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Houston, Texas 77042
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January 7, 2020

Mr. Mike Bratcher
Emergency Response Coordinator
NMOCD District 2
811 South First Street
Artesia, NM 88210

**Subject: Closure Report
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324**

Dear Mr. Bratcher:

Please consider this as the final report of a produced water release that occurred northeast on the intersection of US Highway 285 and County Road 271, approximately 2.1-miles south of Malaga, Eddy County New Mexico. The release occurred in Unit Letter C, Section 26, Township 24S, Range 28E (see Figure 1 for Location Map) at coordinates (32.195900, -104.061030). This report contains information related to the assessment, response activities and the subsequent cleanup.

BACKGROUND INFORMATION

The spill occurred on April 28, 2018 when a high density polyethylene (HDPE) pipeline carrying produced water failed and release approximately 1,000 barrels of produced water onto the surrounding undeveloped land/pasture. Vacuum truck(s) recovered approximately 700 barrels of produced water following the spill. The spill was reported to have traveled approximately 350 yards to the west, along the pipeline right of way and surrounding pasture.

RESPONSE AND REMEDIATE CHRONOLOGY

04/28/18	A failure in the HDPE pipeline released approximately 1,000 barrels of produced water to the pipeline right-of-way and surrounding pasture. Approximately 700 barrels of the released produced water were recovered at the time of the release.
05/29/18	Four soil borings, MBS2-A, MBS2-B, MBS2-C, and MBS2-D, were installed in the spill area to provide vertical delineation of contamination.
11/15/18	Surficial soil sampling was conducted. Twenty-eight (28) samples were collected at various locations across the spill area at depths of <0.5 feet below ground surface.
11/29-30/18	Additional soil sampling was conducted in areas of samples collected 05/29/18, near MBS2-A and MBS2-D, and on 11/15/18 near samples SS1 through SS-25.
12/05/18	Soil excavated to 4 feet in the vicinity of S19, S20, S21, S22 & S23.
12/09/18	Sixty-two (62) foot deep temporary monitoring well was installed at the site to determine current depth to groundwater.
12/10/18	Temporary well determined to be dry and will be abandoned.



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12/18/18	Six (6) confirmation samples collected from excavated areas in areas of samples S17, S18, S19, S20, S21, S22 & S23.
01/17/19	Confirmation samples collected after excavation of S-4, S-7, S-8, S-10, B2 (MBS2-C) and B3 MBS2-C) sample areas.
01/29/19	Excavation completed in all areas, except the three zones crossing the active subsurface pipeline.
02/01/19	Excavation initiated in areas of the subsurface pipeline, but greater than 5 feet from the pipeline location.
02/04/19	Confirmation samples collected after excavation of S1, S3, S5, S12, S15, S16, and B4 sample areas.
02/19/19	Pipe Support and Backfill Plan is prepared to provide structural support to the underground pipeline to ensure proper support during and after the excavation activities are conducted to remove chloride-contaminated soil surrounding the pipeline. Specification for the flowable fill mix to be used to below the pipeline to provide support are included in the Plan.
02/20-23/19	Confirmation samples collected after excavation of S12, S14, S25, and B1 (MBS2-A) sample areas.
02/26/19	Excavation around the pipeline was initiated using a Guzzler vacuum truck. A structural engineer provided oversight of the structural supports during the excavation and backfilling of the excavation with flowable fill.
04/05/19	All excavations were backfilled and hauling of soil to the landfill was completed. Surface of site was restored to pre-excavation conditions.

SAMPLING & ANALYSIS

Four soil borings installed on May 29, 2018 with thirty-seven (37) samples analyzed for chlorides using SM4500Cl-B, sixteen (16) samples were analyzed for benzene, toluene, ethylbenzene xylenes (BTEX) using EPA Method 8021B, and total petroleum hydrocarbons (TPH) using EPA Method 8015M.

Twenty-five (25) assessment soil samples and three (3) background soil samples were collected November 15, 2018 and analyzed for chlorides using EPA Method 300.0. Sample locations for the assessment samples are included as Figure 2.

On November 29-30, 2018, an additional 25 soil samples were collected in locations near samples SS-1 through SS-25, and borings MBS2-A and MBS2-D. The samples were analyzed for chlorides using EPA Method 300.0.

Following excavation, confirmation samples were collected on December 18, 2018, January 17, 2019, February 4, 2019, and February 20, 2019, and analyzed to chlorides using EPA Method 300.0, TPH using EPA Method 8015D, and VOCs using EPA Method 8260B. Tables of analytical results are attached. The extent of excavation and confirmation sample locations are included on Figure 3.

Confirmation sample results indicate that sample less than 4 feet below ground surface (bgs) in the spill area have a chloride concentration of less than 600 mg/kg, and samples 4 feet or greater bgs have a chlorides concentration of less than 10,000 mg/kg. Confirmation sample analyses for TPH and VOCs recorded concentrations less than the laboratory reporting limits for all samples. Laboratory reports detailing the laboratory sample results are attached.

Based on the analytical results, no additional remedial activities are proposed.



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REMEDIATION OF CONTAMINATION

Based on the laboratory results of samples collected in May and November 2018, excavation was initiated to remove soil exceeding a chlorides concentration of 600 mg/kg at a depth of less than 4 feet bgs, or a chlorides concentration greater than 10,000 mg/kg at depth of 4 feet or greater in the spill area. Due to the presence of a subsurface pipeline that crossed the spill area, a structural engineer was contracted to design a support system and specifications for backfill to ensure the stability of the pipeline during and after excavation activities. See the chronology for the dates of these activities.

WASTE CLASSIFICATION AND DISPOSAL

Waste was classified at non-regulated and non-hazardous waste. The excavated chlorides-impacted soil was transported to Lea Land, LLC Oil Field Waste Landfill in Carlsbad, New Mexico for disposal. Manifests are attached.



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Please confirm that nothing else is being required for this spill incident. If you should have any questions or would like to discuss anything related to this incident, please feel free to contact me at 713-343-4482 x210 or tim.craft@atcgs.com.

Sincerely,

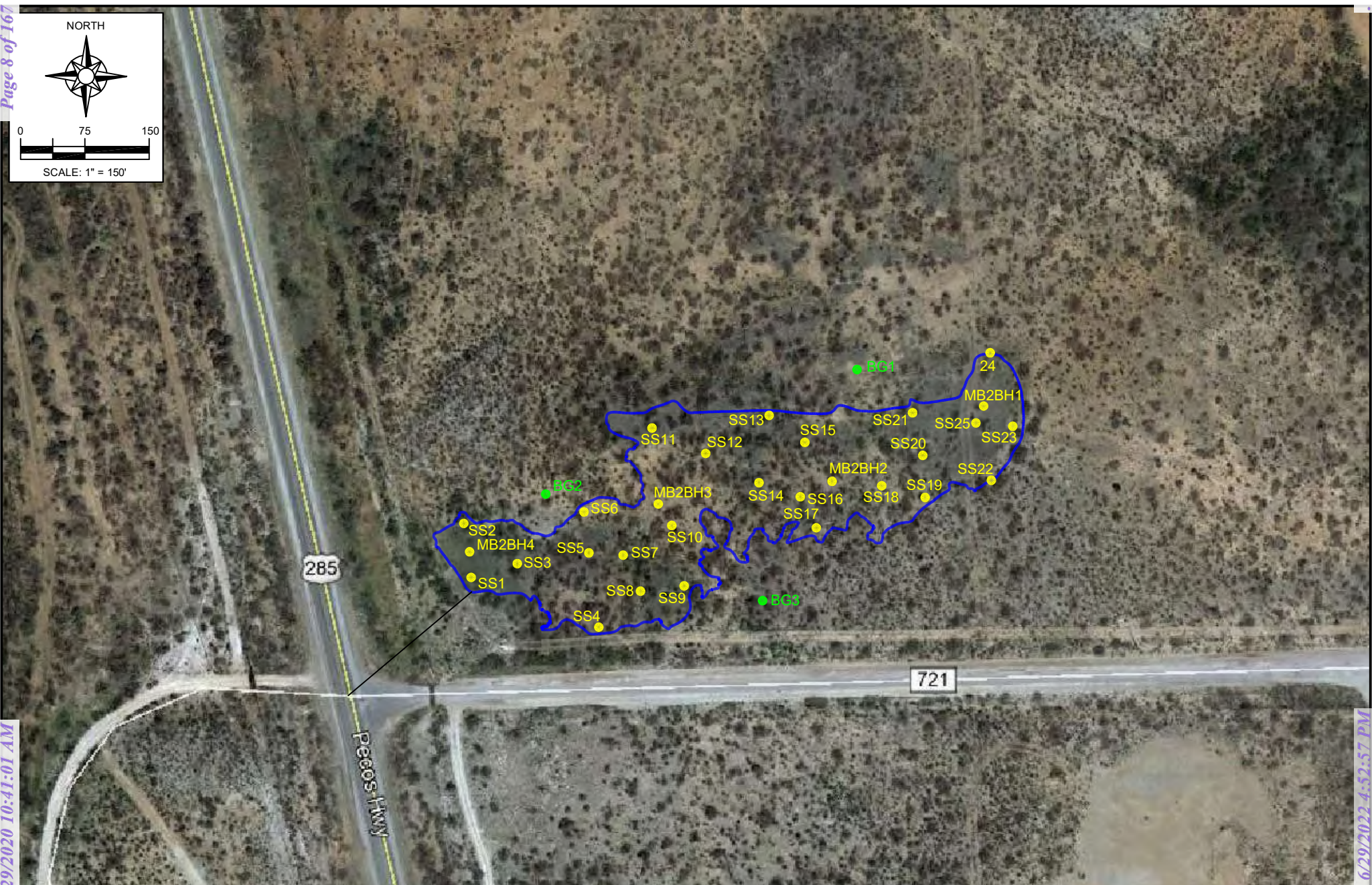
A handwritten signature in black ink that reads 'Timothy L. Craft'.

