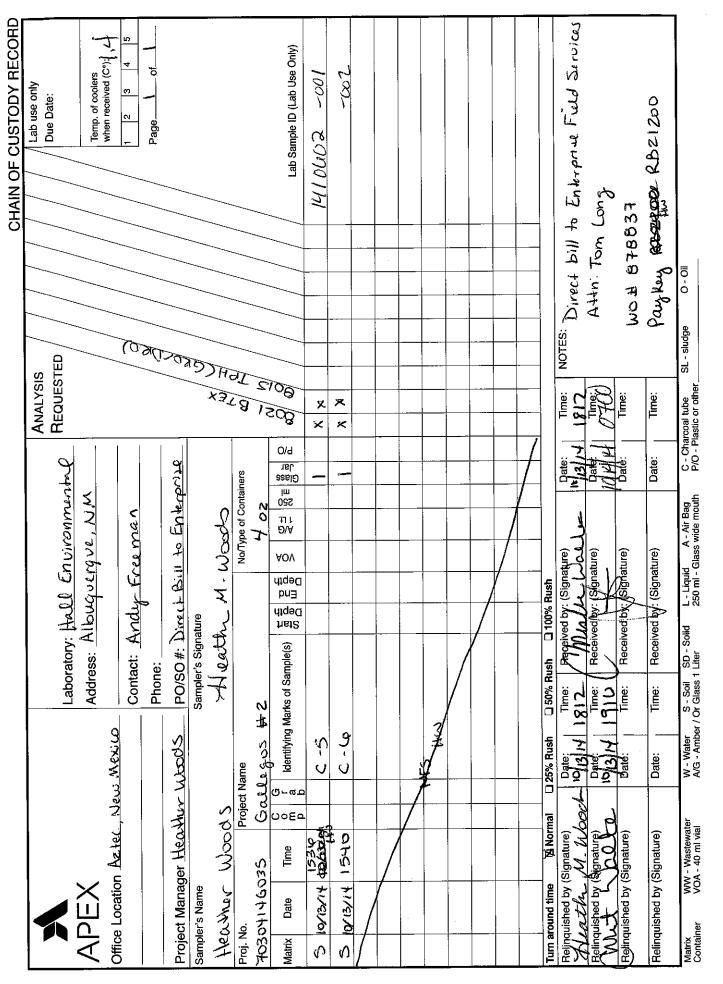
### Special Handling (if applicable)

client notified of all discrepancies				
Person Notified:	Date:			
By Whom:	Via: 🗌 eMail 🗌	] Phone 🔄 Fax 🗌 I	In Person	
Regarding:		t and the second s	a filia al ata anna fail ai arte anna da Ri	
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			



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 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

October 20, 2014

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

OrderNo.: 1410690

RE: Enterprise Gallegos #2

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/15/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1410690

Date Reported: 10/20/2014

<ul><li>CLIENT: Enterprise Field Services</li><li>Project: Enterprise Gallegos #2</li><li>Lab ID: 1410690-001</li></ul>	Client Sample ID: C-7 Collection Date: 10/14/2014 4:00:00 PM Matrix: SOIL Received Date: 10/15/2014 7:30:00 AM							
Analyses	Result		Qual	Units		Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analy	/st: BCN	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/16/2014 10:35:30	AM 15914	
Surr: DNOP	98.2	57.9-140		%REC	1	10/16/2014 10:35:30	AM 15914	
EPA METHOD 8015D: GASOLINE RAM	NGE					Analy	/st: NSB	
Gasoline Range Organics (GRO)	74	4.7		mg/Kg	1	10/16/2014 7:15:36 F	PM 15913	
Surr: BFB	342	80-120	S	%REC	1	10/16/2014 7:15:36 F	PM 15913	
EPA METHOD 8021B: VOLATILES						Analy	/st: NSB	
Benzene	0.27	0.047		mg/Kg	1	10/16/2014 7:15:36 F	PM 15913	
Toluene	0.67	0.047		mg/Kg	1	10/16/2014 7:15:36 F	PM 15913	
Ethylbenzene	0.49	0.047		mg/Kg	1	10/16/2014 7:15:36 F	PM 15913	
Xylenes, Total	5.3	0.094		mg/Kg	1	10/16/2014 7:15:36 F	PM 15913	
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	1	10/16/2014 7:15:36 F	PM 15913	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte det
	Е	Value above quantitation range	Н	Holding tin

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- etected in the associated Method Blank
- imes for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 8
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1410690

Date Reported: 10/20/2014

<ul><li>CLIENT: Enterprise Field Services</li><li>Project: Enterprise Gallegos #2</li><li>Lab ID: 1410690-002</li></ul>	Client Sample ID: C-8           Collection Date: 10/14/2014 4:05:00 PM           Matrix: SOIL         Received Date: 10/15/2014 7:30:00 AM							
Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analy	rst: BCN	
Diesel Range Organics (DRO)	35	10		mg/Kg	1	10/16/2014 12:07:29	PM 15914	
Surr: DNOP	93.9	63.5-128		%REC	1	10/16/2014 12:07:29	PM 15914	
EPA METHOD 8015D: GASOLINE RAN	GE					Analy	st: NSB	
Gasoline Range Organics (GRO)	120	4.7		mg/Kg	1	10/16/2014 7:44:10 F	PM 15913	
Surr: BFB	621	80-120	S	%REC	1	10/16/2014 7:44:10 F	PM 15913	
EPA METHOD 8021B: VOLATILES						Analy	st: NSB	
Benzene	0.057	0.047		mg/Kg	1	10/16/2014 7:44:10 F	PM 15913	
Toluene	1.4	0.047		mg/Kg	1	10/16/2014 7:44:10 F	PM 15913	
Ethylbenzene	0.78	0.047		mg/Kg	1	10/16/2014 7:44:10 F	PM 15913	
Xylenes, Total	9.4	0.095		mg/Kg	1	10/16/2014 7:44:10 F	PM 15913	
Surr: 4-Bromofluorobenzene	139	80-120	S	%REC	1	10/16/2014 7:44:10 F	PM 15913	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detect
	Е	Value above quantitation range	Н	Holding times
	_			

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- cted in the associated Method Blank
- es for preparation or analysis exceeded

Page 2 of 8

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1410690 Date Reported: 10/20/2014

<b>CLIENT:</b> Enterprise Field Services <b>Project:</b> Enterprise Gallegos #2	Client Sample ID: C-9 Collection Date: 10/14/2014 4:10:00 PM							
Lab ID: 1410690-003	Matrix: SOIL			<b>Received</b>	Date: 10	/15/2014 7:30:00 AN	Ν	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	E ORGANICS					Analy	/st: BCN	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/16/2014 12:38:18	PM 15914	
Surr: DNOP	101	63.5-128		%REC	1	10/16/2014 12:38:18	PM 15914	
EPA METHOD 8015D: GASOLINE RAI	NGE					Analy	/st: NSB	
Gasoline Range Organics (GRO)	24	4.7		mg/Kg	1	10/16/2014 8:12:42 F	PM 15913	
Surr: BFB	157	80-120	S	%REC	1	10/16/2014 8:12:42	PM 15913	
EPA METHOD 8021B: VOLATILES						Analy	/st: NSB	
Benzene	ND	0.047		mg/Kg	1	10/16/2014 8:12:42 F	PM 15913	
Toluene	0.31	0.047		mg/Kg	1	10/16/2014 8:12:42 F	PM 15913	
Ethylbenzene	0.12	0.047		mg/Kg	1	10/16/2014 8:12:42	PM 15913	
Xylenes, Total	1.4	0.094		mg/Kg	1	10/16/2014 8:12:42	PM 15913	
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/16/2014 8:12:42 F	PM 15913	

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

	2C Summar	y report and	i sample login	I CHECKHST IOI	naggeu QC	uata and preser	vation miorma

evel.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

**Qualifiers:** 

- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 3 of 8
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services

**Project:** Enterprise Gallegos #2

Client Sample ID: C-10 Collection Date: 10/14/2014 4:15:00 PM

Lab ID: 1410690-004	Matrix:	SOIL		Received I	Date: 10/	/15/2014 7:30:00 AM	[
Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analys	st: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/16/2014 1:09:08 PI	M 15914
Surr: DNOP	103	63.5-128		%REC	1	10/16/2014 1:09:08 PI	M 15914
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	st: NSB
Gasoline Range Organics (GRO)	16	4.7		mg/Kg	1	10/16/2014 3:26:55 PI	M 15913
Surr: BFB	159	80-120	S	%REC	1	10/16/2014 3:26:55 PI	M 15913
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	0.065	0.047		mg/Kg	1	10/16/2014 3:26:55 PI	M 15913
Toluene	0.19	0.047		mg/Kg	1	10/16/2014 3:26:55 Pl	M 15913
Ethylbenzene	0.077	0.047		mg/Kg	1	10/16/2014 3:26:55 Pl	M 15913
Xylenes, Total	0.93	0.094		mg/Kg	1	10/16/2014 3:26:55 PI	M 15913
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	10/16/2014 3:26:55 PI	M 15913

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 Metho

- \* Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н

Page 4 of 8

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Enterprise Field Services

**Project:** Enterprise Gallegos #2

Client Sample ID: C-11 Collection Date: 10/14/2014 4:35:00 PM

Lab ID: 1410690-005	Matrix:	SOIL	Received	<b>d Date:</b> 10/15/2014 7:30:00 AM	
Analyses	Result	RL (	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			Analyst	BCN
Diesel Range Organics (DRO)	10	10	mg/Kg	1 10/16/2014 1:40:13 PM	15914
Surr: DNOP	87.0	63.5-128	%REC	1 10/16/2014 1:40:13 PM	15914
EPA METHOD 8015D: GASOLINE RAM	NGE			Analyst	NSB
Gasoline Range Organics (GRO)	26	4.7	mg/Kg	1 10/16/2014 8:41:15 PM	15913
Surr: BFB	186	80-120	S %REC	1 10/16/2014 8:41:15 PM	15913
EPA METHOD 8021B: VOLATILES				Analyst	NSB
Benzene	0.30	0.047	mg/Kg	1 10/16/2014 8:41:15 PM	15913
Toluene	0.52	0.047	mg/Kg	1 10/16/2014 8:41:15 PM	15913
Ethylbenzene	0.17	0.047	mg/Kg	1 10/16/2014 8:41:15 PM	15913
Xylenes, Total	1.9	0.094	mg/Kg	1 10/16/2014 8:41:15 PM	15913
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1 10/16/2014 8:41:15 PM	15913

n.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation in	formation.
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 5 of 8

- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Project:	1	e Field Serv e Gallegos <del>i</del>									
Sample ID	MB-15914	SampTy	pe: <b>M</b>	BLK	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch	ID: 15	5914	F	RunNo: 2	1946				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 64	45102	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 9.2	10	10.00		91.8	57.9	140			
Sample ID	LCS-15914	SampTy	pe: <b>L(</b>	cs	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch	ID: 15	5914	F	RunNo: 2	1946				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 64	45103	Units: <b>mg/H</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	51	10		0	102	68.6	130			
Surr: DNOP		4.3		5.000		86.5	57.9	140			
Sample ID	1410690-001AMS	SampTy	pe: <b>M</b>	S	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	C-7	Batch	ID: 15	5914	F	RunNo: 2	1946				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 64	45105	Units: <b>mg/</b> #	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	54	9.8	49.16	0	110	40.1	152			
Surr: DNOP		4.7		4.916		95.8	57.9	140			
Sample ID	1410690-001AMS	D SampTy	pe: <b>M</b>	SD	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	C-7	Batch	ID: 15	5914	F	RunNo: 2	1946				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 64	45175	Units: <b>mg/H</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	48	10	50.20	0	96.5	40.1	152	10.6	32.1	
0	5 ( )										

#### **Qualifiers:**

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

Page 6 of 8

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	1	e Field Ser e Gallegos									
Sample ID	MB-15913	SampT	/pe: <b>MI</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 15	913	F	RunNo: 2	1955				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 6	45490	Units: <b>mg/H</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 900	5.0	1000		89.8	80	120			
Sample ID	LCS-15913	SampTy	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 15	913	F	RunNo: 2	1955				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 6	45491	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	je Organics (GRO)	25	5.0	25.00	0	99.6	65.8	139			
Surr: BFB		1000		1000		99.9	80	120			
Sample ID	1410690-002AMS	SampTy	/pe: <b>M</b> \$	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	C-8	Batch	ID: 15	913	F	RunNo: 2	1955				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 6	45499	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	80	4.7	23.70	119.1	-164	71.8	132			S
Surr: BFB		3500		947.9		374	80	120			S
Sample ID	1410690-002AMS	D SampTy	/pe: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	C-8	Batch	ID: 15	913	F	RunNo: 2	1955				
Prep Date:	10/15/2014	Analysis Da	ate: 1	0/16/2014	S	SeqNo: 6	45500	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	96	4.7	23.72	119.1	-99.2	71.8	132	17.5	20	S
Surr: BFB		4200		948.8		446	80	120	0	0	S

#### **Qualifiers:**

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

QC SUMMARY REPORT	
Hall Environmental Analysis Laboratory, Inc	с.

