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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	e Party: En t	terprise Field S	ervices, LLC		OGRID: 241602		
Contact Name: Thomas Long		Contact Telephone: 505-599-2286					
Contact em	Contact email: tjlong@eprod.com			Incident # (assigned by OCD) nCS1507252223/3RP-1003			
Contact ma 87401	iling addres	s: 614 Reilly Av	e, Farmington,	NM			
			Location of	of R	elease Sour	ce	
_atitude <u>36.</u>	70080		Longitude	-108.0	00131	NAD 83 in decimal degrees to 5 decimal places)	
Site Name N	/ladsen Ga	s Com #1E			Site Type Natural Gas Gathering Pipeline		
Date Releas	e Discover	ed: 02/05/2015			Serial # (if applicable) N/A		
Unit Letter	Section	Township	Range		County		
С	28	29N	11W		San Juan		
Surface Own	er: 🗌 Stat	e			ame: Burrell TC Tru	st ETAL/Ronald and Patricia Johnson)	
	Material(s) F	Palassad (Salact all t	hat apply and attach	o calcula	ations or specific justific	cation for the volumes provided below)	

Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the ☐ Yes ☐ No produced water >10,000 mg/l? Volume Released (bbls): 36.57 MCF Volume Recovered (bbls): None Natural Gas Volume Released (Mcf): 5-7 Barrels Volume Recovered (Mcf): None Volume/Weight Released (provide units) Other (describe) Volume/Weight Recovered (provide units) Cause of Release: From 2017 to July 2021, Enterprise conducted quarterly and semi-annual groundwater monitoring events per the

Cause of Release: From 2017 to July 2021, Enterprise conducted quarterly and semi-annual groundwater monitoring events per the NMOCD approved work plan (3R-1003). In addition, Enterprise conducted total fluid removal events and another soil remediation event on March 6, 2020 during routine hydro-testing/maintenance of the Masden GC #1E pipeline. Quarterly groundwater monitoring and total fluids removal is ongoing at the site to facilitate groundwater remediation. Annual reporting will continue until New Mexico Quality Control Commission standards are met for eight consecutive quarters.

eceived by OCD: 11/18/20)21 2:46:21 PM			Page 2 of
[M	KVE0		-:	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does	s the responsible party con	sider this a major relea	ase?
☐ Yes ⊠ No				
If YES, was immediate no	I bitice given to the OCD? By whor	n? To whom? When and	by what means (phone	e, email, etc)?
	In	itial Response		
The responsible part	y must undertake the following action	s immediately unless they cou	uld create a safety hazaro	d that would result in injury
☐ The impacted area☐ Released materials	release has been stopped. has been secured to protect less have been contained via the recoverable materials have be	use of berms or dikes,	absorbent pads, or o	other containment devices.
If all the actions describ	bed above have <u>not</u> been und	ertaken, explain why:		
D 40.45.00.0 D (4)		ŗ.		
remediation has begun	NMAC the responsible party many in please attach a narrative of a within a lined containment area	actions to date. If remed	dial efforts have bee	en successfully completed or
I hereby certify that the in rules and regulations all of releases which may endat operator of liability should groundwater, surface wat	formation given above is true and operators are required to report at anger public health or the environ it their operations have failed to acter, human health or the environm for compliance with any other feet	nd/or file certain release no ment. The acceptance of a dequately investigate and o nent. In addition, OCD acc	otifications and perform a C-141 report by the cremediate contaminating eptance of a C-141 re	n corrective actions for OCD does not relieve the on that pose a threat to
Printed Name:Thom	nas Long	Title: <u>Senior Enviror</u>	nmental Scientist	
Signature:	Long	Date: <u>11</u>	/18/2021	
email: <u>tjlong@eprod.co</u>		Telephone: _505-599		
OCD Only				
Received by:		Date	: :	



Supplemental Soil Remediation and Groundwater Monitoring Report

Property:

Masden Gas Com #1E (2/05/2015) NW ¼, S28, T29N R11W San Juan County, New Mexico

New Mexico EMNRD OCD RP No. 3RP-1003 Incident ID No. nCS1507252223

January 18, 2021(Revised November 10, 2021) Ensolum Project No. 05A1226026

Prepared for:

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

Prepared by:

Ranee Deechilly

Environmental Scientist

Kyle Summers, CPG Senior Project Manager

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Appendix C: **Photographic Documentation**

Appendix D: **Regulatory Correspondence**

Appendix E: **Tables**

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Supplemental Soil Remediation and Groundwater Monitoring Report

New Mexico EMNRD OCD RP No. 3RP-1003

Ensolum Project No. 05A1226026

1.0 INTRODUCTION

This report documents the 2020 soil remediation activities and groundwater monitoring activities at the Masden Gas Com #1E site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Masden Gas Com #1E (2/05/2015)
Incident ID	nCS1507252223
Location:	36.70096° North, 108.00164° West Northwest (NW) ¼, Section 28, Township 29 North, Range 11 West Bloomfield, San Juan County, New Mexico
Property:	Private Land
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

A release of natural gas was discovered at the Site on February 4, 2015. Enterprise performed pipeline repair activities and removed petroleum hydrocarbon-affected soils from the Site. During corrective action activities, groundwater was encountered at four feet below grade surface (bgs). Souder, Miller & Associates (SMA) collected five soil samples and one water sample from the pipeline repair excavation. Analytical results identified constituent of concern (COC) concentrations above the New Mexico EMNRD OCD closure criteria in soil and above New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) in groundwater (Masden Gas Com #1E Pipeline Release and Subsurface Water Investigation Plan, SMA, April 17, 2015).

During July 2015, SMA performed site investigation activities to evaluate the apparent impact to shallow groundwater. SMA installed and sampled five groundwater monitoring wells (MW-1 through MW-5). The resulting groundwater analytical results identified COC concentrations above WQCC GQSs in monitoring wells MW-2 and MW-3 (Masden Gas Com #1E Monitoring Well Installation & Sampling Report, SMA, August 25, 2015).

During February 2016, Apex TITAN, Inc. (Apex) conducted a groundwater monitoring event at the Site. Analytical results indicated benzene concentrations above applicable WQCC GQSs in monitoring well MW-2 (Masden Gas Com #1E Groundwater Monitoring Report (February 2016 Event), Apex, April 18, 2016).

During October 2016, a work plan was submitted to the New Mexico EMNRD OCD that described Enterprise's proposed plan to implement supplemental corrective action activities (groundwater removal) at monitoring well MW-2 to reduce COC concentrations in groundwater and to conduct groundwater monitoring at the Site to evaluate the pumping effectiveness (*Supplemental Corrective Action and Groundwater Monitoring Work Plan, Apex, October 3, 2016*). Since the approval of the work plan, approximately 3,000 gallons of total fluids were removed from monitoring well MW-2, and a combination of quarterly and semi-annual monitoring have been performed. During February 2019, Enterprise reassigned management of the project to Ensolum, LLC (Ensolum).



The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, depicts the approximate locations of the monitoring wells in relation to pertinent structures and general Site boundaries, is included as **Figure 2** of **Appendix A**.

1.2 Project Objective

The objective of the interim soil remediation activities and groundwater monitoring/pumping events was to: 1) reduce residual COC concentrations in the on-site soils to below the applicable New Mexico EMNRD OCD closure criteria; 2) reduce COC concentrations at the Site by implementing total fluids pumping at the Site; and 3) further evaluate the concentrations of COCs in groundwater over time at the Site.

The intermittent total fluids removal and quarterly/semi-annual groundwater monitoring activities discussed herein are based on a work plan submitted to the New Mexico EMNRD OCD prepared by Apex on behalf of Enterprise (*Supplemental Corrective Action and Groundwater Monitoring Work Plan*, Apex, October 3, 2016).

2.0 SOIL AND GROUNDWATER CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address the activities related to oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites subject to reporting and/or corrective action. Ensolum utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for soils at the Site. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (NMAC 20.6.2 *Ground and Surface Water Protection*) to evaluate groundwater conditions. The following identifies the applicable siting criteria for the Site.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). Numerous PODs were identified near the Site. The average depth to water for PODS located in the same Public Land Survey System (PLSS) section as the Site and additional PODs located in adjacent PLSS sections is 19 feet bgs. The average depth to water observed in the on-Site groundwater monitoring wells is four feet bgs.
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. An ephemeral wash is located approximately 183 feet south of the Site.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is located within 300 feet of a permanent residence, school, hospital, institution, or church. There are several permanent residences located near the Site. The closest permanent residence is located approximately 80 feet from the Site.
- Based on information provided in the OSE WRRS database there are no springs or private domestic fresh water wells used by less than five households for domestic or stock watering

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



purposes identified within 500 feet of the Site. However, nearby residences may have unregistered water wells.

- Based on information provided in the OSE WRRS database there are fresh water wells within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is located within 300 feet of a wetland. The Site is located approximately 177 feet northwest of a forested/shrub riparian area and approximately 298 feet northwest of a freshwater forested/shrub wetland.
- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS), Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is located within a 100-year floodplain.

Applicable closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release				
Constituent*	Method	Limit		
Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg		
TPH (GRO+DRO+MRO) ^A	EPA SW-846 Method 8015	100 mg/kg		
BTEX ^B	EPA SW-846 Method 8021 or 8260	50 mg/kg		
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg		

^{* -} Constituent concentrations are in milligrams per kilograms (mg/kg).

Cleanup goals for groundwater located at the Site include:

WQCC Standards for Groundwater ¹				
Constituent*	Method	Limit		
Xylenes	EPA SW-846 Method 8021 or 8260	620 μg/L		
Ethylbenzene	EPA SW-846 Method 8021 or 8260	750 μg/L		
Toluene	EPA SW-846 Method 8021 or 8260	750 μg/L		
Benzene	EPA SW-846 Method 8021 or 8260	10 μg/L		

^{* –} Constituent concentrations are in micrograms per liter (μg/L).

A – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

^B – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



3.0 SOIL REMEDIATION ACTIVITIES

On March 5, 2020, Enterprise initiated pipeline repair activities at the Site to facilitate the replacement of a section of pipe under the road next to the well pad. During these activities Enterprise elected to attempt to remove potential residual soil impact from the 2015 release. During the remediation and corrective action activities, Sunland Construction, Inc., (Sunland) provided heavy equipment and labor support, while Ensolum provided environmental consulting support. Monitoring well MW-2 was inadvertently destroyed during excavation activities.

The final excavation measured approximately 41 feet long and 31 feet wide at the maximum extents. The maximum depth of the excavation measured approximately six feet bgs. Groundwater was encountered at approximately four feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of gravel/cobbles, unconsolidated silty sand, and sand.

Approximately 236 cubic yards of soil and 460 barrels (bbls) of water were transported to the Industrial Ecosystems, Inc., (IEI) landfarm on Crouch Mesa near Aztec, New Mexico for disposal/remediation. The executed C-138 waste acceptance form is provided in **Appendix B**. The excavation was backfilled with imported fill and then resurfaced to provide a suitable driving surface.

Figure 3 is a map that identifies the approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.1 Soil Sampling Program

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of six composite soil samples (MS-1 through MS-6) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each, and each sample represents an estimated 200 square foot (ft²) sample area per guidelines outlined in 19.15.29.12 Section D NMAC. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation. A backhoe, operated by Sunland, was utilized to obtain fresh aliquots from portions of the excavation sidewalls that were inaccessible due to the water in the excavation. Regulatory correspondence is provided in **Appendix D**.

On March 6, 2020, sampling was performed at the Site. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples MS-1 (0'-6'), MS-2 (0'-6'), MS-3 (0'-6'), MS-4 (0'-5'), and MS-5 (0'-5') were collected from the sidewalls of the excavation. Composite soil sample MS-6 (4') was collected from the soil supporting the water line. The floor of the excavation was approximately two feet below the level of groundwater and was not sampled.

The soil samples were placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.2 Soil Laboratory Analytical Methods

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) Method SW-846 #8021; TPH GRO/DRO/MRO using EPA Method SW-846 #8015; and chlorides using EPA Method #300.0.



The laboratory analytical results are summarized in **Table 1** in **Appendix E**. The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix F**.

3.3 Soil Data Evaluation

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with composite soil samples (MS-1 through MS-6) to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results are summarized in **Table 1** (**Appendix E**).

3.4 Reclamation and Revegetation

The excavation was backfilled with imported fill and resurfaced to provide a suitable driving area.

4.0 GROUNWATER MONITORING WELL INSTALLATION

On May 24, 2021, one soil boring was advanced at the Site utilizing a hollow stem auger drilling rig. The soil boring was then completed as a permanent monitoring well to replace monitoring well MW-2 that was destroyed during 2020 pipeline replacement activities. Two soil samples (MW-2(r) @ 5-7' and MW-2(r) @ 7-9') were collected from the soil boring and were submitted for laboratory analysis. The soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for HEAL of Albuquerque, New Mexico, under proper chain-of-custody procedures.

The monitoring well was completed as follows:

- Installation of 5 feet of two-inch diameter, machine slotted (0.010 inch) schedule 40 polyvinyl chloride (PVC) well screen assembly with a threaded bottom plug;
- Installation of schedule 40 PVC riser pipe to surface;
- Addition of graded silica sand for annular sand pack around the well screen from the bottom of the well to above the top of the screen;
- Placement of two feet of hydrated bentonite above the sand;
- · Addition of cement to the surface; and
- Installation of a flush mounted traffic-rated well vault.



The monitoring well was developed by surging and removing groundwater until the fluid appeared relatively free of fine-grained sediment.

4.1 Soil Laboratory Analytical Program

The soil samples collected from the soil boring were analyzed for BTEX using EPA SW-846 Method #8021, TPH GRO/DRO/MRO using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

The soil boring laboratory results are summarized in **Table 1** (**Appendix E**). The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F**.

4.2 Soil Data Evaluation

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory PQLs/RLs associated with the soil boring samples to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical result for soil sample MW-2(r) @ (5'-7') indicates a benzene concentration
 of 0.058 mg/kg, which is below the New Mexico EMNRD OCD closure criteria of 10 mg/kg. The
 laboratory analytical result for soil sample MW-2(r) @ (7'-9') indicates benzene is not present at a
 concentration greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD
 OCD closure criteria of 10 mg/kg.
- The laboratory analytical result for soil sample MW-2(r) @ (5'-7') indicates a total BTEX concentration of 0.50 mg/kg, which is below the New Mexico EMNRD OCD closure criteria of 50 mg/kg The laboratory analytical result for soil sample MW-2(r) @ (7'-9') indicates total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical result for soil sample MW-2(r) @ (5'-7') indicates a combined TPH GRO/DRO/MRO concentration of 33 mg/kg, which is below the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical result for soil sample MW-2(r) @ (7'-9') indicates combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the soil samples collected from the soil boring indicate chloride
 is not present in concentrations greater than laboratory PQLs/RLs, which are less than the New
 Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results for the soil boring samples are summarized in Table 1 (Appendix E).

5.0 GROUNDWATER REMEDIATION

Eleven groundwater pumping and disposal events were conducted at monitoring well MW-2 during May 2018, July 2018, August 2018, September 2018, October 2018, November 2018, and January 2019 by Apex and during February 2019, March 2019, and August 2019 by Ensolum. Apex and Ensolum utilized a portable submersible pump to remove approximately 3,000 gallons of affected groundwater since 2018. Each pumping event during the first two quarters of 2020 ended prematurely with the failure of the submersible pump. Purged groundwater was disposed of at Basin Disposal.

Monitoring well MW-2 was destroyed during March 2020. Pumping will resume (if necessary) based on observed COC concentrations.



6.0 GROUNDWATER MONITORING

6.1 Groundwater Sampling Program

Ensolum did not have access to groundwater reports for the Site after February 2016 and has created new maps and tables to document both the recent and historical data. Groundwater sampling events were conducted during November 2016, February 2017, July 2017, November 2017, January 2018, April 2018, July 2018, October 2018, and January 2019 by Apex and during August 2019, January 2020, September 2020, January 2021, and July 2021 by Ensolum. The Apex and Ensolum groundwater sampling programs consisted of the collection of one groundwater sample from each of the viable monitoring wells at the Site. During March 2020, monitoring well MW-2 was destroyed during excavation activities and therefore only four viable monitoring wells were available for sampling during the September 2020 and January 2021 sampling events. Monitoring well MW-2R was installed during May 2021 to replace monitoring well MW-2 and was sampled during July 2021.

A portion of the information, data, and conclusions provided in the following sections and attached figures are based on information provided by Apex to Enterprise, and eyewitness accounts.

The groundwater sampling programs consist of the following activities:

- Prior to sample collection, the depth to fluids in each monitoring well are gauged using an interface probe capable of detecting non-aqueous phase liquids (NAPL).
- When possible, each monitoring well is sampled utilizing micro-purge low-flow sampling techniques. Low-flow or low-stress sampling refer to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three successive readings.
- Monitoring well MW-2 exhibited a casing obstruction in August 2019 and January 2020, which did
 not permit the use of the bladder pump for sampling. Based on an inspection of the well, the well
 casing appears to have been compromised by road maintenance activities. As a result, this
 monitoring well was purged three casing volumes utilizing a small-diameter disposable bailer.
 Subsequent to the completion of the purging process and the recovery of groundwater to static
 levels, one groundwater sample was collected from the monitoring well.
- The groundwater samples were collected in laboratory-supplied vials (pre-preserved with mercuric chloride (HgCl₂)). The vials were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The groundwater samples were relinquished to the courier for HEAL of Albuquerque, New Mexico under proper chain-of-custody procedures.

6.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the 2016-2021 groundwater sampling events were analyzed for BTEX using EPA Method SW-846 #8021 or #8260.



The laboratory analytical results are summarized in **Table 2** in **Appendix E**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F**.

6.3 Groundwater Flow Direction

Each of the monitoring wells has been surveyed to determine top-of-casing (TOC) elevations. In July 2021, each of the monitoring wells were re-surveyed. Based on gauging data, the groundwater flow direction at the Site is generally toward the southwest. The observed gradients during the 2016-2021 monitoring events averaged approximately 0.002 feet per foot (ft/ft) across the Site.

Groundwater elevation data collected during the 2016, 2017, 2018, 2019, 2020, and 2021 gauging events (as well as historical gauging data) are presented in **Table 3** (**Appendix E**). Ensolum created new gradient maps for all events after February 2016. These maps are included as **Figures 4A** through **4N** (**Appendix A**).

6.4 Groundwater Data Evaluation

Ensolum performed a full review of groundwater monitoring data going back to February of 2016. Ensolum compared the BTEX laboratory analytical results or laboratory PQLs/RLs associated with the groundwater samples collected from the monitoring wells (MW-1 through MW-5) during each groundwater monitoring event from February 2016 through July 2021.to the New Mexico WQCC GQSs.¹ The results of the groundwater sample analyses are summarized in **Table 2** of **Appendix E**. Groundwater Quality Standards Exceedance Zone maps are provided as **Figures 5A** through **5N** of **Appendix A**.

November 2016 Sampling Event

- The groundwater sample collected from monitoring well MW-2 during the November 2016 sampling event exhibited a benzene concentration of 160 μg/L, which exceeded the WQCC GQS of 10 μg/L.¹
 The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the November 2016 sampling event did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 through MW-5 during the November 2016 sampling event did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

2017 Sampling Events

- The groundwater samples collected from monitoring well MW-2 during the 2017 sampling events exhibited benzene concentrations ranging from 44 μg/L (July 2017) to 260 μg/L (February 2017), which exceeded the WQCC GQS of 10 μg/L.¹ The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the three 2017 sampling events did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 through MW-5 during the 2017 sampling events did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



2018 Sampling Events

- The groundwater samples collected from monitoring well MW-2 during the 2018 sampling events exhibited benzene concentrations ranging from 21 micrograms per liter (μg/L) (January 2018) to 330 μg/L (July 2018), which exceeded the WQCC GQS of 10 μg/L.¹ The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the four 2018 sampling events did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 through MW-5 during the 2018 sampling events did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

2019 Sampling Events

- The groundwater samples collected from monitoring well MW-2 during the 2019 sampling events exhibited benzene concentrations of 600 μg/L (January 2019) and 150 μg/L (August 2019), which exceeded the WQCC GQS of 10 μg/L.¹ The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the two 2019 sampling events did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 through MW-5 during the two 2019 sampling events did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

2020 Sampling Events

- The groundwater sample collected from monitoring well MW-2 during the January 2020 sampling event exhibited a benzene concentration of 830 μg/L, which exceeds the WQCC GQS of 10 μg/L.¹
 The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the January and September 2020 sampling events did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the January and September 2020 sampling events did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

2021 Sampling Events

- The groundwater samples collected from monitoring wells MW-1, and MW-3 through MW-5 during the January and July 2021 sampling events did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹ The groundwater sample collected from replacement monitoring well MW-2R during the July 2021 sampling event did not exhibit benzene concentrations above the WQCC GQS of 10 μg/L.¹
- The groundwater samples collected from monitoring wells MW-1 and MW-3 through MW-5 during the January and July 2021 sampling events did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹ The groundwater sample collected from

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



replacement monitoring well MW- MW-2R during the July 2021 sampling event did not exhibit toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.¹

No data qualifier flags were associated with the 2016 through 2021 groundwater analytical results.

7.0 FINDINGS

Based on field observations and laboratory analytical results from the soil remediation activities, and based on the evaluation of the analytical results from the 2016-2021 groundwater monitoring events, Ensolum presents the following findings:

- During the March 2020 supplemental soil remediation activities, six composite soil samples were collected from the excavation for laboratory analyses. Based on laboratory analytical results, the soils remaining at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- During the excavation activities, approximately 236 cubic yards of soil and 460 bbls of water were transported to the IEI landfarm for disposal/remediation. The excavation was backfilled with imported fill and was then resurfaced to provide a suitable driving area.
- During May 2021, a new monitoring well was installed at the Site to replace monitoring well MW-2
 that was destroyed during the 2020 pipeline repair activities. Soil samples collected from the
 replacement monitoring well did not exhibit COC concentrations above the applicable New Mexico
 EMNRD OCD closure criteria.
- The groundwater flow direction at the Site is generally towards the southwest, with an approximate gradient of 0.002 ft/ft across the Site.
- The analytical results for the groundwater samples collected from monitoring well MW-2 between 2016 and 2020 indicate that benzene concentrations were above the New Mexico WQCC GQSs. The analytical results for the remaining monitoring wells during these events do not indicate COC concentrations above the applicable WQCC GQSs.
- During 2019 and prior to the destruction of monitoring well MW-2, it appeared as though benzene
 concentrations were trending upwards, likely indicating that residual impacted soils were still
 adversely affecting the groundwater.
- The analytical results for the groundwater samples collected from monitoring wells MW-1, MW-2R, MW-3, MW-4, and MW-5 in July 2021 do not indicate COC concentrations above the applicable WQCC GQSs, apparently indicating successful removal of residual impacted soils at the Site.

¹ NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.



8.0 RECOMMENDATIONS

Based on these findings, Ensolum recommends the following:

- Report the soil remediation results and groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue quarterly groundwater monitoring at the Site.
- If conditions warrant, resume groundwater pumping and disposal events.
- If necessary, evaluate additional corrective action alternatives for the remediation of affected groundwater.
- Request that the New Mexico EMNRD OCD make a determination regarding closure standards at historic groundwater sites that predate the 2018 rule change.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum'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. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

9.2 Limitations

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 Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

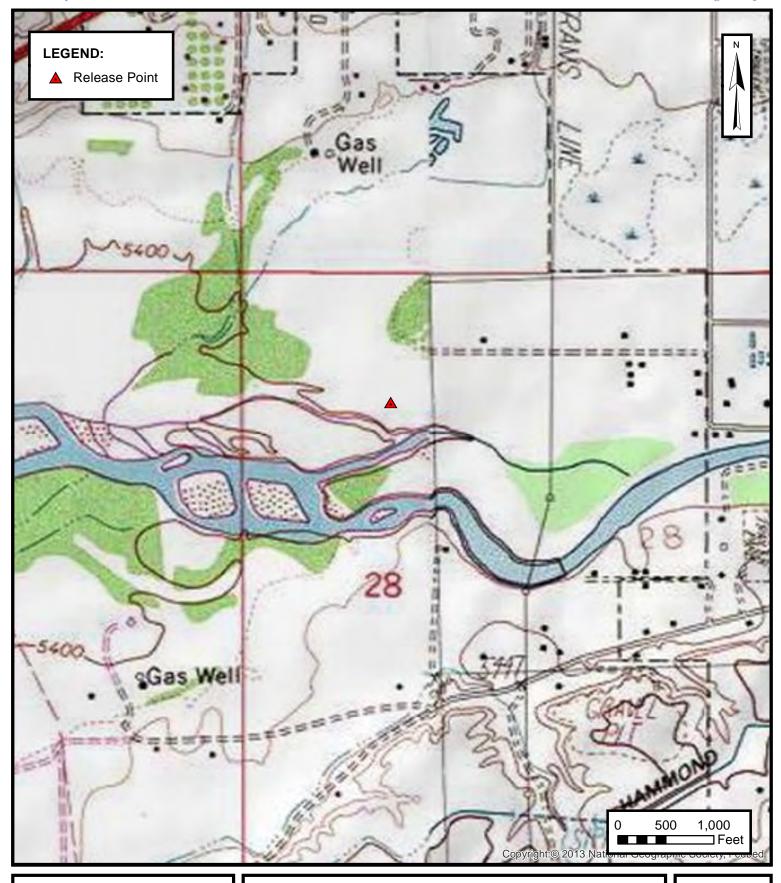
9.3 Reliance

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 express written authorization of Enterprise and Ensolum. 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 report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures





TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E (2/05/2015) NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE



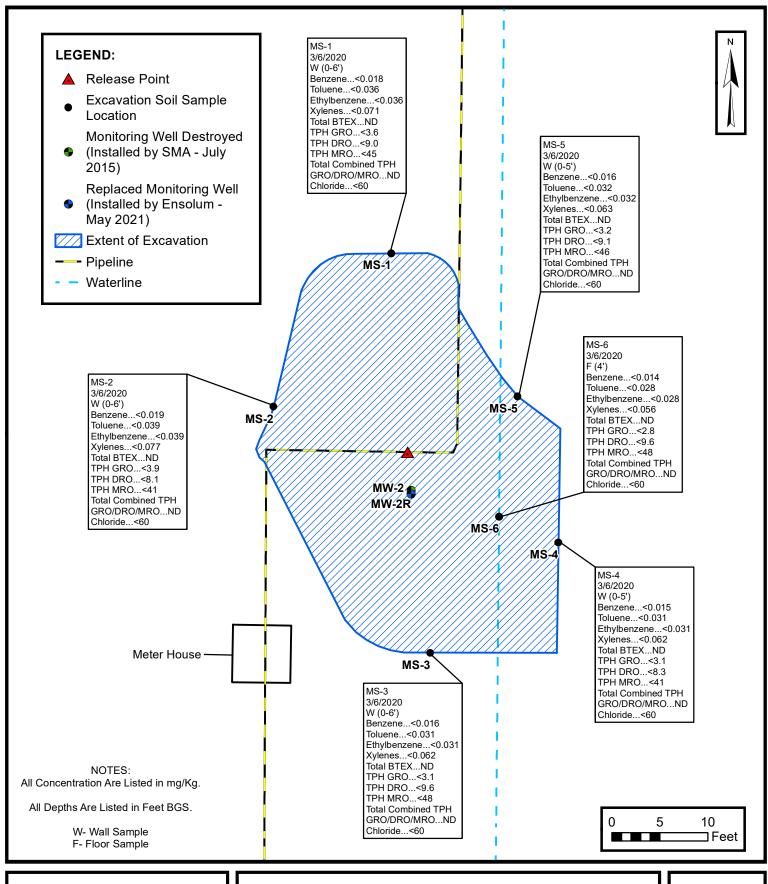


SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE





2020 EXCAVATION WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC

MASDEN GAS COM #1E

N 1/4 S28 T29N R11W San Juan County New May

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

LEGEND:

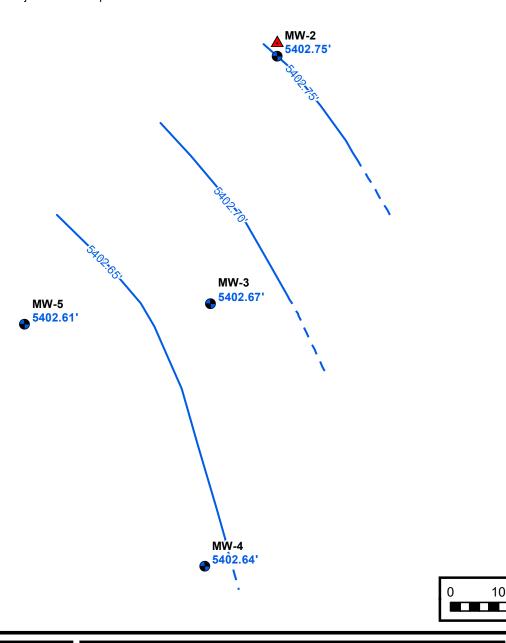
- Release Point
- Monitoring Well Location
- Groundwater Elevation Contour (Contour Interval = 0.05')
- Inferred Groundwater Elevation Contour

NOTES:

Groundwater elevations in **blue** are listed in feet as measured from set OPUS adjusted control point.