Timothy L. Craft, P.E.
Senior Project Manager
ATC Group Services LLC

ATTACHMENTS

FIGURES





Sample Location Map

Leubourne Oil Company
Reduced Water Line Release
EC of US Highway 285 & CR 721 (Pulley Rd)
Alamogordo, NM 88263

MOCD # Queen 2324

LEGEND

- = Pre-Excavation Sample Location
- = Background Sample Location
- = Approximate Spill Area

PROJECT NUMBER:
Z073HES001

FIGURE
2

CHECKED
BY:

SCALE:
SEE ABOVE

DRAWN BY: TC





Confirmation Sample Location Map

Leibow Oil Company
 Reduced Water Line Release
 EC of US Highway 285 & CR 721 (Pulley Rd)
 Alameda, NM 88263

MOCD # Queen 2324

LEGEND

- = Confirmation Sample Location
- = Excavated to 2 feet bgs
- = Excavated to 2 feet bgs
- = Excavated to 4 feet bgs
- = Excavated to 8 feet bgs

PROJECT NUMBER: Z073HES001	FIGURE 3	CHECKED BY:	SCALE: SEE ABOVE
			DRAWN BY: TC



TABLES

Table 1
Soil Sample Analyses - Chlorides
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	Chlorides
			mg/kg
MBS2-A-1	5/29/2018	1	17,000
MBS2-A-2	5/29/2018	2	9,800
MBS2-A-3	5/29/2018	3	11,000
MBS2-A-4	5/29/2018	4	9,800
B1-4	11/30/2018	4	6,900
B1-6	11/30/2018	6	17,000
MB-1-7	2/23/2019	7	1,600
MBS2-A-9	5/29/2018	9	672
B1-10	11/30/2018	10	210
MBS2-A-14	5/29/2018	14	592
MBS2-A-19	5/29/2018	19	64
MBS2-A-24	5/29/2018	24	96
MBS2-A-29	5/29/2018	29	128
MBS2-B-1	5/29/2018	1	12,000
MBS2-B-2	5/29/2018	2	12,400
MBS2-B-3	5/29/2018	3	13,200
MBS2-B-4	5/29/2018	4	8,600
MB-2-4	1/17/2019	4	1,900
MBS2-B-9	5/29/2018	9	6,400
MBS2-B-14	5/29/2018	14	2,760
MBS2-B-19	5/29/2018	19	112
MBS2-B-24	5/29/2018	24	640
MBS2-B-29	5/29/2018	29	128
MBS2-B-34	5/29/2018	34	160
MBS2-C-1	5/29/2018	1	10,400
MBS2-C-2	5/29/2018	2	8,660
MBS2-C-3	5/29/2018	3	6,320
MBS2-C-4	5/29/2018	4	7,860
MB-3-4	1/17/2019	4	1,100
MBS2-C-9	5/29/2018	9	4,560
MBS2-C-14	5/29/2018	14	1,300
MBS2-C-19	5/29/2018	19	176
MBS2-C-24	5/29/2018	24	80
MBS2-C-29	5/29/2018	29	384

Table 1
Soil Sample Analyses - Chlorides
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	Chlorides
			mg/kg
MBS2-D-1	5/29/2018	1	14,400
MBS2-D-2	5/29/2018	2	17,200
MBS2-D-3	5/29/2018	3	13,500
MBS2-D-4	5/29/2018	4	8,930
MB-4-4	2/4/2019	4	230
MBS2-D-9	5/29/2018	9	7,460
MBS2-D-14	5/29/2018	14	5,840
MBS2-D-19	5/29/2018	19	976
MBS2-D-24	5/29/2018	24	160
MBS2-D-29	5/29/2018	29	416
B4-4	11/30/2018	4	7,700
B4-6	11/30/2018	6	2,800
B4-15	11/30/2018	15	1,900
SS-1	11/15/2018	<0.5	1,400
SS-1	11/30/2018	<0.5	2,800
CS-1-4	2/4/2019	4	2,000
SS-2	11/15/2018	<0.5	43
SS-2-1	11/29/2018	1	19
SS-3	11/15/2018	<0.5	21
SS-3-1	11/29/2018	1	2,800
CS-3-2	2/4/2019	2	76
SS-4	11/15/2018	<0.5	6,100
SS-4	11/30/2018	<0.5	5,600
CS-4-4	1/17/2019	4	2,400
SS-5	11/15/2018	<0.5	2,000
SS-5	11/30/2018	<0.5	3,900
CS-5-4	2/4/2019	4	870
SS-6	11/15/2018	<0.5	10
SS-6-1	11/29/2018	1	49
SS-7	11/15/2018	<0.5	6,200
SS-7	11/30/2018	<0.5	5,800
CS-7-4	1/17/2019	4	980
SS-8	11/15/2018	<0.5	6,800
SS-8	11/30/2018	<0.5	34
CS-8-4	1/17/2019	4	110
SS-9	11/15/2018	<0.5	32
SS-9-1	11/29/2018	1	160
SS-10	11/15/2018	<0.5	3,400
SS-10	11/30/2018	<0.5	5,400
CS-10-4	1/17/2019	4	1,500

Table 1
Soil Sample Analyses - Chlorides
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	Chlorides
			mg/kg
SS-11	11/15/2018	<0.5	4
SS-11-1	11/29/2018	1	5
SS-12	11/15/2018	<0.5	10
SS-12-1	11/29/2018	1	17
CS-12-3	2/4/2019	3	5,200
CS-12-4	2/20/2019	4	2,300
SS-13	11/15/2018	<0.5	520
SS-13-1	11/29/2018	1	38
SS-14	11/15/2018	<0.5	3,300
SS-14	11/30/2018	<0.5	2,800
CS-14-4	2/22/2019	4	2,500
SS-15	11/15/2018	<0.5	50
SS-15-1	11/29/2018	1	1,100
CS-15-2	2/4/2019	2	58
SS-16	11/15/2018	<0.5	4,500
SS-16	11/30/2018	<0.5	5,600
CS-16-4	2/4/2019	4	4,100
SS-17	11/15/2018	<0.5	310
SS-17-1	11/29/2018	1	5,000
CS-17-3	12/18/2018	3	9
SS-18	11/15/2018	<0.5	3,300
SS-18	11/30/2018	<0.5	1,000
CS-18-4	12/18/2018	4	480
SS-19	11/15/2018	<0.5	35
SS-19-1	11/29/2018	1	11,000
CS-19-3	12/18/2018	3	490
SS-20	11/15/2018	<0.5	2,700
SS-20	11/30/2018	<0.5	6,100
CS-20-4	12/18/2018	4	480
SS-21	11/15/2018	<0.5	<2.0
SS-21-1	11/29/2018	1	17
SS-22	11/15/2018	<0.5	4,400
SS-22	11/30/2018	<0.5	7,400
CS-22-4	12/18/2018	4	6
SS-23	11/15/2018	<0.5	5,500
SS-23	11/30/2018	<0.5	8,600
CS-23-4	12/18/2018	4	2,500
SS-24	11/15/2018	<0.5	9
SS-24-1	11/29/2018	1	18

Table 1
Soil Sample Analyses - Chlorides
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	Chlorides
			mg/kg
SS-25	11/15/2018	<0.5	4,000
SS-25	11/30/2018	<0.5	2,600
CS-25-4	2/21/2019	4	2,400
Background Samples			
BG-1	11/15/2018	<0.5	160
BG-2	11/15/2018	<0.5	10
BG-3	11/15/2018	<0.5	44

*Cleanup Level for Chloride concentrations in soil above 4 feet: 600mg/kg

Cleanup Level for Chloride concentrations in soil 4 feet or deeper: 10,000 mg/kg

Shaded samples indicate soil that was later excavated and removed from site.