Client: Project:	Enterprise Enterprise										
Sample ID MB-	15913	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	6	Batch	ID: 15	913	R	unNo: 2	1955				
Prep Date: 10/	/15/2014	Analysis D	ate: 10	0/16/2014	S	eqNo: 6	45532	Units: <b>mg/k</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bromofluor	robenzene	0.93		1.000		92.6	80	120			
Sample ID LCS	5-15913	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCS	S	Batch	ID: 15	913	R	unNo: 2	1955				
Prep Date: 10/	/15/2014	Analysis D	ate: 10	0/16/2014	S	eqNo: 6	45533	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.050	1.000	0	96.7	80	120			
Toluene		0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene		0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluor	obenzene	1.0		1.000		99.7	80	120			
Sample ID 1410	0690-001AMS	SampT	уре: <b>МS</b>	6	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: C-7		Batch	ID: 15	913	R	RunNo: <b>21955</b>					
Prep Date: 10/	/15/2014	Analysis D	ate: 10	0/16/2014	S	eqNo: 6	45547	Units: <b>mg/k</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.047	0.9390	0.2709	85.3	77.4	142			
Toluene		1.0	0.047	0.9390	0.6699	40.2	77	132			S
Ethylbenzene		1.0	0.047	0.9390	0.4918	57.1	77.6	134			S
Xylenes, Total		3.7	0.094	2.817	5.269	-56.2	77.4	132			S
Surr: 4-Bromofluor	obenzene	0.98		0.9390		104	80	120			
Sample ID 1410	0690-001AMSD	SampT	ype: <b>MS</b>	SD	Tes	Code: El	PA Method	8021B: Vola	tiles		
Client ID: C-7		Batch	ID: 15	913	R	tunNo: 2	1955				
Prep Date: 10/	/15/2014	Analysis D	ate: 10	0/16/2014	S	eqNo: 6	45548	Units: mg/k	ίg		

Qualif	iers:		
*	Value exceeds Maximum Contaminant Level	В	Δn

Result

1.0

1.1

1.0

4.0

0.99

PQL

0.047

0.047

0.047

0.094

SPK value SPK Ref Val

0.2709

0.6699

0.4918

5.269

0.9390

0.9390

0.9390

2.817

0.9390

- \* Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded

LowLimit

77.4

77.6

77.4

80

77

HighLimit

142

132

134

132

120

ND Not Detected at the Reporting Limit

%REC

81.4

41.4

58.9

-46.1

106

- Р Sample pH greater than 2.
- Reporting Detection Limit RL

Page 8 of 8

%RPD

3.46

1.11

1.68

7.45

0

RPDLimit

20

20

20

20

0

Qual

S

S

S

	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 Numb	er: 1410690		RcptNo: 1	
Received by/date: AT 10/15/	14	· <u> </u>			
Logged By: Anne Thorne	10/15/2014 7:30:00	AM ·	ame Am	~	
Completed By: Anne Thorne	10/15/2014		anne Im	1	
Reviewed By:	10/15/14		and from		
Chain of Custody	·····				
1. Custody seals intact on sample bottle	s?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
3 How was the sample delivered?		<u>Courier</u>			
Log In					
4. Was an attempt made to cool the sar	nples?	Yes 🗹	No 🗌		
5. Were all samples received at a tempe	erature 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	l broken?	<sub>Yes</sub> □	No 🗹	# of procession	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custo	4.0	Yes 🔽	No 🗔	# of preserved bottles checked for pH:	12 unless noted
13. Are matrices correctly identified on Ch		Yes 🔽	No 🗆	Adjusted?	rz uniess noteu;
14. Is it clear what analyses were request	-	Yes 🗹	No 🗌		
15. Were all holding times able to be met (If no, notify customer for authorization	?	Yes 🗹	No 🗌	Checked by:	<u> </u>

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:	a menor service service a second description of a description and second additional service service service serv	a da se cara da mante da la da se cara da cara	and the second statement and state of the second	4*** 4.1 × 1
Client Instructions:				

17. Additional remarks:

#### 18. Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

2 	ain-(	ot-Cu	Chain-of-Custody Record	ו עווו-אוטעונע ו זוווכ.	Ū.				I	HALI	1		RO	ENVIRONMENTA		Ę	AL	
	nterpr	and su	Enterprise Field Sculles	x Standard	🗆 Rush_					NA	ANALYSIS LABORATORY	SI		BO	RA		RY	۶.
	-			Project Name:					>	h.ww	www.hallenvironmental.com	ronme	ental.c	шo				
Mailing A	ddress:	שוא צו	Mailing Address: wty Reilly Aue	Enkonie	Gallaci	#2	4	4901 Hawkins NE	awkir	IS NE	- Alb	uanbr	que, N	Albuquerque, NM 87109	109			
Favm	ins for	2	1 87401	Project'#:			1	Tel. 505-345-3975	5-34	5-3975		Fax 50	5-345	505-345-4107				
Phone #:	( 50 50 50	() 4 1	Phone #: (505) 716 - 2787	70304146035	G035	ŧ					Analysis		Request	it				
email or Fax#:	ax#:			Project Manager:	jer:				-									
QA/QC Package:	ckage:			, , ,	-					(5	1-		sar					
K Standard	Ird		Level 4 (Full Validation)	Heither	Wooles					MIS			) d 7					
Accreditation	tion			Sampler: Hruinh	Wir Was	des No			(1.81				7000 / 1	(∀				VIN P
🗆 EDD (Type)	[ype]			Sample Temperature:	erature:				4 d									· ^/
Date		Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 141014QÛ	BTEX + ME	TPH 8015B	odteM) H9T	EDB (Metho	RCRA 8 Me	O, T) snoinA	8081 Pestici 8260B (VO∕	-im92) 0728	<del></del>			<u></u>
N/H/01	ممماا	انمح	C-7	1-402	1	102-	×	×									_	<u> </u>
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Date: Ti ID//4//~ \	0	Relinquished by:	ad by: the M. WOOOP	Received by: Mutur	Waller	Date Time 10/11/14 1850	Remarks Direct bill to Entrovix Full Services	ks'D'	NCF	bill	4	in tr	juling	J.	70	Sru	[20 ((	
	Time: []		nished by: Mutteel Oulder	Received by:	malle	Dåte Time X/S/14 J30												
l' l' lí ne	cessary, (si	amples subr	lall Em	ontracted to other ac	credited laboratories	s. This serves as notice of this	possibility	. Any sı	lb-contri	acted da	a will be	clearly n	otated o	in the an	alytical	report.		



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

October 21, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410855

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/17/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Enterprise Gallegos #2

**Client Sample ID:** C-12 Collection Date: 10/16/2014 11:35:00 AM

Lab ID: 1410855-001	Matrix:	SOIL	<b>Received</b>	Date: 10/17/2014 8:15:00 AM	
Analyses	Result	RL Qu	al Units	DF Date Analyzed Bat	tch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			Analyst: BC	:N
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 10/20/2014 12:25:40 PM 159	958
Surr: DNOP	98.5	63.5-128	%REC	1 10/20/2014 12:25:40 PM 159	958
EPA METHOD 8015D: GASOLINE RA	ANGE			Analyst: <b>NS</b>	в
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 10/20/2014 4:22:44 PM 159	966
Surr: BFB	91.8	80-120	%REC	1 10/20/2014 4:22:44 PM 159	966
EPA METHOD 8021B: VOLATILES				Analyst: <b>NS</b>	в
Benzene	0.067	0.050	mg/Kg	1 10/20/2014 4:22:44 PM 159	966
Toluene	ND	0.050	mg/Kg	1 10/20/2014 4:22:44 PM 159	966
Ethylbenzene	ND	0.050	mg/Kg	1 10/20/2014 4:22:44 PM 159	966
Xylenes, Total	ND	0.099	mg/Kg	1 10/20/2014 4:22:44 PM 159	966
Surr: 4-Bromofluorobenzene	94.8	80-120	%REC	1 10/20/2014 4:22:44 PM 159	966

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	Ο	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
  - Not Detected at the Reporting Limit Page 1 of 7
- Р Sample pH greater than 2.

ND

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Enterprise Gallegos #2

Client Sample ID: C-13 Collection Date: 10/16/2014 11:40:00 AM

Lab ID: 1410855-002	Matrix:	SOIL	Received 1	Date: 10/	/17/2014 8:15:00 AM	1
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/20/2014 2:27:34 P	M 15958
Surr: DNOP	98.9	63.5-128	%REC	1	10/20/2014 2:27:34 P	M 15958
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2014 5:48:42 P	M 15966
Surr: BFB	92.2	80-120	%REC	1	10/20/2014 5:48:42 P	M 15966
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	0.30	0.047	mg/Kg	1	10/20/2014 5:48:42 P	M 15966
Toluene	0.21	0.047	mg/Kg	1	10/20/2014 5:48:42 P	M 15966
Ethylbenzene	0.052	0.047	mg/Kg	1	10/20/2014 5:48:42 P	M 15966
Xylenes, Total	0.39	0.095	mg/Kg	1	10/20/2014 5:48:42 P	M 15966
Surr: 4-Bromofluorobenzene	96.1	80-120	%REC	1	10/20/2014 5:48:42 P	M 15966

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation inform
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- Spike Recovery outside accepted recovery limits S
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2 of 7
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Enterprise Gallegos #2

**Client Sample ID:** C-14 Collection Date: 10/16/2014 11:45:00 AM

Lab ID: 1410855-003	Matrix:	SOIL	Received I	Date: 10/17	//2014 8:15:00 AM	
Analyses	Result	RL Qu	al Units	DF D	ate Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 1	0/20/2014 2:58:19 PM	15958
Surr: DNOP	103	63.5-128	%REC	1 1	0/20/2014 2:58:19 PM	15958
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 1	0/20/2014 2:56:49 PM	15966
Surr: BFB	92.0	80-120	%REC	1 1	0/20/2014 2:56:49 PM	15966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	0.095	0.047	mg/Kg	1 1	0/20/2014 2:56:49 PM	15966
Toluene	0.12	0.047	mg/Kg	1 1	0/20/2014 2:56:49 PM	15966
Ethylbenzene	ND	0.047	mg/Kg	1 1	0/20/2014 2:56:49 PM	15966
Xylenes, Total	0.24	0.095	mg/Kg	1 1	0/20/2014 2:56:49 PM	15966
Surr: 4-Bromofluorobenzene	95.6	80-120	%REC	1 1	0/20/2014 2:56:49 PM	15966

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation info	rmation
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	-	<b>** * * * *</b>

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit Page 3 of 7
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Client Sample ID:** C-15 Collection Date: 10/16/2014 11:50:00 AM

<b>Project:</b>	Enterprise Gallegos #2			Collection 1	Date: 10/	/16/2014 11:50:00 AM	
Lab ID:	1410855-004	Matrix:	SOIL	<b>Received</b>	Date: 10/	/17/2014 8:15:00 AM	
Analyses		Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS Analysi						BCN	
Diesel Range Organics (DRO)		ND	10	mg/Kg	1	10/20/2014 3:28:47 PM	15958
Surr: DNOP		102	63.5-128	%REC	1	10/20/2014 3:28:47 PM	15958
EPA MET	THOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)		ND	4.9	mg/Kg	1	10/20/2014 3:54:00 PM	15966
Surr: BFB		89.7	80-120	%REC	1	10/20/2014 3:54:00 PM	15966
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.049	mg/Kg	1	10/20/2014 3:54:00 PM	15966
Toluene		ND	0.049	mg/Kg	1	10/20/2014 3:54:00 PM	15966
Ethylben	izene	ND	0.049	mg/Kg	1	10/20/2014 3:54:00 PM	15966
Xylenes,	Total	ND	0.098	mg/Kg	1	10/20/2014 3:54:00 PM	15966
Surr: 4-Bromofluorobenzene		92.2	80-120	%REC	1	10/20/2014 3:54:00 PM	15966