GROUNDWATER GRADIENT MAP NOVEMBER 2016

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
V 1/2 S28 T29N R11W San Juan County New Mex

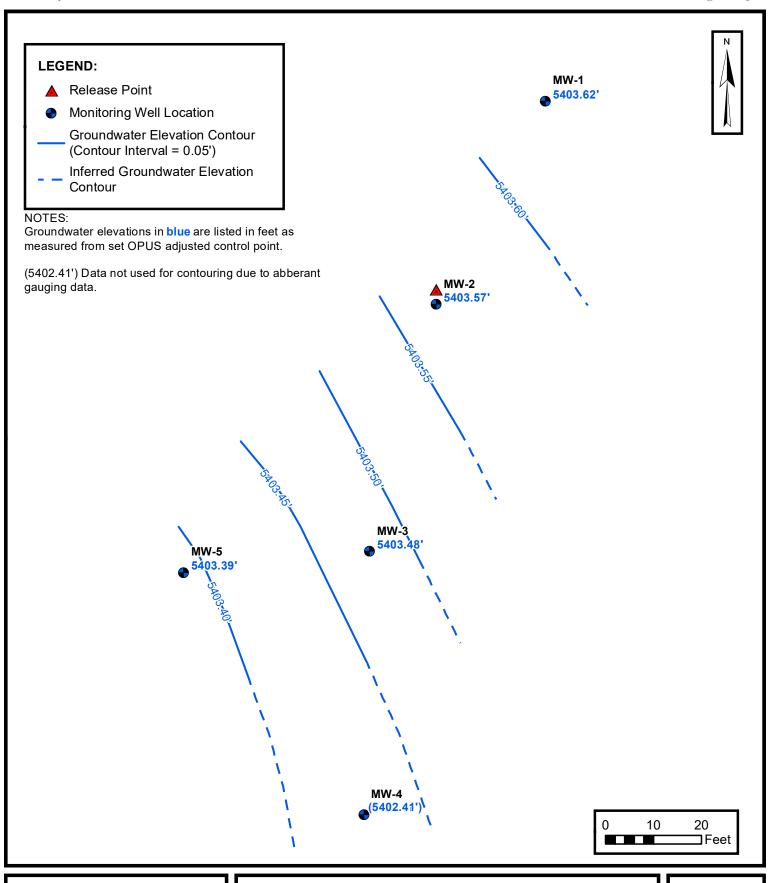
NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

20 ⊒Feet

4A





GROUNDWATER GRADIENT MAP FEBRUARY 2017

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4B

MW-1 **5402.63**' LEGEND: Release Point Monitoring Well Location Groundwater Elevation Contour (Contour Interval = 0.05") Inferred Groundwater Elevation Contour NOTES: Groundwater elevations in blue are listed in feet as measured from set OPUS adjusted control point. MW-2 5402.61' MW-3 5402.49' MW-4 5402.46' 10 20 Feet



GROUNDWATER GRADIENT MAP JULY 2017

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
V 1/4. S28 T29N R11W. San Juan County. New Mexic

NW $\frac{1}{4}$, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4C

LEGEND: MW-1 **5402.83**' Release Point Monitoring Well Location Groundwater Elevation Contour (Contour Interval = 0.05') Inferred Groundwater Elevation Contour NOTES: Groundwater elevations in blue are listed in feet as measured from set OPUS adjusted control point. MW-2 MW-3 5402.73 **MW-5** <u>5402.67</u> MW-4 5402.70' 10 20 Feet



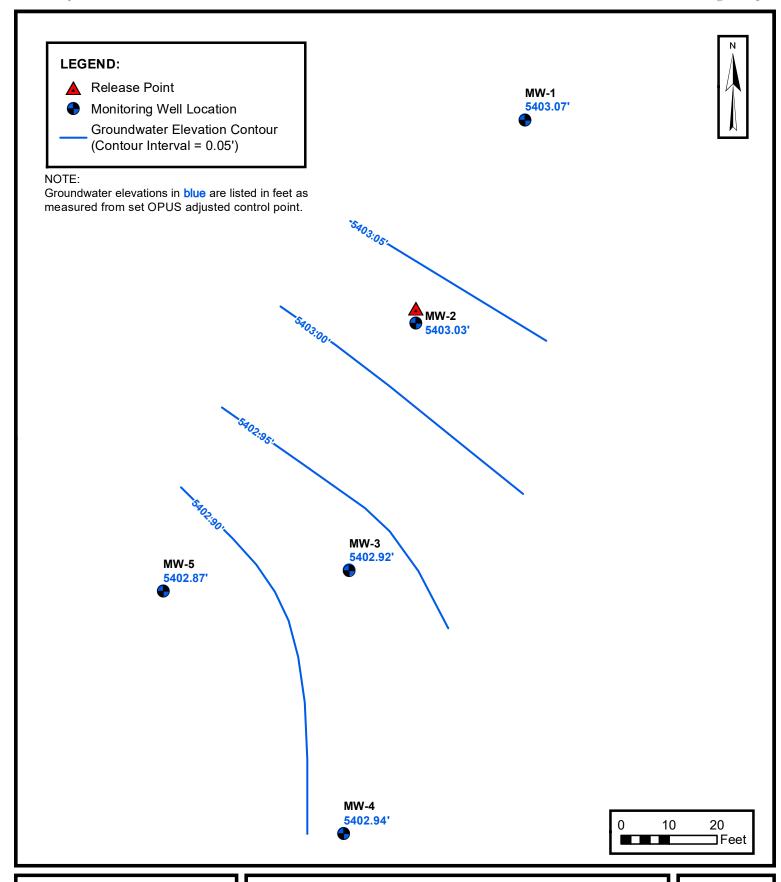
GROUNDWATER GRADIENT MAP NOVEMBER 2017

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 4D





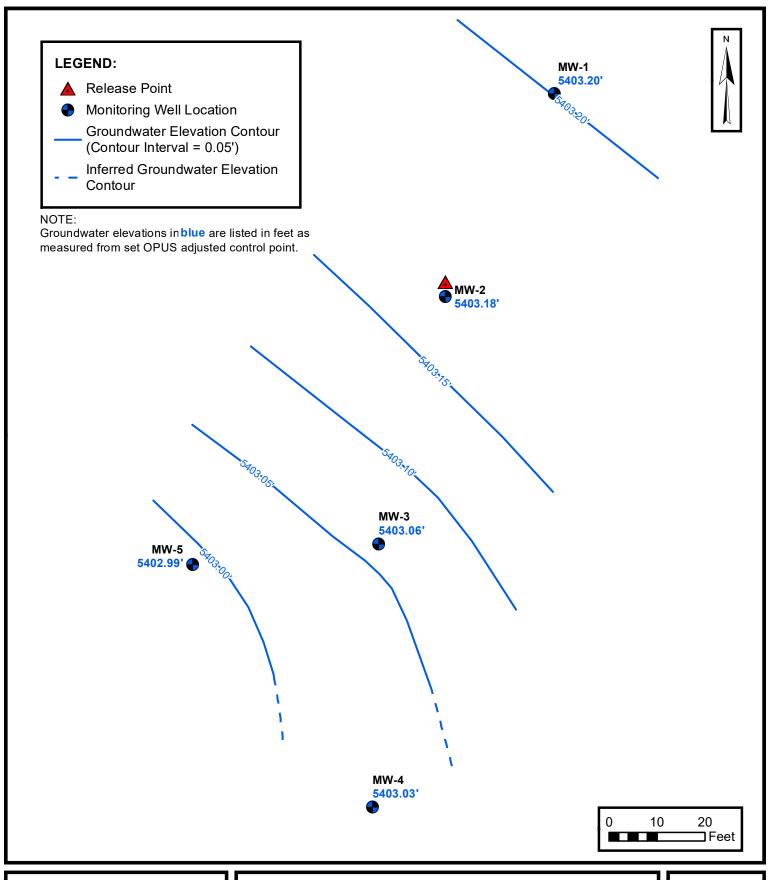
GROUNDWATER GRADIENT MAP JANUARY 2018

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4E





GROUNDWATER GRADIENT MAP APRIL 2018

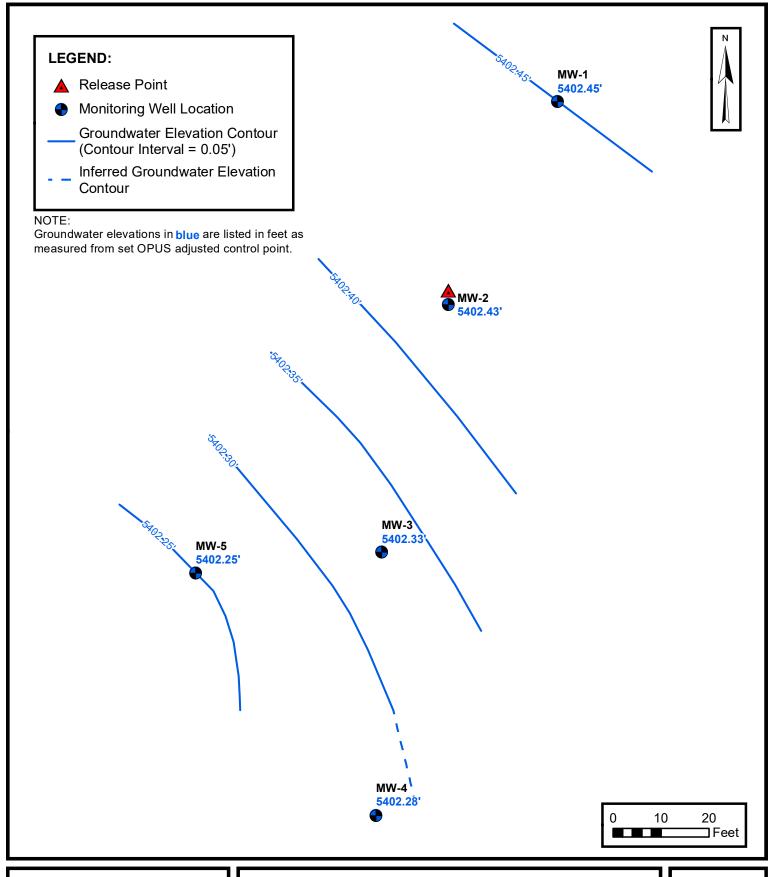
ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4F





GROUNDWATER GRADIENT MAP JULY 2018

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

NW ¼, S28 T29N R11W, San Juan County, New Mexic 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4G

LEGEND: Release Point MW-1 **(5402.55')** Monitoring Well Location **Groundwater Elevation Contour** (Contour Interval = 0.02') Inferred Groundwater Elevation Contour NOTES: Groundwater elevations in blue are listed in feet as measured from set OPUS adjusted control point. (5402.55') - Data not used for contouring due to abberant gauging data. MW-2 5402.56' MW-3 5402.50 MW-5 5402.44 MW-4 5402.48' 10 20 Feet

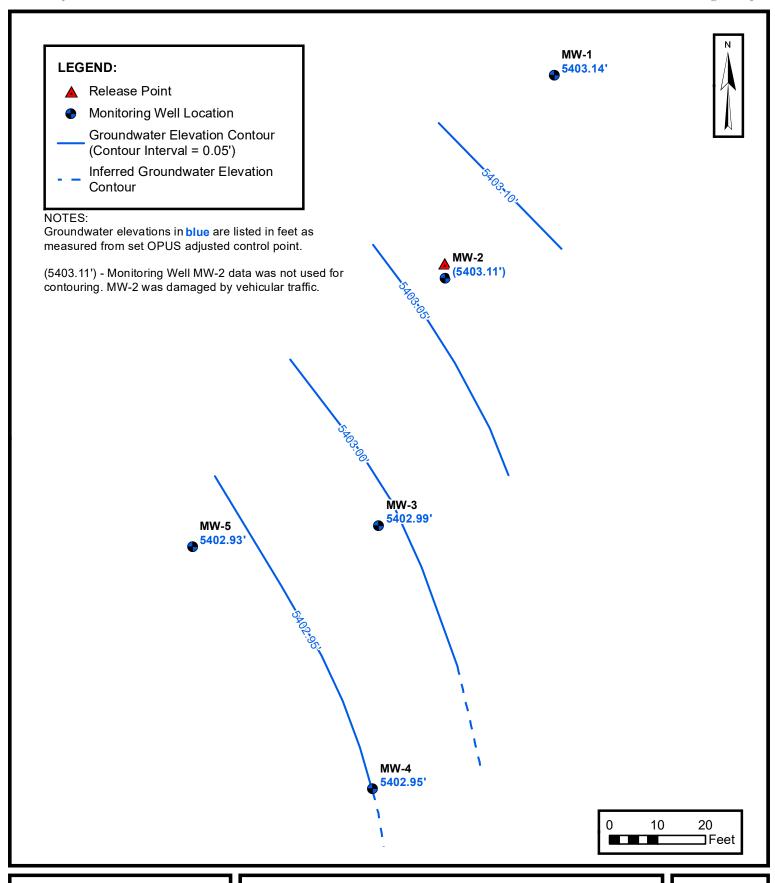


GROUNDWATER GRADIENT MAP OCTOBER 2018

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW ¼, S28 T29N R11W, San Juan County, New Mexico
36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 4H



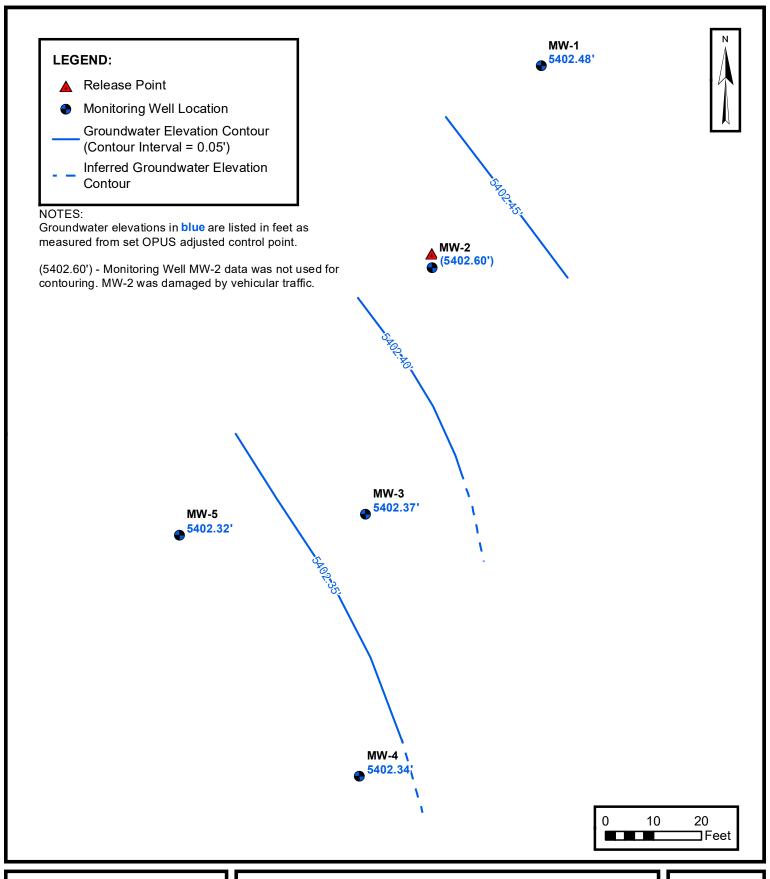


GROUNDWATER GRADIENT MAP JANUARY 2019

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW ¼, S28 T29N R11W, San Juan County, New Mexico
36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE





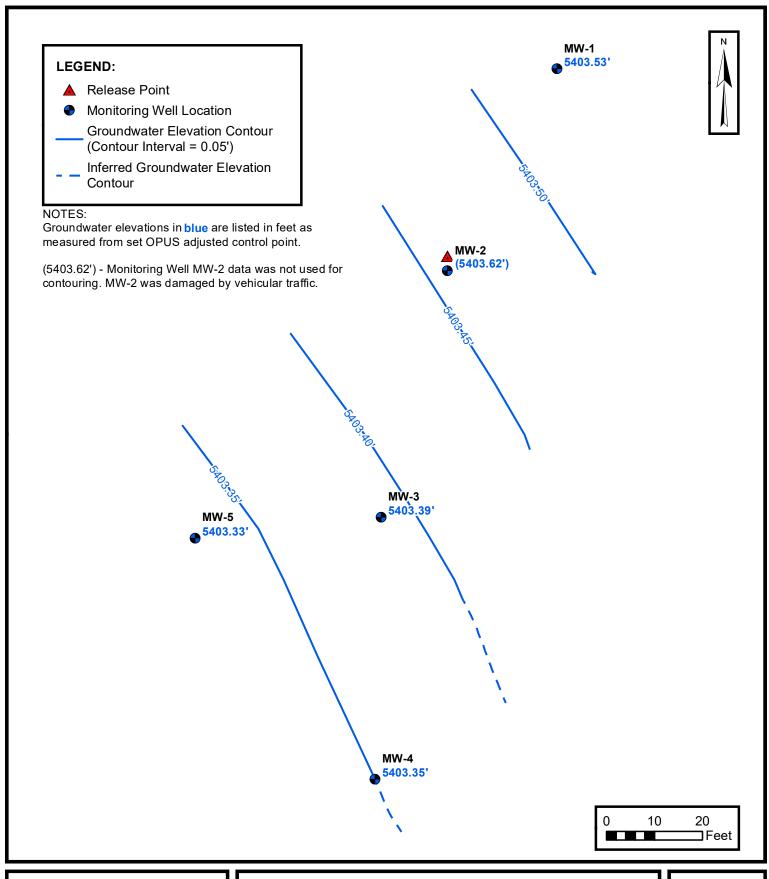
GROUNDWATER GRADIENT MAP AUGUST 2019

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW ¼, S28 T29N R11W, San Juan County, New Mexico
36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4J

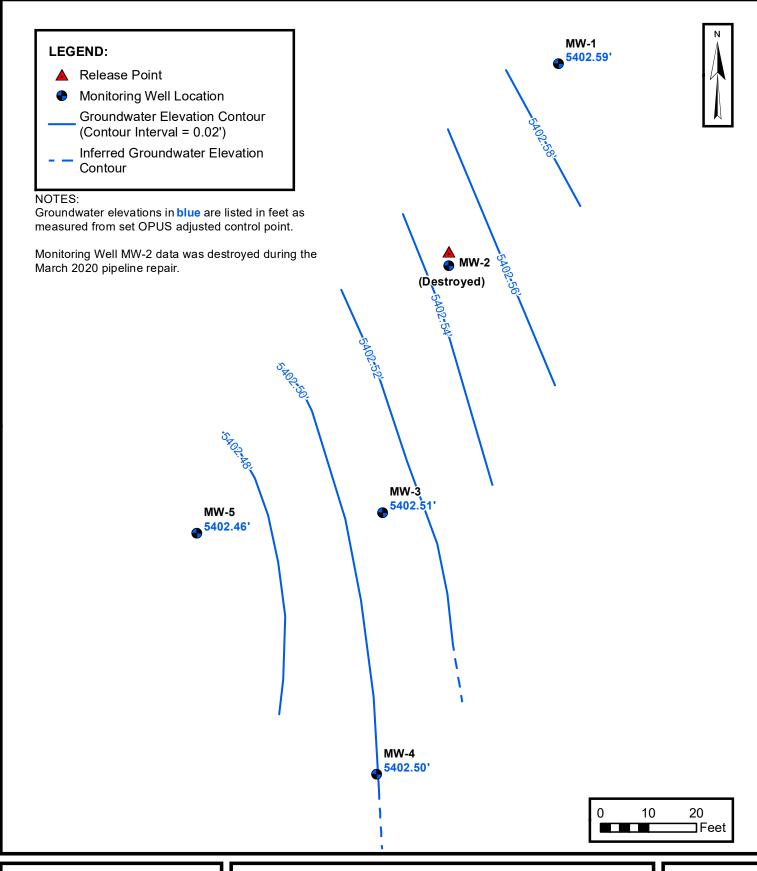




GROUNDWATER GRADIENT MAP JANUARY 2020

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

36.70096° N, 108.00164° W PROJECT NUMBER: 05A1226026 FIGURE **4K**





GROUNDWATER GRADIENT MAP SEPTEMBER 2020

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 4L

LEGEND: MW-1 Release Point 5403.19' Monitoring Well Location **Groundwater Elevation Contour** (Contour Interval = 0.05") Inferred Groundwater Elevation Contour NOTES: Groundwater elevations in blue are listed in feet as measured from set OPUS adjusted control point. Monitoring Well MW-2 data was destroyed during the March 2020 pipeline repair. MW-2 (Destroyed) MW-3 5403.03 MW-5 5402.96' 10 20 Feet



GROUNDWATER GRADIENT MAP JANUARY 2021

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
NW 1/4, S28 T29N R11W, San Juan County, New Mexico

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 4M

LEGEND: MW-1 Release Point 5402.75' Monitoring Well Location **Groundwater Elevation Contour** (Contour Interval = 0.05') NOTES: Groundwater elevations in blue are listed in feet as measured from set OPUS adjusted control point. Monitoring Well MW-2 data was destroyed during the March 2020 pipeline repair. The well was replaced (MW-2R) in May 2021. MW-2 (Destroyed) MW-2R 5402.66' MW-3 5402.56' MW-5 5402.50' MW-4 5402.46' 10 20 Feet



GROUNDWATER GRADIENT MAP JULY 2021

ENTERPRISE FIELD SERVICES, LLC
MASDEN GAS COM #1E
N 1/4 S28 T29N R11W San Juan County New Mey

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE

4N

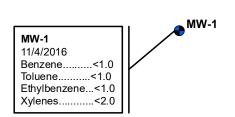
LEGEND: Release Point Monitoring Well Location Inferred Extent of GQS Exceedance Zone

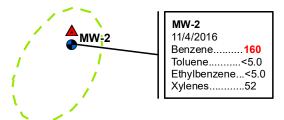
NOTES:

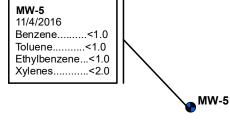
All concentrations are listed in µg/L.

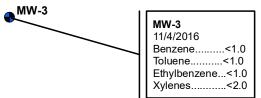
Concentrations in red exceed the applicable WQCC GQS.

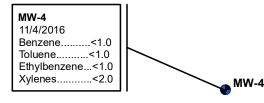
NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.

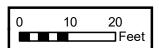














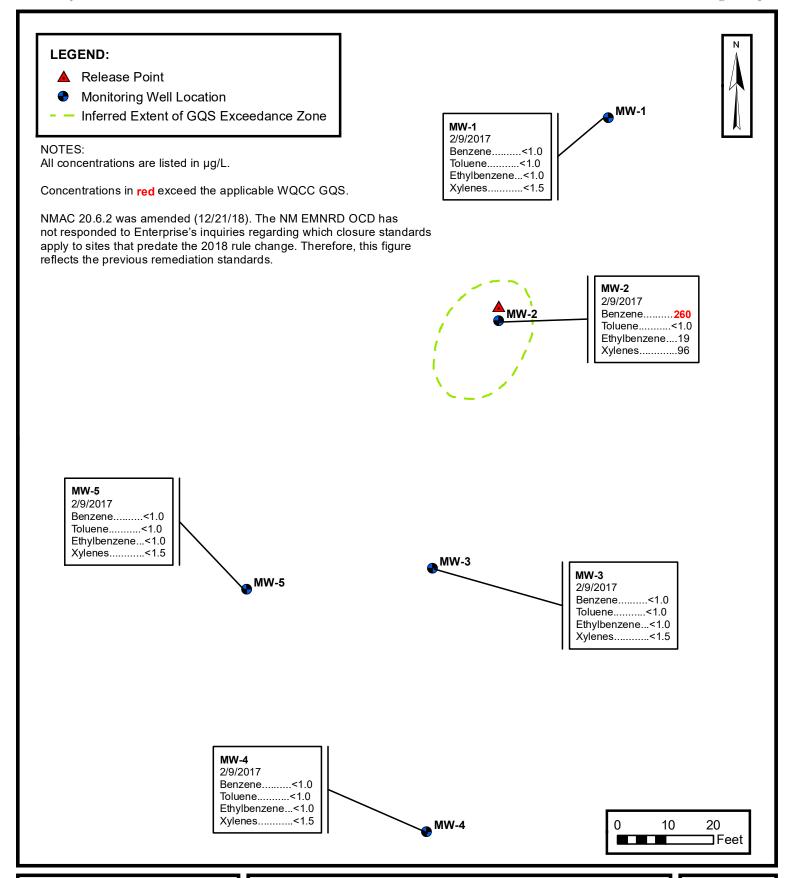
GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (NOVEMBER 2016)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW 1/4, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5A





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (FEBRUARY 2017)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5B**

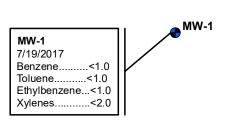
LEGEND: A Release Point ● Monitoring Well Location - Inferred Extent of GQS Exceedance Zone

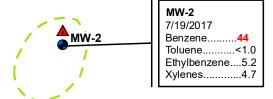
NOTES:

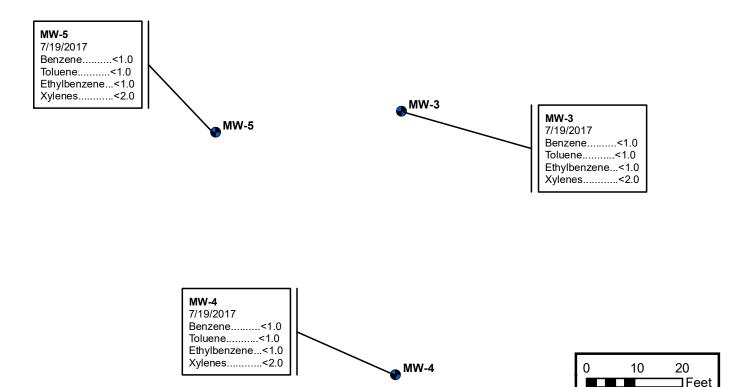
All concentrations are listed in µg/L.

Concentrations in red exceed the applicable WQCC GQS.

NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.









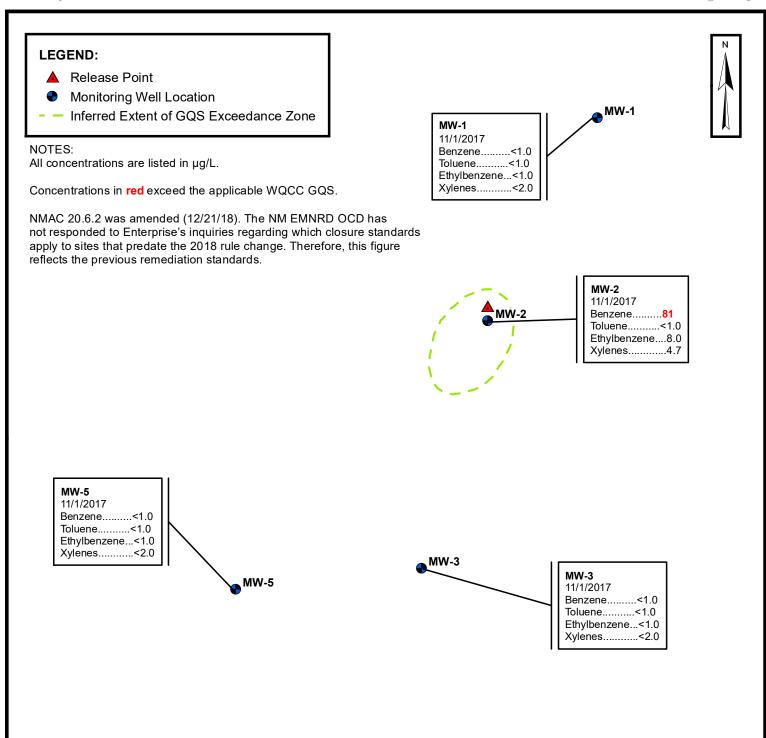
GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JULY 2017)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5C**





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (NOVEMBER 2017)

MW-4

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5D**

20 ⊐Feet

10

MW-4 11/1/2017 Benzene......<1.0 Toluene...<1.0 Ethylbenzene...<1.0 Xylenes....<2.0

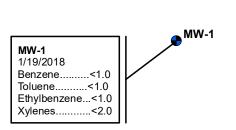
LEGEND: ▲ Release Point ● Monitoring Well Location - Inferred Extent of GQS Exceedance Zone

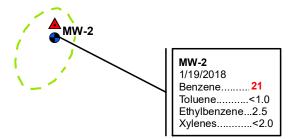
NOTES:

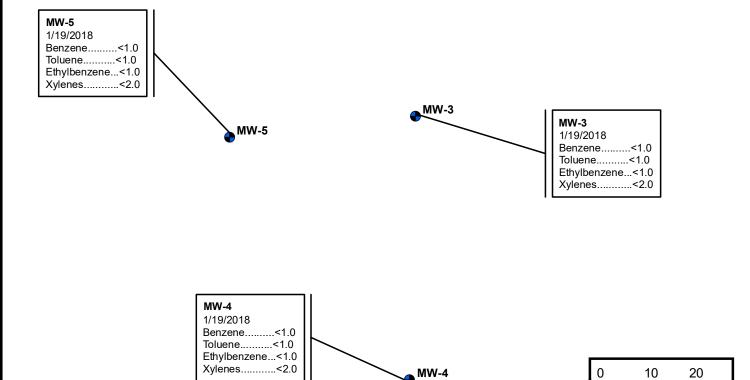
All concentrations are listed in µg/L.

Concentrations in red exceed the applicable WQCC GQS.

NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.









GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JANUARY 2018)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5E**

]Feet

LEGEND:

Release Point

Monitoring Well Location

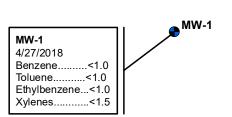
Inferred Extent of GQS Exceedance Zone

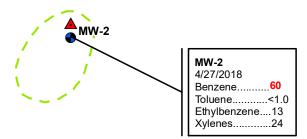
NOTES:

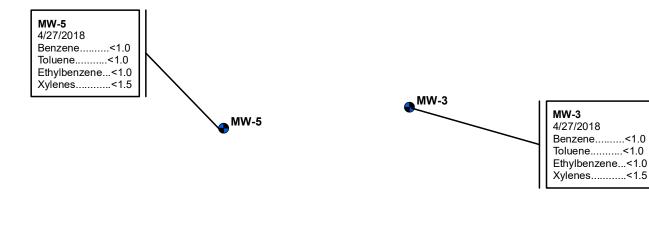
All concentrations are listed in µg/L.