Table 2
Soil Sample Analyses - TPH
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	TPH - GRO*
			mg/kg
CS-17-3	12/18/2018	3	<5.0
CS-18-4	12/18/2018	4	<5.0
CS-19-3	12/18/2018	3	<5.0
CS-20-4	12/18/2018	4	<5.0
CS-22-4	12/18/2018	4	<5.0
CS-23-4	12/18/2018	4	<5.0
CS-10-4	1/17/2019	4	<5.0
CS-4-4	1/17/2019	4	<5.0
CS-7-4	1/17/2019	4	<5.0
CS-8-4	1/17/2019	4	<5.0
MB-2-4	1/17/2019	4	<5.0
MB-3-4	1/17/2019	4	<5.0
CS-12-3	2/4/2019	3	<5.0
CS-1-4	2/4/2019	4	<5.0
CS-15-2	2/4/2019	2	<5.0
CS-16-4	2/4/2019	4	<5.0
CS-3-2	2/4/2019	2	<5.0
CS-5-4	2/4/2019	4	<5.0
MB-4-4	2/4/2019	4	<5.0
CS-12-4	2/20/2019	4	<5.0
CS-14-4	2/20/2019	4	<5.0
CS-25-4	2/20/2019	4	<5.0
MB-1-7	2/20/2019	7	<5.0

*Gasoline Range Organics (GROs) are quantitated against a gasoline standard

Table 3
Soil Sample Analyses - TPH
Mewbourne Oil Company Produced Water Line Release
NEC of US Highway 285 & CR 721 (Pulley Rd)
Malaga, NM 88263
NMOCD # Queen 2324

Sample ID	Date	Depth (feet)	TPH		
			C10-22	>C22-32	Total
			mg/kg	mg/kg	mg/kg
CS-17-3	12/18/2018	3	-	-	-
CS-18-4	12/18/2018	4	-	-	-
CS-19-3	12/18/2018	3	-	-	-
CS-20-4	12/18/2018	4	-	-	-
CS-22-4	12/18/2018	4	-	-	-
CS-23-4	12/18/2018	4	-	-	-
CS-10-4	1/17/2019	4	<30	<100	<130
CS-4-4	1/17/2019	4	<30	<100	<130
CS-7-4	1/17/2019	4	<30	<100	<130
CS-8-4	1/17/2019	4	<30	<100	<130
MB-2-4	1/17/2019	4	<30	<100	<130
MB-3-4	1/17/2019	4	<30	<100	<130
CS-12-3	2/4/2019	3	<30	<100	<130
CS-1-4	2/4/2019	4	<30	<100	<130
CS-15-2	2/4/2019	2	<30	<100	<130
CS-16-4	2/4/2019	4	<30	<100	<130
CS-3-2	2/4/2019	2	<30	<100	<130
CS-5-4	2/4/2019	4	<30	<100	<130
CS-MB4-4	2/4/2019	4	<30	<100	<130
CS-12-4	2/20/2019	4	<30	<100	<130
CS-14-4	2/20/2019	4	<30	<100	<130
CS-25-4	2/20/2019	4	<30	<100	<130
CS-MB1-7	2/20/2019	7	<30	<100	<130

[illegible]

PHOTOGRAPHIC DOCUMENTATION

**Photographic Documentation
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324**



Photo 1: View of stockpiled soil awaiting transportation to landfill.



Photo 2: View of a portion of the excavated area.

**Photographic Documentation
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324**



Photo 3: View of excavation of impacted soil.



Photo 4: View of a portion of the excavated area.

Photographic Documentation
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324



Photo 5: View of a portion of the excavated area.



Photo 6: View of a portion of the excavated area.

**Photographic Documentation
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324**



Photo 7: View of the drilling of the temporary water well to 62 feet (dry).



Photo 8: View of a portion of the excavated area around the buried pipeline.

Photographic Documentation
Mewbourne Oil Company Produced Water Pipeline Spill
NEC of US Highway 285 & CR 271 (Pulley Road)
2.1 Miles South of Malaga (Eddy County), NM 88263
NMOCD ID: Queen 2324



Photo 9: View of the placement of flowable fill to support the pipeline prior to backfilling.



Photo 10: View during the placement of backfill above the buried pipeline.

LABORATORY REPORTS



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 12, 2018

JACE CARAWAY

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: MB

Enclosed are the results of analyses for samples received by the laboratory on 06/08/18 9:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - A - 1' (H801572-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTX	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	06/11/2018	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2018	ND	172	85.8	200	18.5	
DRO >C10-C28*	<10.0	10.0	06/08/2018	ND	172	85.9	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	06/08/2018	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - A - 2' (H801572-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	172	85.8	200	18.5	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	172	85.9	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - A - 3' (H801572-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - A - 4' (H801572-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEX	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - A - 9' (H801572-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - A - 14' (H801572-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - A - 19' (H801572-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - A - 24' (H801572-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - A - 29' (H801572-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/11/2018	ND	416	104	400	3.92		

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 1' (H801572-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEx	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 2' (H801572-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12400	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 3' (H801572-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEx	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 4' (H801572-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8600	16.0	06/11/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 9' (H801572-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - B - 14' (H801572-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	06/11/2018	ND	416	104	400	3.92	

Sample ID: MBS2 - B - 19' (H801572-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/11/2018	ND	416	104	400	3.92		

Sample ID: MBS2 - B - 24' (H801572-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	06/11/2018	ND	416	104	400	3.77	QM-07	

Sample ID: MBS2 - B - 29' (H801572-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/11/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RX-SOIL INC.
 JACE CARAWAY
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received: 06/08/2018
 Reported: 06/12/2018
 Project Name: MB
 Project Number: S #2
 Project Location: NONE GIVEN

Sampling Date: 05/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: MBS2 - B - 34' (H801572-19)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/11/2018	ND	416	104	400	3.77	

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - C - 1' (H801572-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - C - 2' (H801572-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEx	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - C - 3' (H801572-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEx	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.7 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - C - 4' (H801572-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEx	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - C - 9' (H801572-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - C - 14' (H801572-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - C - 19' (H801572-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - C - 24' (H801572-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - C - 29' (H801572-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/11/2018	ND	416	104	400	3.77		

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - D - 1' (H801572-29)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEX	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - D - 2' (H801572-30)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53	
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809	
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343	
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562	
Total BTEX	<0.300	0.300	06/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - D - 3' (H801572-31)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEX	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13500	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - D - 4' (H801572-32)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2018	ND	1.92	96.2	2.00	1.53		
Toluene*	<0.050	0.050	06/09/2018	ND	1.95	97.7	2.00	0.809		
Ethylbenzene*	<0.050	0.050	06/09/2018	ND	1.98	98.8	2.00	0.343		
Total Xylenes*	<0.150	0.150	06/09/2018	ND	5.79	96.6	6.00	0.562		
Total BTEx	<0.300	0.300	06/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	06/11/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2018	ND	205	102	200	3.07	
DRO >C10-C28*	<10.0	10.0	06/09/2018	ND	218	109	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/09/2018	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
JACE CARAWAY
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received: 06/08/2018
Reported: 06/12/2018
Project Name: MB
Project Number: S #2
Project Location: NONE GIVEN

Sampling Date: 05/29/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBS2 - D - 9' (H801572-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - D - 14' (H801572-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - D - 19' (H801572-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	06/11/2018	ND	416	104	400	3.77		

Sample ID: MBS2 - D - 24' (H801572-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/11/2018	ND	416	104	400	3.77	

Sample ID: MBS2 - D - 29' (H801572-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	06/11/2018	ND	400	100	400	3.92	QM-07	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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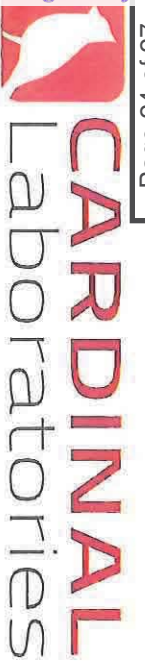
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A handwritten signature in blue ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: RXSOIL		BILL TO		ANALYSIS REQUEST									
Project Manager: JAE CARNEY		P.O. #:											
Address:		Company:											
City:		Attn:											
State:		Address:											
Zip:		City:											
Phone #: 406-200-2051		Fax #:											
Project #:		State:											
Project Owner:		Zip:											
Project Name: MB S#42		Phone #:											
Project Location:		Fax #:											
Sampler Name: JACOB MIDDLE		Matrix:											
FOR LAB USE ONLY		PRESERV:											
Lab I.D.		SAMPLING											
Sample I.D.		DATE		TIME									
H801572		05/24		0400									
1 MB32-A-1		X		X		CHLORIDES							
2 MB32-A-2		X		X		TPH (EXT)							
3 MB32-A-3		X		X		BTX							
4 MB32-A-4		X		X									
5 MB32-A-5		X		X									
6 MB32-A-6		X		X									
7 MB32-A-7		X		X									
8 MB32-A-8		X		X									
9 MB32-A-9		X		X									
10 MB32-A-10		X		X									
11 MB32-A-11		X		X									
12 MB32-A-12		X		X									
13 MB32-A-13		X		X									
14 MB32-A-14		X		X									
15 MB32-A-15		X		X									
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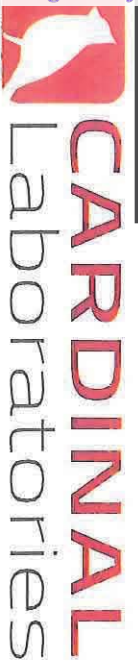


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: <u>RSOL</u>		P.O. #:	
Project Manager: <u>JACE CARMAY</u>		Company:	
Address:		Attn:	
City:	State:	Zip:	Address:
Phone #: <u>410-210-2051</u>	Fax #:	City:	State:
Project #:	Project Owner:	Phone #:	Zip:
Project Name: <u>MB S#22</u>	Project Location:	Fax #:	
Sampler Name: <u>JACOB MCKEE</u>			

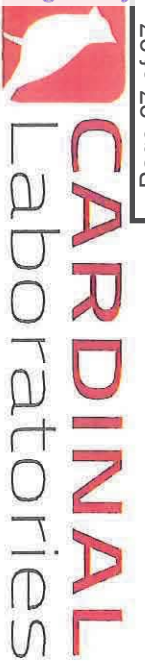
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H8D1572												
20	MB S2-C-1	X	4							05/14	0900	CHLORIDES
21	MB S2-C-2											TPH (EXT)
22	MB S2-C-3											BTEX
23	MB S2-C-4											
24	MB S2-C-5											
25	MB S2-C-14											
26	MB S2-C-14											
27	MB S2-C-24											
28	MB S2-C-24											