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	
	Е	Value above quantitation range	
	J	Analyte detected below quantitation limits	
	0	RSD is greater than RSDlimit	
	R	RPD outside accepted recovery limits	
	S	Spike Recovery outside accepted recovery limits	

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 7
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#:	1410855
	21-Oct-14

	PEX AZTEC terprise Gallegos #2								
Sample ID MB-15958 Client ID: PBS	SampType: Batch ID:			tCode: EF RunNo: 22		8015D: Diese	el Range C	Drganics	
Prep Date: 10/17/201	4 Analysis Date:	10/20/2014	SeqNo: 647196			Units: mg/Kg			
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRC Surr: DNOP	) ND 8.5	10 10.00		84.7	63.5	128			
Sample ID LCS-15958	SampType:	LCS	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
Client ID: LCSS	Batch ID:	15958	RunNo: <b>22014</b>						
Prep Date: 10/17/201	4 Analysis Date:	10/20/2014	SeqNo: 647197			Units: <b>mg/K</b>	٤g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRC	) 43	10 50.00	0	86.9	68.6	130			
Surr: DNOP	3.7	5.000		73.5	63.5	128			

### Qualifiers:

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

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#:	1410855
	21-Oct-14

	AZTEC ise Gallegos									
Sample ID MB-15966	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	ID: 15	966	F	RunNo: 2	2027				
Prep Date: 10/17/2014	Analysis Da	ate: 10	)/20/2014	SeqNo: 647476			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.3	80	120			
Sample ID LCS-15966	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	ID: 15	966	F	tunNo: 2	2027				
Prep Date: 10/17/2014	Analysis Da	ate: 10	)/20/2014	SeqNo: 647477			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	93.7	65.8	139			
Surr: BFB	1000		1000		99.6	80	120			

### **Qualifiers:**

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

Page 6 of 7

Client: Project:         APEX AZTEC Enterprise Gallegos #2           Sample ID         MB-15966         SampType:         MBLK         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         PBS         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         Seq Roy No:         647489         Units:         mg/Kg           Analysis         Result         POL         SPK value         SPK value         SPK value         SPK         Volatiles         Low Limit         HighLimit         % RPD         RPDLimit         Qual           Banzane         ND         0.050         Systems         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCS15866         SampType:         LCS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCS15866         SampType:         LCS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCS15866         SampType:         LCS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         LCS15866         SampType:         MS         TestCode:         EPA Me	-	JMMARY				ory, Inc.					WO#:	1410855 21-Oct-14
Project:         Entreprise Gallegos #2           Sample ID         MB-15966         SampType:         MBL         TestCode:         EPA Method         B021B:         Volatiles           Client ID:         PBS         Batch ID:         15966         RunNo:         20207           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647/489         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLinit         HighLinit         %RPD         RPDLinit         Qual           Bintrine         ND         0.050         EstCode:         EPA Method 80218: Volatiles         Volatiles         Volatiles           Sample ID         LCS-15966         SampType:         LCS         TestCode:         EPA Method 80218: Volatiles           Prep Date:         10/17/2014         Analysis         Batch ID:         15566         RunNo:         22027           Prep Date:         10/17/2014         Analysis         Date:         10/20/2014         SeqNo:         647490         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         Lo	Client:	ΑΡΕΧ ΑΖ	ZTEC									
Client ID:       PBS       Batch ID:       1956       RunNo:       2207         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647483       Units:       mg/g         Analyte       Result       PCL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzane       ND       0.050       Strand       Strand <tdt< th=""><th>Project:</th><th></th><th>-</th><th>s #2</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tdt<>	Project:		-	s #2								
Prep Date:10/17/2014Analysis Date:10/20/2014SeqNo:6474.89Units:Units:mg/KgAnalyteND0.050ND0.0510.041 <td>Sample ID</td> <td>MB-15966</td> <td>Samp</td> <td>Туре: МЕ</td> <td>BLK</td> <td>Tes</td> <td>tCode: E</td> <td>PA Method</td> <td>8021B: Vola</td> <td>tiles</td> <td></td> <td></td>	Sample ID	MB-15966	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.050         Italuene         ND         0.050         Italuene         ND         0.050           Stephdenzene         ND         0.10         95.3         80         120         Italuene	Client ID:	PBS	Batc	h ID: 15	966	F	RunNo: 2	2027				
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         ND         0.050         Italuene         ND         0.050         Italuene         ND         0.050           Stephdenzene         ND         0.10         95.3         80         120         Italuene	Prep Date:	10/17/2014	Analysis [	Date: 10	)/20/2014	S	SeqNo: 6	47489	Units: ma/ł	۲q		
Barzene         ND         0.050           Toluene         ND         0.050           Toluene         ND         0.050           Kylenes, Total         ND         0.050           Sample ID         LCS         TestCode:         EA Method 8021B: Volatiles           Client ID:         LCS         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647490         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK value         SPK value         SPK         80         120           Toluene         0.90         0.050         1.000         0         89.9         80         120           Engrene         0.90         0.050         1.000         0         92.5         80         120           Sumple ID         1410855-001AMS         SampType: MS         TestCode:         EPA Method 8021B: Volatiles           Client ID:         C-12         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analyte         Result         POL         SPK value         SPK Ref Val	•						•		-	-	RPDI imit	Qual
Client ID:       LCSS       Batch ID:       1596       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647490       Units:       mg/s         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.90       0.050       1.000       0       89.9       80       120       100 </td <td>Benzene Toluene Ethylbenzene Xylenes, Total</td> <td>ofluorobenzene</td> <td>ND ND ND ND</td> <td>0.050 0.050 0.050</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Benzene Toluene Ethylbenzene Xylenes, Total	ofluorobenzene	ND ND ND ND	0.050 0.050 0.050		<u> </u>						
Client ID:       LCSS       Batch ID:       1596       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647490       Units:       mg/s         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.90       0.050       1.000       0       89.9       80       120       100 </td <td>Comple ID</td> <td>1.00.45000</td> <td>Comp<sup>-</sup></td> <td></td> <td></td> <td>Tao</td> <td>tCodor E</td> <td></td> <td>0004D, Vala</td> <td>41100</td> <td></td> <td></td>	Comple ID	1.00.45000	Comp <sup>-</sup>			Tao	tCodor E		0004D, Vala	41100		
Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647490       Units:       mg/kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.90       0.050       1.000       0       89.7       80       120       Envidence       0.90       0.95       1.000       0       93.4       80       120       Envidence       10       3.000       0       92.5       80       120       Envidence       10       1.000       101       80       120       Envidence       10       101       101       80       120       Envidence       10       101 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="6"></td></td<>												
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.90         0.050         1.000         0         89.7         80         120           Toluene         0.90         0.050         1.000         0         89.9         80         120           Ethylbenzene         0.93         0.050         1.000         0         93.4         80         120           Surr 4.870mofluorobenzene         1.0         3.000         0         92.5         80         120 <td></td> <td></td> <td></td> <td>-</td> <td></td> <td colspan="5"></td> <td></td> <td></td>				-								
Benzene         0.90         0.050         1.000         0         89.7         80         120           Toluene         0.90         0.050         1.000         0         89.9         80         120           Ethylbenzene         0.93         0.050         1.000         0         93.4         80         120           Sample ID         1410855-001AMS         SampType:         MS         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         C-12         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647498         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.86         0.050         0.9921         0.0123         84.1         77.4         142           Toluene         0.85         0.050         0.9921         0.0123         84.1         77.6         134           Xylenes, Total         2.6         0.0991         0.9053         80.120         120 <td>·</td> <td>10/11/2014</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td>Qual</td>	·	10/11/2014							•	•		Qual
Toluene       0.90       0.050       1.000       0       89.9       80       120         Ethylbenzene       0.93       0.050       1.000       0       93.4       80       120         Syntees, Total       2.8       0.10       3.000       0       92.5       80       120         Sum: 4.Bromofluorobenzene       1.0       1.000       0       92.5       80       120         Sample ID       1410855-001AMS       SampType:       ItestCode:       EPA Method 8021B:       Volatiles         Client ID:       C-12       Batch ID:       1596       RunNo:       22027         Prep Date:       10/17/2014       Analyts       PQL       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.86       0.050       0.9921       0.01429       80.8       77       132       14000000000000000000000000000000000000										%RPD	RPDLimit	Qual
Ethylbenzene       0.93       0.050       1.000       0       93.4       80       120         Xylenes, Total       2.8       0.10       3.000       0       92.5       80       120         Surr: 4-Bromofluorobenzene       1.0       1.000       101       80       120         Sample ID       1410855-001AMS       SampType:       N       TestCode:       EV Method       120         Client ID:       C-12       Batch ID:       1596       RunNo:       2207       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.86       0.050       0.9921       0.01239       84.1       77.6       132       132       132       132       132       132       132       132       132       134       132       132       134       132       132       134       132       134       132       134       132       134       132       134       132       134       132       134       132       134       132       134       132       134       132       134       134												
Xylenes, Total       2.8       0.10       3.000       0       92.5       80       120         Sum: 4-Bromofluorobenzene       1.0       1.000       101       80       120         Sample ID       1410855-001AMS       SampType: MS       TestCode: EPA Method 8021B: Volatiles         Client ID:       C-12       Batch ID:       15966       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.86       0.050       0.9921       0.06660       79.6       77.4       142         Toluene       0.82       0.050       0.9921       0.01429       80.8       77       132         Ehylbenzene       0.85       0.099       2.976       0.03534       84.5       77.4       132         Sur: 4-Bromofluorobenzene       0.99       0.9921       0.91239       89.5       80       120         Sample ID       1410855-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles       Volatiles         Client ID:       C-12       Batch ID:       15966       RunNo:       2027         P												
Surr. 4-Bromofluorobenzene         1.0         101         80         120           Sample ID         1410855-001AMS         SampType:         MS         TestCode:         EPA Method         8021B:         Volatiles           Client ID:         C-12         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647498         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Kef Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.86         0.050         0.9921         0.01429         80.8         77         132         Ehylbenzene         0.85         0.050         0.9921         0.01239         84.1         77.6         134         Free Soute         Fr	,					-						
Client ID:       C-12       Bath       I:       1596       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647498       Units:       mg/kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.86       0.050       0.9921       0.06660       79.6       77.4       142       142       142       142       142       142       142       142       142       1410855       14.000       0.82       0.050       0.9921       0.01239       84.1       77.6       132       14108	<b>y</b>	ofluorobenzene				-						
Client ID:       C-12       Batch ID:       15966       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647498       Units:       mg/kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPD Limit       Qual         Benzene       0.86       0.050       0.9921       0.06660       79.6       77.4       142       142       142       141085       14108	Sample ID	1410855-001AMS	Samp	Туре: М	6	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.86         0.050         0.9921         0.06660         79.6         77.4         142           Toluene         0.82         0.050         0.9921         0.01429         80.8         77         132           Ethylbenzene         0.85         0.050         0.9921         0.01239         84.1         77.6         134           Xylenes, Total         2.6         0.099         2.976         0.03534         84.5         77.4         132           Surr: 4-Bromofluorobenzene         0.99         0.9921         99.5         80         120           Sample ID         1410855-001AMSD         SampType: MSD         TestCode: EPA Method 8021B: Volatiles           Client ID:         C-12         Batch ID: 15966         RunNo: 22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo: 647499         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit <td< td=""><td>•</td><td></td><td></td><td>•••</td><td></td><td colspan="5"></td><td></td></td<>	•			•••								
Benzene       0.86       0.050       0.9921       0.06660       79.6       77.4       142         Toluene       0.82       0.050       0.9921       0.01429       80.8       77       132         Ethylbenzene       0.85       0.050       0.9921       0.01239       84.1       77.6       134         Xylenes, Total       2.6       0.099       2.976       0.03534       84.5       77.4       132         Surr: 4-Bromofluorobenzene       0.99       0.9921       99.5       80       120       120         Sample ID       1410855-001AMSD       SampType:       MSD       TestCode:       EPA Method 8021B:       Volatiles         Client ID:       C-12       Batch ID:       15966       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647499       Units:       mg/kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.01429       77.4       77       132       4.16       20         Toluene	Prep Date:	10/17/2014	Analysis [	Date: 10	)/20/2014							
Toluene       0.82       0.050       0.9921       0.01429       80.8       77       132         Ethylbenzene       0.85       0.050       0.9921       0.01239       84.1       77.6       134         Xylenes, Total       2.6       0.099       2.976       0.03534       84.5       77.4       132         Surr: 4-Bromofluorobenzene       0.99       0.9921       0.03534       84.5       77.4       132         Sample ID       1410855-001AMSD       SampType: MSD       TestCode:       EPA Method 8021B: Volatiles       Volatiles         Client ID:       C-12       Batch       ID:       1596       EunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647499       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.01429       77.4       77.4       142       2.27       20         Toluene       0.78       0.050       0.9930       0.01239       79.8       77.6       134       5.10       20 <td>Analyte</td> <td></td> <td>Result</td> <td>PQL</td> <td>SPK value</td> <td>SPK Ref Val</td> <td>%REC</td> <td>LowLimit</td> <td>HighLimit</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene       0.85       0.050       0.9921       0.01239       84.1       77.6       134         Xylenes, Total       2.6       0.099       2.976       0.03534       84.5       77.4       132         Surri 4-Bromofluorobenzene       0.99       0.9921       0.9921       99.5       80       120         Sample ID       1410855-001AMSD       SampType:       MSU       TestCode:       EPA Method S21B:       Volatiles         Client ID:       C-12       Batch ID:       1596       RunNo:       22027       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.01239       77.4       77       132       4.16       20         Toluene       0.80       0.050       0.9930       0.01239       79.8       77.6       134       5.10       20         Xylenes, Total       2.4       0.09       2.979       0.03534       80.2       77.4       132       5.08       20	Benzene		0.86	0.050	0.9921	0.06660	79.6	77.4	142			
Xylenes, Total       2.6       0.099       2.976       0.03534       84.5       77.4       132         Surr: 4-Bromofluorobenzene       0.99       0.9921       99.5       80       120         Sample ID       1410855-001AMSD       SampType: MSD       TestCode: EPA Method 8021B: Volatiles         Client ID:       C-12       Batch ID: 15966       RunNo: 22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo: 647499       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.01429       77.4       77       132       4.16       20         Toluene       0.80       0.050       0.9930       0.01239       79.8       77.6       134       5.10       20         Xylenes, Total       2.4       0.099       2.979       0.03534       80.2       77.4       132       5.08       20	Toluene		0.82	0.050	0.9921	0.01429	80.8	77	132			
Surr: 4-Bromofluorobenzene         0.99         0.9921         99.5         80         120           Sample ID         1410855-001AMSD         SampType:         MSJ         TestCode:         EPA Method 8021B:         Volatiles           Client ID:         C-12         Batch ID:         15966         RunNo:         22027           Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647499         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.84         0.050         0.9930         0.01429         77.4         77         132         4.16         20           Toluene         0.80         0.050         0.9930         0.01239         79.8         77.6         134         5.10         20           Xylenes, Total         2.4         0.099         2.979         0.03534         80.2         77.4         132         5.08         20	Ethylbenzene		0.85	0.050	0.9921	0.01239	84.1	77.6	134			
Sample ID       1410855-001AMSD       SampType: MSD       TestCode:       EPA Method 8021B: Volatiles         Client ID:       C-12       Batch ID:       15966       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647499       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.06660       77.6       77.4       142       2.27       20         Toluene       0.78       0.050       0.9930       0.01429       77.4       77       132       4.16       20         Ethylbenzene       0.80       0.050       0.9930       0.01239       79.8       77.6       134       5.10       20         Xylenes, Total       2.4       0.099       2.979       0.03534       80.2       77.4       132       5.08       20	Xylenes, Total		2.6	0.099	2.976	0.03534	84.5	77.4	132			
Client ID:       C-12       Batch ID:       1596       RunNo:       22027         Prep Date:       10/17/2014       Analysis Date:       10/20/2014       SeqNo:       647499       Units:       mg/Kg       Qual         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Benzene       0.84       0.050       0.9930       0.06660       77.6       77.4       142       2.27       20         Toluene       0.78       0.050       0.9930       0.01429       77.4       77.4       132       4.16       20         Ethylbenzene       0.80       0.050       0.9930       0.01239       79.8       77.6       134       5.10       20         Kylenes, Total       2.4       0.09       2.979       0.03534       80.2       77.4       132       5.08       20	Surr: 4-Brom	ofluorobenzene	0.99		0.9921		99.5	80	120			
Prep Date:         10/17/2014         Analysis Date:         10/20/2014         SeqNo:         647499         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.84         0.050         0.9930         0.06660         77.6         77.4         142         2.27         20           Toluene         0.78         0.050         0.9930         0.01429         77.4         77         132         4.16         20           Ethylbenzene         0.80         0.050         0.9930         0.01239         79.8         77.6         134         5.10         20           Xylenes, Total         2.4         0.099         2.979         0.03534         80.2         77.4         132         5.08         20	Sample ID	1410855-001AMSI	D Samp	Туре: М	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.84         0.050         0.9930         0.06660         77.6         77.4         142         2.27         20           Toluene         0.78         0.050         0.9930         0.01429         77.4         77         132         4.16         20           Ethylbenzene         0.80         0.050         0.9930         0.01239         79.8         77.6         134         5.10         20           Xylenes, Total         2.4         0.099         2.979         0.03534         80.2         77.4         132         5.08         20	Client ID:	C-12	Batc	h ID: 15	966	F	RunNo: 2	2027				
Benzene         0.84         0.050         0.9930         0.06660         77.6         77.4         142         2.27         20           Toluene         0.78         0.050         0.9930         0.01429         77.4         77         132         4.16         20           Ethylbenzene         0.80         0.050         0.9930         0.01239         79.8         77.6         134         5.10         20           Xylenes, Total         2.4         0.099         2.979         0.03534         80.2         77.4         132         5.08         20	Prep Date:	10/17/2014	Analysis [	Date: 10	0/20/2014	S	SeqNo: 6	47499	Units: mg/ł	٢g		
Toluene0.780.0500.99300.0142977.4771324.1620Ethylbenzene0.800.0500.99300.0123979.877.61345.1020Xylenes, Total2.40.0992.9790.0353480.277.41325.0820	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene0.800.0500.99300.0123979.877.61345.1020Xylenes, Total2.40.0992.9790.0353480.277.41325.0820	Benzene		0.84	0.050	0.9930	0.06660	77.6	77.4	142	2.27	20	
Xylenes, Total         2.4         0.099         2.979         0.03534         80.2         77.4         132         5.08         20	Toluene		0.78	0.050	0.9930	0.01429	77.4	77	132	4.16	20	
	Ethylbenzene		0.80	0.050	0.9930	0.01239	79.8	77.6	134	5.10	20	
Surr: 4-Bromofluorobenzene         0.99         0.9930         99.6         80         120         0         0	Xylenes, Total		2.4	0.099	2.979	0.03534	80.2	77.4	132	5.08	20	
	Surr: 4-Brom	ofluorobenzene	0.99		0.9930		99.6	80	120	0	0	