Concentrations in red exceed the applicable WQCC GQS.

NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.







MW-4
4/27/2018
Benzene......<1.0
Toluene.....<1.0
Ethylbenzene...<1.0
Xylenes....<1.5

0 10 20 Feet



GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (APRIL 2018)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5F**

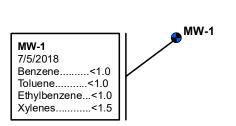
LEGEND: A Release Point → Monitoring Well Location - Inferred Extent of GQS Exceedance Zone

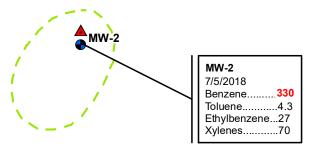
NOTES:

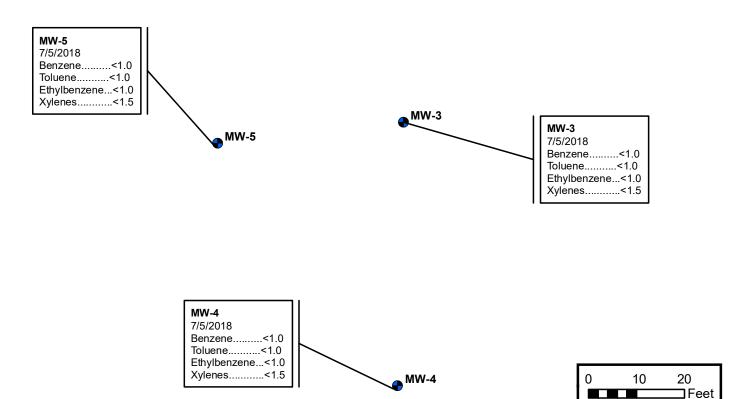
All concentrations are listed in µg/L.

Concentrations in red exceed the applicable WQCC GQS.

NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.









GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JULY 2018)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5G**

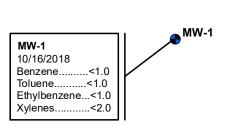
LEGEND: A Release Point ● Monitoring Well Location - Inferred Extent of GQS Exceedance Zone

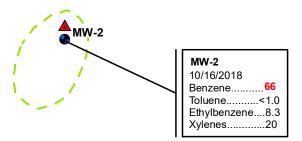
NOTES:

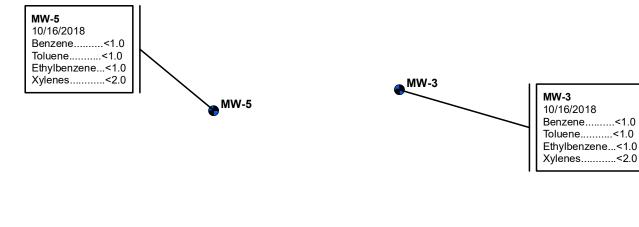
All concentrations are listed in µg/L.

Concentrations in red exceed the applicable WQCC GQS.

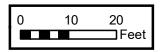
NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.













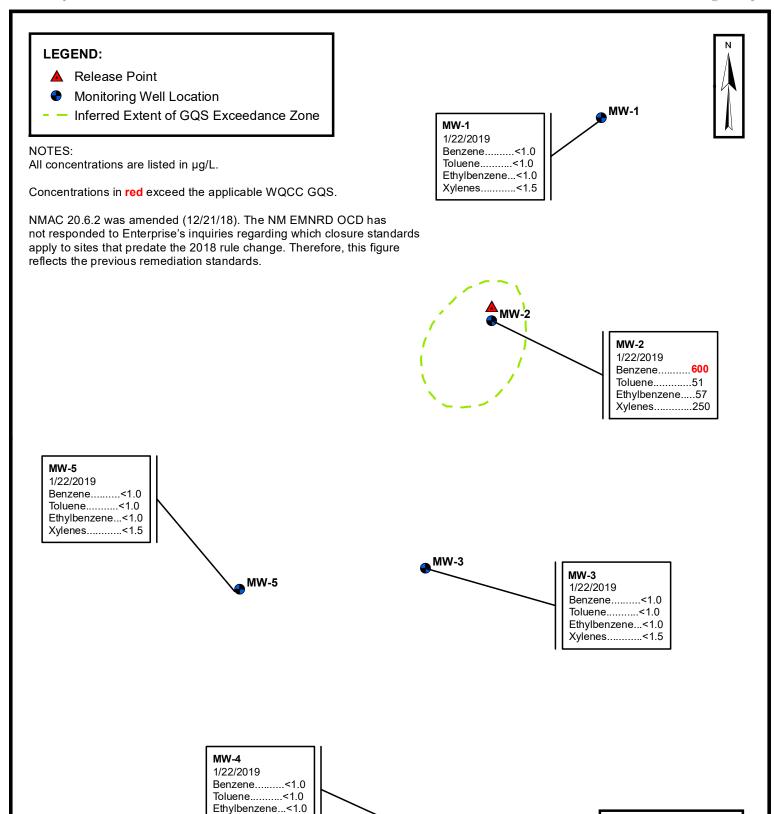
GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (OCTOBER 2018)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5H





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JANUARY 2019)

MW-4

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

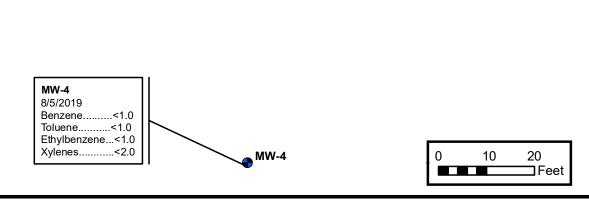
FIGURE 51

20 ⊐Feet

10

Xylenes.....<1.5

LEGEND: Release Point MW-1 Monitoring Well Location MW-1 8/5/2019 Inferred Extent of GQS Exceedance Zone Benzene.....<1.0 Toluene.....<1.0 Ethylbenzene...<1.0 NOTES: Xylenes.....<2.0 All concentrations are listed in µg/L. Concentrations in red exceed the applicable WQCC GQS. NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards. MW-2 8/5/2019 Benzene.....150 Toluene.....<1.0 Ethylbenzene....16.0 Xylenes......28 MW-5 8/5/2019 Benzene.....<1.0 Toluene.....<1.0 Ethylbenzene...<1.0 Xylenes.....<2.0 **MW-3** MW-3 MW-5 8/5/2019 Benzene.....<1.0





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (AUGUST 2019)

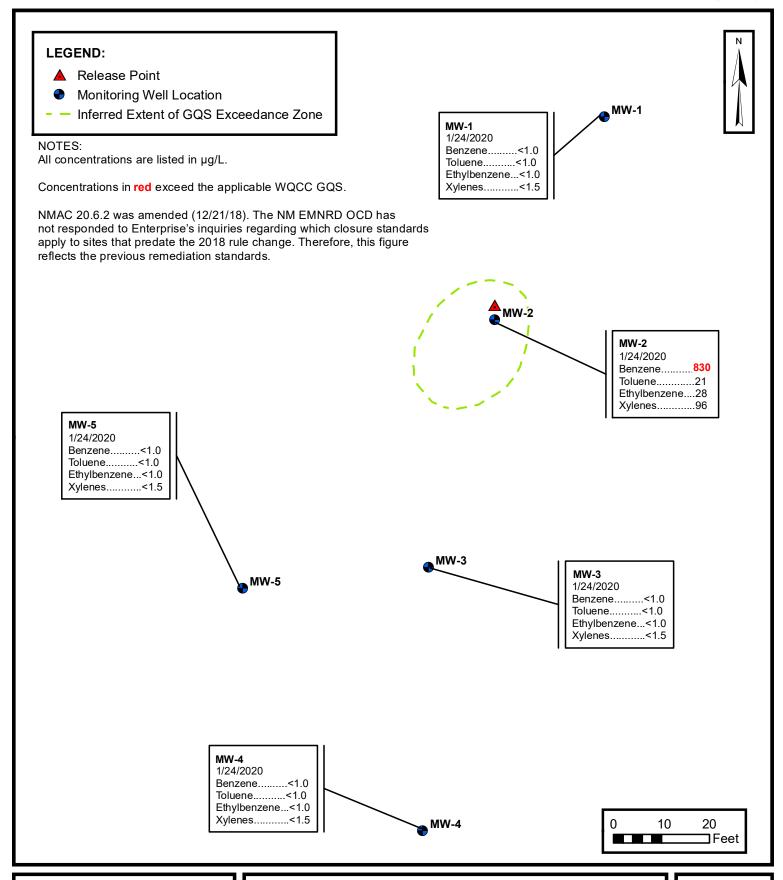
ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5J

Toluene.....<1.0 Ethylbenzene...<1.0 Xylenes.....<2.0





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JANUARY 2020)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE **5K**

LEGEND: Release Point

Monitoring Well Location

NOTES:

All concentrations are listed in µg/L.

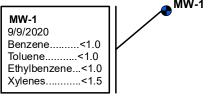
NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.

Monitoring well MW-2 was destroyed during the March 2020 pipeline repair.

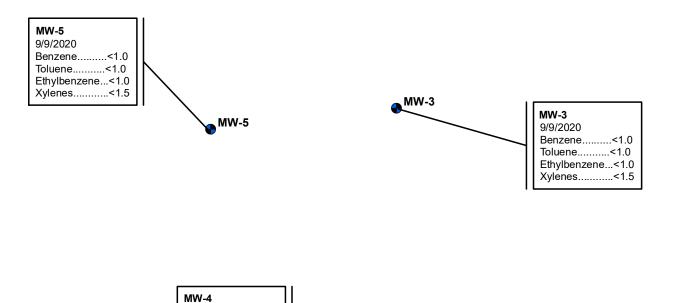
9/9/2020

Benzene.....<1.0 Toluene.....<1.0 Ethylbenzene...<1.0 Xylenes.....<1.5





MW-2 (Destroyed)





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (SEPTEMBER 2020)

▲ MW-4

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW 1/4, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5L

20 ∃Feet

10

LEGEND:

Release Point

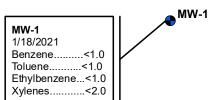
Monitoring Well Location

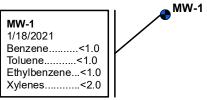
NOTES:

All concentrations are listed in µg/L.

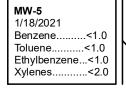
NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.

Monitoring well MW-2 was destroyed during the March 2020 pipeline repair.



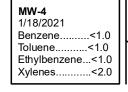


MW-2 (Destroyed)

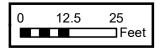


MW-5

MW-3 MW-3 1/18/2021 Benzene.....<1.0 Toluene.....<1.0 Ethylbenzene...<1.0 Xylenes.....<2.0



▲ MW-4





GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JANUARY 2021)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW 1/4, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5M

LEGEND:

Release Point

Monitoring Well Location

NOTES:

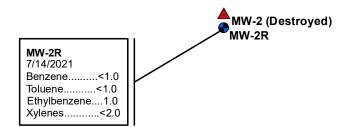
All concentrations are listed in µg/L.

NMAC 20.6.2 was amended (12/21/18). The NM EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards apply to sites that predate the 2018 rule change. Therefore, this figure reflects the previous remediation standards.

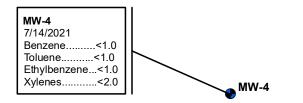
MW-1
7/14/2021
Benzene.....<1.0
Toluene....<1.0
Ethylbenzene..<1.0
Xylenes....<2.0

z

Monitoring well MW-2 was destroyed during the March 2020 pipeline repair.







0 10 20 Feet



GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (JULY 2021)

ENTERPRISE FIELD SERVICES, LLC MASDEN GAS COM #1E

NW ¼, S28 T29N R11W, San Juan County, New Mexico 36.70096° N, 108.00164° W

PROJECT NUMBER: 05A1226026

FIGURE 5N



APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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
220 S. St. Francis Dr., Santa Fe, NM 87505

State of No Energy Minerals an_

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

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

Received by OCD: 11/18/2021 2:46:21 PM

rm C-138 sed 08/01/11

	REQUEST FOR APPROVAL TO ACCEPT SOLID WAS	TE
	1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	
2.		40BBLS / 3-11-20
3.	B. Location of Material (Street Address, City, State or ULSTR): Unit Letter C Sec 28 T 29N R 11W, GPS 36.70080, -108.00131, San Juan County, NM	25 BB15-3/6/20
De	Source: Hydrocarbon Impacted Soils from a Pipeline Release.	140 yds - 3/5/20 140 BBLS - 3/5/20 55 yd (bbls)
5.		
cer	, representative or authorized agent for Enterprise Field Services, LLC do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protecting determination, the above described waste is: (Check the appropriate classification)	ction Agency's July 1988
)	☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standard characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined subpart D, as amended. The following documentation is attached to demonstrate the above-described waste the appropriate items)	d in 40 CFR, part 261,
	☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide de GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	escription in Box 4)
the I, _ rep hav	Thomas Long 3-4-2020, representative for Enterprise Products Operating authorizes IEI, Inc. to compare the required testing/sign the Generator Waste Testing Certification. The presentative for IEI, Inc. do hereby compresentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride compare been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15. If the representative samples are attached to demonstrate the above-described waste conform to the requirements	ertify that tent and that the samples 36 NMAC. The results
19. 5.	9.15.36 NMAC. Transporter: Kelly Oil Field Services	
oc	OCD Permitted Surface Waste Management Facility	11.129
	Name and Facility Permit #: JFJ Landfarm/Industrial Ecosystems, Inc. * Permit #: NM 01-0010B Address of Facility: #49 CR 2150 Aztec, New Mexico Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Landfarm Landfill Other	CL-139 PH-7
Wa	Vaste Acceptance Status: APPROVED DENIED (Must Be Maintaine	ad As Dermanant Record)
		DATE: 3/4/20



APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Soil Remediation and Groundwater Monitoring Report Masden Gas Com #1E (2/05/2015) Ensolum Project No. 05A1226026



Photograph 1

Photograph Description: View of in-process excavation activities.



Photograph 2

Photograph Description: View of in-process excavation activities.



Photograph 3

Photograph Description: View of in-process excavation activities.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Soil Remediation and Groundwater Monitoring Report Masden Gas Com #1E (2/05/2015) Ensolum Project No. 05A1226026



Photograph 4

Photograph Description: View of in-process excavation activities.

Part of the excavation was backfilled with clean fill in order to accommodate pipeline repairs.



Photograph 5

Photograph Description: View of the final pipeline repair.



Photograph 6

Photograph Description: View of in-process excavation activities, after the final pipeline repair.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Soil Remediation and Groundwater Monitoring Report Masden Gas Com #1E (2/05/2015) Ensolum Project No. 05A1226026



Photograph 7

Photograph Description: View of the final extent of the excavation.



Photograph 8

Photograph Description: View of the final extent of the excavation.





APPENDIX D

Regulatory Correspondence

From: <u>Long, Thomas</u>

To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"

Cc: Stone, Brian; Griswold, Jim, EMNRD

Subject: Masden Gas Com #1E (3R-1033); Unit Letter C Section 28 T 29N R 11W; 36.70080, -108.0013; San Juan

County, NM

Date: Thursday, March 5, 2020 10:53:00 AM

Cory,

This email is a follow up to our phone conversation earlier. Enterprise is performing maintenance activities on the Masden Gas Com #1E pipeline in preparation for a hydro-test. We are excavating additional impacted soil from the 2015 release area and this email is a notification that Enterprise will be collecting soil samples for laboratory analysis tomorrow, March 6, 2020 at 2:00 p.m. If you have any questions, please call or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tilong@eprod.com





APPENDIX E

Tables



TABLE 1 Masden Gas Com #1E Pipeline (2/05/2015) SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH	TPH	TPH	Total Combined	Chloride
		C- Composite	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH	(mg/kg)
		G - Grab							(mg/kg)	(mg/kg)	(mg/kg)	(GRO/DRO/MRO) (mg/kg)	
									(9/1.9/	(9/1.9)	(9/1.9)	(9/1.9/	
		Natural Resources rision Closure Criter		10	NE	NE	NE	50				100	600
					Exca	vation Compos	ite Soil Sample	s (2020)					
MS-1	3.06.20	С	0 to 6	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.0	<45	ND	<60
MS-2	3.06.20	С	0 to 6	<0.019	< 0.039	< 0.039	<0.077	ND	<3.9	<8.1	<41	ND	<60
MS-3	3.06.20	С	0 to 6	<0.016	<0.031	<0.031	<0.062	ND	<3.1	<9.6	<48	ND	<60
MS-4	3.06.20	С	0 to 5	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<8.3	<41	ND	<60
MS-5	3.06.20	С	0 to 5	<0.016	<0.032	<0.032	< 0.063	ND	<3.2	<9.1	<46	ND	<60
MS-6	3.06.20	С	4	<0.014	<0.028	<0.028	<0.056	ND	<2.8	<9.6	<48	ND	<60
						Soil Boring So	il Samples (202	:1)					
MW-2(r)@ 5-7'	5.24.21	С	5 to 7	0.058	<0.048	0.095	0.35	0.50	33	<10	<50	33	<60
MW-2(r)@ 7-9'	5.24.21	С	7 to 9	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.9	<49	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NE = Not Established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



TABLE 2 Masden Gas Com #1E (2/05/2015) GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride
		(μg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
	er Quality Control	Δ.	۸		Δ.	
	oundwater Quality dards	10 ^A	750 ^A	750 ^A	620 ^A	NE
	7.10.15	<1.0	<1.0	<1.0	<1.5	210
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
MW-1	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
10100-1	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	7.10.15	790	1,300	100	880	210
	2.26.16	640	35	55	470	NA
	11.04.16	160	<5.0	<5.0	52	NA
	2.09.17	260	<1.0	19	96	NA
	7.19.17	44	<1.0	5.2	4.7	NA
	11.01.17	81	<1.0	8.0	20	NA
MW-2	1.19.18	21	<1.0	2.5	<2.0	NA NA
IVIVV-Z	4.27.18	60	<1.0	13	24	NA NA
	7.05.18 10.16.18	330 66	4.3 <1.0	27 8.3	70 20	NA NA
	1.22.19	600	51	57	250	NA NA
	8.5.19	150	<1.0	16	28	NA NA
	1.24.20	830	21	28	96	NA NA
	9.09.20					
	1.18.21	Monit	oring Well was Dest	royed during the Ma	rch 2020 Pipeline R	epair.
MW-2R	7.14.21	<1.0	<1.0	1.0	<2.0	NA
	7.10.15	95	<5.0	<5.0	<7.5	180
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
MW-3	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
IVIVV-3	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA



TABLE 2 Masden Gas Com #1E (2/05/2015) GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride
Gumpic i.b.	Campic Bate	(μg/L)	(μg/L)	(μg/L)	λylenes (μg/L)	(mg/L)
		(µg/L)	(µg/L)	(µg/ =)	(µg/ =)	(g/L)
Commmission G	ter Quality Control froundwater Quality ndards	10 ^A	750 ^A	750 ^A	620 ^A	NE
	7.10.15	<1.0	<1.0	<1.0	<1.5	230
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
MW-4	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
10100-4	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA
	7.10.15	<2.0	<2.0	<2.0	<3.0	170
	2.26.16	<1.0	<1.0	<1.0	<2.0	NA
	11.04.16	<1.0	<1.0	<1.0	<2.0	NA
	2.09.17	<1.0	<1.0	<1.0	<1.5	NA
	7.19.17	<1.0	<1.0	<1.0	<2.0	NA
	11.01.17	<1.0	<1.0	<1.0	<2.0	NA
	1.19.18	<1.0	<1.0	<1.0	<2.0	NA
MW-5	4.27.18	<1.0	<1.0	<1.0	<1.5	NA
C-VVIVI	7.05.18	<1.0	<1.0	<1.0	<1.5	NA
	10.16.18	<1.0	<1.0	<1.0	<2.0	NA
	1.22.19	<1.0	<1.0	<1.0	<1.5	NA
	8.5.19	<1.0	<1.0	<1.0	<2.0	NA
	1.24.20	<1.0	<1.0	<1.0	<1.5	NA
	9.09.20	<1.0	<1.0	<1.0	<1.5	NA
	1.18.21	<1.0	<1.0	<1.0	<2.0	NA
	7.14.21	<1.0	<1.0	<1.0	<2.0	NA

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

A = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this table reflects the previous remediation standards.

NA = Not Analyzed

NE = Not Established

μg/L = microgram per liter

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



TABLE 3 Masden Gas Com #1E (2/05/2015) GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	TOC Elevations	Groundwater
		(f. (DT00)	(f. (DT00)		<i>(</i> , , , , , , , ,)	Elevation*
		(feet BTOC)	(feet BTOC)		(feet AMSL)	(feet AMSL)
	7.10.15	ND	6.68	ND		5402.84
	2.26.16	ND	6.13	ND		5403.39
	11.04.16	ND	6.73	ND		5402.79
	2.09.17	ND	5.90	ND		5403.62
	7.19.17	ND	6.89	ND		5402.63
	11.01.17	ND	6.69	ND		5402.83
	1.19.18	ND	6.45	ND		5403.07
MW-1	4.27.18	ND	6.32	ND	5409.52	5403.20
10100-1	7.05.18	ND	7.07	ND		5402.45
	10.16.18 ¹	ND	6.97	ND		5402.55
	1.22.19	ND	6.38	ND		5403.14
	8.05.19	ND	7.04	ND		5402.48
	1.24.20	ND	5.99	ND		5403.53
	9.09.20	ND	6.93	ND		5402.59
	1.18.21	ND	6.33	ND		5403.19
	7.14.21	ND	6.96	ND	5409.71	5402.75
	7.10.15	ND	3.97	ND		5402.70
	2.26.16	ND	3.31	ND		5403.36
	11.04.16	ND	3.92	ND		5402.75
	2.09.17	ND	3.10	ND		5403.57
	7.19.17	ND	4.06	ND		5402.61
	11.01.17	ND	3.88	ND		5402.79
	1.19.18	ND	3.64	ND	5406.67	5403.03
MW-2	4.27.18	ND	3.49	ND		5403.18
	7.05.18	ND	4.24	ND		5402.43
	10.16.18	ND	4.11	ND		5402.56
	1.22.19	ND	3.56	ND		5403.11
	8.05.19	ND	4.07	ND		5402.60
	1.24.20	ND	3.05	ND		5403.62
	9.09.20 1.18.21	Monite	oring Well was Dest	royed during the Ma	rch 2020 Pipeline R	epair.
MW-2R	7.14.21	ND	4.28	ND	5406.94	5402.66
	7.10.15	ND	6.89	ND		5402.56
	2.26.16	ND	6.20	ND		5403.25
	11.04.16	ND	6.78	ND		5402.67
	2.09.17	ND	5.97	ND		5403.48
	7.19.17	ND	6.96	ND		5402.49
	11.01.17	ND	6.72	ND		5402.73
	1.19.18	ND	6.53	ND		5402.92
MW-3	4.27.18	ND	6.39	ND	5409.45	5403.06
14144-0	7.05.18	ND	7.12	ND		5402.33
	10.16.18	ND	6.95	ND		5402.50
	1.22.19	ND	6.46	ND		5402.99
	8.05.19	ND	7.08	ND		5402.37
	1.24.20	ND	6.06	ND		5403.39
	9.09.20	ND	6.94	ND		5402.51
	1.18.21	ND	6.42	ND		5403.03
	7.14.21	ND	7.04	ND	5409.60	5402.56



TABLE 3 Masden Gas Com #1E (2/05/2015) GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product	Depth to Water	Product Thickness	TOC Elevations	Groundwater
		(feet BTOC)	(feet BTOC)		(feet AMSL)	Elevation* (feet AMSL)
	7.10.15	ND	6.71	ND		5402.50
	2.26.16	ND ND	6.00	ND ND		5402.30
	11.04.16	ND	6.57	ND ND		5402.64
	2.09.17	ND	6.80	ND ND		5402.41
	7.19.17	ND	6.75	ND ND		5402.46
	11.01.17	ND	6.51	ND		5402.70
	1.19.18	ND	6.27	ND		5402.94
	4.27.18	ND	6.18	ND	5409.21	5403.03
MW-4	7.05.18	ND ND	6.93	ND ND	0100.21	5402.28
	10.16.18	ND ND	6.73	ND		5402.48
	1.22.19	ND ND	6.26	ND		5402.95
	8.05.19	ND	6.87	ND		5402.34
	1.24.20	ND	5.86	ND		5403.35
	9.09.20	ND	6.71	ND		5402.50
	1.18.21	ND	6.22	ND		5402.99
	7.14.21	ND	6.85	ND	5409.31	5402.46
	7.10.15	ND	3.28	ND		5402.47
	2.26.16	ND	2.58	ND		5403.17
	11.04.16	ND	3.14	ND		5402.61
	2.09.17	ND	2.36	ND		5403.39
	7.19.17	ND	3.32	ND		5402.43
	11.01.17	ND	3.08	ND		5402.67
	1.19.18	ND	2.88	ND		5402.87
MW-5	4.27.18	ND	2.76	ND	5405.75	5402.99
IVIVV-5	7.05.18	ND	3.50	ND		5402.25
	10.16.18	ND	3.31	ND		5402.44
	1.22.19	ND	2.82	ND		5402.93
	8.05.19	ND	3.43	ND		5402.32
	1.24.20	ND	2.42	ND		5403.33
	9.09.20	ND	3.29	ND		5402.46
	1.18.21	ND	2.79	ND		5402.96
	7.14.21	ND	3.39	ND	5405.89	5402.50

^{* -} corrected for presence of phase-sepated hydrocarbon using a site-specific density correction factor of 0.729

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

^{1 =} Aberrant gauging data



APPENDIX F

Laboratory Data Sheets & 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

November 11, 2016

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

FAX

RE: Masden Gas Com 1 E OrderNo.: 1611289

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/5/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com 1 E
 Collection Date: 11/4/2016 10:05:00 AM

 Lab ID:
 1611289-001
 Matrix: AQUEOUS
 Received Date: 11/5/2016 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	11/9/2016 9:37:07 PM	B38568
Toluene	ND	1.0	μg/L	1	11/9/2016 9:37:07 PM	B38568
Ethylbenzene	ND	1.0	μg/L	1	11/9/2016 9:37:07 PM	B38568
Xylenes, Total	ND	2.0	μg/L	1	11/9/2016 9:37:07 PM	B38568
Surr: 4-Bromofluorobenzene	102	87.9-146	%Rec	1	11/9/2016 9:37:07 PM	B38568

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1 E
 Collection Date: 11/4/2016 10:45:00 AM

 Lab ID:
 1611289-002
 Matrix: AQUEOUS
 Received Date: 11/5/2016 8:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 11/9/2016 10:50:14 PM B38568 Toluene ND 1.0 μg/L 11/9/2016 10:50:14 PM B38568 Ethylbenzene ND 11/9/2016 10:50:14 PM B38568 1.0 μg/L Xylenes, Total ND 2.0 11/9/2016 10:50:14 PM B38568 μg/L Surr: 4-Bromofluorobenzene 11/9/2016 10:50:14 PM B38568 97.8 87.9-146 %Rec

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden Gas Com 1 E
 Collection Date: 11/4/2016 11:20:00 AM

 Lab ID:
 1611289-003
 Matrix: AQUEOUS
 Received Date: 11/5/2016 8:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 11/9/2016 11:14:34 PM B38568 Toluene ND 1.0 μg/L 11/9/2016 11:14:34 PM B38568 Ethylbenzene ND 11/9/2016 11:14:34 PM B38568 1.0 μg/L Xylenes, Total ND 2.0 11/9/2016 11:14:34 PM B38568 μg/L Surr: 4-Bromofluorobenzene 11/9/2016 11:14:34 PM B38568 98.5 87.9-146 %Rec

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1 E
 Collection Date: 11/4/2016 11:55:00 AM

 Lab ID:
 1611289-004
 Matrix: AQUEOUS
 Received Date: 11/5/2016 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analyst:	NSB
Benzene	ND	1.0	μg/L	1 11/9/2016 11:38:56 PM	B38568
Toluene	ND	1.0	μg/L	1 11/9/2016 11:38:56 PM	B38568
Ethylbenzene	ND	1.0	μg/L	1 11/9/2016 11:38:56 PM	B38568
Xylenes, Total	ND	2.0	μg/L	1 11/9/2016 11:38:56 PM	B38568
Surr: 4-Bromofluorobenzene	99.7	87.9-146	%Rec	1 11/9/2016 11:38:56 PM	B38568

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1 E
 Collection Date: 11/4/2016 12:20:00 PM

 Lab ID:
 1611289-005
 Matrix: AQUEOUS
 Received Date: 11/5/2016 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	160	5.0	μg/L	5	11/10/2016 12:27:43	3 AM B38568
Toluene	ND	5.0	μg/L	5	11/10/2016 12:27:43	3 AM B38568
Ethylbenzene	ND	5.0	μg/L	5	11/10/2016 12:27:43	3 AM B38568
Xylenes, Total	52	10	μg/L	5	11/10/2016 12:27:43	3 AM B38568
Surr: 4-Bromofluorobenzene	100	87.9-146	%Rec	5	11/10/2016 12:27:43	3 AM B38568

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1611289**

11-Nov-16

Client: APEX TITAN
Project: Masden Gas Com 1 E

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: B38568 RunNo: 38568

Analysis Date: 11/9/2016 SeqNo: 1205277 Prep Date: 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 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 20 20.00 98.5 87.9 146