Relinquished By: <u>Q1</u>	Date: <u>6-8-18</u>	Received By: <u>JANARA DELAVALLE</u>	Date: <u>6-8-18</u>
Relinquished By: <u>Q1</u>	Date: <u>6-8-18</u>	Received By: <u>JANARA DELAVALLE</u>	Date: <u>6-8-18</u>
Delivered By: (Circle One) <u>3:82</u>	Time: <u>3:35</u>	Sample Condition	CHECKED BY: <u>50 #75</u>
Sampler - UPS - Bus - Other: <u>Corrected 275</u>		Cool ☒ Intact ☒	
		Yes ☒ No ☒	

REMARKS:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Fax Result: ☐ Yes ☐ No	Add'l Fax #:

3084

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: RXSOIL		BILL TO		ANALYSIS REQUEST															
Project Manager: THE CARNEY		P.O. #:																	
Address:		Company:																	
City:		Attn:																	
State:		Address:																	
Zip:		City:																	
Phone #: 406-200-2051		Fax #:																	
Project #:		State:																	
Project Owner:		Zip:																	
Project Name: MB S#42		Phone #:																	
Project Location:		Fax #:																	
Sampler Name: JACOB MIDDLE		PRESERV:																	
FOR LAB USE ONLY		SAMPLING																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		DATE		TIME		CHLORIDES		TPH (EXT)		BTX	
H8D1572		MB32-D-1		X		1		X		05/29		0400		X		X		X	
29		MB32-D-2		X		1		X		05/29		0400		X		X		X	
30		MB32-D-3		X		1		X		05/29		0400		X		X		X	
31		MB32-D-4		X		1		X		05/29		0400		X		X		X	
32		MB32-D-5		X		1		X		05/29		0400		X		X		X	
33		MB32-D-6		X		1		X		05/29		0400		X		X		X	
34		MB32-D-7		X		1		X		05/29		0400		X		X		X	
35		MB32-D-8		X		1		X		05/29		0400		X		X		X	
36		MB32-D-9		X		1		X		05/29		0400		X		X		X	
37		MB32-D-10		X		1		X		05/29		0400		X		X		X	
38		MB32-D-11		X		1		X		05/29		0400		X		X		X	
39		MB32-D-12		X		1		X		05/29		0400		X		X		X	
40		MB32-D-13		X		1		X		05/29		0400		X		X		X	
41		MB32-D-14		X		1		X		05/29		0400		X		X		X	
42		MB32-D-15		X		1		X		05/29		0400		X		X		X	
43		MB32-D-16		X		1		X		05/29		0400		X		X		X	
44		MB32-D-17		X		1		X		05/29		0400		X		X		X	
45		MB32-D-18		X		1		X		05/29		0400		X		X		X	
46		MB32-D-19		X		1		X		05/29		0400		X		X		X	
47		MB32-D-20		X		1		X		05/29		0400		X		X		X	
48		MB32-D-21		X		1		X		05/29		0400		X		X		X	
49		MB32-D-22		X		1		X		05/29		0400		X		X		X	
50		MB32-D-23		X		1		X		05/29		0400		X		X		X	
51		MB32-D-24		X		1		X		05/29		0400		X		X		X	
52		MB32-D-25		X		1		X		05/29		0400		X		X		X	
53		MB32-D-26		X		1		X		05/29		0400		X		X		X	
54		MB32-D-27		X		1		X		05/29		0400		X		X		X	
55		MB32-D-28		X		1		X		05/29		0400		X		X		X	
56		MB32-D-29		X		1		X		05/29		0400		X		X		X	
57		MB32-D-30		X		1		X		05/29		0400		X		X		X	
58		MB32-D-31		X		1		X		05/29		0400		X		X		X	
59		MB32-D-32		X		1		X		05/29		0400		X		X		X	
60		MB32-D-33		X		1		X		05/29		0400		X		X		X	
61		MB32-D-34		X		1		X		05/29		0400		X		X		X	
62		MB32-D-35		X		1		X		05/29		0400		X		X		X	
63		MB32-D-36		X		1		X		05/29		0400		X		X		X	
64		MB32-D-37		X		1		X		05/29		0400		X		X		X	
65		MB32-D-38		X		1		X		05/29		0400		X		X		X	
66		MB32-D-39		X		1		X		05/29		0400		X		X		X	
67		MB32-D-40		X		1		X		05/29		0400		X		X		X	
68		MB32-D-41		X		1		X		05/29		0400		X		X		X	
69		MB32-D-42		X		1		X		05/29		0400		X		X		X	
70		MB32-D-43		X		1		X		05/29		0400		X		X		X	
71		MB32-D-44		X		1		X		05/29		0400		X		X		X	
72		MB32-D-45		X		1		X		05/29		0400		X		X		X	
73		MB32-D-46		X		1		X		05/29		0400		X		X		X	
74		MB32-D-47		X		1		X		05/29		0400		X		X		X	
75		MB32-D-48		X		1		X		05/29		0400		X		X		X	
76		MB32-D-49		X		1		X		05/29		0400		X		X		X	
77		MB32-D-50		X		1		X		05/29		0400		X		X		X	
78		MB32-D-51		X		1		X		05/29		0400		X		X		X	
79		MB32-D-52		X		1		X		05/29		0400		X		X		X	
80		MB32-D-53		X		1		X		05/29		0400		X		X		X	
81		MB32-D-54		X		1		X		05/29		0400		X		X		X	
82		MB32-D-55		X		1		X		05/29		0400		X		X		X	
83		MB32-D-56		X		1		X		05/29		0400		X		X		X	
84		MB32-D-57		X		1		X		05/29		0400		X		X		X	
85		MB32-D-58		X		1		X		05/29		0400		X		X		X	
86		MB32-D-59		X		1		X		05/29		0400		X		X		X	
87		MB32-D-60		X		1		X		05/29		0400		X		X		X	
88		MB32-D-61		X		1		X		05/29		0400		X		X		X	
89		MB32-D-62		X		1		X		05/29		0400		X		X		X	
90		MB32-D-63		X		1		X		05/29		0400		X		X		X	
91		MB32-D-64		X		1		X		05/29		0400		X		X		X	
92		MB32-D-65		X		1		X		05/29		0400		X		X		X	
93		MB32-D-66		X		1		X		05/29		0400		X		X		X	
94		MB32-D-67		X		1		X		05/29		0400		X		X		X	
95		MB32-D-68		X		1		X		05/29		0400		X		X		X	
96		MB32-D-69		X		1		X		05/29		0400		X		X		X	
97		MB32-D-70		X		1		X		05/29		0400		X		X		X	
98		MB32-D-71		X		1		X		05/29		0400		X		X		X	
99		MB32-D-72		X		1		X		05/29		0400		X		X		X	
100		MB32-D-73		X		1		X		05/29		0400		X		X		X	
101		MB32-D-74		X		1		X		05/29		0400		X		X		X	
102		MB32-D-75		X		1		X		05/29		0400		X		X		X	
103		MB32-D-76		X		1		X		05/29		0400		X		X		X	
104		MB32-D-77		X		1		X		05/29		0400		X		X		X	
105		MB32-D-78		X		1		X		05/29		0400		X		X		X	
106		MB32-D-79		X		1		X		05/29		0400		X		X		X	
107		MB32-D-80		X		1		X		05/29		0400		X		X		X	
108		MB32-D-81		X		1		X		05/29		0400		X		X		X	
109		MB32-D-82		X		1		X		05/29		0400		X		X		X	
110		MB32-D-83		X		1		X		05/29		0400		X		X		X	
111		MB32-D-84		X		1		X		05/29		0400		X		X		X	
112		MB32-D-85		X		1		X		05/29		0400		X		X		X	
113		MB32-D-86		X		1		X		05/29		0400		X		X		X	
114		MB32-D-87		X		1		X		05/29		0400		X		X		X	
115		MB32-D-88		X		1		X		05/29		0400		X		X		X	
116		MB32-D-89		X		1		X		05/29		0400		X		X		X	
117		MB32-D-90		X		1		X		05/29		0400		X		X		X	
118		MB32-D-91		X		1		X		05/29		0400		X		X		X	
119		MB32-D-92		X		1		X		05/29		0400		X		X		X	
120		MB32-D-93		X		1		X		05/29		0400		X		X		X	
121		MB32-D-94		X		1		X		05/29		0400		X		X			



Orange Coast Analytical, Inc.