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

Page 7 of 7

Client Name:       APEX AZTEC       Work Order Number:         Received by/date:		Mitritte Gon Mitritte Gon No    No    No	RcptNo: 1	
Logged By:       Michelle Garcia       10/17/2014 8:15:00 AM         Completed By:       Michelle Garcia       10/17/2014 10:51:24 AI         Reviewed By:       (S)       10/17/2014 10:51:24 AI         Chain of Custody       10/17/2014 10:51:24 AI         1. Custody seals intact on sample bottles?         2. Is Chain of Custody complete?         3. How was the sample delivered?         Log In	M Yes ☐ Yes ✔ Yes ¥	No [] No [] No []	Not Present ☑ Not Present □	
Completed By: Michelle Garcia 10/17/2014 10:51:24 Al Reviewed By: <u>(S)</u> 10/17/14 Chain of Custody 1, Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In	M Yes ☐ Yes ✔ Yes ¥	No [] No [] No []	Not Present ☑ Not Present □	
Reviewed By: <u>(S)</u> 10/17/14/ <u>Chain of Custody</u> 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? <u>Log In</u>	Yes ☐ Yes ☑ <u>Courier</u> Yes ☑	No [] No [] No []	Not Present ☑ Not Present □	
Reviewed By:       CS       10/17/14         Chain of Custody       1. Custody seals intact on sample bottles?         2. Is Chain of Custody complete?       3. How was the sample delivered?         Log In       1.	Yes ✔ Courier Yes ✔	No [] No [] No []	Not Present ☑ Not Present □	
<ul> <li>Chain of Custody</li> <li>1. Custody seals intact on sample bottles?</li> <li>2. Is Chain of Custody complete?</li> <li>3. How was the sample delivered?</li> </ul>	Yes ✔ Courier Yes ✔	No 🗌	Not Present	
<ol> <li>Custody seals intact on sample bottles?</li> <li>Is Chain of Custody complete?</li> <li>How was the sample delivered?</li> </ol>	Yes ✔ Courier Yes ✔	No 🗌	Not Present	
<ul> <li>2. Is Chain of Custody complete?</li> <li>3. How was the sample delivered?</li> </ul>	<u>Courier</u> Yes ☑	No 🗌		
Log In	Yes 🗹	_	_	
	_	_	_	
4. Was an attempt made to cool the samples?	_	_	_	
· · · · · · · · · · · · · · · · · · ·	Yes 🔽	No 🗌		
5. Were all samples received at a temperature of >0° C to 6.0°C				
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	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH: (<2 or 3	>12 unless noted
(Note discrepancies on chain of custody) 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:	
<u>Special Handling (if applicable)</u>				
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:				

	1			Lab use only Due Date:
	Laboratory: Hall Environmentel Address: <u>Albuquergue, NJA</u>			coolers
Office Location Aztec, N.M	Contact: Andry Freeman			when received (C <sup>3</sup> ); $\mathcal{O}_{1}\mathcal{H}$
	Phone: (505)345 - 3975		Page	l of l
Project Manager Heathur Woods	PO/SO #: Direct bill to Enterprise			
	Sampler's Signature			
	Heath M. Woods	2 H. X3		
Project Name		28 28		
uprise Gall	1-02 #2 4-02	/s//2		
C G I G Identifying Marks of Sample(s)	Start Depth End AOV	0/d	Compare the second s	ab Use Only)
C-12		××	5580141	- 06)
C - 13		×		- 002
C - 14		××		- 003
C-15		×		- 001
Ĭ				
2 E	tic.			
hst	2	/		
<u> </u>		H 0815	NOTES: Direct bill to Enterprise rield Services	Jices
Date:	Time: Received by: (Signature) Date:		WO # B78837	
Date:	Time: Received by: (Signature) Date:	e: Time:	Paytery RB21200	
Date:	Time: Received by: (Signature) Date:	e: Time:		
			2	

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

October 31, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410D39

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1410D39 Date Reported: 10/31/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

Client Sample ID: C-16 Collection Date: 10/29/2014 10:30:00 AM

Lab ID: 1410D39-001	Matrix:	SOIL	Received 1	Date: 10/30/2014 7:15:00 AM	
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 10/30/2014 9:25:58 AM	/ 16162
Surr: DNOP	94.7	63.5-128	%REC	1 10/30/2014 9:25:58 AM	/ 16162
EPA METHOD 8015D: GASOLINE R	ANGE			Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1 10/30/2014 10:35:00 A	M R22237
Surr: BFB	90.9	80-120	%REC	1 10/30/2014 10:35:00 A	M R22237
EPA METHOD 8021B: VOLATILES				Analys	t: NSB
Benzene	0.043	0.036	mg/Kg	1 10/30/2014 10:35:00 A	M R22237
Toluene	ND	0.036	mg/Kg	1 10/30/2014 10:35:00 A	M R22237
Ethylbenzene	ND	0.036	mg/Kg	1 10/30/2014 10:35:00 A	M R22237
Xylenes, Total	ND	0.071	mg/Kg	1 10/30/2014 10:35:00 A	M R22237
Surr: 4-Bromofluorobenzene	94.3	80-120	%REC	1 10/30/2014 10:35:00 A	M R22237

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

Refer to the	QC Dummar	y report and	sumple login en	lookiist for nuggod	QC dutu una	

*	Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

**Qualifiers:** 

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
  - Not Detected at the Reporting Limit Page 1 of 4
- P Sample pH greater than 2.