Surr: 4-Bromofluorobenzene 20 20.00 98.5 87.9 146

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSW Batch ID: **B38568** RunNo: 38568 Prep Date: Analysis Date: 11/9/2016 SeqNo: 1205278 Units: µg/L Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual 20 20.00 O 102 120 Benzene 1.0 80 Toluene 20 1.0 20.00 0 101 80 120 Ethylbenzene 18 20.00 0 90.9 80 120 1.0 Xylenes, Total 53 2.0 60.00 0 88.8 80 120 19 96.0 Surr: 4-Bromofluorobenzene 20.00 87.9 146

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID 1611289-001AMS Client ID: MW-4 Batch ID: **B38568** RunNo: 38568 Analysis Date: 11/9/2016 SeaNo: 1205287 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 20 1.0 20.00 101 63 126 Λ Toluene 18 20.00 0 90.6 80 120 1.0 17 20.00 0 83.8 80 120 Ethylbenzene 1.0 Xylenes, Total 52 2.0 60.00 0 85.9 80 120

20.00

Sample ID 1611289-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: **B38568** RunNo: 38568 MW-4 Prep Date: Analysis Date: 11/9/2016 SeqNo: 1205294 Units: µg/L %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual 20 1.0 20.00 0 101 63 126 0.366 20 Benzene Toluene 19 1.0 20.00 0 93.7 80 120 3.27 20 Ethylbenzene 17 1.0 20.00 0 86.9 80 120 3.61 20 53 2.0 60.00 0 88.5 80 120 2.97 20 Xylenes, Total Surr: 4-Bromofluorobenzene 20 20.00 97.9 87.9 0 146 0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

19

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

95.2

87.9

146

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 6/14/2022 11:15:05 AM



4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	APEX AZTEC	Work Order Numb	er: 1611289		RcptNo:	1
Received by/date	e: 🙀	110516				
Logged By:	Lindsay Mangin	11/5/2016 8:30:00 A	М	Junky Happy		
Completed By:	Lindsay Mangin	11/7/2016 8:36:04 A	М	Stanlis Alban		
Reviewed By:	as	11/07/16		0.30~		
Chain of Cust		((() () ()				
1. Custody sea	is intact on sample bottle	s?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	sample delivered?		<u>Courier</u>			
Log In						
4. Was an atte	mpt made to cool the sar	mples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all sam	nples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
6. Sample(s) in	n proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sar	mple volume for indicated	I test(s)?	Yes 🗹	No 🗌		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗆		
9. Was preserv	rative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials ha	ave zero headspace?		Yes 🗸	No 🗆	No VOA Vials	
11. Were any sa	ample containers received	broken?	Yes	No 🗹	# of preserved	
12 Does nanen	vork match bottle labels?		Yes 🗹	No 🗆	bottles checked for pH:	
	pancies on chain of custo	dy)	163 1		· · · · · · · · · · · · · · · · · · ·	r >12 unless noted)
13. Are matrices	correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗆	Adjusted? _	
	at analyses were request		Yes 🗹	No 🗌		
	ding times able to be met customer for authorization		Yes 🗹	No 📙	Checked by:	
Special Hand	ling (if applicable)					
	otified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
	Notified:	Date		CONTRACTOR OF THE SAME		
By Wh	7	Via:	, □ eMail □	Phone Fax	☐ In Person	
Regard	ding:				**************************************	
Client I	Instructions:				A	
17. Additional re	emarks:					_1
18. Cooler Info	1	n Seal Intact Seal No	Seal Date	Signed By		
1	1.3 Good	Yes				

						CHAIN	CHAIN OF CUSTODY RECORD
					ANALYSIS	SI	Lab use only
		Labor	Laboratory:	11 500	REQUESTED	STED / /	Due Date:
APEX	•	Address:	iss: ABB	2 N.M			
Office Location 42	Aztec Nin	<u> </u>	£				when received (C°): (S
		Contact:	7	رجوفيص	_	e	1 2 3 4 5
		Phone:	in the second			2	Pageof
Project Manager	K. Schal	7	:#0				
Sampler's Name			Sampler's Signature	X			
20 1 60 PO 100 P	Oハナ・ Project Name		h	No/Two of Containers			
40113134	nasde	Nasden Gas Com	om # 1E		\{\sigma\}		
Matrix Date Time	O G G	Identifying Marks of Sample(s)	mple(s) Start Depth End Thepth	AOV B\A 1 Lt. 250 SS0 ml scalab	0/4		Lab Sample ID (Lab Use Only)
W 1/4/16 10:05	2	4-00		M		91	100-68211
54:01	3	38.5		M			-005
ot;//	3 CM	1-1		~			-002
11:55	mn	W-3		~	-		40/
06:6)	W	rain 2		(م)			-05
							-886-
					/	Neis	
			:			}	
Turn around time A Normal	<u>;</u>	n U50% Rush	%00L□				
Relinquished by Signature)	Date:) Time:	Regeived by: (\$ign	(Signature) Da	16) Time:	NOTES:	S. B. L.
Reminduished by (Signature)	Date:	Time:	Received by: (Sign	(Signature) Da	ité: Time:	Bill to Aprix	Cast Son
Relinquished by (Signature)		Time:	Deceived by: (Sign	(Signature) Da	Date: Time:		
Relinquished by (Signature)	Date:	Time:	Received by: Sign	(Signature) Da	Date: Time:		
Matrix WW - Wastewater		W - Water S - Soil SD - Solid A/G - Amber / Or Glass 1 Liter	ł	L - Liquid A - Air Bag (250 ml - Glass wide mouth	C - Charcoal tube P/O - Plastic or other	SL - sludge O - Oil	

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



February 15, 2017

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

FAX

RE: Masden Gas Com #1E OrderNo.: 1702513

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/10/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com #1E
 Collection Date: 2/9/2017 11:50:00 AM

 Lab ID:
 1702513-001
 Matrix: AQUEOUS
 Received Date: 2/10/2017 8:00:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: BCN 2/10/2017 3:19:00 PM Benzene ND 1.0 μg/L A40672 Toluene ND 1.0 μg/L 2/10/2017 3:19:00 PM A40672 Ethylbenzene ND 2/10/2017 3:19:00 PM A40672 1.0 μg/L Xylenes, Total ND 2/10/2017 3:19:00 PM A40672 1.5 μg/L Surr: 1,2-Dichloroethane-d4 98.7 70-130 %Rec 2/10/2017 3:19:00 PM A40672 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 2/10/2017 3:19:00 PM A40672 Surr: Dibromofluoromethane 103 70-130 %Rec 2/10/2017 3:19:00 PM A40672 Surr: Toluene-d8 102 70-130 %Rec 2/10/2017 3:19:00 PM A40672

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com #1E
 Collection Date: 2/9/2017 12:20:00 PM

 Lab ID:
 1702513-002
 Matrix: AQUEOUS
 Received Date: 2/10/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	BCN
Benzene	ND	1.0	μg/L	1	2/10/2017 3:43:00 PM	A40672
Toluene	ND	1.0	μg/L	1	2/10/2017 3:43:00 PM	A40672
Ethylbenzene	ND	1.0	μg/L	1	2/10/2017 3:43:00 PM	A40672
Xylenes, Total	ND	1.5	μg/L	1	2/10/2017 3:43:00 PM	A40672
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	2/10/2017 3:43:00 PM	A40672
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	2/10/2017 3:43:00 PM	A40672
Surr: Dibromofluoromethane	105	70-130	%Rec	1	2/10/2017 3:43:00 PM	A40672
Surr: Toluene-d8	102	70-130	%Rec	1	2/10/2017 3:43:00 PM	A40672

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com #1E
 Collection Date: 2/9/2017 12:50:00 PM

 Lab ID:
 1702513-003
 Matrix: AQUEOUS
 Received Date: 2/10/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	: BCN
Benzene	ND	1.0	μg/L	1	2/10/2017 4:07:00 PM	A40672
Toluene	ND	1.0	μg/L	1	2/10/2017 4:07:00 PM	A40672
Ethylbenzene	ND	1.0	μg/L	1	2/10/2017 4:07:00 PM	A40672
Xylenes, Total	ND	1.5	μg/L	1	2/10/2017 4:07:00 PM	A40672
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	2/10/2017 4:07:00 PM	A40672
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	2/10/2017 4:07:00 PM	A40672
Surr: Dibromofluoromethane	105	70-130	%Rec	1	2/10/2017 4:07:00 PM	A40672
Surr: Toluene-d8	103	70-130	%Rec	1	2/10/2017 4:07:00 PM	A40672

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

Project: Masden Gas Com #1E **Collection Date:** 2/9/2017 1:20:00 PM

Lab ID: 1702513-004 **Matrix:** AQUEOUS **Received Date:** 2/10/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	: BCN
Benzene	ND	1.0	μg/L	1	2/10/2017 4:30:00 PM	A40672
Toluene	ND	1.0	μg/L	1	2/10/2017 4:30:00 PM	A40672
Ethylbenzene	ND	1.0	μg/L	1	2/10/2017 4:30:00 PM	A40672
Xylenes, Total	ND	1.5	μg/L	1	2/10/2017 4:30:00 PM	A40672
Surr: 1,2-Dichloroethane-d4	94.8	70-130	%Rec	1	2/10/2017 4:30:00 PM	A40672
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/10/2017 4:30:00 PM	A40672
Surr: Dibromofluoromethane	102	70-130	%Rec	1	2/10/2017 4:30:00 PM	A40672
Surr: Toluene-d8	103	70-130	%Rec	1	2/10/2017 4:30:00 PM	A40672

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com #1E
 Collection Date: 2/9/2017 1:50:00 PM

 Lab ID:
 1702513-005
 Matrix: AQUEOUS
 Received Date: 2/10/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	SHORT LIST				Analyst	: AG
Benzene	260	10	μg/L	10	2/13/2017 3:42:19 PM	R40699
Toluene	ND	1.0	μg/L	1	2/10/2017 4:54:00 PM	A40672
Ethylbenzene	19	1.0	μg/L	1	2/10/2017 4:54:00 PM	A40672
Xylenes, Total	96	1.5	μg/L	1	2/10/2017 4:54:00 PM	A40672
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%Rec	1	2/10/2017 4:54:00 PM	A40672
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/10/2017 4:54:00 PM	A40672
Surr: Dibromofluoromethane	102	70-130	%Rec	1	2/10/2017 4:54:00 PM	A40672
Surr: Toluene-d8	103	70-130	%Rec	1	2/10/2017 4:54:00 PM	A40672

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702513

Page 6 of 7

15-Feb-17

APEX TITAN **Client:**

Project: Masden Gas Com #1E

Sample ID 100ng Ics	SampT	ype: LC	s	TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch	n ID: A4	0672	RunNo: 40672							
Prep Date:	Analysis D	oate: 2/	10/2017	9	SeqNo: 1	274137	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	21	1.0	20.00	0	105	70	130				
Toluene	21	1.0	20.00	0	106	70	130				
Surr: 1,2-Dichloroethane-d4	10		10.00		99.9	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130				
Surr: Dibromofluoromethane	10		10.00		100	70	130				
Surr: Toluene-d8	10		10.00		103	70	130				
Sample ID rb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260: Volatiles Short List							

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	d 8260: Volatiles Short List						
Client ID: PBW	Batch	n ID: A4	0672	R	RunNo: 40	0672							
Prep Date:	Analysis D	ate: 2/	10/2017	S	SeqNo: 1274139								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	1.0							<u> </u>				
Toluene	ND	1.0											
Ethylbenzene	ND	1.0											
Xylenes, Total	ND	1.5											
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.6	70	130						
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130						
Surr: Dibromofluoromethane	10		10.00		104	70	130						
Surr: Toluene-d8	10		10.00		103	70	130						

Sample ID rb	SampT	SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List									
Client ID: PBW	Batch	1D: R4	0699	R	RunNo: 4	0699					
Prep Date:	Analysis Date: 2/13/2017 SeqNo: 1275122 Units: μg/L										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130				
Surr: Dibromofluoromethane	11		10.00		112	70	130				
Surr: Toluene-d8	9.6		10.00		96.4	70	130				

Sample ID 100ng lcs	SampT	ype: LC	S	Tes	8260: Volatil	es Short L	ist			
Client ID: LCSW	Batch	1D: R4	0699	F	RunNo: 4	0699				
Prep Date:	Analysis D	Analysis Date: 2/13/2017			SeqNo: 1	275123	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.4	70	130			

Qualifiers:

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

Released to Imaging: 6/14/2022 11:15:05 AM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702513**

15-Feb-17

Client: APEX TITAN

Project: Masden Gas Com #1E

Sample ID 100ng Ics SampType: LCS TestCode: EPA Method 8260: Volatiles Short List

Client ID: LCSW Batch ID: R40699 RunNo: 40699

Prep Date: Analysis Date: 2/13/2017 SeqNo: 1275123 Units: µg/L

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

 Surr: Dibromofluoromethane
 11
 10.00
 106
 70
 130

 Surr: Toluene-d8
 9.9
 10.00
 99.2
 70
 130

Qualifiers:

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

Page 7 of 7



Sample Log-In Check List

Client Name: AF	PEX AZTEC	Work Order Numb	per: 1702513		RcptNo:	1
Received by/date:_	aj	02/10/17				
Logged By: A	andy Jansson	2/10/2017 8:00:00 A	ΑM	any /Low		
	froy Janssoz	02/10/17		Wy rpain		
Reviewed By:	1-	2/10/17				
Chain of Custod	dy	· ()			· · · · · · · · · · · · · · · · · · ·	
	ntact on sample bottles?		Yes 🗌	No \square	Not Present 🗹	
2. Is Chain of Cust	tody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sa	mple delivered?		Courier			
<u>Log In</u>						
4. Was an attemp	t made to cool the samples	s?	Yes 🗸	No 🗆	na 🗆	
5. Were all sample	es received at a temperatur	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
6. Sample(s) in pr	oper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sampl	e volume for indicated test	(s)?	Yes 🗹	No 🗆		
8. Are samples (ex	ccept VOA and ONG) prope	erly preserved?	Yes 🗸	No 🗀		
9. Was preservativ	e added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have	zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any samp	le containers received bro	ken?	Yes	No 🗹	# of preserved	<u> </u>
	match bottle labels?		Yes 🗹	No 🗆	bottles checked for pH:	10loo - motod\
	cies on chain of custody)	of Custody?	Yes 🗸	No 🗆	Adjusted?	r >12 unless noted)
-	rrectly identified on Chain on analyses were requested?	or Custody?	Yes 🗸	No 🗆	-	
15. Were all holding	times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify cus	tomer for authorization.)			l		
Special Handlin	g (if applicable)					
	ed of all discrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	
Person No	otified:	Date				
By Whom:		Via:	eMail	Phone 🗌 Fax	☐ In Person	
Regarding	:					
Client Inst	ructions:					
17. Additional rema	urks:					
18. Cooler Informa						
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
]1	I.0 Good Ye	es	N I. I. V 1722 Note 1 com as no conservation			
	_					

CHAIN OF CUSTODY RECORD	Lab use only Due Date:	Temp. of coolers \ \mathcal{O} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 2 4					[7625/5] Lab Sample ID (Lab Use Only)	1001	750-	-003	700-	-085		4				BILTO Mex Corporate			0-0il
	Analysis Requested	18	<u></u>	>	1	37/	57								N.			Time: NOTES:	Time:		Time:	al tube SL - sludge
	4						ontainers	SSO ml Glass Jar D\Q										Date: 2-9-17	02 (b) (1)	Date:	Date:	ig C - Charcoal tube
	Hall Enc	ABQ N.M	A. Freenan			ture	# / € No/Type of Containers	Start Oppin End Oppin AOV		Μ	Μ	M	~				□ 100% Rush	ed by: (Signature)	Received by: (Signerdire)	Received by: (Signature)	Received by: (Signature)	id L-Liquid A-Air Bag
		Address:	Contact:	Phone:	PO/SO #:	Sampler's Signature	Gas Com	Identifying Marks of Sample(s)	4.1	, pi	1.3	11	6.7				☐ 50% Rush □	Time: Received b	Time: Receiv	Time: Receiv	Time: Receiv	W - Water S - Soil SD - Solid
		N. M.			Summers	itro	Project Name	G Identifyin	a white	m~-5	ガガ	220	mu				☐ 25% Rush	Date:	{	Date:	Date:	W - Water
		As Lac			×	A P		COE	2.511	1	0.86°		1357				Normal) Sign	(Signature)	(Signature)	(Signature)	WW - Wastewater
	1	APEX	Ollice Lucaliul		Project Manager	Sampler's Name	Proj. No.	Matrix Date	1 3/2/2	13/6	1.	1/2/2	× 2/5/17				Turn around time	Relinguished by (Signature)	Relinquished by (Signature)	Rejinquished by (Signature)	Relinquished by (Signature)	Matrix

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



July 25, 2017

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

FAX

RE: Masden Gas Com 1E OrderNo.: 1707A27

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/20/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1707A27**Date Reported: **7/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 7/19/2017 10:55:00 AM

 Lab ID:
 1707A27-001
 Matrix: AQUEOUS
 Received Date: 7/20/2017 7:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB 7/24/2017 12:53:09 PM D44437 Benzene ND 1.0 μg/L Toluene ND 1.0 μg/L 7/24/2017 12:53:09 PM D44437 Ethylbenzene ND 7/24/2017 12:53:09 PM D44437 1.0 μg/L Xylenes, Total ND 2.0 7/24/2017 12:53:09 PM D44437 μg/L Surr: 4-Bromofluorobenzene 110 72.5-140 %Rec 7/24/2017 12:53:09 PM D44437

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1707A27**Date Reported: **7/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 7/19/2017 11:50:00 AM

 Lab ID:
 1707A27-002
 Matrix: AQUEOUS
 Received Date: 7/20/2017 7:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB 7/24/2017 1:16:54 PM Benzene ND 1.0 μg/L D44437 Toluene ND 1.0 μg/L 7/24/2017 1:16:54 PM D44437 Ethylbenzene ND 7/24/2017 1:16:54 PM D44437 1.0 μg/L Xylenes, Total ND 2.0 μg/L 7/24/2017 1:16:54 PM D44437 Surr: 4-Bromofluorobenzene 106 72.5-140 %Rec 7/24/2017 1:16:54 PM D44437

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1707A27**Date Reported: **7/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 7/19/2017 12:30:00 PM

 Lab ID:
 1707A27-003
 Matrix: AQUEOUS
 Received Date: 7/20/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	7/24/2017 1:40:41 PM	D44437
Toluene	ND	1.0	μg/L	1	7/24/2017 1:40:41 PM	D44437
Ethylbenzene	ND	1.0	μg/L	1	7/24/2017 1:40:41 PM	D44437
Xylenes, Total	ND	2.0	μg/L	1	7/24/2017 1:40:41 PM	D44437
Surr: 4-Bromofluorobenzene	105	72.5-140	%Rec	1	7/24/2017 1:40:41 PM	D44437

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1707A27

Date Reported: 7/25/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 7/19/2017 1:15:00 PM

 Lab ID:
 1707A27-004
 Matrix: AQUEOUS
 Received Date: 7/20/2017 7:30:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB 7/24/2017 2:04:36 PM Benzene ND 1.0 μg/L D44437 Toluene ND 1.0 μg/L 7/24/2017 2:04:36 PM D44437 Ethylbenzene ND 7/24/2017 2:04:36 PM 1.0 μg/L D44437 Xylenes, Total ND 2.0 μg/L 7/24/2017 2:04:36 PM D44437 Surr: 4-Bromofluorobenzene 104 72.5-140 %Rec 7/24/2017 2:04:36 PM D44437

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1707A27

Date Reported: 7/25/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 7/19/2017 2:10:00 PM

 Lab ID:
 1707A27-005
 Matrix: AQUEOUS
 Received Date: 7/20/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analy	/st: NSB
Benzene	44	1.0	μg/L	1 7/24/2017 10:54:10 /	AM D44437
Toluene	ND	1.0	μg/L	1 7/24/2017 10:54:10	AM D44437
Ethylbenzene	5.2	1.0	μg/L	1 7/24/2017 10:54:10	AM D44437
Xylenes, Total	4.7	2.0	μg/L	1 7/24/2017 10:54:10	AM D44437
Surr: 4-Bromofluorobenzene	113	72.5-140	%Rec	1 7/24/2017 10:54:10 /	AM D44437

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707A27

25-Jul-17

Client: APEX TITAN

Project: Masden Gas Com 1E

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: D44437 RunNo: 44437

Analysis Date: 7/24/2017 SeqNo: 1405091 Prep Date: 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 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 23 20.00 113 72.5 140

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSW Batch ID: **D44437** RunNo: 44437 Prep Date: Analysis Date: 7/24/2017 SeqNo: 1405092 Units: µg/L Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual 20.00 O 91.0 71.7 126 Benzene 18 1.0 Toluene 18 1.0 20.00 0 90.9 73.3 119 Ethylbenzene 19 20.00 0 93.3 80 1.0 120 Xylenes, Total 56 2.0 60.00 0 92.9 80 120 23 Surr: 4-Bromofluorobenzene 20.00 117 72.5 140

Sample ID 1707A27-005AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: MW-2 Batch ID: **D44437** RunNo: 44437 Analysis Date: 7/24/2017 SeqNo: 1405094 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 57 1.0 20.00 43.85 66.3 62.3 126 Toluene 17 20.00 0.4028 83.4 48.8 134 1.0 23 20.00 87.4 142 Ethylbenzene 1.0 5.195 44.4 58 Xylenes, Total 2.0 60.00 4.668 88.2 55.7 129 Surr: 4-Bromofluorobenzene 23 20.00 114 72.5 140

Sample ID 1707A27-005AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: **D44437** MW-2 RunNo: 44437 Prep Date: Analysis Date: 7/24/2017 SeqNo: 1405095 Units: µg/L SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value LowLimit HighLimit Qual 57 1.0 20.00 43.85 67.4 62.3 126 0.385 20 Benzene Toluene 17 1.0 20.00 0.4028 84.0 48.8 134 0.680 20 Ethylbenzene 23 1.0 20.00 5.195 88.2 44.4 142 0.648 20 58 2.0 60.00 4.668 88.3 55.7 129 0.146 20 Xylenes, Total Surr: 4-Bromofluorobenzene 23 20.00 72.5 140 0 113 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

ENVIRONMENTAL
ANALYSIS
LABORATORY

APEX AZTEC Work Order Number: 1707A27 Client Name: RcptNo: 1 Received By: 7/20/2017 7:30:00 AM Sophia Campuzano 7/20/2017 8:30:12 AM Completed By: **Ashley Gallegos** 7/21/14 Reviewed By: Chain of Custody Yes 🗌 No 🗌 Not Present 🗸 1. Custody seals intact on sample bottles? No 🗌 Yes 🔽 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes 🔽 NA 🗌 No 🗍 4. Was an attempt made to cool the samples? NA 🗌 No 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗌 Yes 🗸 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? NA 🗆 Yes 🗌 No 🗹 9. Was preservative added to bottles? Yes 🗸 No 🗔 No VOA Vials 10. VOA vials have zero headspace? 11. Were any sample containers received broken? Yes No 🗹 # of preserved bottles checked No 🗌 Yes 🗸 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗸 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗹 14. Is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🔽 16. Was client notified of all discrepancies with this order? Date 1 Person Notified: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition Seal Intact | Seal No Seal Date Good Page 1 of 1

												ANA	SIS		1 1	1 1	10000000
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					Phone:	505-345-3945	34	3	3	57			/ /		_	_	Page / of /
Project Manager		SAM	KSummers	253	PO/SO#:	725040112134	240	2113	134				Ta		_	_	
Sampler's Name Parison Deachilly	143	5		G	Sampler's Signature	Se						- 11	IF IN				
Proj. No.	34	0	Project Name	ject Name M. M. Sden Gas Com	45 Com #	#		L'oN	pe of C	No/Type of Containers	S	-08			_		
Matrix Date	Time	OoEa	O- 00	Identifying Mar	Identifying Marks of Sample(s)	Start	Depth	AOV	Ð/Α 11 t	DSS mi	Jar O/q	<u></u>		_	_	Lab S	Lab Sample ID (Lab Use Only)
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W 7119117 1150	150			MW	2,			w				×					- 003
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1 4/19/17 VI	MIO			M	MW-2			3				¥					-005
					基												
Turn around time	Norma	na	023	□ 25% Rush □	□ 50% Rush	□ 100% Rush	Rush				/						
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Rejinquished by (Signature)	jnature)	1		Date:		ved by:	(Signature)	(aunt		1	Date:	Time:		Corp	soporat rat	えん	
Relinquished by (Signature)	jnature)		-	Date:	Time: Receiv	Received by:	(Signature)	ture)			Date:	Time:					
Matrix WW -	WW - Wastewater	. G	1	W - Water S	W - Water S - Soil SD - Solid A/G - Amber / Or Glass 1 Liter	0.000	L - Liquid A - Air Bag 250 ml - Glass wide mouth	Glass v	- Air Ba	g de	2.0	C - Charcoal tube P/O - Plastic or other	SL - sludge	e 0-0il	110		

Released to Imaging: 6/14/2022 11:15:05 AM



November 08, 2017

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

FAX

RE: Masden Gas Com 1E OrderNo.: 1711087

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/2/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/8/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 11/1/2017 10:25:00 AM

 Lab ID:
 1711087-001
 Matrix: AQUEOUS
 Received Date: 11/2/2017 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	11/7/2017 3:22:42 PM	B46935
Toluene	ND	1.0	μg/L	1	11/7/2017 3:22:42 PM	B46935
Ethylbenzene	ND	1.0	μg/L	1	11/7/2017 3:22:42 PM	B46935
Xylenes, Total	ND	2.0	μg/L	1	11/7/2017 3:22:42 PM	B46935
Surr: 4-Bromofluorobenzene	110	72.5-140	%Rec	1	11/7/2017 3:22:42 PM	B46935

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/8/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 11/1/2017 11:15:00 AM

 Lab ID:
 1711087-002
 Matrix: AQUEOUS
 Received Date: 11/2/2017 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	11/7/2017 4:33:55 PM	B46935
Toluene	ND	1.0	μg/L	1	11/7/2017 4:33:55 PM	B46935
Ethylbenzene	ND	1.0	μg/L	1	11/7/2017 4:33:55 PM	B46935
Xylenes, Total	ND	2.0	μg/L	1	11/7/2017 4:33:55 PM	B46935
Surr: 4-Bromofluorobenzene	112	72.5-140	%Rec	1	11/7/2017 4:33:55 PM	B46935

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/8/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 11/1/2017 12:00:00 PM

 Lab ID:
 1711087-003
 Matrix: AQUEOUS
 Received Date: 11/2/2017 7:55:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB 11/7/2017 4:57:43 PM Benzene ND 1.0 μg/L B46935 Toluene ND 1.0 μg/L 11/7/2017 4:57:43 PM B46935 Ethylbenzene ND 11/7/2017 4:57:43 PM 1.0 μg/L 1 B46935 Xylenes, Total ND 2.0 μg/L 11/7/2017 4:57:43 PM B46935 Surr: 4-Bromofluorobenzene 112 72.5-140 %Rec 11/7/2017 4:57:43 PM B46935

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/8/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 11/1/2017 12:55:00 AM

 Lab ID:
 1711087-004
 Matrix: AQUEOUS
 Received Date: 11/2/2017 7:55:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB 11/7/2017 5:21:26 PM Benzene ND 1.0 μg/L B46935 Toluene ND 1.0 μg/L 11/7/2017 5:21:26 PM B46935 Ethylbenzene ND 11/7/2017 5:21:26 PM 1.0 μg/L 1 B46935 Xylenes, Total ND 2.0 11/7/2017 5:21:26 PM B46935 μg/L Surr: 4-Bromofluorobenzene 112 72.5-140 %Rec 11/7/2017 5:21:26 PM B46935

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/8/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 11/1/2017 1:50:00 PM

 Lab ID:
 1711087-005
 Matrix: AQUEOUS
 Received Date: 11/2/2017 7:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	81	1.0	μg/L	1	11/7/2017 5:45:10 PM	B46935
Toluene	ND	1.0	μg/L	1	11/7/2017 5:45:10 PM	B46935
Ethylbenzene	8.0	1.0	μg/L	1	11/7/2017 5:45:10 PM	B46935
Xylenes, Total	20	2.0	μg/L	1	11/7/2017 5:45:10 PM	B46935
Surr: 4-Bromofluorobenzene	117	72.5-140	%Rec	1	11/7/2017 5:45:10 PM	B46935

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711087**

08-Nov-17

Client: APEX TITAN
Project: Masden Gas Com 1E

Sample ID 100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	n ID: B4	6935	F	RunNo: 4	6935				
Prep Date:	Analysis D	oate: 11	1/7/2017	8	SeqNo: 1	497785	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	73.9	120			
Toluene	21	1.0	20.00	0	104	77.3	117			
Ethylbenzene	21	1.0	20.00	0	104	78.8	119			
Xylenes, Total	61	2.0	60.00	0	102	76.9	121			
Surr: 4-Bromofluorobenzene	23		20.00		113	72.5	140			

Sample ID 1711087-001AMS	SampT	уре: М S	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW-1	Batch	ID: B4	6935	R	RunNo: 4	6935				
Prep Date:	Analysis D	ate: 11	/7/2017	S	SeqNo: 1	497795	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	62.3	126			
Toluene	21	1.0	20.00	0	103	48.8	134			
Ethylbenzene	21	1.0	20.00	0	103	44.4	142			
Xylenes, Total	62	2.0	60.00	0	103	55.7	129			
Surr: 4-Bromofluorobenzene	23		20.00		114	72.5	140			