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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11591

Project Name: 2991

Project Number: 2991

Date Received: 11/16/2018

Date Reported: 11/20/2018

Chain of Custody Received: ☒

Analytical Method: 300.0,


Mark Noorani, Laboratory Director

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Mr. John Kennedy
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11591
Project Name: 2991
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. John Kennedy
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Lab Reference #: ENT AZ11591
Project Name: 2991
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
SS-1	AZ11591-001	11/16/2018	11/15/2018	Soil
SS-2	AZ11591-002	11/16/2018	11/15/2018	Soil
SS-3	AZ11591-003	11/16/2018	11/15/2018	Soil
SS-4	AZ11591-004	11/16/2018	11/15/2018	Soil
SS-5	AZ11591-005	11/16/2018	11/15/2018	Soil
SS-6	AZ11591-006	11/16/2018	11/15/2018	Soil
SS-7	AZ11591-007	11/16/2018	11/15/2018	Soil
SS-8	AZ11591-008	11/16/2018	11/15/2018	Soil
SS-9	AZ11591-009	11/16/2018	11/15/2018	Soil
SS-10	AZ11591-010	11/16/2018	11/15/2018	Soil
SS-11	AZ11591-011	11/16/2018	11/15/2018	Soil
SS-12	AZ11591-012	11/16/2018	11/15/2018	Soil
SS-13	AZ11591-013	11/16/2018	11/15/2018	Soil
SS-14	AZ11591-014	11/16/2018	11/15/2018	Soil
SS-15	AZ11591-015	11/16/2018	11/15/2018	Soil
SS-16	AZ11591-016	11/16/2018	11/15/2018	Soil
SS-17	AZ11591-017	11/16/2018	11/15/2018	Soil
SS-18	AZ11591-018	11/16/2018	11/15/2018	Soil
SS-19	AZ11591-019	11/16/2018	11/15/2018	Soil
SS-20	AZ11591-020	11/16/2018	11/15/2018	Soil
SS-21	AZ11591-021	11/16/2018	11/15/2018	Soil
SS-22	AZ11591-022	11/16/2018	11/15/2018	Soil
SS-23	AZ11591-023	11/16/2018	11/15/2018	Soil
SS-24	AZ11591-024	11/16/2018	11/15/2018	Soil
SS-25	AZ11591-025	11/16/2018	11/15/2018	Soil
BG-1	AZ11591-026	11/16/2018	11/15/2018	Soil
BG-2	AZ11591-027	11/16/2018	11/15/2018	Soil
BG-3	AZ11591-028	11/16/2018	11/15/2018	Soil

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Lab Reference #: ENT AZ11591
Project Name: 2991
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Inorganics

Client Sample ID			Lab Sample Number	Date Received	Date Sampled		Matrix		
SS-1			AZ11591-001	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	1400	mg/kg	11/19/18	11/19/18	D2,	20
SS-2			AZ11591-002	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	43	mg/kg	11/19/18	11/19/18	D1,	20
SS-3			AZ11591-003	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	21	mg/kg	11/19/18	11/19/18	--	1
SS-4			AZ11591-004	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	6100	mg/kg	11/19/18	11/19/18	D2,	100
SS-5			AZ11591-005	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	2000	mg/kg	11/19/18	11/19/18	D2,	20
SS-6			AZ11591-006	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	9.8	mg/kg	11/19/18	11/19/18	--	1

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Lab Reference #: ENT AZ11591
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Inorganics

Client Sample ID			Lab Sample Number	Date Received	Date Sampled		Matrix		
SS-7			AZ11591-007	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	6200	mg/kg	11/19/18	11/19/18	D2,	100
SS-8			AZ11591-008	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	6800	mg/kg	11/19/18	11/19/18	D2,	100
SS-9			AZ11591-009	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	32	mg/kg	11/19/18	11/19/18	D1,	10
SS-10			AZ11591-010	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	3400	mg/kg	11/19/18	11/19/18	D2,	100
SS-11			AZ11591-011	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	3.5	mg/kg	11/19/18	11/19/18	--	1
SS-12			AZ11591-012	11/16/2018	11/15/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	9.7	mg/kg	11/19/18	11/19/18		1

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Lab Reference #: ENT AZ11591
Project Name: 2991
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Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
SS-13	AZ11591-013	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	520	mg/kg	11/19/18	11/19/18	D2,	10	
SS-14	AZ11591-014	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	3300	mg/kg	11/19/18	11/19/18	D2,	100	
SS-15	AZ11591-015	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	50	mg/kg	11/19/18	11/19/18	D1,	10	
SS-16	AZ11591-016	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	4500	mg/kg	11/19/18	11/19/18	D2,	100	
SS-17	AZ11591-017	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	310	mg/kg	11/19/18	11/19/18	D2,	10	
SS-18	AZ11591-018	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	3300	mg/kg	11/19/18	11/19/18	D2,	100	

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Lab Reference #: ENT AZ11591
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Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix	
SS-19		AZ11591-019	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	35	mg/kg	11/19/18	11/19/18	D1,	10
SS-20		AZ11591-020	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	2700	mg/kg	11/19/18	11/19/18	D2,	100
SS-21		AZ11591-021	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	<2.0	mg/kg	11/19/18	11/19/18	D1,	2
SS-22		AZ11591-022	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	4400	mg/kg	11/19/18	11/19/18	D2,	100
SS-23		AZ11591-023	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	5500	mg/kg	11/19/18	11/19/18	D2,	100
SS-24		AZ11591-024	11/16/2018	11/15/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	9.3	mg/kg	11/19/18	11/19/18	D1,	2

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Lab Reference #: ENT AZ11591
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Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
SS-25	AZ11591-025	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	4000	mg/kg	11/19/18	11/19/18	D2,	100	
BG-1	AZ11591-026	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	160	mg/kg	11/19/18	11/19/18	D2,	100	
BG-2	AZ11591-027	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	9.7	mg/kg	11/19/18	11/19/18	D1,	2	
BG-3	AZ11591-028	11/16/2018	11/15/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	44	mg/kg	11/19/18	11/19/18	D1,	2	
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBBV1119181	Chloride	300.0	<1.0	mg/kg	11/19/18	11/19/18	--	1
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBBV1119182	Chloride	300.0	<1.0	mg/kg	11/19/18	11/19/18	--	1

**QA/QC Report
for Inorganics**

Reference #: ENT AZ11591

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	11/19/2018	11/20/2018	11/20/2018	AZ11591-020	2700	10000	13400	13500	107	108	1	80-120	20	--
Chloride	11/19/2018	11/20/2018	11/20/2018	AZ11591-012	9.70	100	105	105	95	95	0	80-120	20	--
Chloride	11/19/2018	11/19/2018	11/19/2018	AZ11591-005	2000	5000	6790	6800	96	96	0	80-120	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	11/19/2018	11/19/2018	11/19/2018	BV1119182	50.0	47.6	47.4	95	95	0	90-110	20	--
Chloride	11/19/2018	11/19/2018	11/19/2018	BV1119182	50.0	47.6	47.4	95	95	0	90-110	20	--
Chloride	11/19/2018	11/19/2018	11/19/2018	BV1119181	50.0	45.5	45.4	91	91	0	90-110	20	--

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record



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Lab Job No: AZ11591
Page 1 of 2REQUIRED TURN AROUND TIME: Standard: _____
72 Hours: _____ 48 Hours: X 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION					ANALYSIS REQUEST / PRESERVATIVE										REMARKS/PRECAUTIONS		
COMPANY:	<u>ENTECH</u>	PROJECT NAME:	<u>2991</u>				ANALYSIS REQUEST / PRESERVATIVE <u>300.0 CHLORIDE</u>												
SEND REPORT TO:	<u>JOHN KENNEDY</u>	NUMBER:	<u>2991</u>																
EMAIL:	<u>labs@entech-us.com</u>	ADDRESS:	<u>NM285 & PULLEY RD</u>																
ADDRESS:	<u>2541 E. UNIVERSITY DR</u>		<u>MALAGA, NM</u>																
	<u>PHOENIX, AZ 85034</u>	P.O. #:	<u>2231</u>																
PHONE:	<u>602-267-1900</u>	FAX:	<u>602-267-1973</u>	SAMPLED BY:	<u>BOB VITAL</u>														
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE														
SS-1	1	11/15/18	0925	SS	JAR	X												-001	
SS-2	↓	↓	0935	↓	↓	X												-002	
SS-3	↓	↓	0941	↓	↓	X												-003	
SS-4	↓	↓	0953	↓	↓	X												-004	
SS-5	↓	↓	1003	↓	↓	X												-005	
SS-6	↓	↓	1013	↓	↓	X												-006	
SS-7	↓	↓	1022	↓	↓	X												-007	
SS-8	↓	↓	1030	↓	↓	X												-008	
SS-9	↓	↓	1043	↓	↓	X												-009	
SS-10	↓	↓	1051	↓	↓	X												-010	
SS-11	↓	↓	1100	↓	↓	X												-011	
SS-12	↓	↓	1107	↓	↓	X												-012	
SS-13	↓	↓	1116	↓	↓	X												-013	
SS-14	↓	↓	1126	↓	↓	X												-014	
Total No. of Samples:		Method of Shipment:		Preservative:		1 = Ice 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other													
Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Matrix:															
<u>BL Vital</u>	<u>11/16/18 @ 1415</u>	<u>OCA AZ</u> <u>Jana Jowell</u>	<u>11/16/18 1415</u>	WW - Wastewater															
Relinquished By:	Date/Time:	Received By:	Date/Time:	DW - Drinking Water															
				SS - Soil/Solid															
				GW - Groundwater															
				OT - Other															
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	Sample Integrity:															
				Intact _____ On Ice <u>Y</u> <u>1.8</u> °C															