ND

RL Reporting Detection Limit

	K AZTEC gos #2									
Sample ID LCS-16162	SampType: L	cs	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics		
Client ID: LCSS	Batch ID: 1	6162	R	unNo: 22	2228					
Prep Date: 10/30/2014	Analysis Date: 1	0/30/2014	S	eqNo: 6	54885	Units: <b>mg/k</b>	ng/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48 10	50.00	0	96.1	68.6	130				
Surr: DNOP	4.0	5.000		79.5	63.5	128				
Sample ID MB-16162	SampType: <b>M</b>	BLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics		
Client ID: PBS	Batch ID: 1	6162	R	unNo: 22	22228					
Prep Date: 10/30/2014	Analysis Date:	0/30/2014	S	eqNo: 6	54909	Units: mg/K	ģ			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND 10									
Surr: DNOP	8.8	10.00		87.8	63.5	128				

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

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:	APEX A	ZTEC										
Project:	Gallegos	#2										
Sample ID	MB-16141 MK	SampTy	/pe: <b>M</b>	BLK	Tes	tCode: E	PA Method	8015D: Gasc	line Rang	e		
Client ID:	PBS	Batch	ID: <b>R2</b>	2237	F	RunNo: 2	2237					
Prep Date:		Analysis Da	ate: 10	0/30/2014	5	SeqNo: 6	55593	Units: <b>mg/K</b>	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 890	5.0	1000		89.1	80	120				
Sample ID	LCS-16141 MK	SampTy	/pe: <b>LC</b>	s	Tes	tCode: E	PA Method	8015D: Gasc	line Rang	e		
Client ID:	LCSS	Batch	ID: <b>R2</b>	2237	F	RunNo: 2	2237					
Prep Date:		Analysis Da	ate: 10	0/30/2014	S	SeqNo: 6	55594	Units: mg/K	ģ			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	e Organics (GRO)	26	5.0	25.00	0	103	65.8	139				
Surr: BFB		980		1000		98.1	80	120				
Sample ID	MB-16141	SampTy	/pe: <b>M</b>	BLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch	ID: 16	141	F	RunNo: 2	2237					
Prep Date:	10/29/2014	Analysis Da	ate: 10	0/30/2014	S	eqNo: 6	55604	Units: %RE	с			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		890		1000		89.1	80	120				
Sample ID	LCS-16141	SampTy	/pe: <b>LC</b>	s	Tes	tCode: E	PA Method	A Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch	ID: 16	141	F	RunNo: 2	2237					
Prep Date:	10/29/2014	Analysis Da	ate: 10	0/30/2014	S	eqNo: 6	55605	Units: %RE	с			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		980		1000		98.1	80	120				

#### **Qualifiers:**

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

Page 3 of 4

Hall Env	ironment	al Anal	ysis l	Laborat	ory, Inc.						31-Oct
Client: Project:	APEX A Gallegos										
Sample ID MI	B-16141 MK	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PE	BS	Batch	h ID: R2	2237	F	RunNo: 2	2237				
Prep Date:		Analysis D	Date: 10	0/30/2014	S	SeqNo: 6	55628	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050					0			
oluene		ND	0.050								
Ethylbenzene		ND	0.050								
(ylenes, Total		ND	0.10								
Surr: 4-Bromoflu	uorobenzene	0.93		1.000		92.8	80	120			
Sample ID LC	CS-16141 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LC	CSS	Batch	h ID: R2	2237	F	RunNo: 2	2237				
Prep Date:		Analysis D	Date: 10	0/30/2014	S	SeqNo: 6	55629	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.050	1.000	0	98.6	80	120			
oluene		0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene		1.0	0.050	1.000	0	101	80	120			
(ylenes, Total		3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromoflu	uorobenzene	0.97		1.000		97.1	80	120			
Sample ID MI	B-16141	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PE	BS	Batch	h ID: 16	141	F	RunNo: 2	2237				
Prep Date: 1	0/29/2014	Analysis D	Date: 10	0/30/2014	S	SeqNo: 6	55634	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromoflu	uorobenzene	0.93		1.000		92.8	80	120			
Sample ID LC	CS-16141	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LC	CSS	Batch	h ID: 16	141	F	RunNo: 2	2237				
Prep Date: 1	0/29/2014	Analysis D	Date: 10	0/30/2014	S	SeqNo: 6	55635	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromoflu	uorobenzene	0.97		1.000		97.1	80	120			

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

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

Page 4 of 4

HALL
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 Wor	k Order Number: 1410D39		RcptNo: 1
Received by/date: 10/30/1	9		
Logged By: Anne Thorne 10/20/	2014 7:15:00 AM	anne Arm	~
Completed By: Anne Thorne 10/30/	2014	anne Ann	~
Reviewed By: 10/3	alva	0,,,,,,, <i>j</i> ,,, =,-	-
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 🗌	
5. Were all samples received at a temperature of $>0^{\circ}$	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 prese	erved? 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
12. Does paperwork match bottle labels?	Yes 🗹	No 🗌	for pH:
(Note discrepancies on chain of custody)	_		(<2 or >12 unless note
13. Are matrices correctly identified on Chain of Custod	ly? Yes 🗹	No 🗌	Adjusted?
14. Is it clear what analyses were requested?	Yes 🖌	No 🗌	
15. Were all holding times able to be met?	Yes 🗹	No 🗀	Checked by:
(If no, notify customer for authorization.)			

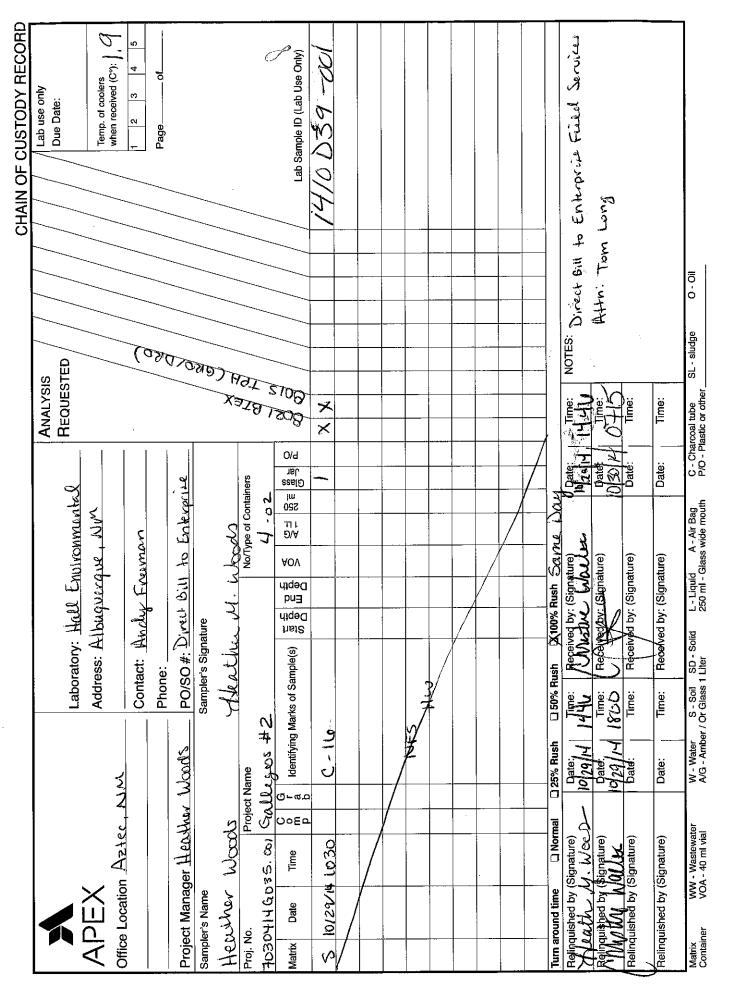
### Special Handling (if applicable)

16. Wa	as client notified of all c	liscrepancies with this order?	Yes 🗌	No 🗌	NA 🗹
	Person Notified:		Date	na an a	
	By Whom:		Via: 🗌 eMail 📋	Phone 🗌 Fax 📋	In Person
	Regarding:				
	Client Instructions:				

17. Additional remarks:

#### 18. Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			



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

October 21, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410597

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 10/21/2014

10/16/2014 5:59:56 PM 15944

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

Chloride

Client Sample ID: SP-1

Collection Date: 10/13/2014 3:00:00 PM

Lab ID: 1410597-001	Matrix:	SOIL	Received I	Received Date: 10/14/2014 7:00:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 9:19:54 Al	M 15880			
Surr: DNOP	111	57.9-140	%REC	1	10/15/2014 9:19:54 Al	M 15880			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 1:01:57 PI	M 15883			
Surr: BFB	90.1	80-120	%REC	1	10/15/2014 1:01:57 PI	M 15883			
EPA METHOD 8021B: VOLATILES					Analys	st: NSB			
Benzene	ND	0.049	mg/Kg	1	10/15/2014 1:01:57 PI	M 15883			
Toluene	ND	0.049	mg/Kg	1	10/15/2014 1:01:57 PI	M 15883			
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 1:01:57 PI	M 15883			
Xylenes, Total	ND	0.098	mg/Kg	1	10/15/2014 1:01:57 PI	M 15883			
Surr: 4-Bromofluorobenzene	92.9	80-120	%REC	1	10/15/2014 1:01:57 PI	M 15883			
EPA METHOD 300.0: ANIONS					Analys	st: LGP			

1.5

mg/Kg

1

12

г г	telei to the	QC Sui	iinai y	report an	u sampie	e login c	mecknist	TOT TTAE	ggeu Q	Cuala	and p	leselv	ation	morma	u

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 16
- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/21/2014

CLIENT: APEX AZTEC			Client Sampl	le ID: SP-2						
<b>Project:</b> Gallegos #2	Collection Date: 10/13/2014 3:02:00 PM									
Lab ID: 1410597-002	Matrix:	SOIL	Received I	Date: 10/14/2014 7:00:00 AM						
Analyses	Result	RL	Qual Units	DF Date Analyzed Bat	tch					
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			Analyst: <b>JM</b>	IE					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1 10/15/2014 10:50:33 AM 158	380					
Surr: DNOP	98.8	57.9-140	%REC	1 10/15/2014 10:50:33 AM 158	380					
EPA METHOD 8015D: GASOLINE RAN	GE			Analyst: <b>NS</b>	в					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 10/15/2014 2:27:50 PM 158	383					
Surr: BFB	90.0	80-120	%REC	1 10/15/2014 2:27:50 PM 158	383					
EPA METHOD 8021B: VOLATILES				Analyst: <b>NS</b>	B					
Benzene	ND	0.049	mg/Kg	1 10/15/2014 2:27:50 PM 158	383					
Toluene	ND	0.049	mg/Kg	1 10/15/2014 2:27:50 PM 158	383					
Ethylbenzene	ND	0.049	mg/Kg	1 10/15/2014 2:27:50 PM 158	383					
Xylenes, Total	ND	0.098	mg/Kg	1 10/15/2014 2:27:50 PM 158	383					
Surr: 4-Bromofluorobenzene	92.2	80-120	%REC	1 10/15/2014 2:27:50 PM 158	383					
EPA METHOD 300.0: ANIONS				Analyst: LG	P					
Chloride	9.2	1.5	mg/Kg	1 10/16/2014 6:37:10 PM 159	944					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded

- Holding times for preparation or analysis exceeded Н
  - ND Not Detected at the Reporting Limit Page 2 of 16
  - Р Sample pH greater than 2.
  - RL Reporting Detection Limit
- J Analyte detected below quantitation limits O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits

**Analytical Report** Lab Order 1410597 Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Client Sample ID: SP-3** 

<b>Project:</b> Gallegos #2			Collection ]	<b>Date:</b> 10,	/13/2014 3:04:00 PM	1
<b>Lab ID:</b> 1410597-003	Matrix:	SOIL	<b>Received</b>	<b>Date:</b> 10,	/14/2014 7:00:00 AN	1
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	RGANICS				Analy	st: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/15/2014 11:20:46	AM 15880
Surr: DNOP	95.5	57.9-140	%REC	1	10/15/2014 11:20:46	AM 15880
EPA METHOD 8015D: GASOLINE RANG	E				Analy	rst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 2:56:24 F	M 15883
Surr: BFB	89.4	80-120	%REC	1	10/15/2014 2:56:24 F	PM 15883
EPA METHOD 8021B: VOLATILES					Analy	rst: NSB
Benzene	ND	0.049	mg/Kg	1	10/15/2014 2:56:24 F	PM 15883
Toluene	ND	0.049	mg/Kg	1	10/15/2014 2:56:24 F	M 15883
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 2:56:24 F	PM 15883
Xylenes, Total	ND	0.099	mg/Kg	1	10/15/2014 2:56:24 F	PM 15883
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	10/15/2014 2:56:24 F	PM 15883
EPA METHOD 300.0: ANIONS					Analy	rst: LGP
Chloride	11	1.5	mg/Kg	1	10/17/2014 1:19:03 F	PM 15944

mation. daam nle login checklist for fla Refer to the OC S vation infor ent or d OC data md a