Sample ID 1711087-001AN	ISD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW-1	Batch	n ID: B4	6935	F	RunNo: 4	6935				
Prep Date:	Analysis D	ate: 11	1/7/2017	S	SeqNo: 1	497796	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	62.3	126	1.54	20	
Toluene	21	1.0	20.00	0	104	48.8	134	1.18	20	
Ethylbenzene	21	1.0	20.00	0	103	44.4	142	0.538	20	
Xylenes, Total	61	2.0	60.00	0	101	55.7	129	1.78	20	
Surr: 4-Bromofluorobenzene	23		20.00		116	72.5	140	0	0	

Qualifiers:

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

Page 6 of 6



Sample Log-In Check List

Client Name:	APEX AZTE	EC	Work Order N	fumber:	1711087	•		Rcptf	No: 1
Received By:	Erin Meler	ndrez	11/2/2017 7:55	:00 AM		w	ns.	-	
Completed By:	Isaiah Orti	z	11/2/2017 8:56	:23 AM		Iα			
Reviewed By:	SRe	11102117							
	J . J	0110 001							
Chain of Cus	tody								
1. Custody sea	als intact on sa	ample bottles?			Yes 🗆] No		Not Present	
2. Is Chain of C	Custody comp	lete?			Yes 🗹) No		Not Present	
3. How was the	e sample deliv	vered?			<u>Courier</u>				
<u>Log In</u>									
4. Was an atte	mpt made to	cool the samples?			Yes 🗸	. No	. 🗆	NA [
E 18/200 all and			5.000.00	_			<u></u>	[
o, vvere ali san	npies received	d at a temperature	of >0° C to 6.0°	C	Yes 🗸	No		NA L	_
6. Sample(s) in	n proper conta	ainer(s)?			Yes 🔽	. No			
7. Sufficient sa	mple volume	for indicated test(s)?		Yes 🗹) No			
8. Are samples	(except VOA	and ONG) properl	y preserved?		Yes 🗹	No			
9. Was preserv	ative added to	o bottles?			Yes 🗌	No	✓	NA [
10.VOA vials ha	ave zero head	space?			Yes 🗌	No		No VOA Vials	
11. Were any sa	ample contain	ers received broke	n?		Yes	l _{No}		-	<u>.</u>
								# of preserved bottles checked	
12.Does paperw					Yes 🗹	No		for pH:	
		ain of custody) ntified on Chain of (Custodu2		Yes 🗹	No		Adjusted?	2 or >12 unless noted)
14. Is it clear whi			Sustody?		res 🗹 Yes 🗹		!		
15. Were all hold	-	•			Yes 🗹		!	Checked by	y:
		authorization.)							
Special Hand	ling (if app	<u>licable)</u>							
16. Was client no	otified of all di	screpancies with th	nis order?		Yes 🗌	No		NA 🛂	<u>2</u>
Person	Notified:		I	Date:			esentations.		
By Who	om:		,	∕ia: ☐	eMail	Phone] Fax	☐ In Person	
Regard	ling:								
Client I	nstructions:		_				***************************************		
17. Additional re	marks:								
18. <u>Cooler Infor</u>			_	_					
Cooler No		! ! - !	al Intact Seal I	No Se	al Date	Signed	Ву		
	2.8	Good Yes				111100111111111111111111111111111111111			
Page 1 of	<u> </u>								<u> </u>

				CHAIN OF CUSTODY RECORD	RECORD
1	Laboratory:	Hall Environmental	ANALYSIS FROUESTED	SIS Lab use only ESTED Due Date:	
APEX	Address: U	4901 HAWKINS 1	100	Tamm of coolers	U
Office Location		* bugue, awe, NM 87109		when received (C): 2 \$	(°): 2, 8
Arto NV Stall	Dhone:	SOF OUR PORT	1	o Good	
	mes Po/so#:	72504012134			
	Sampler's Sig	Marie	10		
Pro		No/Type of Containers			
72504012134 MI	Masden Cas Com #10				Г 80
Matrix Date Time C C C C C C C C C C C C C C C C C C C	G Identifying Marks of Sample(s)	Start Depth End Depth Avov AvG 111.	Glass Jar P/O	Lab Sample ID (Lab Use Only)	e Only)
	1-3X	w	×	100,	
2111 4 11/11 M	MW-3	cC/	×	600-	
W 11/11 / 1300	h-MW!	w	×	-003	
W 11/1/17/1955	NW-S	17	×	500-	
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Relinquished by (Signature)	Date: Time: Beceived	ived by: (Signature)	Date: Time:	NOTES:	
Retinguished by (Signature)	×	ived by (Signature)	bate: Time: 11/2/17 (2/55)	Sill to Apax	
Relinquished by (Signature)	Ime:	Received by: (Signature)	Date: Time:	Corporation	
Relinquished by (Signature)	Date: Time: Receive	Received by: (Signature)	Date: Time:	·	
Matrix WW - Wastewater	W - Water S - Soil SD - Solid	L - Liquid A - Air Bag	C - Charcoal tube	SL - skudge O - Oil	
	A/G - Amber / Or Glass 1 Liter		P/O - Plastic or otner	91	

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



January 23, 2018

Kyle Summers APEX TITAN 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Masden 1E OrderNo.: 1801A15

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/20/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: APEX TITAN

Analytical Report
Lab Order 1801A15

Date Reported: 1/23/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-5

Project: Masden 1E **Collection Date:** 1/19/2018 9:20:00 AM

Lab ID: 1801A15-001 **Matrix:** AQUEOUS **Received Date:** 1/20/2018 9:25:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	1.0	μg/L	1	1/22/2018 1:15:34 PM	B48596
Toluene	ND	1.0	μg/L	1	1/22/2018 1:15:34 PM	B48596
Ethylbenzene	ND	1.0	μg/L	1	1/22/2018 1:15:34 PM	B48596
Xylenes, Total	ND	2.0	μg/L	1	1/22/2018 1:15:34 PM	B48596
Surr: 4-Bromofluorobenzene	112	72.5-140	%Rec	1	1/22/2018 1:15:34 PM	B48596

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1801A15

Date Reported: 1/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden 1E
 Collection Date: 1/19/2018 9:50:00 AM

 Lab ID:
 1801A15-002
 Matrix: AQUEOUS
 Received Date: 1/20/2018 9:25:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	1.0	μg/L	1	1/22/2018 2:27:10 PM	B48596
Toluene	ND	1.0	μg/L	1	1/22/2018 2:27:10 PM	B48596
Ethylbenzene	ND	1.0	μg/L	1	1/22/2018 2:27:10 PM	B48596
Xylenes, Total	ND	2.0	μg/L	1	1/22/2018 2:27:10 PM	B48596
Surr: 4-Bromofluorobenzene	114	72.5-140	%Rec	1	1/22/2018 2:27:10 PM	B48596

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: APEX TITAN

Analytical Report
Lab Order 1801A15

Date Reported: 1/23/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-3

 Project:
 Masden 1E
 Collection Date: 1/19/2018 10:20:00 AM

 In the control of th

Lab ID: 1801A15-003 **Matrix:** AQUEOUS **Received Date:** 1/20/2018 9:25:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	1/22/2018 2:51:07 PM	B48596
Toluene	ND	1.0	μg/L	1	1/22/2018 2:51:07 PM	B48596
Ethylbenzene	ND	1.0	μg/L	1	1/22/2018 2:51:07 PM	B48596
Xylenes, Total	ND	2.0	μg/L	1	1/22/2018 2:51:07 PM	B48596
Surr: 4-Bromofluorobenzene	113	72.5-140	%Rec	1	1/22/2018 2:51:07 PM	B48596

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1801A15

Date Reported: 1/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden 1E
 Collection Date: 1/19/2018 10:50:00 AM

 Lab ID:
 1801A15-004
 Matrix: AQUEOUS
 Received Date: 1/20/2018 9:25:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	1.0	μg/L	1	1/22/2018 3:15:02 PM	B48596
Toluene	ND	1.0	μg/L	1	1/22/2018 3:15:02 PM	B48596
Ethylbenzene	ND	1.0	μg/L	1	1/22/2018 3:15:02 PM	B48596
Xylenes, Total	ND	2.0	μg/L	1	1/22/2018 3:15:02 PM	B48596
Surr: 4-Bromofluorobenzene	113	72.5-140	%Rec	1	1/22/2018 3:15:02 PM	B48596

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: APEX TITAN

Analytical ReportLab Order **1801A15**

Date Reported: 1/23/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-2

 Project:
 Masden 1E
 Collection Date: 1/19/2018 11:20:00 AM

 Lab ID:
 1801A15-005
 Matrix: AQUEOUS
 Received Date: 1/20/2018 9:25:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 21 1.0 μg/L 1/22/2018 12:27:57 PM B48596 Toluene ND 1.0 μg/L 1/22/2018 12:27:57 PM B48596 Ethylbenzene 2.5 1/22/2018 12:27:57 PM B48596 1.0 μg/L 1 Xylenes, Total ND 2.0 1/22/2018 12:27:57 PM B48596 μg/L Surr: 4-Bromofluorobenzene 1/22/2018 12:27:57 PM B48596 116 72.5-140 %Rec

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801A15**

Page 6 of 6

23-Jan-18

Client: APEX TITAN
Project: Masden 1E

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: B48596 RunNo: 48596

Prep Date: Analysis Date: 1/22/2018 SeqNo: 1563328 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 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 22 20.00 111 72.5 140

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSW** Batch ID: **B48596** RunNo: 48596 Prep Date: Analysis Date: 1/22/2018 SeqNo: 1563329 Units: µg/L Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual 20.00 O 87.7 73.9 120 Benzene 18 1.0 Toluene 18 1.0 20.00 0 89.2 77.3 117 Ethylbenzene 18 20.00 0 90.5 78.8 1.0 119 Xylenes, Total 54 2.0 60.00 0 90.3 76.9 121 23 Surr: 4-Bromofluorobenzene 20.00 113 72.5 140

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID 1801A15-001AMS Client ID: MW-5 Batch ID: **B48596** RunNo: 48596 Analysis Date: 1/22/2018 SeaNo: 1563331 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 20 1.0 20.00 99.3 75 121 Λ Toluene 20 20.00 0 101 78.1 119 1.0 20 20.00 0 97.8 78.8 125 Ethylbenzene 1.0 58 Xylenes, Total 2.0 60.00 0 96.3 76.4 128 23 Surr: 4-Bromofluorobenzene 20.00 116 72.5 140

Sample ID 1801A15-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: **B48596** RunNo: 48596 MW-5 Prep Date: Analysis Date: 1/22/2018 SeqNo: 1563332 Units: µg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual 19 1.0 20.00 0 92.8 75 121 6.78 20 Benzene Toluene 19 1.0 20.00 0 95.4 78.1 119 5.30 20 Ethylbenzene 19 1.0 20.00 0 96.0 78.8 125 1.84 20 57 2.0 60.00 0 95.7 76.4 128 0.656 20 Xylenes, Total Surr: 4-Bromofluorobenzene 23 20.00 72.5 140 0 0 117

Qualifiers:

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

Sample container temperature is out of mint as specific



Sample Log-In Check List

Client Name:	APEX AZ	TEC	Work Order Number: 1801A15		RcptNo: 1						
Received By:	Andy Fr	eeman	1/20/2018 9	:25:00 AM	1		Andys		-		
Completed By	: Anne Th	orne	1/22/2018 7:	:39:31 AM	1		Andy Anne	11			
Reviewed By:	Sill	01/22	118				ami.	Jan.			
Chain of Cu	stody										
1. Is Chain of	Custody com	plete?			Yes	✓	No		Not Present		
2. How was th	e sample del	ivered?			Cou	<u>rier</u>					
<u>Log In</u>											
3. Was an atte	empt made to	cool the sample	es?		Yes	\checkmark	No		NA \square		
4. Were all sar	mples receive	d at a temperat	ure of >0° C to 6.0)°C	Yes	Y	No		NA \square		
5. Sample(s) in	n proper cont	ainer(s)?			Yes	✓	No				
6. Sufficient sa	mple volume	for indicated te	st(s)?		Yes	V	No [
	•		perly preserved?			<u></u>	No [_			
8. Was preserv			,,		Yes		No 🛭		NA 🗆		
9. VOA vials ha	ave zero head	dspace?			Yes	✓	No [No VOA Vials		
10. Were any sa	ample contair	ners received br	oken?		Yes		No	✓	# of preserved		
11. Does paperv					Yes	V	No [bottles checked for pH:		
		nain of custody)	-10 10		.,		. [(<2 c Adjusted?	or >12 unless n	oted)
I2. Are matrices I3. Is it clear wh					Yes Yes	∨	No L No [_	riajaotoa.		
14. Were all hold					Yes		No [Checked by:		
		authorization.)			103	•		_			
Special Hand	lling (if ap	plicable)									
15, Was client n	otified of all o	discrepancies w	ith this order?		Yes		No [NA 🗹	_	
Person	n Notified:			Date		***************************************	***************************************				
By Wh				Via:	_ eMa	ail 🔲	Phone 🗌 I	Fax	In Person		
Regard Client	ding: Instructions:			***************************************		w oncome to the time					
16. Additional re	emarks:										
CUST	ODY SEALS	ON SAMPLE V	OA VIALS/at 1/22/	18							
17. <u>Cooler Info</u>											
Cooler No		Condition	Seal Intact Sea	I No S	eal Da	ate	Signed By	у			
1	1.7	Good	Yes								
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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

May 02, 2018

Kyle Summers APEX TITAN 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Masden Gas Com 1E OrderNo.: 1804E27

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/28/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: APEX TITAN

Analytical Report

Lab Order **1804E27**Date Reported: **5/2/2018**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-1

Project: Masden Gas Com 1E **Collection Date:** 4/27/2018 8:00:00 AM

Lab ID: 1804E27-001 **Matrix:** AQUEOUS **Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	SHORT LIST				Analys	t: AG
Benzene	ND	1.0	μg/L	1	4/30/2018 8:13:15 PM	C50932
Toluene	ND	1.0	μg/L	1	4/30/2018 8:13:15 PM	C50932
Ethylbenzene	ND	1.0	μg/L	1	4/30/2018 8:13:15 PM	C50932
Xylenes, Total	ND	1.5	μg/L	1	4/30/2018 8:13:15 PM	C50932
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	4/30/2018 8:13:15 PM	C50932
Surr: Toluene-d8	97.2	70-130	%Rec	1	4/30/2018 8:13:15 PM	C50932

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E27**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2018

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 4/27/2018 8:50:00 AM

 Lab ID:
 1804E27-002
 Matrix: AQUEOUS
 Received Date: 4/28/2018 10:40:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: AG Benzene ND 1.0 μg/L 4/30/2018 8:36:23 PM C50932 Toluene ND 1.0 μg/L 4/30/2018 8:36:23 PM C50932 1 Ethylbenzene ND C50932 1.0 μg/L 4/30/2018 8:36:23 PM Xylenes, Total ND μg/L 4/30/2018 8:36:23 PM C50932 1.5 70-130 4/30/2018 8:36:23 PM C50932 Surr: 4-Bromofluorobenzene 116 %Rec Surr: Toluene-d8 %Rec 95.2 70-130 4/30/2018 8:36:23 PM C50932

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

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- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Xylenes, Total

Surr: Toluene-d8

Surr: 4-Bromofluorobenzene

C50932

C50932

C50932

Analytical Report

Lab Order **1804E27**

4/30/2018 8:59:25 PM

4/30/2018 8:59:25 PM

4/30/2018 8:59:25 PM

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/2/2018

CLIENT: APEX TITAN Client Sample ID: MW-4

ND

112

104

 Project:
 Masden Gas Com 1E
 Collection Date: 4/27/2018 9:40:00 AM

 Lab ID:
 1804E27-003
 Matrix: AQUEOUS
 Received Date: 4/28/2018 10:40:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: AG 4/30/2018 8:59:25 PM Benzene ND 1.0 μg/L C50932 Toluene ND 1.0 μg/L 4/30/2018 8:59:25 PM C50932 1 Ethylbenzene ND C50932 1.0 μg/L 4/30/2018 8:59:25 PM

1.5

70-130

70-130

μg/L

%Rec

%Rec

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

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- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E27**Date Reported: **5/2/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 4/27/2018 10:30:00 AM

 Lab ID:
 1804E27-004
 Matrix: AQUEOUS
 Received Date: 4/28/2018 10:40:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: AG Benzene ND 1.0 μg/L 4/30/2018 9:22:28 PM C50932 Toluene ND 1.0 μg/L 4/30/2018 9:22:28 PM C50932 1 Ethylbenzene ND 1.0 μg/L 4/30/2018 9:22:28 PM C50932 Xylenes, Total ND μg/L 4/30/2018 9:22:28 PM C50932 1.5 70-130 4/30/2018 9:22:28 PM C50932 Surr: 4-Bromofluorobenzene 111 %Rec Surr: Toluene-d8 %Rec 89.7 70-130 4/30/2018 9:22:28 PM C50932

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E27**Date Reported: **5/2/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 4/27/2018 11:25:00 AM

 Lab ID:
 1804E27-005
 Matrix: AQUEOUS
 Received Date: 4/28/2018 10:40:00 AM

Analyses Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: AG Benzene 60 5.0 μg/L 5 5/1/2018 12:24:15 PM C50932 Toluene ND 1.0 μg/L 1 4/30/2018 9:45:37 PM C50932 Ethylbenzene 13 1.0 μg/L 4/30/2018 9:45:37 PM C50932 Xylenes, Total 24 μg/L C50932 1.5 4/30/2018 9:45:37 PM 70-130 4/30/2018 9:45:37 PM C50932 Surr: 4-Bromofluorobenzene 107 %Rec Surr: Toluene-d8 %Rec 100 70-130 4/30/2018 9:45:37 PM C50932

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

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- D Sample Diluted Due to Matrix
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- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804E27**

02-May-18

Client: APEX TITAN
Project: Masden Gas Com 1E

Sample ID 100ng Ics Client ID: BatchQC	SampT _y Batch	pe: LC			tCode: El		8260: Volatile	es Short L	ist	
Prep Date:	Analysis Da		30/2018	-	SeqNo: 1		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.5	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	62	1.5	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID rb2	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	ist	
Client ID: PBW	Batch	n ID: C5	0932	F	RunNo: 5	0932				
Prep Date:	Analysis D	ate: 4/	30/2018	5	SeqNo: 1	653842	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 4-Bromofluorobenzene	12		10.00		122	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Qualifiers:

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

Page 6 of 6



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

Sample Log-In Check List

Client Name: APEX AZTEC	Work Order Number:	1804E27		RcptNo:	1
Pagainal Pur And France	00/0040 40 40 00 00				
	28/2018 10:40:00 AM		andy	-	
	30/2018 10:45:17 AM		ami A-		•
Reviewed By: ENM 4/	130/18				
Labeledby: 04(3018					
Chain of Custody					
1. Is Chain of Custody complete?	en e	Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier		· · · · · · · · · · · · · · · · · · ·	
l and in		_			
Log In 3. Was an attempt made to cool the samples?		Yes 🗸	No 🗆	NA 🗆	
• vvas an attempt made to cool the samples?			. 140 🗆	140	2
4. Were all samples received at a temperature of >	0° C to 6.0°C	Yes 🗹	No	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	•	
·		٠		•	
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
Are samples (except VOA and ONG) properly pre	eserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?	•	Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🔽	No 🗆	No VOA Vials	
0. Were any sample containers received broken?		Yes U	No 🗹 [# of preserved	
11 Daga managuraya mastah hattir labata	,	v 	Na 🗆	bottles checked	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗀	for pH:(<2 or	>12 unless noted)
2. Are matrices correctly identified on Chain of Custo	ody?	Yes 🗹	No 🗆	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🔽	No 🗆		
4. Were all holding times able to be met?	•	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			. =		
Special Handling (if applicable)			:	grand t a	
15. Was client notified of all discrepancies with this o	order?	Yes	No 🗌	NA 🗹	•
Person Notified:	Date				- -
By Whom:	Via:	eMail [Phone Fax	In Person	
Regarding:					
Client Instructions:	**************************************	***************************************			•
16. Additional remarks:		·			-
CUSTODY SEALS INTACT ON VOA VIAL:	S/at 4/30/18		•		•
17. Cooler Information					· ·
Cooler No Temp °C Condition Seal In	itact Seal No Se	al Date	Signed By		
1 3.1 Good Yes		1 MI 1 MJ MI 1 MA 1 MA 1 MA 1 A 1 A 1 A 1 A 1 A 1 A			
Page 1 of 1					

			CHAIN OF CUSTODY RECORD
	Hall Environmenta		Lab use only
	Laboratory: Amelying Laborroberty	AEQUESTED	
APEX	Address: 4901 1+ awitins INF		
Office Location	Albuquesque, NM 8710G	,	when received (C°):
Cook S. Rio Gande Swite A			1 2 3 4 5
Astec, NM 87410	Phone: SO		Page 1 of)
Project Manager K. Swmmers	PO/SO#: 423	°E\$9°	
	0/3	X	
Kanze Deechilly	1 Antaras	77	
Proj. No. Project Name	Masden Gas Com #15		
೧೦೯೮	Identifying Marks of Sample(s)	Giass Jar P/O	Lab Sample ID (Lab Use Only)
W 4/27/18 800	MW-1	*	1804627-201
W 4 27 18 850	MW-3	· >	202
W 4/27/18 940	WW-4	×	500
W 4/27/18/1030	MW-5	×	100-
N 4 27/8 1125	MW-2	>	765
	4%		
mal	Rush 100% Rush		
Rejinquished by (Signature)	1	Uate: Time:	NOTES: 13:11 to Aprx
hed by (Signature)	Rece	baté: Time:	Corporate reate
	Time: Received b		
Hennquished by (Signature)	Date: Time: Received by: (Signature)	Date: Time:	
Matrix WW - Wastewater W	W. Water S. Soil SD - Solid LLiquid A. Air Bag	C - Charcoal tube S	SL-sludge 0-Oil
VOA - 40 ml vial		P/O - Plastic or other	

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



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

July 10, 2018

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

FAX

RE: Masden Gas Com 1E OrderNo.: 1807212

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/6/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 7/5/2018 10:10:00 AM

 Lab ID:
 1807212-001
 Matrix: AQUEOUS
 Received Date: 7/6/2018 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	1.0	μg/L	1	7/9/2018 10:13:52 AM	R52555
Toluene	ND	1.0	μg/L	1	7/9/2018 10:13:52 AM	R52555
Ethylbenzene	ND	1.0	μg/L	1	7/9/2018 10:13:52 AM	R52555
Xylenes, Total	ND	1.5	μg/L	1	7/9/2018 10:13:52 AM	R52555
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	7/9/2018 10:13:52 AM	R52555
Surr: Toluene-d8	99.5	70-130	%Rec	1	7/9/2018 10:13:52 AM	R52555

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1807212**Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 7/5/2018 10:55:00 AM

 Lab ID:
 1807212-002
 Matrix: AQUEOUS
 Received Date: 7/6/2018 7:00:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	1.0	μg/L	1	7/9/2018 11:23:13 AM	R52555
Toluene	ND	1.0	μg/L	1	7/9/2018 11:23:13 AM	R52555
Ethylbenzene	ND	1.0	μg/L	1	7/9/2018 11:23:13 AM	R52555
Xylenes, Total	ND	1.5	μg/L	1	7/9/2018 11:23:13 AM	R52555
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	7/9/2018 11:23:13 AM	R52555
Surr: Toluene-d8	97.7	70-130	%Rec	1	7/9/2018 11:23:13 AM	R52555

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1807212**Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 7/5/2018 11:40:00 AM

 Lab ID:
 1807212-003
 Matrix: AQUEOUS
 Received Date: 7/6/2018 7:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	1.0	μg/L	1	7/9/2018 11:46:20 AM	R52555
Toluene	ND	1.0	μg/L	1	7/9/2018 11:46:20 AM	R52555
Ethylbenzene	ND	1.0	μg/L	1	7/9/2018 11:46:20 AM	R52555
Xylenes, Total	ND	1.5	μg/L	1	7/9/2018 11:46:20 AM	R52555
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	7/9/2018 11:46:20 AM	R52555
Surr: Toluene-d8	100	70-130	%Rec	1	7/9/2018 11:46:20 AM	R52555

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1807212**Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 7/5/2018 12:30:00 PM

 Lab ID:
 1807212-004
 Matrix: AQUEOUS
 Received Date: 7/6/2018 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	1.0	μg/L	1	7/9/2018 12:09:33 PM	R52555
Toluene	ND	1.0	μg/L	1	7/9/2018 12:09:33 PM	R52555
Ethylbenzene	ND	1.0	μg/L	1	7/9/2018 12:09:33 PM	R52555
Xylenes, Total	ND	1.5	μg/L	1	7/9/2018 12:09:33 PM	R52555
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	7/9/2018 12:09:33 PM	R52555
Surr: Toluene-d8	98.5	70-130	%Rec	1	7/9/2018 12:09:33 PM	R52555

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 7/5/2018 1:25:00 PM

 Lab ID:
 1807212-005
 Matrix: AQUEOUS
 Received Date: 7/6/2018 7:00:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	330	10	μg/L	10	7/9/2018 4:50:33 PM	R52555
Toluene	4.3	1.0	μg/L	1	7/9/2018 12:32:47 PM	R52555
Ethylbenzene	27	1.0	μg/L	1	7/9/2018 12:32:47 PM	R52555
Xylenes, Total	70	1.5	μg/L	1	7/9/2018 12:32:47 PM	R52555
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	7/9/2018 12:32:47 PM	R52555
Surr: Toluene-d8	99.4	70-130	%Rec	1	7/9/2018 12:32:47 PM	R52555

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807212**

Page 6 of 7

10-Jul-18

Client: APEX TITAN
Project: Masden Gas Com 1E

Sample ID 100ng btex Ics	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: BatchQC	Batch	ID: R5	2555	F	RunNo: 5	2555				
Prep Date:	Analysis D	ate: 7/	9/2018	5	SeqNo: 1	723888	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	61	1.5	60.00	0	101	80	120			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	_ist	
Client ID: PBW	Batcl	n ID: R5	2555	F	RunNo: 5	2555				
Prep Date:	Analysis D	Date: 7/	/9/2018	8	SeqNo: 1	723904	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID 1807212-001ams	SampT	ype: M \$	64	Tes	tCode: E	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-1	Batch	n ID: R5	2555	F	RunNo: 5	2555				
Prep Date:	Analysis D	ate: 7/	9/2018	8	SeqNo: 1	723966	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	80	120	•		
Toluene	22	1.0	20.00	0	108	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	63	1.5	60.00	0.3944	105	80	120			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID 1807212-001ams	d SampT	ype: MS	SD4	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-1	Batch	1D: R5	2555	F	RunNo: 5	2555				
Prep Date:	Analysis D	ate: 7/	9/2018	8	SeqNo: 1	723967	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120	4.02	20	
Toluene	21	1.0	20.00	0	107	80	120	1.25	20	
Ethylbenzene	21	1.0	20.00	0	104	80	120	3.67	20	
Xylenes, Total	61	1.5	60.00	0.3944	102	80	120	3.23	20	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807212

10-Jul-18

Client: APEX TITAN **Project:** Masden Gas Com 1E

Sample ID 1807212-001amsd SampType: MSD4 TestCode: EPA Method 8260: Volatiles Short List

Client ID: MW-1 Batch ID: **R52555** RunNo: 52555

Prep Date:	Analysis D	ate: 7	/9/2018	S	SeqNo: 1	723967	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130	0	0		
Surr: Toluene-d8	9.8		10.00		98.2	70	130	0	0		

Qualifiers:

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

Page 7 of 7



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

Sample Log-In Check List

Client Name: APEX AZTEC	Work Order Number:	180	7212			RcptNo: 1
Received By: Anne Thorne	7/6/2018 7:00:00 AM			an	1.	
Reviewed By: Anne Thorne JAIS 07/06	1 1			Arn. Arn.	A	
(B: 10 7	14/18					
Chain of Custody						
1. Is Chain of Custody complete?		Yes	~	No		Not Present
2. How was the sample delivered?	3	Cou	rier			
Log In						
3. Was an attempt made to cool the sar	nples?	Yes	¥	No	П	NA 🗆
4. Were all samples received at a temper	erature of >0* C to 6.0°C	Yes	•	No		NA 🗆
5. Sample(s) in proper container(s)?	,	Yes	•	No		
3. Sufficient sample volume for indicated	test(s)?	es'	V	No		
7. Are samples (except VOA and ONG)	properly preserved?	es	V	No		
B. Was preservative added to bottles?	,	es		No	V	NA 🗆
VOA vials have zero headspace?	Y	'es	V	No		No VOA Vials
Were any sample containers received	broken?	Yes		No	~	# of preserved
Does paperwork match bottle labels? (Note discrepancies on chain of custo		es.	V	No		bottles checked for pH:
2. Are matrices correctly identified on Ch	ain of Custody?	es	~	No		Adjusted?
3, Is it clear what analyses were requesti	ed? Y	es	V	No		
 Were all holding times able to be met (If no, notify customer for authorization) 		es	~	No	9	Checked by:
pecial Handling (if applicable)						
5. Was client notified of all discrepancie	s with this order?	Yes		No		NA 🗹
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	eMa	u _	Phone	Fax	☐ In Person
16. Additional remarks:						
CUSTODY SEALS INTACT ON	VOA VIALS/at 7/6/18					
7. Cooler Information						
Cooler No Temp °C Condition	n Seal Intact Seal No Sea	al Da	te	Signed E	By	I
1 1.4 Good	Yes				,	4

		llodi.	Hall Francomechal	nortal	ANALYSIS	11111	/ / / Lab use only
		Laboratory: And	Nysis 4	Analysis Laberatory	REQUESTED	/ / / da	Due Date:
APEX		Address: 4401	Hamein	N NE	ı		2.4-CF-10=1.4
Office Location		Albuqueque, NM		87109	1		when received (C*):
COCO S Rio Grande, Suite A	16 A	Contact:	A. Freeman	30	1		1 2 3 4
Aztec NIM STUID		Phone: 505-	505-345-3975	175	7		Page of
Project Manager K.Summes	nes	PO/SO #: 735	725040112134	34	Epo		//
Sampler's Name		ina			3 3		
Rance Decchilly	B	End hely			(A)		
Proj. No. Project Name 725040112134 Masde	me Nen Gas	in #16	No/Type	No/Type of Containers	8		
· u	C G I Identifying Marks of Sample(s)	Start	Depth	AVG TLL S50 ml Glasss J8r	0/4		Lab Sample ID (Lab Use Only)
W 7/5/18 1010	I-MM		W		×		1807212 -201
W 75/18 1055	MW-3	-3	W		×		702
W 7/5/18 1140	J-MW	>	ien		^ ×		203
W 7 /5/18 1230	NW-S	7	a		~		405
N 7/5/18 1225	MM	G-MW	w		×		765
		1	1				
				1			
Turn around time Deformal 0.25	□ 25% Rush □	☐ 50% Rush ☐ 100% Rush	- La				
Religioushed by (Signature)	Date: Time:	me: Received by: (Signature)	ignature	Date:	// Time: N	NOTES:	minto April Compatitate
hed by (Signature)	Date: Ti	Time: Received by: (Signature)	signature)	Date:	Time:	20110	
Relinquished by (Signature)	Date: Ti	Time: Received by: (Signature)	Agnature)	Date:	Time:		
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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 23, 2018

Kyle Summers

Apex Titan, Inc.