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

Analysis Request and Chain of Custody Record



ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

3002 Dow, Suite 532

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4620 E. Elwood, Suite 4

Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

Lab Job No: AZ11591
Page 2 of 2REQUIRED TURN AROUND TIME: Standard: _____
72 Hours: _____ 48 Hours: X 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION					ANALYSIS REQUEST / PRESERVATIVE										REMARKS/PRECAUTIONS
COMPANY: <u>ENTECH</u>	PROJECT NAME: <u>2991</u>																
SEND REPORT TO: <u>JOHN KENNEDY</u>	NUMBER: <u>2991</u>																
EMAIL: <u>labs@entech-us.com</u>	ADDRESS: <u>NM285 & ROLLEY RD</u>																
ADDRESS: <u>2541 E. UNIVERSITY DR</u>	<u>MALAGA, NM</u>																
PHONE: <u>602-267-1900</u> FAX: <u>602-267-1973</u>	P.O. #: <u>2231</u>																
SAMPLED BY: <u>BOB VITTAL</u>																	
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE												
<u>SS-15</u>	<u>1</u>	<u>11/15/18</u>	<u>1140</u>	<u>SS</u>	<u>JAR</u>	<u>X</u>											<u>-015</u>
<u>SS-16</u>	<u>1</u>	<u>1149</u>	<u>1149</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-016</u>
<u>SS-17</u>	<u>1</u>	<u>1200</u>	<u>1200</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-017</u>
<u>SS-18</u>	<u>1</u>	<u>1208</u>	<u>1208</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-018</u>
<u>SS-19</u>	<u>1</u>	<u>1217</u>	<u>1217</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-019</u>
<u>SS-20</u>	<u>1</u>	<u>1225</u>	<u>1225</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-020</u>
<u>SS-21</u>	<u>1</u>	<u>1233</u>	<u>1233</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-021</u>
<u>SS-22</u>	<u>1</u>	<u>1249</u>	<u>1249</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-022</u>
<u>SS-23</u>	<u>1</u>	<u>1257</u>	<u>1257</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-023</u>
<u>SS-24</u>	<u>1</u>	<u>1306</u>	<u>1306</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-024</u>
<u>SS-25</u>	<u>1</u>	<u>1316</u>	<u>1316</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-025</u>
<u>BG-1</u>	<u>1</u>	<u>1326</u>	<u>1326</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-026</u>
<u>BG-2</u>	<u>1</u>	<u>1340</u>	<u>1340</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-027</u>
<u>BG-3</u>	<u>1</u>	<u>1350</u>	<u>1350</u>	<u>1</u>	<u>1</u>	<u>X</u>											<u>-028</u>
Total No. of Samples:		Method of Shipment:		Preservative: 1 = Ice 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other													
Relinquished By: <u>Bob Vittal</u>	Date/Time: <u>11/16/18 @ 1415</u>	Received By: <u>OCA AZ</u>	Date/Time: <u>11/16/18 1415</u>	Sample Matrix:													
Relinquished By:	Date/Time:	Received By:	Date/Time:	DW - Drinking Water		WW - Wastewater											
Relinquished By:	Date/Time:	Received By:	Date/Time:	GW - Groundwater		SS - Soil/Solid											
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	Sample Integrity:													
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	Intact _____ On Ice <u>Y</u> <u>1.8</u> °C													

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Orange Coast Analytical, Inc.

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11614

Project Name: Brine Spill New Mexico

Project Number: 2991

Date Received: 12/3/2018

Date Reported: 12/5/2018

Chain of Custody Received: ☒

Analytical Method: 300.0,


Mark Noorani, Laboratory Director

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EnTech
2541 E. University Dr
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Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 6°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. John Kennedy
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
SS-2-1	AZ11614-001	12/3/2018	11/29/2018	Soil
SS-3-1	AZ11614-002	12/3/2018	11/29/2018	Soil
SS-6-1	AZ11614-003	12/3/2018	11/29/2018	Soil
SS-9-1	AZ11614-004	12/3/2018	11/29/2018	Soil
SS-13-1	AZ11614-005	12/3/2018	11/29/2018	Soil
SS-11-1	AZ11614-006	12/3/2018	11/29/2018	Soil
SS-15-1	AZ11614-007	12/3/2018	11/29/2018	Soil
SS-17-1	AZ11614-008	12/3/2018	11/29/2018	Soil
SS-19-1	AZ11614-009	12/3/2018	11/29/2018	Soil
SS-21-1	AZ11614-010	12/3/2018	11/29/2018	Soil
SS-24-1	AZ11614-011	12/3/2018	11/29/2018	Soil
SS-12-1	AZ11614-012	12/3/2018	11/29/2018	Soil
SS-1	AZ11614-013	12/3/2018	11/30/2018	Soil
SS-4	AZ11614-014	12/3/2018	11/30/2018	Soil
SS-5	AZ11614-015	12/3/2018	11/30/2018	Soil
SS-7	AZ11614-016	12/3/2018	11/30/2018	Soil
SS-8	AZ11614-017	12/3/2018	11/30/2018	Soil
SS-10	AZ11614-018	12/3/2018	11/30/2018	Soil
SS-14	AZ11614-019	12/3/2018	11/30/2018	Soil
SS-16	AZ11614-020	12/3/2018	11/30/2018	Soil
SS-18	AZ11614-021	12/3/2018	11/30/2018	Soil
SS-20	AZ11614-022	12/3/2018	11/30/2018	Soil
SS-22	AZ11614-023	12/3/2018	11/30/2018	Soil
SS-23	AZ11614-024	12/3/2018	11/30/2018	Soil
SS-25	AZ11614-025	12/3/2018	11/30/2018	Soil
B1-4	AZ11614-026	12/3/2018	11/30/2018	Soil
B1-6	AZ11614-027	12/3/2018	11/30/2018	Soil
B1-10	AZ11614-028	12/3/2018	11/30/2018	Soil
B4-4	AZ11614-029	12/3/2018	11/30/2018	Soil
B4-6	AZ11614-030	12/3/2018	11/30/2018	Soil
B4-15	AZ11614-031	12/3/2018	11/30/2018	Soil

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Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix	
SS-2-1		AZ11614-001	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	19	mg/kg	12/03/18	12/04/18	D1,	10
SS-3-1		AZ11614-002	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	2800	mg/kg	12/03/18	12/04/18	D2,	100
SS-6-1		AZ11614-003	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	49	mg/kg	12/03/18	12/04/18	D1,	10
SS-9-1		AZ11614-004	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	160	mg/kg	12/03/18	12/04/18	D2,	5
SS-13-1		AZ11614-005	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	38	mg/kg	12/03/18	12/04/18	D1,	10
SS-11-1		AZ11614-006	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	5.3	mg/kg	12/03/18	12/04/18	--	1

Mr. John Kennedy
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Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix	
SS-15-1		AZ11614-007	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	1100	mg/kg	12/03/18	12/04/18	D2,	50
SS-17-1		AZ11614-008	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	5000	mg/kg	12/03/18	12/04/18	D2,	100
SS-19-1		AZ11614-009	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	11000	mg/kg	12/03/18	12/04/18	D2,	200
SS-21-1		AZ11614-010	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	17	mg/kg	12/03/18	12/04/18	--	1
SS-24-1		AZ11614-011	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	18	mg/kg	12/03/18	12/04/18	D1,	10
SS-12-1		AZ11614-012	12/3/2018	11/29/2018		Soil	
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride	300.0	3100	mg/kg	12/03/18	12/04/18	D2,	100

Mr. John Kennedy
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2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
SS-1	AZ11614-013	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2800	mg/kg	12/03/18	12/04/18	D2,	100	
SS-4	AZ11614-014	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	5600	mg/kg	12/03/18	12/04/18	D2,	100	
SS-5	AZ11614-015	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	3900	mg/kg	12/03/18	12/04/18	D2,	100	
SS-7	AZ11614-016	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	5800	mg/kg	12/03/18	12/04/18	D2,	100	
SS-8	AZ11614-017	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	34	mg/kg	12/03/18	12/04/18	D1,	5	
SS-10	AZ11614-018	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	5400	mg/kg	12/03/18	12/04/18	D2,	100	

Mr. John Kennedy
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
SS-14	AZ11614-019	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2800	mg/kg	12/03/18	12/04/18	D2,	100	
SS-16	AZ11614-020	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	5600	mg/kg	12/03/18	12/04/18	D2,	100	
SS-18	AZ11614-021	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	1000	mg/kg	12/03/18	12/04/18	D2,	200	
SS-20	AZ11614-022	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	6100	mg/kg	12/03/18	12/04/18	D2,	200	
SS-22	AZ11614-023	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	7400	mg/kg	12/03/18	12/04/18	D2,	200	
SS-23	AZ11614-024	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	8600	mg/kg	12/03/18	12/04/18	D2,	200	

Mr. John Kennedy
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2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
SS-25	AZ11614-025	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2600	mg/kg	12/03/18	12/04/18	D2,	100	
B1-4	AZ11614-026	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	6900	mg/kg	12/03/18	12/04/18	D2,	100	
B1-6	AZ11614-027	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	17000	mg/kg	12/03/18	12/04/18	D2,	200	
B1-10	AZ11614-028	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	210	mg/kg	12/03/18	12/04/18	D1,	200	
B4-4	AZ11614-029	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	7700	mg/kg	12/03/18	12/04/18	D2,	200	
B4-6	AZ11614-030	12/3/2018	11/30/2018	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2800	mg/kg	12/03/18	12/04/18	D2,	200	

Mr. John Kennedy
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2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11614
Project Name: Brine Spill New Mexico
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix		
B4-15		AZ11614-031	12/3/2018	11/30/2018		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	1900	mg/kg	12/03/18	12/04/18	D2,	200	
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBTT1203181	Chloride	300.0	<1.0	mg/kg	12/03/18	12/04/18	--	1
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBTT1203182	Chloride	300.0	<1.0	mg/kg	12/03/18	12/04/18	--	1

QA/QC Report for Inorganics

Reference #: ENT AZ11614

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	12/4/2018	12/4/2018	12/4/2018	AZ11614-002	2800	10000	13100	13200	103	104	1	80-120	20	--
Chloride	12/4/2018	12/4/2018	12/4/2018	AZ11614-012	3100	10000	13400	13500	103	104	1	80-120	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	12/4/2018	12/4/2018	12/4/2018	BV1204181	50.0	49.0	48.9	98	98	0	90-110	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	12/4/2018	12/4/2018	12/4/2018	BV1204183	50.0	49.2	49.4	98	99	0	90-110	20	--