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded ND
  - Not Detected at the Reporting Limit Page 3 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/21/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

**Client Sample ID: SP-4** Collection Date: 10/13/2014 3:05:00 PM

Lab ID: 1410597-004	Matrix:	Received 1	Received Date: 10/14/2014 7:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: <b>JME</b>	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 11:51:20	AM 15880	
Surr: DNOP	100	57.9-140	%REC	1	10/15/2014 11:51:20	AM 15880	
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	vst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 3:24:57 F	PM 15883	
Surr: BFB	90.1	80-120	%REC	1	10/15/2014 3:24:57 F	PM 15883	
EPA METHOD 8021B: VOLATILES					Analy	vst: NSB	
Benzene	ND	0.049	mg/Kg	1	10/15/2014 3:24:57 F	PM 15883	
Toluene	ND	0.049	mg/Kg	1	10/15/2014 3:24:57 F	PM 15883	
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 3:24:57 F	PM 15883	
Xylenes, Total	ND	0.097	mg/Kg	1	10/15/2014 3:24:57 F	PM 15883	
Surr: 4-Bromofluorobenzene	92.0	80-120	%REC	1	10/15/2014 3:24:57 F	PM 15883	
EPA METHOD 300.0: ANIONS					Analy	st: LGP	
Chloride	10	1.5	mg/Kg	1	10/17/2014 1:31:28 F	PM 15944	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н ND
  - Not Detected at the Reporting Limit Page 4 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/21/2014 ~

CLIENT: APEX AZTEC	Client Sample ID: SP-5							
<b>Project:</b> Gallegos #2			Collection I	Date: 10	/13/2014 3:06:00 PN	1		
Lab ID: 1410597-005	Matrix:	Received I	<b>Received Date:</b> 10/14/2014 7:00:00 AM					
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	/st: JME		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 12:21:52	PM 15880		
Surr: DNOP	102	57.9-140	%REC	1	10/15/2014 12:21:52	PM 15880		
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	/st: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 3:53:30 I	PM 15883		
Surr: BFB	89.2	80-120	%REC	1	10/15/2014 3:53:30 F	PM 15883		
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB		
Benzene	ND	0.049	mg/Kg	1	10/15/2014 3:53:30 I	PM 15883		
Toluene	ND	0.049	mg/Kg	1	10/15/2014 3:53:30	PM 15883		
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 3:53:30 F	PM 15883		
Xylenes, Total	ND	0.099	mg/Kg	1	10/15/2014 3:53:30 F	PM 15883		
Surr: 4-Bromofluorobenzene	90.6	80-120	%REC	1	10/15/2014 3:53:30 I	PM 15883		
EPA METHOD 300.0: ANIONS					Analy	/st: LGP		
Chloride	11	1.5	mg/Kg	1	10/17/2014 10:25:16	AM 15944		

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associat
Quanners.		value execcus Maximum Containmant Level.	D	Analyte detected in the associat

- Value above quantitation range E
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- ated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit Page 5 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/21/2014

Client Sample ID: SP-6								
Collection Date: 10/13/2014 3:08:00 PM								
Matrix:	Received l	<b>Received Date:</b> 10/14/2014 7:00:00 AM						
Result	RL Qua	al Units	DF	Date Analyzed	Batch			
ORGANICS				Analy	/st: JME			
ND	9.9	mg/Kg	1	10/15/2014 12:52:34	PM 15880			
101	57.9-140	%REC	1	10/15/2014 12:52:34	PM 15880			
GE				Analy	/st: NSB			
ND	4.8	mg/Kg	1	10/15/2014 4:22:13 F	PM 15883			
90.2	80-120	%REC	1	10/15/2014 4:22:13 F	PM 15883			
				Analy	/st: NSB			
ND	0.048	mg/Kg	1	10/15/2014 4:22:13 F	PM 15883			
ND	0.048	mg/Kg	1	10/15/2014 4:22:13 F	PM 15883			
ND	0.048	mg/Kg	1	10/15/2014 4:22:13 F	PM 15883			
ND	0.095	mg/Kg	1	10/15/2014 4:22:13 F	PM 15883			
92.7	80-120	%REC	1	10/15/2014 4:22:13 F	PM 15883			
				Analy	/st: LGP			
7.2	1.5	mg/Kg	1	10/17/2014 10:37:41	AM 15944			
	Result ORGANICS ND 101 GE ND 90.2 ND ND ND ND ND 92.7	ORGANICS ND 9.9 101 57.9-140 GE ND 4.8 90.2 80-120 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.095 92.7 80-120	Collection IMatrix:SOILReceived IResultRLQualUnitsORGANICS9.9mg/KgND9.9mg/Kg10157.9-140%RECGEND4.8mg/Kg90.280-120%RECND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.048mg/KgND0.095mg/Kg92.780-120%REC	Matrix:       SOIL       Collection Date:       10         Result       RL       Qual       Units       DF         ORGANICS       mg/Kg       1       101       57.9-140       %REC       1         OE       ND       9.9       mg/Kg       1         GE       mg/Kg       1       101       57.9-140       %REC       1         MD       9.9       mg/Kg       1	Matrix:         SOIL         Collection Date:         10/13/2014 3:08:00 PM           Matrix:         SOIL         Received Date:         10/14/2014 7:00:00 AM           Result         RL         Qual         Units         DF         Date Analyzed           ORGANICS         Analy         MD         9.9         mg/Kg         1         10/15/2014 12:52:34           ND         9.9         mg/Kg         1         10/15/2014 12:52:34         Analy           GE         Analy         MREC         1         10/15/2014 12:52:34           MD         9.9         Mg/Kg         1         10/15/2014 12:52:34           GE         Analy         MREC         1         10/15/2014 4:22:13 F           ND         4.8         mg/Kg         1         10/15/2014 4:22:13 F           90.2         80-120         %REC         1         10/15/2014 4:22:13 F           MD         0.048         mg/Kg         1         10/15/2014 4:22:13 F           ND         0.048         mg/Kg         1         10/15/2014 4:22:13 F           ND         0.048         mg/Kg         1         10/15/2014 4:22:13 F           ND         0.048         mg/Kg         1         10/15/2014 4:22:13 F			

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
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- H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit Page 6 of 16
  - P Sample pH greater than 2.
  - RL Reporting Detection Limit
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

E

R RPD outside accepted recovery limits

Value above quantitation range

S Spike Recovery outside accepted recovery limits

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Gallegos #2

1410597-007

**Project:** 

Lab ID:

Date Reported: 10/21/2014 **Client Sample ID:** SP-7

Collection Date: 10/13/2014 3:12:00 PM

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analy	st: <b>JME</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 1:23:25 F	M 15880
Surr: DNOP	100	57.9-140	%REC	1	10/15/2014 1:23:25 F	M 15880
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/15/2014 4:50:54 F	PM 15883
Surr: BFB	90.7	80-120	%REC	1	10/15/2014 4:50:54 F	M 15883
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.048	mg/Kg	1	10/15/2014 4:50:54 F	M 15883
Toluene	ND	0.048	mg/Kg	1	10/15/2014 4:50:54 F	PM 15883
Ethylbenzene	ND	0.048	mg/Kg	1	10/15/2014 4:50:54 F	M 15883
Xylenes, Total	ND	0.097	mg/Kg	1	10/15/2014 4:50:54 F	M 15883
Surr: 4-Bromofluorobenzene	93.0	80-120	%REC	1	10/15/2014 4:50:54 F	PM 15883
EPA METHOD 300.0: ANIONS					Analy	st: LGP
Chloride	12	1.5	mg/Kg	1	10/17/2014 10:50:05	AM 15944

Matrix: SOIL

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н ND
  - Not Detected at the Reporting Limit Page 7 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Gallegos #2 1410597-008

**Project:** 

Lab ID:

Date Reported: 10/21/2014
Client Sample ID: SP-8

 Collection Date:
 10/13/2014
 3:25:00 PM

 Matrix:
 SOIL
 Received Date:
 10/14/2014
 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: <b>JME</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 2:25:02 P	M 15880
Surr: DNOP	108	57.9-140	%REC	1	10/15/2014 2:25:02 P	M 15880
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/15/2014 5:19:34 P	M 15883
Surr: BFB	90.6	80-120	%REC	1	10/15/2014 5:19:34 P	M 15883
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/15/2014 5:19:34 P	M 15883
Toluene	ND	0.047	mg/Kg	1	10/15/2014 5:19:34 P	M 15883
Ethylbenzene	ND	0.047	mg/Kg	1	10/15/2014 5:19:34 P	M 15883
Xylenes, Total	ND	0.094	mg/Kg	1	10/15/2014 5:19:34 P	M 15883
Surr: 4-Bromofluorobenzene	92.6	80-120	%REC	1	10/15/2014 5:19:34 P	M 15883
EPA METHOD 300.0: ANIONS					Analy	st: LGP
Chloride	8.2	1.5	mg/Kg	1	10/17/2014 11:02:30	AM 15944

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

Refer to the	QC Dummu	ry report un	la sumple log	, in enceknist ic	dutu una pres	er varion miormat

- \* Value exceeds Maximum Contaminant Level.
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - O RSD is greater than RSDlimit

**Oualifiers:** 

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 8 of 16
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/21/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Gallegos #2

1410597-009

**Project:** 

Lab ID:

**Client Sample ID:** SP-9

Collection Date: 10/13/2014 3:27:00 PM

Received Date: 10/14/2014 7:00:00 AM

240 22 11100 / 000						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/15/2014 2:55:33 P	M 15880
Surr: DNOP	101	57.9-140	%REC	1	10/15/2014 2:55:33 P	M 15880
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 5:48:12 P	M 15883
Surr: BFB	88.9	80-120	%REC	1	10/15/2014 5:48:12 P	M 15883
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.049	mg/Kg	1	10/15/2014 5:48:12 P	M 15883
Toluene	ND	0.049	mg/Kg	1	10/15/2014 5:48:12 P	M 15883
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 5:48:12 P	M 15883
Xylenes, Total	ND	0.099	mg/Kg	1	10/15/2014 5:48:12 P	M 15883
Surr: 4-Bromofluorobenzene	90.5	80-120	%REC	1	10/15/2014 5:48:12 P	M 15883
EPA METHOD 300.0: ANIONS					Analys	st: LGP
Chloride	5.5	1.5	mg/Kg	1	10/17/2014 11:14:54 /	AM 15944

Matrix: SOIL

		··· · · · · · · · · · · · · · · · · ·		, · · · · · · · · · · · · · · · · · · ·
<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method

- \* Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 9 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

**Analytical Report** Lab Order 1410597 Date Reported: 10/21/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

Client Sample ID: SP-10 Collection Date: 10/13/2014 3:28:00 PM

Lab ID: 1410597-010	Matrix:	<b>Received Date:</b> 10/14/2014 7:00:00 AM					
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/15/2014 3:26:17 PN	1 15880	
Surr: DNOP	97.3	57.9-140	%REC	1	10/15/2014 3:26:17 PN	1 15880	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 8:10:58 PN	1 15883	
Surr: BFB	89.6	80-120	%REC	1	10/15/2014 8:10:58 PN	15883	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.049	mg/Kg	1	10/15/2014 8:10:58 PN	1 15883	
Toluene	ND	0.049	mg/Kg	1	10/15/2014 8:10:58 PN	15883	
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 8:10:58 PN	15883	
Xylenes, Total	ND	0.099	mg/Kg	1	10/15/2014 8:10:58 PN	15883	
Surr: 4-Bromofluorobenzene	90.7	80-120	%REC	1	10/15/2014 8:10:58 PN	1 15883	
EPA METHOD 300.0: ANIONS					Analys	t: LGP	
Chloride	17	1.5	mg/Kg	1	10/17/2014 11:27:19 A	M 15944	

reservation information. report and sample login checklist for flagged OC dat Pofor to the OC St A

Refer to the QC Summary repo	rt and sample login	checklist for hagged	QC data and preser	rvation information

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 10 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/21/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Gallegos #2