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (214) 350-5469 FAX (214) 350-2914

RE: Masden Gas Com 1E OrderNo.: 1810949

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/17/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: MW-4

Project: Masden Gas Com 1E
 Collection Date: 10/16/2018 9:20:00 AM

 Lab ID: 1810949-001
 Matrix: AQUEOUS
 Received Date: 10/17/2018 8:13:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	10/19/2018 6:34:52 PM
Toluene	ND	1.0	μg/L	1	10/19/2018 6:34:52 PM
Ethylbenzene	ND	1.0	μg/L	1	10/19/2018 6:34:52 PM
Xylenes, Total	ND	2.0	μg/L	1	10/19/2018 6:34:52 PM
Surr: 4-Bromofluorobenzene	111	76.6-136	%Rec	1	10/19/2018 6:34:52 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 10/16/2018 9:50:00 AM

 Lab ID:
 1810949-002
 Matrix: AQUEOUS
 Received Date: 10/17/2018 8:13:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	10/19/2018 6:57:43 PM
Toluene	ND	1.0	μg/L	1	10/19/2018 6:57:43 PM
Ethylbenzene	ND	1.0	μg/L	1	10/19/2018 6:57:43 PM
Xylenes, Total	ND	2.0	μg/L	1	10/19/2018 6:57:43 PM
Surr: 4-Bromofluorobenzene	105	76.6-136	%Rec	1	10/19/2018 6:57:43 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 10/16/2018 10:30:00 AM

 Lab ID:
 1810949-003
 Matrix: AQUEOUS
 Received Date: 10/17/2018 8:13:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	10/19/2018 7:20:32 PM
Toluene	ND	1.0	μg/L	1	10/19/2018 7:20:32 PM
Ethylbenzene	ND	1.0	μg/L	1	10/19/2018 7:20:32 PM
Xylenes, Total	ND	2.0	μg/L	1	10/19/2018 7:20:32 PM
Surr: 4-Bromofluorobenzene	107	76.6-136	%Rec	1	10/19/2018 7:20:32 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 10/16/2018 11:05:00 AM

 Lab ID:
 1810949-004
 Matrix: AQUEOUS
 Received Date: 10/17/2018 8:13:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	10/19/2018 7:43:25 PM
Toluene	ND	1.0	μg/L	1	10/19/2018 7:43:25 PM
Ethylbenzene	ND	1.0	μg/L	1	10/19/2018 7:43:25 PM
Xylenes, Total	ND	2.0	μg/L	1	10/19/2018 7:43:25 PM
Surr: 4-Bromofluorobenzene	105	76.6-136	%Rec	1	10/19/2018 7:43:25 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 10/23/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 10/16/2018 11:40:00 AM

 Lab ID:
 1810949-005
 Matrix: AQUEOUS
 Received Date: 10/17/2018 8:13:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	66	1.0	μg/L	1	10/19/2018 8:29:01 PM
Toluene	ND	1.0	μg/L	1	10/19/2018 8:29:01 PM
Ethylbenzene	8.3	1.0	μg/L	1	10/19/2018 8:29:01 PM
Xylenes, Total	20	2.0	μg/L	1	10/19/2018 8:29:01 PM
Surr: 4-Bromofluorobenzene	109	76.6-136	%Rec	1	10/19/2018 8:29:01 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

21

WO#: **1810949**

23-Oct-18

Client: Apex Titan, Inc.

Project: Masden Gas Com 1E

Surr: 4-Bromofluorobenzene

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBW** Batch ID: **B55023** RunNo: 55023 Prep Date: Analysis Date: 10/19/2018 SeqNo: 1829554 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 ND Toluene 1.0 Ethylbenzene ND 1.0 Xylenes, Total ND 2.0

103

76.6

136

Sample ID 100NG BTEX LC	S SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	n ID: B5	5023	F	RunNo: 5	5023				
Prep Date:	Analysis D	Date: 10	0/19/2018	S	SeqNo: 1	829555	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.5	73.9	120			
Toluene	19	1.0	20.00	0	96.5	77.3	117			
Ethylbenzene	19	1.0	20.00	0	94.0	78.8	119			
Xylenes, Total	56	2.0	60.00	0	93.0	76.9	121			
Surr: 4-Bromofluorobenzene	22		20.00		109	76.6	136			

20.00

Qualifiers:

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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-in Check List

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.con

Client Name:	APEX Titan	Work Order Nur	nber: 1810949		RcptNo: 1	
Received By:	Victoria Zellar	10/17/2018 8:13:0	00 AM	Victoria, Gella	n	
Completed By:	Ashley Gallegos	, 10/17/2018 2:52:5	60 PM	A		
Reviewed By:	JAB 10/1	1	labeled	d by: E	NHIDIK	<u> 1</u> /18
Chain of Cus	tody					
1. Is Chain of Ci	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
<u>Log In</u> 3. Was an attern	npt made to cool the s	amples?	Yes 🗹	No 🗆	na 🗆	
		·				
4. Were all samp	ples received at a tem	perature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
5. Sample(s) in i	proper container(s)?		Yes 🔽	No 🗆		
6. Sufficient sam	ple volume for indicat	ed test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG	6) properly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials hav	e zero headspace?		Yes 🗹	No 🗆	No VOA Vials	/
10. Were any san	nple containers receiv	ed broken?	Yes	No 🗹 🗀	# af an and	-d-
	ork match bottle labels ancies on chain of cus		Yes 🗸		# of preserved bottles checked for pH:	2 unless noted)
	correctly identified on		Yes 🗹	No 🗆	Adjusted2	,
	t analyses were reque		Yes 🗹	No 🗆 🧸		
	ng times able to be me ustomer for authorizat		Yes 🗹	No 🗆	Checked by:	
Special Handl	ing (if applicable)		_		
	otified of all discrepand	_	Yes 🗌	No 🗆	. NA 🗹	
Person	Notified:	Date	e]	THE REPORT OF THE PERSON OF TH		
By Who	om:	Via	☐ eMail ☐ P	hone 🗌 Fax [In Person	
Regardi				ACCUS AND		
Client Ir	nstructions:	en e				
16. Additional rea	marks:					
17. Cooler Infor	. 125 12					
Cooler No	Temp ⁰C Condi 2.1 Good	tion Seal Intact Seal No Yes	Seal Date	Signed By		
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/	Labo	Hast Cousts	Envisonments	ANALYSIS REQUESTED / / /	Lab use only Due Date:
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Office Location		Contact: A Freeze	100/8		1 2 3 4 5
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<u>₹</u>		, t	No/Type of Containers	3 7	
17550401134 M	den Gas	Con #16		, w	
Matrix Date Time O m	G Identifying Marks of Sample(s)	Start Depth End Depth AOV	A/G 1 Lt. S50 Mar Glass Jar Jar		Lab Sample ID (Lab Use Only)
068 W/W/W W	mused	M			1810949-0181
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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

January 28, 2019

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Masden Gas Com 1E OrderNo.: 1901883

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/23/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 1/22/2019 9:15:00 AM

 Lab ID:
 1901883-001
 Matrix: AQUEOUS
 Received Date: 1/23/2019 8:10:00 AM

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: AG
Benzene	ND	1.0	μg/L	1	1/24/2019 10:47:19 PM	A57241
Toluene	ND	1.0	μg/L	1	1/24/2019 10:47:19 PN	A57241
Ethylbenzene	ND	1.0	μg/L	1	1/24/2019 10:47:19 PN	A57241
Xylenes, Total	ND	1.5	μg/L	1	1/24/2019 10:47:19 PN	A57241
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	1/24/2019 10:47:19 PN	A57241
Surr: Toluene-d8	102	70-130	%Rec	1	1/24/2019 10:47:19 PN	A57241

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 1/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 1/22/2019 10:00:00 AM

 Lab ID:
 1901883-002
 Matrix: AQUEOUS
 Received Date: 1/23/2019 8:10:00 AM

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: AG
Benzene	ND	1.0	μg/L	1	1/24/2019 11:44:29 PN	A57241
Toluene	ND	1.0	μg/L	1	1/24/2019 11:44:29 PN	A57241
Ethylbenzene	ND	1.0	μg/L	1	1/24/2019 11:44:29 PN	A57241
Xylenes, Total	ND	1.5	μg/L	1	1/24/2019 11:44:29 PN	A57241
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	1/24/2019 11:44:29 PN	A57241
Surr: Toluene-d8	104	70-130	%Rec	1	1/24/2019 11:44:29 PN	A57241

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 1/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 1/22/2019 10:45:00 AM

 Lab ID:
 1901883-003
 Matrix: AQUEOUS
 Received Date: 1/23/2019 8:10:00 AM

Analyses	Result	PQL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	st: AG
Benzene	ND	1.0	μg/L	1	1/25/2019 12:13:01 Al	M A57241
Toluene	ND	1.0	μg/L	1	1/25/2019 12:13:01 Al	M A57241
Ethylbenzene	ND	1.0	μg/L	1	1/25/2019 12:13:01 Al	M A57241
Xylenes, Total	ND	1.5	μg/L	1	1/25/2019 12:13:01 Al	M A57241
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	1/25/2019 12:13:01 Al	M A57241
Surr: Toluene-d8	103	70-130	%Rec	1	1/25/2019 12:13:01 Al	M A57241

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 1/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 1/22/2019 11:30:00 AM

 Lab ID:
 1901883-004
 Matrix: AQUEOUS
 Received Date: 1/23/2019 8:10:00 AM

Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: AG
Benzene	ND	1.0	μg/L	1	1/25/2019 12:41:33 AM	Л A57241
Toluene	ND	1.0	μg/L	1	1/25/2019 12:41:33 AM	/I A57241
Ethylbenzene	ND	1.0	μg/L	1	1/25/2019 12:41:33 AM	/I A57241
Xylenes, Total	ND	1.5	μg/L	1	1/25/2019 12:41:33 AM	/I A57241
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	1/25/2019 12:41:33 AM	/I A57241
Surr: Toluene-d8	98.2	70-130	%Rec	1	1/25/2019 12:41:33 AM	Л A57241

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 1/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 1/22/2019 12:20:00 PM

 Lab ID:
 1901883-005
 Matrix: AQUEOUS
 Received Date: 1/23/2019 8:10:00 AM

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: AG
Benzene	600	10	μg/L	10	1/25/2019 10:55:09 AM	B57285
Toluene	51	1.0	μg/L	1	1/25/2019 1:10:05 AM	A57241
Ethylbenzene	57	1.0	μg/L	1	1/25/2019 1:10:05 AM	A57241
Xylenes, Total	250	15	μg/L	10	1/25/2019 10:55:09 AM	B57285
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	1/25/2019 1:10:05 AM	A57241
Surr: Toluene-d8	103	70-130	%Rec	1	1/25/2019 1:10:05 AM	A57241

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901883

Page 6 of 7

28-Jan-19

APEX TITAN **Client: Project:** Masden Gas Com 1E

Sample ID 100ng lcs	SampT	ype: LC	s	Tes	TestCode: EPA Method 8260: Volatiles Short List					
Client ID: LCSW	Batch	ID: A5	7241	RunNo: 57241						
Prep Date:	Analysis D	ate: 1/	24/2019	8	SeqNo: 1	914662	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	99.1	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID rb	SampT	ype: ME	BLK	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch	n ID: A5	7241	F	RunNo: 5	7241				
Prep Date:	Analysis D	ate: 1/	24/2019	S	SeqNo: 1	914675	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID 100ng Ics	SampT	ype: LC	S	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch	1D: B5	7285	F	RunNo: 57285					
Prep Date:	Analysis D	ate: 1/	25/2019	8	SeqNo: 1	916355	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Sample ID rb	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch	n ID: B5	7285	F	RunNo: 5	7285				
Prep Date:	Analysis D	ate: 1/	25/2019	8	SeqNo: 1	916357	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			

Qualifiers:

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

Released to Imaging: 6/14/2022 11:15:05 AM

Hall Environmental Analysis Laboratory, Inc.

WO#: **1901883 28-Jan-19**

Client: APEX TITAN

Project: Masden Gas Com 1E

Sample ID rb SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List Client ID: PBW Batch ID: **B57285** RunNo: 57285 Prep Date: Analysis Date: 1/25/2019 SeqNo: 1916357 Units: µg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 10.00 105 70 130 11 Surr: Dibromofluoromethane 11 10.00 107 70 130 Surr: Toluene-d8 10 10.00 102 70 130

Qualifiers:

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

Page 7 of 7



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

·	19 8:10:00 AM 19 11:37:06 AM		Victoria &	llar	
Reviewed By: =0 1/23/0 LB:					
Reviewed By: =0 1/23/0 LB:	9		U-UA	, 	
LB: <u>VVZ Y23/19</u>	/				
Chain of Custody					
viia or oudiouy		_	_		
1. Is Chain of Custody complete?	Yes	s 🔽	No 🗀	Not Present L	
2. How was the sample delivered?	Clie	<u>ent</u>			
<u>Log In</u>					
3. Was an attempt made to cool the samples?	Yes	· 🗸	No 🗌	NA 🗆	
4. Were all samples received at a temperature of >0° C t	:o 6.0°C Yes	. V	No 🗌	NA 🗆	
The state and examples to some at a composition of the original of the origina		, હ		Nex 🗀	
5. Sample(s) in proper container(s)?	Yes	y	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes	V	No 🗆		
7. Are samples (except VOA and ONG) properly preserve	ed? Yes	✓	No 🗌		
8. Was preservative added to bottles?	Yes		No 🗹	NA 🗆	
9. VOA vials have zero headspace?	Yes	V	No 🗌	No VOA Vials	امدان
Were any sample containers received broken?	Yes		No 🔽		VVZ 1/2/3/1
o. The drift of the property o	100	,		# of preserved	
1. Does paperwork match bottle labels?	Yes	✓	No 🗆	bottles checked for pH:	w.m.
(Note discrepancies on chain of custody)					r >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes	✓	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?	Yes	✓	No 🗆		
4. Were all holding times able to be met?	Yes	✓	No 🗌	Checked by:	
(If no, notify customer for authorization.)					
pecial Handling (if applicable) 5. Was client notified of all discrepancies with this order?	Yes	. \square	No 🗆	NA 🗹	
Person Notified:		·	140		
By Whom:	Date:	 4 11	:	C in Dansey	
	Via: ☐ eN	1ail	Phone Fax	In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
 Cooler Information Cooler No Temp °C Condition Seal Intact 	Seal No Seal [)ate	Signed By		
1 1.3 Good		1914	HARRIES ES	Margarian and and and and and and and and and a	
2 2.3 Good				THE GO THE COLUMN TO THE COLUM	

			5		CHAIN OF CUST	CUSTODY RECORD
	Laboratory:	Hall Environmental		ANALYSIS REQUESTED	Lab	Lab use only Due Date:
APEX	Address:	ass: 4901 thukin	8 NE		Temp	Temp. of coolers when received (C°):
io Grante,	Swite A Contact:	Atmeenan		7	1	2 3 4 5
	Phone:	545-345-303	Stb	200	Page	1 of 1
Project Manager 15,5 Jummers	PO/SO#:	725040112134	33		Comp	Joan 20 20 2000
Sampler's Name Rance Deechilly	Sampler's Signature	ature		FILS		0,8
Proj. No. 73504012134 Mass	oject Name Massden Gas Can #1E	No/Type of Containers	Containers		4.82.	
002		Start and Depth Aov Aov and Depth Aov	SS60 Glass Jar P/O		$\begin{array}{c c} & 1801883 \\ \hline \\ & Lab \ Sample \ ID \ (Lab \ Use \ Only) \end{array}$	C (Lab Use Only)
W 1/22/19 915	1-MM	W		>	122-	
W 122/9 1000	MW-3	2		×	-002	
W1) 22/19 1045	p- wm	2	4	×	-003	
W1139 19 1130	NW-5	w		×	100-	
W 1/39/10 1220	MW-2	N		X	-000	
	*					
		L.				
mal	sn ☐ 50% Rus	U 100% Kush		-	,	
	1553 253	Hegelined by: (Signature)	U22/19	ime: NOIES:	Bill to thex 102	Tom Cong
Relinquished by (Signature)	Time:	Received by: (Signature)	Date: 1/23/19	Time:	There are (model) and and	1
Relinquished by (Signature)	Date: Time: Réceiv	ed by: (Signature)	Date:/	Time:	James Company of the)
Relinquished by (Signature)	Date: Time: Receiv	Received by: (Signature)	Date:	Time:	You key R B21200	
Matrix WW - Wastewater Container VOA - 40 ml vial	W - Water S - Soil SD - Solid A/G - Amber / Or Glass 1 Liter	lid L - Liquid A - Air Bag 250 ml - Glass wide mouth		C - Charcoal tube SL - sludge P/O - Plastic or other	IO - O	

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

August 12, 2019

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

FAX:

RE: Masden Gas Com 1E OrderNo.: 1908283

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/6/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 8/5/2019 11:10:00 AM

 Lab ID:
 1908283-001
 Matrix: AQUEOUS
 Received Date: 8/6/2019 8:15:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	1.0	μg/L	1	8/7/2019 10:50:08 PM	D61961
Toluene	ND	1.0	μg/L	1	8/7/2019 10:50:08 PM	D61961
Ethylbenzene	ND	1.0	μg/L	1	8/7/2019 10:50:08 PM	D61961
Xylenes, Total	ND	2.0	μg/L	1	8/7/2019 10:50:08 PM	D61961
Surr: 4-Bromofluorobenzene	95.3	80-120	%Rec	1	8/7/2019 10:50:08 PM	D61961

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Date Reported: 8/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 8/5/2019 11:45:00 AM

 Lab ID:
 1908283-002
 Matrix: AQUEOUS
 Received Date: 8/6/2019 8:15:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 8/7/2019 11:13:39 PM D61961 Toluene ND 1.0 μg/L 8/7/2019 11:13:39 PM D61961 1 Ethylbenzene ND 1.0 μg/L 8/7/2019 11:13:39 PM D61961 Xylenes, Total ND 2.0 μg/L 8/7/2019 11:13:39 PM D61961 Surr: 4-Bromofluorobenzene 94.2 80-120 %Rec 8/7/2019 11:13:39 PM D61961

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Date Reported: 8/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-4

Project: Masden Gas Com 1E
 Collection Date: 8/5/2019 12:20:00 PM

 Lab ID: 1908283-003
 Matrix: AQUEOUS
 Received Date: 8/6/2019 8:15:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	8/7/2019 11:37:10 PM	D61961
Toluene	ND	1.0	μg/L	1	8/7/2019 11:37:10 PM	D61961
Ethylbenzene	ND	1.0	μg/L	1	8/7/2019 11:37:10 PM	D61961
Xylenes, Total	ND	2.0	μg/L	1	8/7/2019 11:37:10 PM	D61961
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/7/2019 11:37:10 PM	D61961

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Date Reported: 8/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 8/5/2019 1:00:00 PM

 Lab ID:
 1908283-004
 Matrix: AQUEOUS
 Received Date: 8/6/2019 8:15:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	8/8/2019 12:00:39 AM	D61961
Toluene	ND	1.0	μg/L	1	8/8/2019 12:00:39 AM	D61961
Ethylbenzene	ND	1.0	μg/L	1	8/8/2019 12:00:39 AM	D61961
Xylenes, Total	ND	2.0	μg/L	1	8/8/2019 12:00:39 AM	D61961
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	8/8/2019 12:00:39 AM	D61961

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Date Reported: 8/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 8/5/2019 2:20:00 PM

 Lab ID:
 1908283-005
 Matrix: AQUEOUS
 Received Date: 8/6/2019 8:15:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	150	10	μg/L	10	8/8/2019 12:24:09 AM	D61961
Toluene	ND	1.0	μg/L	1	8/8/2019 1:10:55 PM	D61961
Ethylbenzene	16	1.0	μg/L	1	8/8/2019 1:10:55 PM	D61961
Xylenes, Total	28	2.0	μg/L	1	8/8/2019 1:10:55 PM	D61961
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	8/8/2019 1:10:55 PM	D61961

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908283**

12-Aug-19

Client: ENSOLUM

Project: Masden Gas Com 1E

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: D61961 RunNo: 61961

Prep Date: Analysis Date: 8/7/2019 SeqNo: 2101909 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-Bromofluorobenzene
 19
 20.00
 93.6
 80
 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW Batch ID: D61961 RunNo: 61961

Prep Date: Analysis Date: 8/7/2019 SeqNo: 2101910 Units: µg/L

'	,				•		1.0			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.2	80	120			
Toluene	18	1.0	20.00	0	92.5	80	120			
Ethylbenzene	18	1.0	20.00	0	90.8	80	120			
Xylenes, Total	55	2.0	60.00	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		95.1	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



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:	ENSOLUM AZTEC	Work Order Number	: 1908	3283		RcptNo: 1	
Received By:	Desiree Dominguez	8/6/2019 8:15:00 AM			Da		
Completed By:	Leah Baca	8/6/2019 3:57:03 PM			Int Bace		
Reviewed By:	ENM	8/7/19			Luivya		
Chain of Cus	<u>tody</u>						
1. Is Chain of Co	ustody complete?		Yes	V	No 🗌	Not Present	
2. How was the	sample delivered?		Cour	<u>ier</u>			
Log In							
3. Was an attern	npt made to cool the sample	s?	Yes	✓	No 🗌	NA 🗆	
4. Were all samp	ples received at a temperatu	ire of >0° C to 6.0°C	Yes	~	No 🗌	NA \square	
5. Sample(s) in p	proper container(s)?		Yes	✓	No 🗌		
6. Sufficient sam	ple volume for indicated tes	it(s)?	Yes	V	No 🗌		
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes	✓	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA 🗆	
9. VOA vials hav	e zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
10. Were any san	nple containers received bro	oken?	Yes		No 🗸	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes	\checkmark	No 🗆	bottles checked for pH: (<2.or >1)	2 unless noted)
	correctly identified on Chain	of Custody?	Yes	~	No 🗌	Adjusted?	
13. Is it clear what	t analyses were requested?		Yes	~	No 🗌		ala i
	ng times able to be met? ustomer for authorization.)		Yes	~	No 🗆	Checked by: DAD	8/7/19
Special Handl	ing (if applicable)						
15. Was client no	tified of all discrepancies wi	th this order?	Yes		No 🗌	NA 🗹	
By Who Regardi		Date Via:	_ eMa	ail 🔲	Phone Fax	☐ In Person	
16. Additional rea	marks:						
17. <u>Cooler Infor</u> Cooler No	Temp °C Condition	Seal Intact Seal No S	Seal Da	ate	Signed By		

Chain-of-Custody Record	Turn-Around Time:	
Client: Ensolum, U.C.	M Standard □ Rush	ANAL ENVIRONMENTAL ANALVETS I ABODATORY
		LABORATORI
Mailing Address: (206 S. Rio Grande Suite A	Masden Gas Com #1E	4901 Hawkins NE - Albuquerque, NM 87109
	Project #: OSA1226026	5 Fax 505-345-4107
:# buoue #:		Analysis Request
email or Fax#: KSummers @enselum.com	Project Manager: Ksummers	(O
CA/QC Package:		B's MS MS
Standard 🗆 Level 4 (Full Validation)	The second secon	PC PO I
on:	Sampler: KOuchilly	280 (1.) (20) (2),
□ NELAC □ Other		s/80 / O5 / S/8/9 / O5 / S/9 / O5 /
□ EDD (Type)	# of Coolers: \	(GRS) ide: ide: ide: ide: ide: ide: ide: ide:
	Cooler Temp(including CF): 4,7 -0.3 = 4,4%	estico estico Me Me (AC)
Date Time Matrix Sample Name	Container Preservative HEAL No.	ETEX / RETEX / RETEX / REDB (Md PACA B) SCRA 8 / RC (Nd SCRA 8 / RC (Nd SCRA B) SCRO (Nd SCRA SCRO (Nd SCRO
8/5/19 1110 W MW-1	A Hadz	
8/5/9 1145 W MW-3	Hach	*
8/5/19 1220 W mw-4	Hade	×
8/5/19 1360 W MW-S	3 youlds Hadis - our	×
8/5/19 1420 W MW-Z	3 40 me Was Hacks -005	
	a (
And the second s		
S S 19	Received by: Via: Date Time	Remarks: Bill to Ensolum
Date: Time: Relinquished by:	Via: Date Time Via: Courise \$/6/19 8	(copy Tom Long (EARCO)
If necessary, samples submitted to Hall Environmental may be sub	ocontracted to other accredited laboratories. This serves as notice of this	f necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

January 28, 2020

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

FAX

RE: Masden Gas Com 1E OrderNo.: 2001A18

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/25/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report
Lab Order 2001A18

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 1/24/2020 10:10:00 AM

 Lab ID:
 2001A18-001
 Matrix: AQUEOUS
 Received Date: 1/25/2020 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/27/2020 6:06:00 PM	SL66079
Toluene	ND	1.0	μg/L	1	1/27/2020 6:06:00 PM	SL66079
Ethylbenzene	ND	1.0	μg/L	1	1/27/2020 6:06:00 PM	SL66079
Xylenes, Total	ND	1.5	μg/L	1	1/27/2020 6:06:00 PM	SL66079
Surr: 1,2-Dichloroethane-d4	99.6	70-130	%Rec	1	1/27/2020 6:06:00 PM	SL66079
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	1/27/2020 6:06:00 PM	SL66079
Surr: Dibromofluoromethane	97.9	70-130	%Rec	1	1/27/2020 6:06:00 PM	SL66079
Surr: Toluene-d8	91.2	70-130	%Rec	1	1/27/2020 6:06:00 PM	SL66079

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Analytical ReportLab Order **2001A18**

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 1/24/2020 10:55:00 AM

 Lab ID:
 2001A18-002
 Matrix: AQUEOUS
 Received Date: 1/25/2020 8:45:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/27/2020 6:30:00 PM	SL66079
Toluene	ND	1.0	μg/L	1	1/27/2020 6:30:00 PM	SL66079
Ethylbenzene	ND	1.0	μg/L	1	1/27/2020 6:30:00 PM	SL66079
Xylenes, Total	ND	1.5	μg/L	1	1/27/2020 6:30:00 PM	SL66079
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	1/27/2020 6:30:00 PM	SL66079
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	1/27/2020 6:30:00 PM	SL66079
Surr: Dibromofluoromethane	101	70-130	%Rec	1	1/27/2020 6:30:00 PM	SL66079
Surr: Toluene-d8	91.0	70-130	%Rec	1	1/27/2020 6:30:00 PM	SL66079

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

CLIENT: ENSOLUM

Analytical Report Lab Order 2001A18

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 1/24/2020 11:35:00 AM

 Lab ID:
 2001A18-003
 Matrix: AQUEOUS
 Received Date: 1/25/2020 8:45:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8260: VOLATILES SHORT LIST** Analyst: CCM Benzene ND 1.0 μg/L 1/27/2020 6:54:00 PM SL66079 Toluene ND 1.0 μg/L 1/27/2020 6:54:00 PM SL66079 1 Ethylbenzene ND 1.0 μg/L 1/27/2020 6:54:00 PM SL66079 Xylenes, Total ND μg/L 1 1/27/2020 6:54:00 PM SL66079 1.5 Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 1/27/2020 6:54:00 PM SL66079 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 1/27/2020 6:54:00 PM SL66079 Surr: Dibromofluoromethane 98.3 70-130 %Rec 1/27/2020 6:54:00 PM SL66079 Surr: Toluene-d8 91.6 70-130 %Rec 1/27/2020 6:54:00 PM SL66079

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Analytical Report
Lab Order 2001A18

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 1/24/2020 12:20:00 PM

 Lab ID:
 2001A18-004
 Matrix: AQUEOUS
 Received Date: 1/25/2020 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM
Benzene	ND	1.0	μg/L	1	1/27/2020 7:17:00 PM	SL66079
Toluene	ND	1.0	μg/L	1	1/27/2020 7:17:00 PM	SL66079
Ethylbenzene	ND	1.0	μg/L	1	1/27/2020 7:17:00 PM	SL66079
Xylenes, Total	ND	1.5	μg/L	1	1/27/2020 7:17:00 PM	SL66079
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	1/27/2020 7:17:00 PM	SL66079
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	1/27/2020 7:17:00 PM	SL66079
Surr: Dibromofluoromethane	97.0	70-130	%Rec	1	1/27/2020 7:17:00 PM	SL66079
Surr: Toluene-d8	91.0	70-130	%Rec	1	1/27/2020 7:17:00 PM	SL66079