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected



Analysis Request and Chain of Custody Record

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 Lab Job No: A211614

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REQUIRED TURN AROUND TIME:

Standard:

72 Hours:

 48 Hours: ☒

24 Hours:

CUSTOMER INFORMATION		PROJECT INFORMATION					ANALYSIS REQUEST / PRESERVATIVE										REMARKS/PRECAUTIONS
							300.0 CHLORIDE										
COMPANY: <u>ENTECH</u>	PROJECT NAME: <u>2991</u>																
SEND REPORT TO: <u>JOHN KENNEDY</u>	NUMBER: <u>2991</u>																
EMAIL: <u>labs@entech-us.com</u>	ADDRESS: <u>NM285 @ PUEY RD</u>																
ADDRESS: <u>2541 E. UNIVERSITY DR</u>	<u>MALAGA, NM</u>																
<u>PHOENIX, AZ 85034</u>	P.O. #: <u>2245</u>																
PHONE: <u>602.267.1900</u> FAX: <u>602.267.1973</u>	SAMPLED BY: <u>BOB VITTAL</u>																
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE												
SS-2-1	1	11-29-18	1015	SS	JAR	X											-001
SS-3-1			1020			X											-002
SS-6-1			1025			X											-003
SS-9-1			1030			X											-004
SS-13-1			1035			X											-005
SS-11-1			1040			X											-006
SS-15-1			1045			X											-007
SS-17-1			1050			X											-008
SS-19-1			1055			X											-009
SS-21-1			1100			X											-010
SS-24-1			1105			X											-011
SS-12-1	↓	↓	1110	↓	↓	X											-012
Total No. of Samples: <u>12</u>		Method of Shipment:		Preservative: 1 = Ice 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other													
Relinquished By: <u>[Signature]</u>	Date/Time: <u>11/30/18 @ 15:16</u>	Received By: <u>[Signature]</u>	Date/Time: <u>12/1/18 15:16</u>	Sample Matrix: WW - Wastewater													
Relinquished By: <u>[Signature]</u>	Date/Time: <u>12/3/18 10:13</u>	Received By: <u>OCAAZ</u>	Date/Time: <u>12/3/18 1013</u>	DW - Drinking Water SS - Soil/Solid													
Relinquished By: <u>[Signature]</u>	Date/Time: <u>12/3/18 10:13</u>	Received For Lab By: <u>Jana Jurell</u>	Date/Time: <u>12/3/18 1013</u>	GW - Groundwater OT - Other													
Sample Integrity: Intact _____ On Ice <u>Y</u> <u>5.6</u> °C																	

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

Analysis Request & Chain of Custody Record



ORANGE COAST ANALYTICAL, INC.

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Lab Job No.: DZ11614Page: 2 of 3

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Phoenix, AZ 85040

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Phone: (480) 736-0960 Fax: (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION				ANALYSIS REQUEST / PRESERVATION										REQUESTED TURN-AROUND-TIME	
Company: Environmental Technologies		Project Name: Brine Spill New Mexico														Standard: _____	
Send Report To: John Kennedy		Project Number: _____														72 Hour: _____	
Email: jkennedy@entech-us.com		PO #: _____														48 Hour: <u>X</u>	
Address: _____		Address (City / State): New Mexico														24 Hour: _____	
Phone: _____ Fax: _____		Sampled By: <u>Joe Osborn</u>														REMARKS / INSTRUCTIONS	
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	EPA308											
SS-1	1	11/30/18	9:40	Soil	Glass Jar	X										-013	
SS-4	1	11/30/18	10:00	Soil	Glass Jar	X										-014	
SS-5	1	11/30/18	9:50	Soil	Glass Jar	X										-015	
SS-7	1	11/30/18	10:15	Soil	Glass Jar	X										-016	
SS-8	1	11/30/18	10:31	Soil	Glass Jar	X										-017	
SS-10	1	11/30/18	10:22	Soil	Glass Jar	X										-018	
SS-14	1	11/30/18	11:27	Soil	Glass Jar	X										-019	
SS-16	1	11/30/18	10:42	Soil	Glass Jar	X										-020	
SS-18	1	11/30/18	10:49	Soil	Glass Jar	X										-021	
SS-20	1	11/30/18	11:36	Soil	Glass Jar	X										-022	
SS-22	1	11/30/18	11:44	Soil	Glass Jar	X										-023	
SS-23	1	11/30/18	12:21	Soil	Glass Jar	X										-024	
SS-25	1	11/30/18	12:21	Soil	Glass Jar	X										-025	
No. of Samples: <u>13</u> Method of Shipment: _____ Carry In _____ Preservative: 1 = Ice 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other Relinquished By: <u>[Signature]</u> Date: <u>12-1-18</u> Time: <u>3:56 PM</u> Received By: <u>[Signature]</u> Date: <u>12-1-18</u> Time: <u>3:56 PM</u> Company: <u>ENTECH</u> Company: <u>ENTECH</u> Relinquished By: <u>[Signature]</u> Date: <u>12/3/18</u> Time: <u>10:13</u> Received By: <u>Jana Dowell</u> Date: <u>12/3/18</u> Time: <u>10:13</u> Company: <u>ENTECH</u> Company: <u>OCA AZ</u> Relinquished By: _____ Date: _____ Time: _____ Received For OCA By: _____ Date: _____ Time: _____ Company: _____ Company: _____																	
Sample Matrix: DW - Drinking Water GW - Groundwater AQ - Aqueous WW - Wastewater SS - Soil / Solid SW - Stormwater OT - Other Sample Integrity: Intact: _____ On Ice: <u>Yes</u> / No @ <u>5.0</u> °C																	

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses.

Analysis Request & Chain of Custody Record



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Lab Job No.: AZ116014

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[illegible]

No. of Samples:	6	Method of Shipment:	Carry In	Preservative:	1 = Ice	2 = HCl	3 = HNO ₃	4 = H ₂ SO ₄	5 = NaOH	6 = Other
Relinquished By:		Date: 12-1-18	Received By: J.P.K.	Date: 12-1-18			Sample Matrix:		DW - Drinking Water	
		Time: 3:36		Time: 3:56 PM			GW - Groundwater		AW - Aqueous	
Company:			Company: ENTECH				WW - Wastewater		SS - Soil / Solid	
Relinquished By:		Date: 12/3/18	Received By: Jana Doucel	Date: 12/3/18			SW - Stormwater		OT - Other	
		Time: 10:13		Time: 1013						
Company:			Company: OCA AZ							
Relinquished By:		Date:	Received For OCA By:	Date:			Sample Integrity:			
		Time:		Time:			Intact: _____	On Ice: (Yes) / No	@ 5.6 °C	
Company:			Company:							

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses.



Orange Coast Analytical, Inc.

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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11642

Project Name: 2991

Project Number: 2991

Date Received: 12/20/2018

Date Reported: 12/28/2018

Chain of Custody Received: ☒

Analytical Method: 8015D, 8015AZ, 8260B, 300.0,



Mark Noorani, Laboratory Director

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Mr. John Kennedy
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. John Kennedy
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
CS-23-4	AZ11642-001	12/20/2018	12/18/2018	Soil
CS-22-4	AZ11642-002	12/20/2018	12/18/2018	Soil
CS-19-3	AZ11642-003	12/20/2018	12/18/2018	Soil
CS-20-4	AZ11642-004	12/20/2018	12/18/2018	Soil
CS-18-4	AZ11642-005	12/20/2018	12/18/2018	Soil
CS-17-3	AZ11642-006	12/20/2018	12/19/2018	Soil

Mr. John Kennedy
EnTech
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-23-4	AZ11642-001	12/20/2018	12/18/2018	12/18/2018	12/21/2018	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	91	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-22-4	AZ11642-002	12/20/2018	12/18/2018	12/18/2018	12/21/2018	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	117	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-19-3	AZ11642-003	12/20/2018	12/18/2018	12/18/2018	12/21/2018	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	99	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-20-4	AZ11642-004	12/20/2018	12/18/2018	12/18/2018	12/21/2018	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	104	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-18-4	AZ11642-005	12/20/2018	12/18/2018	12/18/2018	12/21/2018	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	107	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

Mr. John Kennedy
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-17-3	AZ11642-006	12/20/2018	12/19/2018	12/19/2018	12/21/2018	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
GROs ¹	<5.0	Bromochlorobenzene	117
<u>Dilution Factor:</u> 1		* Acceptable Recovery: 26-150 %	
<u>Data Qualifiers:</u> None			

Method Blank	MBTT1221181		12/21/2018	12/21/2018	Soil
--------------	-------------	--	------------	------------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
GROs ¹	<5.0	Bromochlorobenzene	113
<u>Dilution Factor:</u> 1		* Acceptable Recovery: 26-150 %	
<u>Data Qualifiers:</u> None			

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

Mr. John Kennedy
EnTech
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-23-4	AZ11642-001	12/20/2018	12/18/2018	12/18/2018	12/26/2018	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>				
Benzene	71-43-2	<0.040	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Bromobenzene	108-86-1	<0.050	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1			
Dibromofluoromethane:	86	42-139 %	<u>Data Qualifiers:</u> None			
Toluene-d8:	70	55-130 %				
4-Bromofluorobenzene:	57	55-130 %				