**Project:** 

Client Sample ID: SP-11 Collection Date: 10/13/2014 3:30:00 PM

Lab ID: 1410597-011 Matrix: SOIL Received Date: 10/14/2014 7:00:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME 10/15/2014 3:57:07 PM 15880 **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 Surr: DNOP 109 57.9-140 %REC 1 10/15/2014 3:57:07 PM 15880 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 10/15/2014 8:39:37 PM 15883 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 Surr: BFB %REC 89.8 80-120 1 10/15/2014 8:39:37 PM 15883 **EPA METHOD 8021B: VOLATILES** Analyst: NSB mg/Kg Benzene ND 0.048 1 10/15/2014 8:39:37 PM 15883 Toluene 0.048 mg/Kg 10/15/2014 8:39:37 PM 15883 ND 1 Ethylbenzene ND 0.048 mg/Kg 10/15/2014 8:39:37 PM 15883 1 mg/Kg Xylenes, Total ND 0.096 1 10/15/2014 8:39:37 PM 15883 Surr: 4-Bromofluorobenzene 92.2 80-120 %REC 1 10/15/2014 8:39:37 PM 15883 **EPA METHOD 300.0: ANIONS** Analyst: LGP Chloride 8.0 1.5 mg/Kg 1 10/17/2014 11:39:43 AM 15944

0.110		
Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits
	S	Spike Recovery outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded ND
  - Not Detected at the Reporting Limit Page 11 of 16
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/21/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Project:** Gallegos #2

**Client Sample ID:** SP-12 Collection Date: 10/13/2014 3:32:00 PM

Lab ID: 1410597-012	Matrix:	Received Date: 10/14/2014 7:00:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/15/2014 4:27:51 PM	1 15880	
Surr: DNOP	98.4	57.9-140	%REC	1	10/15/2014 4:27:51 PM	1 15880	
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/15/2014 9:08:17 PM	1 15883	
Surr: BFB	90.3	80-120	%REC	1	10/15/2014 9:08:17 PM	1 15883	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.049	mg/Kg	1	10/15/2014 9:08:17 PM	1 15883	
Toluene	ND	0.049	mg/Kg	1	10/15/2014 9:08:17 PM	1 15883	
Ethylbenzene	ND	0.049	mg/Kg	1	10/15/2014 9:08:17 PM	1 15883	
Xylenes, Total	ND	0.098	mg/Kg	1	10/15/2014 9:08:17 PM	1 15883	
Surr: 4-Bromofluorobenzene	92.4	80-120	%REC	1	10/15/2014 9:08:17 PM	1 15883	
EPA METHOD 300.0: ANIONS					Analys	t: LGP	
Chloride	4.6	1.5	mg/Kg	1	10/17/2014 11:52:08 A	M 15944	

- **Qualifiers:** \* Value exceeds Maximum Contaminant Level. Е Value above quantitation range
  - J Analyte detected below quantitation limits
  - 0 RSD is greater than RSDlimit
  - R RPD outside accepted recovery limits
  - Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND
  - Not Detected at the Reporting Limit Page 12 of 16
- Р Sample pH greater than 2.
- Reporting Detection Limit RL

÷	<b>wironment</b>	I Analysis Laboratory, Inc.	WO#:	1410597 21-Oct-14			
Client: Project:	APEX A Gallegos						
Sample ID	MB-15944	SampType: MBLK TestCode: EPA Method 300.0: Ani	ons				
Client ID:	PBS	Batch ID: 15944 RunNo: 21982					
Prep Date:	10/16/2014	Analysis Date: 10/16/2014 SeqNo: 646169 Units: mg	g/Kg				
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit	Qual			
Chloride		ND 1.5					
Sample ID	LCS-15944	SampType: LCS TestCode: EPA Method 300.0: Ani	ons				
Client ID:	LCSS	Batch ID: 15944 RunNo: 21982	RunNo: 21982				
Prep Date:	10/16/2014	Analysis Date: 10/16/2014 SeqNo: 646170 Units: mg	g/Kg				
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit	Qual			
Chloride		14 1.5 15.00 0 90.6 90 110	)				
Sample ID	1410597-001AMS	SampType: MS TestCode: EPA Method 300.0: Ani	ons				
Client ID:	SP-1	Batch ID: 15944 RunNo: 21982					
Prep Date:	10/16/2014	Analysis Date: 10/16/2014 SeqNo: 646176 Units: mg	g/Kg				
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit	Qual			
Chloride		24 1.5 15.00 11.93 82.7 61.7 122	2				
Sample ID	1410597-001AMS	D SampType: MSD TestCode: EPA Method 300.0: Ani	ons				
Client ID:	SP-1	Batch ID: 15944 RunNo: 21982					
Prep Date:	10/16/2014	Analysis Date: 10/16/2014 SeqNo: 646177 Units: mg	g/Kg				
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit	Qual			

				/			/ * * * * =	
26	5 1.5	15.00	11.93	91.2	61.7	122	5.11	

Chloride

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
  - Р Sample pH greater than 2.
  - Reporting Detection Limit RL

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc

Client:	APEX AZ										
Project:	Gallegos	#2									
Sample ID	MB-15880	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	Batch	ID: 15	880	F	RunNo: 2	1866				
Prep Date:	10/14/2014	Analysis Da	ate: 10	0/14/2014	5	SeqNo: 64	43143	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
)iesel Range (	Organics (DRO)	ND	10								
Surr: DNOP		9.6		10.00		96.2	57.9	140			
Sample ID	LCS-15880	SampT	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Dies	el Range G	Organics	
Client ID:	LCSS	Batch	ID: 15	880	RunNo: <b>21866</b>						
Prep Date:	10/14/2014	Analysis Da	ate: 10	0/14/2014	SeqNo: 643147 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
)iesel Range (	Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP		4.8		5.000		95.3	57.9	140			
Sample ID	1410597-001AMS	SampTy	/pe: <b>M</b> \$	6	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	SP-1	Batch	ID: 15	880	RunNo: <b>21899</b>						
Prep Date:	10/14/2014	Analysis Da	ate: 10	0/15/2014	SeqNo: 644218			Units: <b>mg/Kg</b>			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
)iesel Range (	Organics (DRO)	55	10	49.75	0	110	40.1	152			
Surr: DNOP		5.6		4.975		113	57.9	140			
Sample ID	1410597-001AMS	D SampTy	/pe: <b>M\$</b>	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	SP-1	Batch	ID: 15	880	F	RunNo: <b>2</b> 1	1899				
Prep Date:	10/14/2014	Analysis Da	ate: 10	0/15/2014	5	SeqNo: 64	44219	Units: mg/k	٢g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	Organics (DRO)	48	9.9	49.50	0	97.9	40.1	152	12.4	32.1	
Surr: DNOP		4.9		4.950		98.5	57.9	140	0	0	

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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: APEX Project: Gallege	AZTEC os #2										
Sample ID MB-15883	D MB-15883 SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	S Batch ID: 15883			F	RunNo: <b>21927</b>						
Prep Date: 10/14/2014	4/2014 Analysis Date: 10/15/2014			S	SeqNo: 644456			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	900		1000		90.2	80	120				
Sample ID LCS-15883	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: LCSS	Batch	h ID: 15	883	RunNo: <b>21927</b>							
Prep Date: 10/14/2014	Analysis D	Analysis Date: 10/15/2014			SeqNo: 644457			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	65.8	139				
Surr: BFB	970		1000		96.6	80	120				

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-	JMMARY vironment				ory, Inc.					WO#:	141059 21-Oct-14
Client:	APEX A	ZTEC									
Project:	Gallegos										
Sample ID	MB-15883	Samp	Гуре: МІ	BLK	Tes	stCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 15	883		RunNo: 2	1927				
Prep Date:	10/14/2014	Analysis [	Date: 1	)/15/2014	:	SeqNo: 6	44540	Units: mg/l	Ka		
·		-	PQL		SPK Ref Val	%REC	LowLimit	-	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	ofluorobenzene	Result ND ND ND ND 0.94	0.050 0.050 0.050 0.10	1.000	SFK Kei Vai	93.6	80	HighLimit 120	70 KF U	KPDLIIIII	Qual
Comple ID	1.00.45000	Comp <sup>-</sup>		<u> </u>	Too				41100		
•	LCS-15883		Гуре: <b>LC</b>					8021B: Vola	tiles		
Client ID: Prep Date:	LCSS 10/14/2014	Analysis [	h ID: <b>15</b>			RunNo: <b>2</b> SeqNo: <b>6</b>	-	Units: <b>mg/l</b>	(a		
	10/14/2014					•		_	-		Qual
Analyte Benzene		Result 0.96	PQL 0.050	5PK value 1.000	SPK Ref Val	%REC 96.2	LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Toluene		0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene		0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total		3.0	0.10	3.000	0	98.6	80	120			
<b>,</b>	ofluorobenzene	1.0	0110	1.000	Ũ	100	80	120			
Sample ID	1410597-001AMS	Samp	Гуре: М	3	Tes	stCode: El	PA Method	8021B: Vola	tiles		
Client ID:		•	h ID: 15			RunNo: 2					
	10/14/2014	Analysis [				SeqNo: 6		Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	- %RPD	RPDLimit	Qual
Benzene		0.89	0.049	0.9852	0	89.8	77.4	142			
Toluene		0.90	0.049	0.9852	0.008222	90.9	77	132			
Ethylbenzene		0.97	0.049	0.9852	0	98.7	77.6	134			
Xylenes, Total		2.9	0.099	2.956	0.01448	98.2	77.4	132			
-	ofluorobenzene	0.98		0.9852		99.1	80	120			
Sample ID	1410597-001AMS	D Samp	Гуре: М	SD	Tes	stCode: El	PA Method	8021B: Vola	tiles		
Client ID:			h ID: 15			RunNo: 2					
Prep Date:	10/14/2014	Analysis [	Date: 1	0/15/2014		SeqNo: 6		Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.049	0.9852	0	99.0	77.4	142	9.74	20	
Toluene		1.0	0.049	0.9852	0.008222	100	77	132	9.96	20	
Ethylbenzene		1.0	0.049	0.9852	0	105	77.6	134	6.04	20	
Xylenes, Total		3.1	0.099	2.956	0.01448	104	77.4	132	5.89	20	
Surr 4-Brom	ofluorobenzene	0.98		0.9852		99.6	80	120	0	0	

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- RL Reporting Detection Limit

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ANALYSIS ABOPATORY TEL: 505-345-39	al Analysis Labora 4901 Hawkins Ibuquerque, NM 87 75 FAX: 505-345-4 hallenvironmental.	NE 109 Samp 107	ole Log-In Check List
Client Name: APEX AZTEC Work Order Numb	er: 1410597		RoptNo: 1
Received by/date: <u>LIM 10/14/14</u>			
Logged By: Anne Thorne 10/14/2014 7:00:00 /	AM	ame Im	-
Completed By: Anne Thorne 10/14/2014		ame Am	
Reviewed By: 10/14/14		-	
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	na 🗔
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
6. Sample(s) in proper container(s)?	Yes 🔽	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌	_
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials 🗹
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	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:
Spe <u>cial Handling (if applicable)</u>			
16 Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹

16. Was client notified of all o	liscrepancies with this order?		Yes 🗌	No 🗌	
Person Notified:		Date			
By Whom:		Via:	🗌 eMail [	] Phone 🗌 Fax	In Person
Regarding:	a and a surgery state of the state		a ta di kacamatan kac		
Client Instructions:	- The second sec			·····	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

NorType of Containers NorType of Containers POR Bush Da Da Da Da Da Da Da Da Da Da Da Da Da	
	# 2 Marks of Sar Marks of Sar 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