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical ReportLab Order **2001A18**

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MW-2

 Project:
 Masden Gas Com 1E
 Collection Date: 1/24/2020 1:30:00 PM

 Lab ID:
 2001A18-005
 Matrix: AQUEOUS
 Received Date: 1/25/2020 8:45:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: CCM
Benzene	830	10	μg/L	10	1/27/2020 7:41:00 PM	SL66079
Toluene	21	1.0	μg/L	1	1/27/2020 8:05:00 PM	SL66079
Ethylbenzene	28	1.0	μg/L	1	1/27/2020 8:05:00 PM	SL66079
Xylenes, Total	96	1.5	μg/L	1	1/27/2020 8:05:00 PM	SL66079
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	1/27/2020 8:05:00 PM	SL66079
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	1/27/2020 8:05:00 PM	SL66079
Surr: Dibromofluoromethane	98.2	70-130	%Rec	1	1/27/2020 8:05:00 PM	SL66079
Surr: Toluene-d8	91.5	70-130	%Rec	1	1/27/2020 8:05:00 PM	SL66079

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2001A18 28-Jan-20**

Client: ENSOLUM

Project: Masden Gas Com 1E

Sample ID: 100ng BTEX Ics	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260: Volatile	s Short L	ist	
Client ID: BatchQC	Batch	ID: SL	66079	F	RunNo: 6	6079				
Prep Date:	Analysis D	ate: 1/	27/2020	8	SeqNo: 2	270000	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	80	120			
Toluene	20	1.0	20.00	0	98.2	80	120			
Ethylbenzene	19	1.0	20.00	0	95.7	80	120			
Xylenes, Total	59	1.5	60.00	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Toluene-d8	8.5		10.00		85.0	70	130			

Sample ID: mb2	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batcl	n ID: SL	66079	F	RunNo: 6	6079				
Prep Date:	Analysis D	Date: 1/	27/2020	\$	SeqNo: 2	270358	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.5	70	130			
Surr: Toluene-d8	9.2		10.00		92.2	70	130			

Sample ID: 2001A18-001ams	SampT	ype: MS	64	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: MW-1	Batch	ID: SL	66079	F	RunNo: 6	6079				
Prep Date:	Analysis D	ate: 1/	27/2020	8	SeqNo: 2	270366	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	19	1.0	20.00	0	94.4	80	120			
Ethylbenzene	18	1.0	20.00	0	91.9	80	120			
Xylenes, Total	58	1.5	60.00	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Sample ID: 2001A18-001amsd	SampT	ype: MS	3D4	Test	tCode: EF	PA Method	8260: Volatile	s Short L	.ist	
Client ID: MW-1	Batch	ID: SL	66079	R	RunNo: 66	5079				
Prep Date:	Analysis Da	ate: 1/	27/2020	S	SeqNo: 22	270367	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.2	80	120	12.6	20	
Toluene	15	1.0	20.00	0	75.8	80	120	21.8	20	RS

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2001A18 28-Jan-20

WO#:

Client: ENSOLUM

Project: Masden Gas Com 1E

 Sample ID: 2001A18-001amsd
 SampType: MSD4
 TestCode: EPA Method 8260: Volatiles Short List

 Client ID: MW-1
 Batch ID: SL66079
 RunNo: 66079

 Prep Date:
 Analysis Date: 1/27/2020
 SeqNo: 2270367
 Units: μg/L

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

 Fithylbenzene
 18
 1.0
 20.00
 0
 91.0
 80
 120
 1.03
 20

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Q
Ethylbenzene	18	1.0	20.00	0	91.0	80	120	1.03	20	
Xylenes, Total	57	1.5	60.00	0	94.2	80	120	1.91	20	
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130	0	0	
Surr: Toluene-d8	7.2		10.00		71.5	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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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

Sample Log-In Check List

Client Name: ENSOLUM	AZTEC Work Orde	er Number: 2001A18		RcptNo: 1
Received By: Erin Melen	ndrez 1/25/2020 8:	45:00 AM	unt	
Completed By: Daniel Mar			CIVA	
Reviewed By: ENM	1/27/7	20	The second	
Chain of Custody				
1. Is Chain of Custody sufficie	ently complete?	Yes 🗸	No 🗌	Not Present
2. How was the sample delive	ered?	Courier		
<u>Log In</u>		_		
3. Was an attempt made to co	ool the samples?	Yes 🗸	No 🗔	NA L
4. Were all samples received	at a temperature of >0° C to 6.0	o°C Yes ✓	No 🗌	NA \square
5. Sample(s) in proper contain	ner(s)?	Yes 🗸	No 🗌	
6. Sufficient sample volume fo	r indicated test(s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA a	nd ONG) properly preserved?	Yes 🗸	No 🗌	
8. Was preservative added to	bottles?	Yes	No 🗸	NA \square
9. Received at least 1 vial with	headspace <1/4" for AQ VOA?	Yes 🗸	No 🗌	NA \square
10. Were any sample container	rs received broken?	Yes		of preserved
11. Does paperwork match bott		Yes 🗸		ottles checked r pH: /(<2 or >12 unless note
(Note discrepancies on chain 12. Are matrices correctly identi	5.5	Yes 🗸	No 🗆	Adjusted?
13. Is it clear what analyses we	2.74	Yes 🗸	No 🗆	VIN27/2
 Were all holding times able (If no, notify customer for au 	to be met?	Yes 🗸	No 🗆	Checked by:
Special Handling (if appl	licable)			
15. Was client notified of all dis	crepancies with this order?	Yes	No 🗌	NA 🗸
Person Notified:		Date:		
By Whom:	*	Via: eMail P	hone Fax	In Person
Regarding: Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C	Condition Seal Intact Sea	al No Seal Date	Signed By	
1 2.1	Good			

Chain	-of-Cı	Chain-of-Custody Record	Turn-Around Time:	Time:										Receiv
Client: Free	Frsalum, LL		Standard	□ Rush				ANA	1	N V	7		HALL ENVIRONMENTAL ANALYSTS LABODATODY	ed by
Ima			Project Name:					NAMA.	, half	nviro		www hallenvironmental com	S S S S S	OCI
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Apostos Ac	teci		Project#: 0	05 A1226 02	98	ř	Tel. 505-345-3975	345-3		Fax	505	Fax 505-345-4107	107	/18/2
Phone #:				A					An	alysis	Analysis Request	uest		2021
email or Fax#:	KSumm	email or Fax#: KSummers @ ensolum.com	Project Manager	ger: XSummes	mers					† ○°		(ţu		2:4
QA/QC Package:		☐ Level 4 (Full Validation)				208) ೩ ЯМ∖О	bcB _i ²	SWIS		PO4, S		əsdA\tı	3 W Y	6:21 P
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			Cooler Temp(including cF):	including CF): 1.(0	(0,)1.5-(1)2.0Hg).			30				oìilo		
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1/21/20 1220	3	MW-5	AN YOUR WIA	14'd;	400	×		M						
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		the first section of the		A	- 5									
Date: Time: 7470 1578 7471 741			Received by:	via:	Date Time $\frac{1}{2}\sqrt{\frac{1}{2}}\sqrt{\frac{1}{2}}$ Sr Date Time $1.777/7/ \Lambda2U = 1$	Remarks:	ώ	20	日間を		Ensalum	22		Page 166 o
If necessary,	, samples suk	Environm	ontracted to other ac	credited laboratorie	This serves as r	possibility.	Any sub-c	ontractec	data wi	ll be cle	arly nota	ited on th	e analytical report.	f 216



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

March 10, 2020

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

FAX

RE: Masden GC 1E OrderNo.: 2003329

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/7/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-1

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:05:00 PM

 Lab ID:
 2003329-001
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 11:47:28 AM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/9/2020 10:31:01 AM	50954
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/9/2020 10:31:01 AM	50954
Surr: DNOP	97.4	55.1-146	%Rec	1	3/9/2020 10:31:01 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/9/2020 9:35:22 AM	A67115
Surr: BFB	79.9	66.6-105	%Rec	1	3/9/2020 9:35:22 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	3/9/2020 9:35:22 AM	B67115
Toluene	ND	0.036	mg/Kg	1	3/9/2020 9:35:22 AM	B67115
Ethylbenzene	ND	0.036	mg/Kg	1	3/9/2020 9:35:22 AM	B67115
Xylenes, Total	ND	0.071	mg/Kg	1	3/9/2020 9:35:22 AM	B67115
Surr: 4-Bromofluorobenzene	85.6	80-120	%Rec	1	3/9/2020 9:35:22 AM	B67115

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-2

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:10:00 PM

 Lab ID:
 2003329-002
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 11:59:49 AM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.1	mg/Kg	1	3/9/2020 10:55:14 AM	50954
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	3/9/2020 10:55:14 AM	50954
Surr: DNOP	97.8	55.1-146	%Rec	1	3/9/2020 10:55:14 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	3/9/2020 9:58:40 AM	A67115
Surr: BFB	83.0	66.6-105	%Rec	1	3/9/2020 9:58:40 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	3/9/2020 9:58:40 AM	B67115
Toluene	ND	0.039	mg/Kg	1	3/9/2020 9:58:40 AM	B67115
Ethylbenzene	ND	0.039	mg/Kg	1	3/9/2020 9:58:40 AM	B67115
Xylenes, Total	ND	0.077	mg/Kg	1	3/9/2020 9:58:40 AM	B67115
Surr: 4-Bromofluorobenzene	87.4	80-120	%Rec	1	3/9/2020 9:58:40 AM	B67115

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-3

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:15:00 PM

 Lab ID:
 2003329-003
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 12:12:10 PM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/9/2020 10:09:03 AM	50954
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/9/2020 10:09:03 AM	50954
Surr: DNOP	97.0	55.1-146	%Rec	1	3/9/2020 10:09:03 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	3/9/2020 10:22:16 AM	A67115
Surr: BFB	93.9	66.6-105	%Rec	1	3/9/2020 10:22:16 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.016	mg/Kg	1	3/9/2020 10:22:16 AM	B67115
Toluene	ND	0.031	mg/Kg	1	3/9/2020 10:22:16 AM	B67115
Ethylbenzene	ND	0.031	mg/Kg	1	3/9/2020 10:22:16 AM	B67115
Xylenes, Total	ND	0.062	mg/Kg	1	3/9/2020 10:22:16 AM	B67115
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	3/9/2020 10:22:16 AM	B67115

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-4

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:20:00 PM

 Lab ID:
 2003329-004
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 12:24:31 PM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.3	mg/Kg	1	3/9/2020 10:31:11 AM	50954
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	3/9/2020 10:31:11 AM	50954
Surr: DNOP	96.3	55.1-146	%Rec	1	3/9/2020 10:31:11 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	3/9/2020 10:45:51 AM	A67115
Surr: BFB	88.2	66.6-105	%Rec	1	3/9/2020 10:45:51 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.015	mg/Kg	1	3/9/2020 10:45:51 AM	B67115
Toluene	ND	0.031	mg/Kg	1	3/9/2020 10:45:51 AM	B67115
Ethylbenzene	ND	0.031	mg/Kg	1	3/9/2020 10:45:51 AM	B67115
Xylenes, Total	ND	0.062	mg/Kg	1	3/9/2020 10:45:51 AM	B67115
Surr: 4-Bromofluorobenzene	88.4	80-120	%Rec	1	3/9/2020 10:45:51 AM	B67115

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-5

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:25:00 PM

 Lab ID:
 2003329-005
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 12:36:52 PM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/9/2020 10:57:04 AM	50954
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/9/2020 10:57:04 AM	50954
Surr: DNOP	97.0	55.1-146	%Rec	1	3/9/2020 10:57:04 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	3/9/2020 11:09:25 AM	A67115
Surr: BFB	87.3	66.6-105	%Rec	1	3/9/2020 11:09:25 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.016	mg/Kg	1	3/9/2020 11:09:25 AM	B67115
Toluene	ND	0.032	mg/Kg	1	3/9/2020 11:09:25 AM	B67115
Ethylbenzene	ND	0.032	mg/Kg	1	3/9/2020 11:09:25 AM	B67115
Xylenes, Total	ND	0.063	mg/Kg	1	3/9/2020 11:09:25 AM	B67115
Surr: 4-Bromofluorobenzene	92.4	80-120	%Rec	1	3/9/2020 11:09:25 AM	B67115

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: MS-6

 Project:
 Masden GC 1E
 Collection Date: 3/6/2020 2:30:00 PM

 Lab ID:
 2003329-006
 Matrix: MEOH (SOIL)
 Received Date: 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	3/9/2020 12:49:13 PM	50957
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/9/2020 11:19:09 AM	50954
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/9/2020 11:19:09 AM	50954
Surr: DNOP	96.3	55.1-146	%Rec	1	3/9/2020 11:19:09 AM	50954
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	2.8	mg/Kg	1	3/9/2020 11:32:58 AM	A67115
Surr: BFB	84.8	66.6-105	%Rec	1	3/9/2020 11:32:58 AM	A67115
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.014	mg/Kg	1	3/9/2020 11:32:58 AM	B67115
Toluene	ND	0.028	mg/Kg	1	3/9/2020 11:32:58 AM	B67115
Ethylbenzene	ND	0.028	mg/Kg	1	3/9/2020 11:32:58 AM	B67115
Xylenes, Total	ND	0.056	mg/Kg	1	3/9/2020 11:32:58 AM	B67115
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	3/9/2020 11:32:58 AM	B67115

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003329**

10-Mar-20

Client: ENSOLUM
Project: Masden GC 1E

Sample ID: MB-50957 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50957 RunNo: 67121

Prep Date: 3/9/2020 Analysis Date: 3/9/2020 SeqNo: 2312534 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-50957 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50957 RunNo: 67121

Prep Date: 3/9/2020 Analysis Date: 3/9/2020 SeqNo: 2312535 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003329** *10-Mar-20*

Client:	ENSOLUM
Project:	Masden GC 1E

Troject. Waster C	JC IE										
Sample ID: LCS-50954	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	e Organics			
Client ID: LCSS	Batch ID: 50	954	F	RunNo: 67107							
Prep Date: 3/9/2020	Analysis Date: 3	/9/2020	8	SeqNo: 23	310944	Units: mg/K					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	51 10	50.00	0	101	70	130					
Surr: DNOP	4.6	5.000		91.5	55.1	146					
Sample ID: MB-50954	SampType: M I	BLK	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	e Organics			
Client ID: PBS	Batch ID: 50	954	RunNo: 67107								
Prep Date: 3/9/2020	Analysis Date: 3	/9/2020	S	SeqNo: 23	310945	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND 10										
Motor Oil Range Organics (MRO)	ND 50										
Surr: DNOP	9.7	10.00		97.0	55.1	146					
Sample ID: 2003329-001AMS	SampType: M :	S	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	e Organics			
Client ID: MS-1	Batch ID: 50	954	F	RunNo: 67	7107						
Prep Date: 3/9/2020	Analysis Date: 3	/9/2020	8	SeqNo: 23	311345	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	48 9.1	45.33	0	105	47.4	136					
Surr: DNOP	4.5	4.533		99.9	55.1	146					
Sample ID: 2003329-001AMS	D SampType: M	SD	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	e Organics			
Client ID: MS-1	Batch ID: 50	954	RunNo: 67107								
Prep Date: 3/9/2020	Analysis Date: 3	/9/2020	S	SeqNo: 23	311346	Units: mg/K	g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	45 8.6	43.03	0	105	47.4	136	5.61	43.4			
Surr: DNOP	4.4	4.303		102	55.1	146	0	0			
Sample ID: LCS-50931	SampType: LC	s	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	e Organics			
Client ID: LCSS	Batch ID: 50	931	F	RunNo: 67	7107						
Prep Date: 3/6/2020	Analysis Date: 3	/9/2020	S	SeqNo: 23	312091	Units: %Rec	:				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	4.3	5.000		85.8	55.1	146					
Sample ID: MB-50931	SampType: MI	BLK	Tes	tCode: EP	PA Method	8015M/D: Die	sel Range	e Organics			
Client ID: PBS	Batch ID: 50			RunNo: 67			Ū	-			
Prep Date: 3/6/2020	Analysis Date: 3	/9/2020		SeqNo: 23		Units: %Rec	;				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003329** *10-Mar-20*

Client: ENSOLUM
Project: Masden GC 1E

Sample ID: MB-50931 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50931 RunNo: 67107

Prep Date: 3/6/2020 Analysis Date: 3/9/2020 SeqNo: 2312093 Units: %Rec

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

Surr: DNOP 9.1 10.00 91.5 55.1 146

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003329** 10-Mar-20

Client: ENSOLUM
Project: Masden GC 1E

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: A67115 RunNo: 67115

Prep Date: Analysis Date: 3/9/2020 SeqNo: 2311931 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 820 1000 81.6 66.6 105

Sample ID: 2.5ug gro Icsb SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A67115 RunNo: 67115

Prep Date: Analysis Date: 3/9/2020 SeqNo: 2311932 Units: mg/Kg

RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 25 5.0 25.00 O 98.8 80 120

Surr: BFB 1000 1000 101 66.6 105

Sample ID: 2003329-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: MS-1 Batch ID: A67115 RunNo: 67115

Prep Date: Analysis Date: 3/9/2020 SeqNo: 2311934 Units: mg/Kg

%REC Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 18 3.6 17.86 0 98.2 69.1 142 Surr: BFB 700 714.3 66.6 97.6 105

Sample ID: 2003329-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: MS-1 Batch ID: A67115 RunNo: 67115

Prep Date: Analysis Date: 3/9/2020 SeqNo: 2311935 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 18 17.86 101 69.1 142 2.41 3.6 20 Surr: BFB 680 714.3 95.8 66.6 105 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2003329

10-Mar-20

Client: ENSOLUM Project: Masden GC 1E

Client ID: LCSS

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **B67115** RunNo: 67115

Batch ID: **B67115**

Prep Date: Analysis Date: 3/9/2020 SeqNo: 2311958 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result PQL Qual Benzene ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.88 1.000 87.5 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

RunNo: 67115

Prep Date: Analysis Date: 3/9/2020 SeaNo: 2311959 Units: ma/Ka

op zato.	,a., c.c =	- u.o. o ,	0,2020	•	, oq. (o. <u>-</u> (o.mo. mg/	-9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	88.8	80	120				
Toluene	0.93	0.050	1.000	0	93.2	80	120				
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120				
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120				
Surr: 4-Bromofluorobenzene	0.92		1.000		91.5	80	120				

Sample ID: 2003329-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: MS-2 Batch ID: **B67115** RunNo: 67115

Prep Date:	Analysis D	Date: 3/	9/2020	S	SeqNo: 2:	311962	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.019	0.7740	0.01362	88.3	78.5	119			
Toluene	0.73	0.039	0.7740	0.01091	93.3	75.7	123			
Ethylbenzene	0.75	0.039	0.7740	0	96.8	74.3	126			
Xylenes, Total	2.3	0.077	2.322	0.03026	97.1	72.9	130			
Surr: 4-Bromofluorobenzene	0.72		0.7740		92.6	80	120			

Sample ID: 2003329-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: MS-2 Batch ID: **B67115** RunNo: 67115

Prep Date:	Analysis D	Date: 3/	9/2020	S	SeqNo: 2	311963	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.019	0.7740	0.01362	85.1	78.5	119	3.71	20	
Toluene	0.71	0.039	0.7740	0.01091	90.4	75.7	123	3.15	20	
Ethylbenzene	0.73	0.039	0.7740	0	94.1	74.3	126	2.79	20	
Xylenes, Total	2.2	0.077	2.322	0.03026	94.7	72.9	130	2.45	20	
Surr: 4-Bromofluorobenzene	0.71		0.7740		92.1	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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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

Sample Log-In Check List

CI	ient Name:	ENSOLUM	AZTEC	Work	Order Number	: 2003329		RcptNo:	1
Re	ceived By:	Erin Mele	ndrez	3/7/2020	9:30:00 AM		una	T	
Со	mpleted By:	Erin Mele	ndrez	3/7/2020	10:30:13 AM		UNA UNA		
Re	viewed By:	JR 3/6	1/20						
Ch	ain of Cus	tody							
1.	Is Chain of C	ustody suffic	iently complete	?		Yes 🗸	No 🗌	Not Present	
2.	How was the	sample deliv	rered?			Courier			
Lo	og In								
3.	Was an atten	npt made to o	cool the sampl	es?		Yes 🗸	No 🗌	NA 🗌	
4. \	Nere all sam	ples received	l at a temperat	ure of >0° C t	o 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5.	Sample(s) in	proper conta	iner(s)?			Yes 🗸	No 🗌		
6. 8	Sufficient sam	nple volume f	or indicated te	st(s)?		Yes 🗹	No 🗌		
7. 4	Are samples (except VOA	and ONG) pro	perly preserve	d?	Yes 🗸	No 🗌		
8. \	Vas preserva	tive added to	bottles?			Yes \square	No 🔽	NA 🗌	
9. F	Received at le	east 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes 🗌	No 🗌	NA 🗸	
10.	Were any sar	mple containe	ers received bi	oken?		Yes	No 🗹	# of preserved	
	Does paperwo Note discrepa		ttle labels? ain of custody)			Yes 🗸	No 🗌	bottles checked for pH: (<2 or	>12 unless noted)
12.	Are matrices	correctly iden	tified on Chair	of Custody?		Yes 🗸	No 🗌	Adjusted?	
13.1	s it clear wha	t analyses w	ere requested	?		Yes 🗸	No 🗌		- 11 1 - 2 1 - 2 1 - 2
	Vere all holdi If no, notify c	-	e to be met? authorization.)			Yes 🗹	No 🗆	Checked by:	NM S/ 1/20
Spe	cial Handl	ing (if app	olicable)						
15.	Was client no	otified of all d	iscrepancies v	vith this order?		Yes	No 🗌	NA 🗹	
	Person	Notified:		NAMES AND ADDRESS OF THE PARTY	Date:		The control of the State of the Control of State of the Control of State of State of the Control of State of St		
	By Who	om:			Via: [eMail] Phone [] Fax	☐ In Person	
	Regard	ing:	The state of the s	WANTED STATE OF THE STATE OF TH	CONTRACTOR DESIGNATION OF COURT OF COUR	CONTRACTOR STATES OF THE STATES		Committee of the Control of the Cont	
	Client I	nstructions:				2440		HOUSE, And an object of the second residence of the second	
16.	Additional re	marks:							
17.	Cooler Info	rmation							
	Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	4.0	Good						
	2	4.7	Good						

Receive			D: 11	/18/	2021	2:4	6:21 P	M														Po	age 180 of 21
	HALL ENVIRONMENTAL ANALYSTS LABODATODY	www.hallenvironmental.com	NE - Albuquerque, NM 87109		Anal		PO₄, S	' ^z O	, И, (А)	tals: 10 ₃ -VO	ة Me الر, م (AO) emi-	2CRA 8 21, F, E 3260 (V 3270 (S C V)	3	×	>	×	×	X				din	Date Time O930 NIN APE - N 20 669 1712U This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
			4901 Hawkins NE	Tel. 505-345-3975			O / MK	1) 182 1	\ O;	Sebi ebi	12D(etho	\ X∃TEX \ 08:H97 59	· ×	×	× ×	×	\times	×				Remarks:	Dossibility Any sub-contract
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

September 15, 2020

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

FAX:

RE: Masden Gas Com 1E OrderNo.: 2009560

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/10/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-4

Project: Masden Gas Com 1E **Collection Date:** 9/9/2020 8:50:00 AM

Lab ID: 2009560-001 **Matrix:** AQUEOUS **Received Date:** 9/10/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	9/13/2020 1:20:00 PM	SL71801
Toluene	ND	1.0	μg/L	1	9/13/2020 1:20:00 PM	SL71801
Ethylbenzene	ND	1.0	μg/L	1	9/13/2020 1:20:00 PM	SL71801
Xylenes, Total	ND	1.5	μg/L	1	9/13/2020 1:20:00 PM	SL71801
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	9/13/2020 1:20:00 PM	SL71801
Surr: Dibromofluoromethane	101	70-130	%Rec	1	9/13/2020 1:20:00 PM	SL71801
Surr: Toluene-d8	100	70-130	%Rec	1	9/13/2020 1:20:00 PM	SL71801

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-5

Project: Masden Gas Com 1E **Collection Date:** 9/9/2020 9:20:00 AM

Lab ID: 2009560-002 **Matrix:** AQUEOUS **Received Date:** 9/10/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	9/13/2020 2:31:00 PM	SL71801
Toluene	ND	1.0	μg/L	1	9/13/2020 2:31:00 PM	SL71801
Ethylbenzene	ND	1.0	μg/L	1	9/13/2020 2:31:00 PM	SL71801
Xylenes, Total	ND	1.5	μg/L	1	9/13/2020 2:31:00 PM	SL71801
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	9/13/2020 2:31:00 PM	SL71801
Surr: Dibromofluoromethane	102	70-130	%Rec	1	9/13/2020 2:31:00 PM	SL71801
Surr: Toluene-d8	102	70-130	%Rec	1	9/13/2020 2:31:00 PM	SL71801

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC

Project: Masden Gas Com 1E

Lab ID: 2009560-003

Collection Pater 0/0/200

Collection Date: 9/9/2020 9:50:00 AM

Matrix: AQUEOUS Received Date: 9/10/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	9/13/2020 2:55:00 PM	SL71801
Toluene	ND	1.0	μg/L	1	9/13/2020 2:55:00 PM	SL71801
Ethylbenzene	ND	1.0	μg/L	1	9/13/2020 2:55:00 PM	SL71801
Xylenes, Total	ND	1.5	μg/L	1	9/13/2020 2:55:00 PM	SL71801
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	9/13/2020 2:55:00 PM	SL71801
Surr: Dibromofluoromethane	101	70-130	%Rec	1	9/13/2020 2:55:00 PM	SL71801
Surr: Toluene-d8	98.4	70-130	%Rec	1	9/13/2020 2:55:00 PM	SL71801

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Date Reported: 9/15/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-1

Project: Masden Gas Com 1E **Collection Date:** 9/9/2020 10:20:00 AM

Lab ID: 2009560-004 Matrix: AQUEOUS Received Date: 9/10/2020 8:00:00 AM

Applyages Page 11 Page 12 Page 12 Page 12 Page 12 Page 12 Page 13 Page 13 Page 14 Pag

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM
Benzene	ND	1.0	μg/L	1	9/13/2020 3:43:00 PM	SL71801
Toluene	ND	1.0	μg/L	1	9/13/2020 3:43:00 PM	SL71801
Ethylbenzene	ND	1.0	μg/L	1	9/13/2020 3:43:00 PM	SL71801
Xylenes, Total	ND	1.5	μg/L	1	9/13/2020 3:43:00 PM	SL71801
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	9/13/2020 3:43:00 PM	SL71801
Surr: Dibromofluoromethane	102	70-130	%Rec	1	9/13/2020 3:43:00 PM	SL71801
Surr: Toluene-d8	94.2	70-130	%Rec	1	9/13/2020 3:43:00 PM	SL71801

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009560**

15-Sep-20

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: 100ng 8260 lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260: Volatile	s Short L	ist	
Client ID: LCSW	Batcl	n ID: SL	71801	F	RunNo: 7	1801				
Prep Date:	Analysis D	ate: 9/	13/2020	\$	SeqNo: 2	512602	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130			
Toluene	21	1.0	20.00	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.5	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			
Sample ID: mb	SampT	уре: МЕ	BLK	TestCode: EPA Method			8260: Volatile	es Short L	.ist	

		71								
Client ID: PBW	Batc	h ID: SL	71801	F	RunNo: 7	1801				
Prep Date:	Analysis D	Date: 9/	13/2020	5	SeqNo: 2	512605	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.7	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: 2009560-001ams	Samp1	ype: M \$	e: MS TestCode: EPA Method 8260: Volatiles Short List							
Client ID: MW-4	Batc	n ID: SL	71801	F	RunNo: 7	1801				
Prep Date:	Analysis D	Date: 9/	13/2020	SeqNo: 2512607			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID: 2009560-001amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8260: Volatile	s Short L	.ist	
Client ID: MW-4	Batch	Batch ID: SL71801 RunNo: 71801								
Prep Date:	Analysis D	ate: 9/	13/2020	SeqNo: 2512608 U			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130	5.26	20	
Toluene	22	1.0	20.00	0	109	70	130	3.52	20	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009560** *15-Sep-20*

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

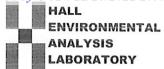
Sample ID: 2009560-001amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-4	Batch	Batch ID: SL71801 RunNo: 71801								
rep Date: Analysis Date: 9/13/2020 SeqNo: 2512608 Units: µg/L										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.0	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		99.8	70	130	0	0	
Surr: Toluene-d8	10		10.00		103	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: EN	SOLUM	Work Order Number	200956)	RcptNo:	1
Received By: Er	nily Mocho	9/10/2020 8:00:00 AM	Ţ			
Completed By: Er	nily Mocho	9/10/2020 8:50:42 AM	1			
Reviewed By:	Em 9/10/20					
Chain of Custod			_			
Is Chain of Custoo	40 TO 100		Yes 🗸	No 🗌	Not Present	
2. How was the sam	ple delivered?		Courier			
<u>Log In</u> 3. Was an attempt m	nade to cool the samples?		Yes 🗸	No 🗌	NA 🗆	
4. Were all samples	received at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in prop	er container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample v	volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (exce	pt VOA and ONG) proper	y preserved?	Yes 🗸	No 🗌		
8. Was preservative	added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at least 1	1 vial with headspace <1/4	" for AQ VOA?	Yes 🗸	No 🗌	NA 🗌	
10. Were any sample	containers received broke	n?	Yes	No 🗸	# of preserved	
11. Does paperwork m	natch bottle labels? es on chain of custody)		Yes 🗸	No 🗌	bottles checked for pH:	12 unless noted)
12. Are matrices corre	ctly identified on Chain of	Custody?	Yes 🗸	No 🗌	Adjusted?	2/
13. Is it clear what ana	lyses were requested?		Yes 🗸	No 🗌		9/10
Were all holding tir (If no, notify custor	mes able to be met? mer for authorization.)		Yes 🗸	No 🗌	Checked by	n 1119
Special Handling	(if applicable)					
	of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Noti	fied:	Date:		WHEN A THOUGHT AND A PRODUCTION OF		
By Whom:		Via:	eMail	Phone Fax	In Person	
Regarding:	Total Control Control of the Control C		*************		Control and American Control and Control a	
Client Instru	ctions:	THE RESERVE OF THE PERSON OF T			An exemple constitutes promined about the property	
16. Additional remark	s:					
17. Cooler Informati Cooler No T 1 1.1	emp °C Condition S		Seal Date	Signed By		

	hain	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:													
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email or Fax#:	r Fax#:			Project Manager:	ger:		()	(0				70		(tr				
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Date	Time	Matrix	Sample Name	#	Preservative Type	HEAL No.	/ XЭТ8	08:H9T	8081 P (N) BQ3	a sHA9	RCRA 1	Cl, F, E	S) 07S8	O lstoT	٩			-
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6-6	930	3	MW-S		Mgch	7	X		_									
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

January 20, 2021

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

FAX:

RE: Masden Gas Com 1E OrderNo.: 2101661

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/19/2021 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2101661**Date Reported: **1/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Lab Order: 2101661

Project: Masden Gas Com 1E

Lab ID: 2101661-001 **Collection Date:** 1/18/2021 9:05:00 AM

Client Sample ID: MW-5 Matrix: AQUEOUS

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 1/19/2021 12:11:15 PM W7469 μg/L 1 Toluene ND 1.0 μg/L 1/19/2021 12:11:15 PM W7469 ND Ethylbenzene 1.0 μg/L 1 1/19/2021 12:11:15 PM W7469! Xylenes, Total ND 2.0 1/19/2021 12:11:15 PM W7469! μg/L Surr: 4-Bromofluorobenzene 104 80-120 %Rec 1/19/2021 12:11:15 PM W7469

Lab ID: 2101661-002 **Collection Date:** 1/18/2021 9:50:00 AM

Client Sample ID: MW-4 Matrix: AQUEOUS

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 1/19/2021 1:22:09 PM W7469 1 Toluene ND 1.0 μg/L 1/19/2021 1:22:09 PM W7469 ND Ethylbenzene 1.0 1/19/2021 1:22:09 PM W7469 µg/L 1 Xylenes, Total ND 2.0 µg/L 1 1/19/2021 1:22:09 PM W7469 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 1/19/2021 1:22:09 PM W7469

Lab ID: 2101661-003 **Collection Date:** 1/18/2021 10:25:00 AM

Client Sample ID: MW-3 Matrix: AQUEOUS

RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 8021B: VOLATILES** Analyst: NSB 1/19/2021 1:45:42 PM Benzene ND 1.0 μg/L W7469 1 Toluene ND 1.0 μg/L 1/19/2021 1:45:42 PM W7469 Ethylbenzene ND 1.0 1/19/2021 1:45:42 PM W7469 μg/L 1 Xylenes, Total ND 1/19/2021 1:45:42 PM W7469 2.0 μg/L Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1/19/2021 1:45:42 PM W7469

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 3

Lab Order: 2101661

Lab Order:

Date Reported: 1/20/2021

2101661

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC

Project: Masden Gas Com 1E

Lab ID: 2101661-004 **Collection Date:** 1/18/2021 11:05:00 AM

Client Sample ID: MW-1 Matrix: AQUEOUS

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch ID	
EPA METHOD 8021B: VOLATILES					Ana	ılyst: NSB	-
Benzene	ND	1.0	μg/L	1	1/19/2021 2:09:18	PM W7469	!
Toluene	ND	1.0	μg/L	1	1/19/2021 2:09:18	PM W7469	!
Ethylbenzene	ND	1.0	μg/L	1	1/19/2021 2:09:18	PM W7469	!
Xylenes, Total	ND	2.0	μg/L	1	1/19/2021 2:09:18	PM W7469	!
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	1/19/2021 2:09:18	PM W7469	!

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#: **2101661**

20-Jan-21

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBW Batch ID: W74699 RunNo: 74699 Prep Date: Analysis Date: 1/19/2021 SeqNo: 2636876 Units: µg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 1.0 Toluene ND 1.0 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 20 20.00 102 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSW Batch ID: W74699 RunNo: 74699 Prep Date: Analysis Date: 1/19/2021 SeqNo: 2636877 Units: µg/L Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 20.00 97.4 19 1.0 n 80 120 Benzene Toluene 20 1.0 20.00 0 99.3 80 120 20 0 99.5 80 1.0 20.00 120 Ethylbenzene 59 0 98.7 Xylenes, Total 2.0 60.00 80 120 Surr: 4-Bromofluorobenzene 21 20.00 104 80 120

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID: 2101661-001ams Client ID: MW-5 Batch ID: W74699 RunNo: 74699 Prep Date: Analysis Date: 1/19/2021 SeqNo: 2636882 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 20.00 96.9 80 19 1.0 120 Benzene O Toluene 20 20.00 0 99.7 80 120 1.0 20 20.00 0 101 80 120 Ethylbenzene 1.0 Xylenes, Total 61 2.0 60.00 0 101 80 120 Surr: 4-Bromofluorobenzene 22 20.00 111 80 120

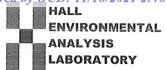
TestCode: EPA Method 8021B: Volatiles Sample ID: 2101661-001amsd SampType: MSD Client ID: MW-5 Batch ID: W74699 RunNo: 74699 Prep Date: Analysis Date: 1/19/2021 SeqNo: 2636883 Units: µg/L SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 19 1.0 20.00 0 95.2 80 120 1.71 20 Benzene Toluene 20 1.0 20.00 0 98.7 80 120 0.958 20 Ethylbenzene 20 1.0 20.00 0 100 80 120 1.04 20 Xylenes, Total 60 2.0 60.00 0 100 80 120 0.934 20 Surr: 4-Bromofluorobenzene 22 20.00 80 120 0 0 111

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM	Work Order Numb	er: 210	1661			RcptNo:	1
Received By:	Sean Livingston	1/19/2021 8:00:00 A	ΑM		S	_L	ryst	
Completed By:	Desiree Dominguez	1/19/2021 8:41:05 A	MA		T	~	ryst	
Reviewed By:	ENM	1/19/21						
Chain of Cus	tody							
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
<u>Log In</u>								
3. Was an attern	npt made to cool the samples	?	Yes	✓	No		NA 🗌	
4. Were all samp	ples received at a temperatur	e of >0° C to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes	V	No			
6. Sufficient sam	ple volume for indicated test	s)?	Yes	✓	No			
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes	✓	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA \square	
9. Received at le	ast 1 vial with headspace <1/	4" for AQ VOA?	Yes	✓	No		NA 🗆	
10. Were any san	nple containers received brok	en?	Yes		No	V	# of preserved	/
	ork match bottle labels? ancies on chain of custody)		Yes	✓	No		bottles checked for pH:	12 unless noted)
	correctly identified on Chain o	f Custody?	Yes	V	No	П	Adjusted?	12 uniess noted)
	t analyses were requested?	oustody:	Yes	V	No			
14. Were all holdir	ng times able to be met?		Yes	V	No		Checked by: DF	AD 01/19/21
	ing (if applicable)							
	tified of all discrepancies with	this order?	Yes		No		NA 🗸	
Person	Notified:	Date:	Total Section Section 2			morphosphile,		
By Who	om:	Via:	_ eM	ail [Phone	Fax	☐ In Person	
Regardi	- y							
16. Additional rer	nstructions:							
 Cooler Information Cooler No 	The second secon	Seal Intact Seal No	Seal D	ate	Signed I	Rv	1	
1	3.3 Good Ye		Seal D	ale	Signed	Бу		
							d.	

			D : 11	1/18/	/2 <mark>02</mark>	1 2:4	46:21	<i>PM</i> —													1	T	Pag	e 195	of 2
	MALL ENVIRONMENTAL ANALYSIS LABORATORY	MAN Pollonironmontol com	www.railettvii.com 4901 Hawkins NF - Albuquerque NM 87109		Analysis	()tu	SMIS	8270 <i>8</i> 9 (s	or 2 3, 1 1, 6	ood (etal NO ()	1beth 8 by 8 4 8 M Br, 1dOV)	EDB RCR, CI, F, 8260 8260												13:11 to Ensolut	Anverthe and the selection of the select
			94	? ⊢		_		TMB's PRO					~	×		/:_/	,		-	1	-	Remarks			vecihility
Turn-Around Time:	⊠ Standard □ Rush) 	Masdon Care Com # E		05A1276076	Project Manager:	L S. monarc	7 7			mp(including CF):	Container Preservative HEAL No. Type and # Type	3x400-100 Ho, Cla -001	35 Youther Halls -002	3x 40 mator Hack -003	3x You Libr Hall, -004	1 P.					Received by: Via: Date Time	muly alle 1/18/21	Received by: Via: Date Time	other accredited laboratories This serves as
Chain-of-Custody Record	Client: Engo Ivm, LLC		Mailing Address: 606 & Rio Grand Killet	0140		email or Fax#: (Summers a) erisolan , com	1 -	on:	□ NELAC □ Other	□ EDD (Type)		Date Time Matrix Sample Name	118th 905 W NW-S	118/20 950 W NW-4	118/201025 W NIW-3	12/20 1105 W NW-1						ate: Time: Relinquished by:	77		

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



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June 07, 2021

Kyle Summers
ENSOLUM AZTEC
606 S. Rio Grande Suite A

Aztec, NM 87410 TEL: (903) 821-5603

FAX:

RE: Masden Gas Com 1E OrderNo.: 2105B44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/27/2021 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **2105B44**

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-2 (r) @ 5-7'

 Project:
 Masden Gas Com 1E
 Collection Date: 5/24/2021 1:30:00 PM

 Lab ID:
 2105B44-001
 Matrix: SOIL
 Received Date: 5/27/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	6/1/2021 11:53:31 PM	60371
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/1/2021 6:49:11 PM	60330
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/1/2021 6:49:11 PM	60330
Surr: DNOP	108	70-130		%Rec	1	6/1/2021 6:49:11 PM	60330
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	33	4.8		mg/Kg	1	6/1/2021 12:44:13 PM	60329
Surr: BFB	177	70-130	S	%Rec	1	6/1/2021 12:44:13 PM	60329
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.058	0.024		mg/Kg	1	6/1/2021 12:44:13 PM	60329
Toluene	ND	0.048		mg/Kg	1	6/1/2021 12:44:13 PM	60329
Ethylbenzene	0.095	0.048		mg/Kg	1	6/1/2021 12:44:13 PM	60329
Xylenes, Total	0.35	0.096		mg/Kg	1	6/1/2021 12:44:13 PM	60329
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/1/2021 12:44:13 PM	60329

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Analytical ReportLab Order **2105B44**

Date Reported: 6/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-2 (r) @ 7-9'

 Project:
 Masden Gas Com 1E
 Collection Date: 5/24/2021 1:40:00 PM

 Lab ID:
 2105B44-002
 Matrix: SOIL
 Received Date: 5/27/2021 7:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 12:05:56 AM	60371
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 7:18:50 PM	60330
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/1/2021 7:18:50 PM	60330
Surr: DNOP	101	70-130	%Rec	1	6/1/2021 7:18:50 PM	60330
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2021 1:55:12 PM	60329
Surr: BFB	106	70-130	%Rec	1	6/1/2021 1:55:12 PM	60329
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	6/1/2021 1:55:12 PM	60329
Toluene	ND	0.050	mg/Kg	1	6/1/2021 1:55:12 PM	60329
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2021 1:55:12 PM	60329
Xylenes, Total	ND	0.10	mg/Kg	1	6/1/2021 1:55:12 PM	60329
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	6/1/2021 1:55:12 PM	60329

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

Hall Environmental Analysis Laboratory, Inc.

2105B44 07-Jun-21

WO#:

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: MB-60371 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60371 RunNo: 78785

Prep Date: 6/1/2021 Analysis Date: 6/1/2021 SeqNo: 2762695 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60371 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60371 RunNo: 78785

Prep Date: 6/1/2021 Analysis Date: 6/1/2021 SeqNo: 2762696 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B44**

07-Jun-21

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: LCS-60318 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762508 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 5.2 5.000 105 70 130

Sample ID: LCS-60319 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 60319 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762509 Units: %Rec

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

 Surr: DNOP
 5.4
 5.000
 109
 70
 130

Sample ID: MB-60318 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762510 Units: %Rec

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

Surr: DNOP 11 10.00 113 70 130

Sample ID: MB-60319 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60319 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SegNo: 2762511 Units: %Rec

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

 Surr: DNOP
 11
 10.00
 109
 70
 130

Sample ID: 2105B44-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: MW-2 (r) @ 5-7' Batch ID: 60330 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762857 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 40 49.60 15 99 81.6 184

Surr: DNOP 5.2 4.960 105 70 130

Sample ID: 2105B44-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: MW-2 (r) @ 5-7' Batch ID: 60330 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762858 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Diesel Range Organics (DRO) 37 9.1 45.45 0 82.4 15 184 7.76 23.9 Surr: DNOP 5.0 4.545 110 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

2105B44 07-Jun-21

WO#:

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: LCS-60330 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 60330 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762911 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 57
 10
 50.00
 0
 115
 68.9
 141

 Surr: DNOP
 5.9
 5.000
 118
 70
 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105B44

07-Jun-21

Client: ENSOLUM AZTEC Project: Masden Gas Com 1E

Sample ID: MB-60329 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 60329 RunNo: 78783

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762565 Units: mg/Kg

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

Gasoline Range Organics (GRO) 5.0

Surr: BFB 1000 1000 102 70 130

Sample ID: Ics-60329 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60329 RunNo: 78783

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762566 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 97.5 78.6 131 Surr: BFB

115

70

130

Sample ID: 2105b44-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: MW-2 (r) @ 5-7' Batch ID: 60329 RunNo: 78783

1100

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762568 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 190 4.8 23.83 33.00 678 61.3 114 S Surr: BFB S 953.3 4200 436 70 130

Sample ID: 2105b44-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: MW-2 (r) @ 5-7' Batch ID: 60329 RunNo: 78783

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762569 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 81 4.9 33.00 195 61.3 RS 24 41 114 82.8 20 Surr: BFB 2900 976.6 295 70 130 0 S 0

Sample ID: mb-60345 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PRS Batch ID: 60345 RunNo: 78783

Prep Date: 5/29/2021 Analysis Date: 6/1/2021 SeqNo: 2762589 Units: %Rec

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

Surr: BFB 1000 1000 70 100 130

Sample ID: Ics-60345 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60345 RunNo: 78783

Prep Date: 5/29/2021 Analysis Date: 6/1/2021 SeqNo: 2762590 Units: %Rec

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

Surr: BFB 1100 1000 113 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2105B44**

07-Jun-21

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Surr: 4-Bromofluorobenzene

Sample ID: MB-60329 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 60329 RunNo: 78783 Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762613 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

102

70

130

1.000

Sample ID: LCS-60329 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 60329 RunNo: 78783 Analysis Date: 6/1/2021 SeqNo: 2762614 Prep Date: 5/28/2021 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 1.0 0.025 n 101 80 120 Benzene Toluene 1.0 0.050 1.000 0 103 80 120 0 103 80 0.050 1.000 120 Ethylbenzene 1.0 0 103 Xylenes, Total 3.1 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 106 70 130

Sample ID: 2105b44-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: MW-2 (r) @ 7-9' Batch ID: 60329 RunNo: 78783 Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762617 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 86.4 0.82 0.024 0.9542 n 76.3 120 Benzene Toluene 0.84 0.9542 0.01688 86.2 78.5 120 0.048 87.2 78.1 Ethylbenzene 0.83 0.048 0.9542 0 124 Xylenes, Total 2.5 0.095 2.863 0 88.1 79.3 125 Surr: 4-Bromofluorobenzene 0.98 0.9542 102 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: 2105b44-002amsd SampType: MSD Client ID: MW-2 (r) @ 7-9' Batch ID: 60329 RunNo: 78783 Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762618 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.88 0.025 0.9891 0 88.5 76.3 120 5.96 20 Benzene Toluene 0.89 0.049 0.9891 0.01688 88.6 78.5 120 6.12 20 Ethylbenzene 0.89 0.049 0.9891 0 90.1 78.1 124 6.86 20 Xylenes, Total 2.7 0.099 2.967 0 91.4 79.3 125 7.26 20 Surr: 4-Bromofluorobenzene 0.9891 106 70 130 0 0 1.0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B44** *07-Jun-21*

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: mb-60345 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 60345 RunNo: 78783

Prep Date: 5/29/2021 Analysis Date: 6/1/2021 SeqNo: 2762632 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 99.6 70 130

Sample ID: LCS-60345 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 60345 RunNo: 78783

Prep Date: 5/29/2021 Analysis Date: 6/1/2021 SeqNo: 2762633 Units: %Rec

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

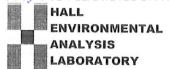
Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 13

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM	Work Order Numb	ber: 2105B44		RcptNo: 1	
Received By: Juan Rojas	5/27/2021 7:10:00 /	AM	Heaving		
Completed By: Desiree Dominguez	5/27/2021 8:12:08	AM	Juan Eng		
Reviewed By: SPA 5. 27	.71		11-2		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samp	oles?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a tempera	ature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated t	rest(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sample containers received I	oroken?	Yes	No 🗸	# of preserved	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody 12. Are matrices correctly identified on Cha		Yes 🗸	No 🗆	(<2 or >1 Adjusted?	12 unless noted)
13. Is it clear what analyses were requested	151	Yes 🗸	No 🗆	/	
14. Were all holding times able to be met? (If no, notify customer for authorization.		Yes 🗸	No 🗆	Checked by:	N 5/27/C
Special Handling (if applicable)	,				
15. Was client notified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:	West are processed to consider your analysis and your	STATE SARAMAN PROPERTY CONTRACTOR AND ADMINISTRA		
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:	CONTRACTOR DE LIBERTO DE COMPANSO PROPERTO DE PROPERTO	SATE OFFICE AND RESTREET OF THE SECOND		AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF	
Client Instructions:		REVICE OF THE WARE NOT RESPONSE UTILITIES CHANGE SEED	A CHARLEST AND A CHARLES HAVE	THE ADMINISTRAL AND THE PERSON OF LAW AND ADMINISTRAL PROPERTY.	
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 0.4 Good	Seal Intact Seal No Yes	Seal Date	Signed By		

Received by OCD: 11/18/2021	2:46:21 PM		Page 206 of 216
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	PH:8015D(GRO / DRO / MRO) 3081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS 3CRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 3250 (VOA) Cotal Coliform (Present/Absent) Cotal Coliform (Present/Absent)		Time: Relinquished by: Received by: Receiv
	31EX / MTBE / TMB's (8021)		qissod s
Turn-Around Time: Xa Standard □ Rush Project Name: Masclen Gas Com # 1E Project #: See ni ks	Sampler: The chille on lee: A yes Cooler Temp(including cr): 0,6-0.2=0.4(°C) Container Preservative HEAL No. Type and # Type		Received by: Via: Date Time Short of this serves as notice of this
Chain-of-Custody Record Client: Frishum, LLC Mailing Address: Colo S. Rio Coando Suite A Rate, NM 874110 Phone #:	Standard Compliance Compl	1330 S 1340 S 1	Time: Relinquished by: Resinquished by: Resinquished by: Research Re
Released to Imaging: 6/14/20	email or Fax# email or Fax# QA/QC Packag Accreditation: DELAC	\$\frac{22\pi 21}{22\pi 21}\$	7 7

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 22, 2021

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

FAX

RE: Masden Gas Com 1E OrderNo.: 2107747

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/15/2021 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2107747**

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-5

 Project:
 Masden Gas Com 1E
 Collection Date: 7/14/2021 9:30:00 AM

 Lab ID:
 2107747-001
 Matrix: AQUEOUS
 Received Date: 7/15/2021 7:40:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 7/16/2021 11:54:15 AM B79857 Toluene ND 1.0 μg/L 7/16/2021 11:54:15 AM B79857 1 Ethylbenzene ND 1.0 μg/L 7/16/2021 11:54:15 AM B79857 Xylenes, Total ND 2.0 μg/L 7/16/2021 11:54:15 AM B79857 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 7/16/2021 11:54:15 AM B79857

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Lab Order **2107747**

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-4

 Project:
 Masden Gas Com 1E
 Collection Date: 7/14/2021 10:30:00 AM

 Lab ID:
 2107747-002
 Matrix: AQUEOUS
 Received Date: 7/15/2021 7:40:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch** Analyst: NSB **EPA METHOD 8021B: VOLATILES** Benzene ND 1.0 μg/L 7/16/2021 12:17:59 PM B79857 Toluene ND 1.0 μg/L 7/16/2021 12:17:59 PM B79857 1 Ethylbenzene ND 1.0 μg/L 7/16/2021 12:17:59 PM B79857 Xylenes, Total ND 2.0 μg/L 7/16/2021 12:17:59 PM B79857 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 7/16/2021 12:17:59 PM B79857

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Lab Order **2107747**

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-3

 Project:
 Masden Gas Com 1E
 Collection Date: 7/14/2021 11:10:00 AM

 Lab ID:
 2107747-003
 Matrix: AQUEOUS
 Received Date: 7/15/2021 7:40:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	7/16/2021 12:41:40 PM	И B79857
Toluene	ND	1.0	μg/L	1	7/16/2021 12:41:40 PM	Л B79857
Ethylbenzene	ND	1.0	μg/L	1	7/16/2021 12:41:40 PM	Л B79857
Xylenes, Total	ND	2.0	μg/L	1	7/16/2021 12:41:40 PM	Л B79857
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/16/2021 12:41:40 PM	Л B79857

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Lab Order **2107747**

Date Reported: 7/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-1

 Project:
 Masden Gas Com 1E
 Collection Date: 7/14/2021 12:10:00 PM

 Lab ID:
 2107747-004
 Matrix: AQUEOUS
 Received Date: 7/15/2021 7:40:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 7/16/2021 1:05:23 PM B79857 Toluene ND 1.0 μg/L 7/16/2021 1:05:23 PM B79857 1 Ethylbenzene ND 1.0 μg/L 7/16/2021 1:05:23 PM B79857 Xylenes, Total ND 2.0 μg/L 7/16/2021 1:05:23 PM B79857 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 7/16/2021 1:05:23 PM B79857

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Lab Order 2107747

Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/22/2021

CLIENT: ENSOLUM AZTEC Client Sample ID: MW-2R

Project: Masden Gas Com 1E Collection Date: 7/14/2021 1:00:00 PM 2107747-005 Lab ID:

Matrix: AQUEOUS Received Date: 7/15/2021 7:40:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	μg/L	1	7/16/2021 1:29:04 PM	B79857
Toluene	ND	1.0	μg/L	1	7/16/2021 1:29:04 PM	B79857
Ethylbenzene	1.0	1.0	μg/L	1	7/16/2021 1:29:04 PM	B79857
Xylenes, Total	ND	2.0	μg/L	1	7/16/2021 1:29:04 PM	B79857
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	7/16/2021 1:29:04 PM	B79857

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107747**

22-Jul-21

Client: ENSOLUM AZTEC
Project: Masden Gas Com 1E

Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBW	Batch	1D: B7	9857	F	RunNo: 7	9857						
Prep Date:	Analysis D	ate: 7/	16/2021	S	SeqNo: 2	809917	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-Bromofluorobenzene 20 20					100	70	130					

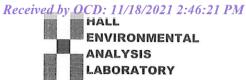
Sample ID: 100ng btex Ics	Sampl	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batcl	h ID: B7	9857	F	RunNo: 7 9	9857				
Prep Date:	Analysis D	Date: 7/	16/2021	\$	SeqNo: 2	809918	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.2	80	120			
Toluene	20	1.0	20.00	0	98.4	80	120			
Ethylbenzene	20	1.0	20.00	0	98.7	80	120			
Xylenes, Total	59	2.0	60.00	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	ENSOLUM	Work Order Numl	per: 210	7747			RcptNo: 1	
Received By:	Cheyenne Cason	7/15/2021 7:40:00 /	ΑM		Chenl			
Completed By:	Sean Livingston	7/15/2021 10:18:56	AM		<	/	not-	
Reviewed By:	JR7/15/21				٠,٠	<i>-</i> С,	730	
Chain of Custo	<u>ody</u>							
1. Is Chain of Cus	stody complete?		Yes	V	No		Not Present	
2. How was the s	ample delivered?		Cou	rier				
Log In								
	t made to cool the sam	ples?	Yes	V	No		NA 🗌	
4. Were all sample	es received at a temper	rature of >0° C to 6.0°C	Yes	v	No		NA 🗆	
5. Sample(s) in pr	roper container(s)?		Yes	V	No			
6. Sufficient samp	le volume for indicated	test(s)?	Yes	V	No			
	cept VOA and ONG) p		Yes	✓	No [
8. Was preservativ	ve added to bottles?		Yes		No	V	NA 🗆	
9. Received at least	st 1 vial with headspace	e <1/4" for AQ VOA?	Yes	✓	No [NA 🗌	
10. Were any samp	ole containers received	broken?	Yes		No	V		/
44.5							# of preserved bottles checked	
	c match bottle labels? cies on chain of custod	v)	Yes		No l		for pH: (<2 or >12 t	unless noted)
	rrectly identified on Cha		Yes	V	No [Adjusted?	,
13. Is it clear what a	analyses were requeste	d?	Yes	V	No [
	times able to be met?)	Yes	✓	No [Checked by: TMC	, 7.15.21
	ng (if applicable)	,						
	fied of all discrepancies	with this order?	Yes		No		NA 🗸	
Person N	otified:	Date:	proximation and	-	CONT. M. SECTION STREET, CO. CO.	opening.		
By Whom	1:	Via:	eMa	ail [Phone	Fax	In Person	
Regarding	g: [PROPERTY COMPANY			- un	THE GLOOM	
Client Ins	tructions:			Photo-reconstruction	THE STATE OF	HST-Unicered	HORSENSON CONTROL AND MATERIAL SHEET AND	
16. Additional rem	arks:							
17. <u>Cooler Inform</u> Cooler No	ation Temp °C Condition 2.1 Good	Seal Intact Seal No	Seal D	ate	Signed B	у		

Receiv	ed by	00	(D: 1)	1/18/	202	1 2:4	46:21 P	M							Т	Г	Т	Т	Г		Т	Т	Pag	ge 215 oj	£216
	ANAI VSTS I ABODATODY	AITALISTS EABORALORI	www.nallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109		Analysis	(tr	PO¢, S∂	λτ 827(ΝΟ ₂ ,	10 or tals 10 ₃ ,	y 83 3r, <i>N</i> (AO)	EDB (M PAHs b CI, F, E 8260 (V 8270 (S Total Co												Remarks: 5cal intect on 711612		If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
			901 F	Tel. 5		10			M3700103		8081 P.												(s:		Any sı
			4			_					\ X3T8 08:H9T				. /					_	_	_	Remarks: \mathcal{S}_{Cal}		ssibility.
	Manager Andrews		7 # M		0		,208) s	S C C		-0=21 (°C)	HEAL NO.	×)@	X 200	X 500	X FOO	X 500	a .			M			Date Time Re	Time	is. This serves as notice of this pos
Time:	□ Rush		der G	5	72626	ger:	L. Mario	· Danje		(including CF): 2. (Preservative Type	- Ka C.	Mach	- Hall	- Mach	100 J	0 6				-		Via:	Via:	credited laboratorie
Turn-Around Time:	⊠ Standard	Project Name:	Masd	Project #:	CSAL	Project Manager:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Sampler: On Ice:	# of Coolers: (Cooler Temp(including CF):	Container Type and #	3x foul lost	3×40mUDA	3x 4 an LVOF	3x4bullon	3×40mlts					٦		Received by:	Received by:	ontracted to other ac
Chain-of-Custody Record			S. Ristrande, Suite	STATE		innerse ensolan (an	el ⁷	☐ Az Compliance ☐ Other	S)		Sample Name	NW-S	MW-4	NW-3	1-37	MW-2R						8 3	ed by:	Mustra 11 notons	mitted to Hall Environmental may be subc
1-of-C	581W		200			Z		☐ Az Cor☐ Other☐			Matrix	3	3	3	3	5							Relinquished by	Relinquished by:	, samples sub
hain	M		Addres	1,7	¥: /	Fax#:	Package dard	tation:	(Type)		Time	9.30	10:30	11:10	17.10	13:00						-	Time:	Time:	necessan
Chain-o	Client:	Ima	Mailing	1/9: Azto	Phone	email or Fax#:	G ☐ Standard	Accreditation:	☐ EDD (Type)		Date	2/4h	JAM.	Ziykı	RAM	reply							Date:	Date: 7/4/2.1]=

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 62635

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	62635
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	GW benzene GW standard is now 5 ug/l. Continue with 1/4 ly sampling as per previous. If COC's return, re-initiate pumping and disposal as pre previous. In next report, examine change in benzene observed and suggestions/ideas thereof.	6/14/2022