CHAIN OF CUSTODY RECORD	/ / / Lab use only Due Date:		Temp. of coolers	1 2 3 4 5	Page 2 of 2						Lab Sample ID (Lab Use Only)	1410597-01	-012														
					/ / //// /0%	A 25																	NOTES:				SL - sludge O - Oil
									di	-	805 805	××	× × ×									,	1812 N		Time:	Time:	C - Charcoal tube SL P/O - Plastic or other
		n mental	YN	<		Enterprise		0	No/Type of Containers	4-02	b\O rjst Gjsss Jg S20 LT		1								/		Date: 10	10 kt/	Date:	Date:	
		Laboratory: Hall Environmental	guerque	- Evemen		Direct bill to 1		M. Woods	No/Type o	ţ,	Depth AOA End End			-						/		Rush	(Signature)	Signature)	(Signature)	(Signature)	L - Liquid A - Air Bag 250 ml - Glass wide mouth
		oratory: <u>Ha</u>	Address: <u>Albuquerque</u>	Contact: Ander	ne:	#	Sampler's Signature	Heath )			ample(s) Start								/			Rush 🔲 100% Rush	Received by:	Received thy (Signature)	1	Received by: (Signature)	
		Labo	Addi	Con	Phone:	1 1		F		2 # suf	Identifying Marks of Sample(s)	59-11	59-12					T				tush 🛛 50% Rush			I	Time:	W - Water S - Soil SD - Soid A/G - Amber / Or Glass 1 Liter
			<b>4 4 4</b>	r, NM		Project Manager Heather Woods		Ņ	Project Name	Gallegus	den Da∽G D⊒oC	>	Š				Y I				;	mal 🛛 25% Rush	becom Date:	្រុ		Date:	
		,>	×	Office Location Azer , NM		nager <u>Hea</u>	me	Heather Woods		6035	Time	14 1530	14 1532		1	/						time V Normal	Relinquished by (Signature)	Sið	Relinquished by (Signature)	Relinquished by (Signature)	WW - Wastewater VOA - 40 ml vial
			APEX	Office Loc:		Project Ma	Sampler's Name	Hearth	Proj. No.	40304146035	Matrix Date	41/2/14		/	/							Turn around time	Relinquished by	Relinquished	Relinquished	Relinquished	Matrix Container

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

November 03, 2014

Heather Woods APEX AZTEC 606 S. Rio Grande Unit A Aztec, NM 87410 TEL: (505) 716-2787 FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410857

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/17/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2014

CLIENT: APEX AZTECProject: Enterprise Gallegos #2Lab ID: 1410857-001Matrix: AQUEOUS

### Client Sample ID: EW-1 Collection Date: 10/16/2014 1:20:00 PM

Received Date: 10/17/2014 8:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	1400	100	µg/L	100	10/17/2014 2:13:36 PM	R22004
Toluene	6300	100	µg/L	100	10/17/2014 2:13:36 PM	R22004
Ethylbenzene	870	100	µg/L	100	10/17/2014 2:13:36 PM	R22004
Xylenes, Total	11000	200	µg/L	100	10/17/2014 2:13:36 PM	R22004
Surr: 4-Bromofluorobenzene	113	66.6-167	%REC	100	10/17/2014 2:13:36 PM	R22004
EPA METHOD 300.0: ANIONS					Analyst	LGP
Fluoride	ND	0.50	mg/L	5	10/17/2014 5:13:03 PM	R21997
Chloride	94	2.5	mg/L	5	10/17/2014 5:13:03 PM	R21997
Nitrogen, Nitrite (As N)	ND	0.50	mg/L	5	10/17/2014 5:13:03 PM	R21997
Bromide	ND	0.50	mg/L	5	10/17/2014 5:13:03 PM	R21997
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5	10/17/2014 5:13:03 PM	R21997
Phosphorus, Orthophosphate (As P)	ND	2.5	mg/L	5	10/17/2014 5:13:03 PM	R21997
Sulfate	ND	2.5	mg/L	5	10/17/2014 5:13:03 PM	R21997
EPA METHOD 200.7: METALS					Analyst	JLF
Calcium	100	5.0	mg/L	5	10/22/2014 3:55:34 PM	16020
Magnesium	34	5.0	mg/L	5	10/22/2014 3:55:34 PM	16020
Potassium	22	5.0	mg/L	5	10/22/2014 3:55:34 PM	16020
Sodium	580	10	mg/L	10	10/22/2014 4:02:13 PM	16020

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

Qualifiers: *	Value exceeds Maximum Contaminant Level.
---------------	--

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 1 of 5

- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

03-Nov-14

Client: Project:		AZTEC ise Gallegos	#2								
Sample ID	MB-16020	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	200.7: Metals			
Client ID:	PBW	Batch	ID: 16	020	F	RunNo: 2	2075				
Prep Date:	10/22/2014	Analysis D	ate: 10	0/22/2014	S	SeqNo: 6	49308	Units: <b>mg/L</b>			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		ND	1.0								
Magnesium		ND	1.0								
Potassium		ND	1.0								
Sodium		ND	1.0								
Sample ID	LCS-16020	SampT	ype: LC	s	Tes	tCode: E	PA Method	200.7: Metals			
Client ID:	LCSW	Batch	ID: 16	020	F	RunNo: 2	2075				
Prep Date:	10/22/2014	Analysis D	ate: 10	0/22/2014	5	SeqNo: 6	49309	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium		51	1.0	50.00	0	101	85	115			
Magnesium		51	1.0	50.00	0	101	85	115			
Potassium		50	1.0	50.00	0	101	85	115			
Sodium		51	1.0	50.00	0	101	85	115			

#### **Qualifiers:**

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- J Analyte detected below quantitation limits
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- R RPD outside accepted recovery limits
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  - P Sample pH greater than 2.
  - RL Reporting Detection Limit

QC SUMMARY Hall Environment				ory, Inc.					WO#:	141085 03-Nov-14
Client: APEX A	ZTEC									
Project: Enterpri	se Gallegos	s #2								
Sample ID MB	Samp	Гуре: МВ	BLK	Tes	tCode: E	PA Method	300.0: Anions	8		
Client ID: PBW	Batc	h ID: <b>R2</b>	1997	F	RunNo: 2	1997				
Prep Date:	Analysis [	Date: 1	0/17/2014	S	SeqNo: 6	46536	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 Sulfate	ND ND	0.50 0.50								
Sample ID LCS		Type: LC					300.0: Anions	6		
Client ID: LCSW Prep Date:	Batc Analysis [	h ID: <b>R2</b>			RunNo: <b>2</b> SeqNo: <b>6</b>		Units: mg/L			
					•		-			<b>.</b> .
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51 4.6	0.10 0.50	0.5000 5.000	0 0	101 92.3	90 90	110 110			
Chloride Nitrogen, Nitrite (As N)	4.0 0.97	0.50	1.000	0	92.3 97.1	90 90	110			
Bromide	2.4	0.10	2.500	0	96.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.8	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	94.5	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			
Sample ID MB	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	300.0: Anions	6		
Client ID: PBW	Batc	h ID: <b>R2</b>	1997	F	RunNo: 2	1997				
Prep Date:	Analysis [	Date: 1	0/17/2014	S	SeqNo: 6	46591	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 Nitrogon Nitroto (Ac N)	ND	0.10								
Nitrogen, Nitrate (As N) Phosphorus, Orthophosphate (As P	ND ND	0.10 0.50								
Sulfate	ND	0.50								
Sample ID LCS	Samp	Гуре: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anions	 }		
Client ID: LCSW		h ID: R2			RunNo: 2					
Prep Date:	Analysis [				SeqNo: 6		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.3	90	110			

\* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Page 3 of 5

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857

03-Nov-14

### Client: APEX AZTEC

**Project:** Enterprise Gallegos #2

Sample ID LCS Client ID: LCSW		ype: LC			tCode: El RunNo: 2		300.0: Anions	6		
Prep Date:	Analysis D		0/17/2014		SeqNo: 6		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.3	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.4	90	110			
Bromide	2.4	0.10	2.500	0	94.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	94.7	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.1	90	110			
Sulfate	9.4	0.50	10.00	0	94.2	90	110			

#### **Qualifiers:**

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857 03-Nov-14

Client: Project:	APEX AZTEC Enterprise Gallegos #	2								
-										
Sample ID 5ML RE	SampTyp	e: ME	BLK	Test	Code: El	PA Method	8021B: Volati	iles		
Client ID: PBW	Batch I	D: R2	2004	R	RunNo: 2	2004				
Prep Date:	Analysis Dat	e: 10	0/17/2014	S	SeqNo: 64	46795	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobe	nzene 20		20.00		97.6	66.6	167			
Sample ID 100NG	BTEX LCS SampTyp	e: LC	S	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID: LCSW	Batch I	D: R2	2004	R	RunNo: 2	2004				
Prep Date:	Analysis Dat	e: 10	)/17/2014	S	SeqNo: 64	46796	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
Surr: 4-Bromofluorobe	nzene 21		20.00		105	66.6	167			

#### **Qualifiers:**

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-2	ental Analysis Labora 4901 Hawkin: Albuquerque, NM 83 3975 FAX: 505-345-4 w.hallenvironmental.	<sup>NE</sup> 7105 <b>Samp</b> 4107	ole Log-In Ch	eck List
Client Name: APEX AZTEC	Work Order Num	ber: 1410857		RcptNo:	1
Received by/date:	1 10/17/14				
Logged By: Michelle Garci	a 10/17/2014 8:15:00	D AM	Minul Gone	in )	
Completed By: Michelle Garci	a 10/17/2014 10:55:4	48 AM	Mirille Cone Mirille Cone	in )	
Reviewed By:	5 10/17/14			_	
Chain of Custody	<u> </u>				
1. Custody seals intact on sample	e bottles?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered	1?	Courier			
Log In					
4. Was an attempt made to cool	the samples?	Yes 🗹	No 🗌		
5. Were all samples received at	a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) in proper container	·(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for i	ndicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and	ONG) properly preserved?	Yes 🔽	No 🗋	4	
9. Was preservative added to bo MCFals analys	ttles? Added os n	NLHN03	to con		reptable
10.VOA vials have zero headspa		Yes 🗹	No 🗌	No VOA Vials 🗌	pt+.
11. Were any sample containers	received broken?	Yes 🗀	No 🗹 🛛	# of preserved	1 80 11
12.Does paperwork match bottle (Note discrepancies on chain		Yes 🗹	No 🗆	bottles checked for pH:	>12 upless noted)
13. Are matrices correctly identified	ed on Chain of Custody?	Yes 🗹	No 🛄	Adjusted?	-us
14. Is it clear what analyses were		Yes 🔽	No 🗌		
15. Were all holding times able to (If no, notify customer for auth		Yes 🗹	No	Checked by:	SAB
Special Handling (if applic	able)				<b>`</b>
16, Was client notified of all discre	epancies with this order?	Yes 🗌	No 🗌		
Person Notified:	Dai	te:	and the second second second second		
By Whom:	Via	i: 🗌 eMail 🗌	Phone 🗌 Fax	In Person	

and the second second

-----

Regarding:	
rtogurung.	
Client Instructions:	
	a na ana amin'ny tanàna mandritry dia kaominina dia mampikana amin'ny fisiana amin'ny fisian

17. Additional remarks:

### 18. Cooler Information

Co	oler No Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes			

-			CHAIN O	CHAIN OF CUSTODY RECORD
			ANALYSIS	/ Lab use only
		Laboratory: Hall Environmented		
	Y	Address: Albuquerque, NM		Temp. of coolers when received (C°): 5, 4
Ullice Eucation act to the	Ŭ	ontact: Andur Freeman		1 2 3 4 5
		Phone: (505) 345-3975		Page 1 of 1
Project Manager Heaving Woods		PO/SO #: Direct bill to Enterprise		
Sampler's Name		Sampler's Signature		
Heather Whods	$\mathcal{R}$	Heather M. Woods		
			<b>B</b>	
70304146035 Enter	Enterprise Gallegos #2		150 150	
Matrix Date Time C	Identifying Marks of Sample(s)	f Sample(s) Start fn Sample(s) Start fn Dept fn Dept fn Dept fn Genass	0/4 2000 2000 2000	Lab Sample ID (Lab Use Only)
		m		416857-001
	(mff			
Turn around time 🛛 Normal 🗍 2	🗆 25% Rush 🛛 🗆 50'	Rush	-	
0	Date: Time: to/lo/re 1720	Received	Time: NOTES: 5	rise Field Services
Relinquished by (Signature)	Date: Time:	e: Received by Signature) Date:	Time: RATO IOW LONG	
Relinquished by (Signature)	Date: Time:	e: Received by: (Signature) Date:	Time:	
Relinquished by (Signature)	Date: Time:	e: Received by: (Signature) Date:	Time: Verif	t will Heather.
Matrix WW - Wastewater Container VOA - 40 ml viat	W - Water S - Soll SD - Solid A/G - Amber / Or Glass 1 Liter	L - Liquid A - Air Bag 250 ml - Glass wide mouth	C - Charcoal tube SL - sludge O - Oii $C_{U,N}$ CL / P/O - Plastic or other	Run all Anians. My 10/17/141

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

CHAIN OF CUSTODY RECORD