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Lab Reference #: ENT AZ11642
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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-22-4	AZ11642-002	12/20/2018	12/18/2018	12/18/2018	12/26/2018	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
Surrogate:	% RC	Acceptable % RC	Dilution Factor:	1		
Dibromofluoromethane:	82	42-139 %	Data Qualifiers:	None		
Toluene-d8:	71	55-130 %				
4-Bromofluorobenzene:	58	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-19-3	AZ11642-003	12/20/2018	12/18/2018	12/18/2018	12/26/2018	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>				
Benzene	71-43-2	<0.040	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Bromobenzene	108-86-1	<0.050	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1			
Dibromofluoromethane:	80	42-139 %	<u>Data Qualifiers:</u> None			
Toluene-d8:	71	55-130 %				
4-Bromofluorobenzene:	58	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-20-4	AZ11642-004	12/20/2018	12/18/2018	12/18/2018	12/26/2018	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
Surrogate:	% RC	Acceptable % RC	Dilution Factor:	1		
Dibromofluoromethane:	76	42-139 %	Data Qualifiers:	None		
Toluene-d8:	71	55-130 %				
4-Bromofluorobenzene:	56	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-18-4	AZ11642-005	12/20/2018	12/18/2018	12/18/2018	12/26/2018	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>				
Benzene	71-43-2	<0.040	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Bromobenzene	108-86-1	<0.050	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1			
Dibromofluoromethane:	77	42-139 %	<u>Data Qualifiers:</u> None			
Toluene-d8:	70	55-130 %				
4-Bromofluorobenzene:	57	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-17-3	AZ11642-006	12/20/2018	12/19/2018	12/19/2018	12/26/2018	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
Surrogate:	% RC	Acceptable % RC	Dilution Factor:	1		
Dibromofluoromethane:	79	42-139 %	Data Qualifiers:	None		
Toluene-d8:	72	55-130 %				
4-Bromofluorobenzene:	59	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBTT1220181			12/20/2018	12/26/2018	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	97	42-139 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	66	55-130 %				
4-Bromofluorobenzene:	57	55-130 %				

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Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID			Lab Sample Number	Date Received	Date Sampled		Matrix		
CS-23-4			AZ11642-001	12/20/2018	12/18/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	2500	mg/kg	12/21/18	12/21/18	D2,	100
CS-22-4			AZ11642-002	12/20/2018	12/18/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	6.1	mg/kg	12/21/18	12/21/18	--	1
CS-19-3			AZ11642-003	12/20/2018	12/18/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	490	mg/kg	12/21/18	12/21/18	D2,	10
CS-20-4			AZ11642-004	12/20/2018	12/18/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	480	mg/kg	12/21/18	12/21/18	D1,	50
CS-18-4			AZ11642-005	12/20/2018	12/18/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	480	mg/kg	12/21/18	12/21/18	D1,	50
CS-17-3			AZ11642-006	12/20/2018	12/19/2018		Soil		
<u>ANALYTE</u>			<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Chloride			300.0	9.0	mg/kg	12/21/18	12/21/18	D1,	2

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Lab Reference #: ENT AZ11642
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix		
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBBV1221183	Chloride	300.0	<1.0	mg/kg	12/21/18	12/21/18	--	1

QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 12/21/2018Date of Analysis: 12/21/2018Dup Date of Analysis: 12/21/2018Laboratory Sample #: AZ11642-001MS/MSD Qualifiers: NoneReference #: ENT AZ11642

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.0	25	25	23	100	92	8	70-132	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Bromochlorobenzene	112	112	☐

LCS	LCSD	Qual
96	99	☐

ACP % RC
26-150

Laboratory Control SampleDate of Extraction: 12/21/2018Date of Analysis: 12/21/2018Dup Date of Analysis: 12/21/2018Laboratory Sample #: TT1221181LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	25	23	21	92	84	9	70-131	28	☐

QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 12/26/2018Date of Analysis: 12/26/2018Dup Date of Analysis: 12/26/2018Laboratory Sample #: 24038-003MS/MSD Qualifiers: NoneReference #: ENT AZ11642

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	0.0100	0.00978	0.0101	98	101	3	53-130	20	☐
Benzene	0.00	0.0100	0.0101	0.0112	101	112	10	67-135	20	☐
Trichloroethene	0.00	0.0100	0.0108	0.0114	108	114	5	70-130	20	☐
Toluene	0.00	0.0100	0.00893	0.00974	89	97	9	69-130	20	☐
Chlorobenzene	0.00	0.0100	0.00956	0.0104	96	104	8	70-130	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	94	95	☐
Toluene-d8	68	68	☐
4-Bromofluorobenzene	60	58	☐

LCS	LCSD	Qual
95	93	☐
67	68	☐
58	59	☐

ACP % RC
42-139
55-130
55-130

Laboratory Control SampleDate of Extraction: 12/26/2018Date of Analysis: 12/26/2018Dup Date of Analysis: 12/26/2018Laboratory Sample #: MN1226181LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	0.0100	0.0107	0.0108	107	108	1	54-130	20	☐
Benzene	0.0100	0.0117	0.0122	117	122	4	66-137	20	☐
Trichloroethene	0.0100	0.0127	0.0120	127	120	6	70-130	20	☐
Toluene	0.0100	0.00989	0.0103	99	103	4	70-130	20	☐
Chlorobenzene	0.0100	0.0111	0.0113	111	113	2	70-130	20	☐

**QA/QC Report
for Inorganics**

Reference #: ENT AZ11642

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	12/21/2018	12/21/2018	12/21/2018	AZ11642-002	6.10	50.0	54.1	53.9	96	96	0	80-120	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	12/21/2018	12/21/2018	12/21/2018	BV1221183	50.0	48.2	48.1	96	96	0	90-110	20	--

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Lab Job No: AZ11642
Page 1 of 1



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4620 E. Elwood, Suite 4

Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

[illegible]

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.



Orange Coast Analytical, Inc.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11686

Project Name: 2991

Project Number: 2991

Date Received: 1/18/2019

Date Reported: 1/22/2019

Chain of Custody Received: ☒

Analytical Method: 8015D, 8015AZ, 8260B, 300.0,

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

Mark Noorani, Laboratory Director

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
MB-2-4	AZ11686-001	1/18/2019	1/17/2019	Soil
CS-10-4	AZ11686-002	1/18/2019	1/17/2019	Soil
CS-8-4	AZ11686-003	1/18/2019	1/17/2019	Soil
MB-3-4	AZ11686-004	1/18/2019	1/17/2019	Soil
CS-7-4	AZ11686-005	1/18/2019	1/17/2019	Soil
CS-4-4	AZ11686-006	1/18/2019	1/17/2019	Soil

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MB-2-4	AZ11686-001	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	105	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-10-4	AZ11686-002	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	89	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-8-4	AZ11686-003	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	98	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
MB-3-4	AZ11686-004	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	106	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						
CS-7-4	AZ11686-005	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	103	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 26-150 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-4-4	AZ11686-006	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
GROs ¹	<5.0	Bromochlorobenzene	107
<u>Dilution Factor:</u> 1		* Acceptable Recovery: 26-150 %	
<u>Data Qualifiers:</u> None			

Method Blank	MBTP0118192		1/18/2019	1/21/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
GROs ¹	<5.0	Bromochlorobenzene	104
<u>Dilution Factor:</u> 1		* Acceptable Recovery: 26-150 %	
<u>Data Qualifiers:</u> None			

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MB-2-4	AZ11686-001	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	79
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-10-4	AZ11686-002	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	80
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-8-4	AZ11686-003	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	81
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

MB-3-4	AZ11686-004	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil
--------	-------------	-----------	-----------	-----------	-----------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	78
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-7-4	AZ11686-005	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	78
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-4-4	AZ11686-006	1/18/2019	1/17/2019	1/21/2019	1/21/2019	Soil
--------	-------------	-----------	-----------	-----------	-----------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	78
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

Method Blank	MBTP0121191			1/21/2019	1/21/2019	Soil
--------------	-------------	--	--	-----------	-----------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	82
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MB-2-4	AZ11686-001	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	<u>1</u>	<u>Data Qualifiers:</u>	<u>None</u>
Dibromofluoromethane:	91	42-139 %				
Toluene-d8:	93	55-130 %				
4-Bromofluorobenzene:	82	55-130 %				

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-10-4	AZ11686-002	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dibromoethane	106-93-4	<0.050			
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	88	42-139 %	<u>Data Qualifiers:</u> None
Toluene-d8:	95	55-130 %	
4-Bromofluorobenzene:	83	55-130 %	

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-8-4	AZ11686-003	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	88	42-139 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	93	55-130 %				
4-Bromofluorobenzene:	81	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MB-3-4	AZ11686-004	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	<u>1</u>	<u>Data Qualifiers:</u>	<u>None</u>
Dibromofluoromethane:	90	42-139 %				
Toluene-d8:	94	55-130 %				
4-Bromofluorobenzene:	80	55-130 %				

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-7-4	AZ11686-005	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dibromoethane	106-93-4	<0.050			
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	87	42-139 %	<u>Data Qualifiers:</u> None
Toluene-d8:	97	55-130 %	
4-Bromofluorobenzene:	84	55-130 %	

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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-4-4	AZ11686-006	1/18/2019	1/17/2019	1/17/2019	1/21/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	84	42-139 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	90	55-130 %				
4-Bromofluorobenzene:	77	55-130 %				

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Project Name: 2991
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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBTP0118191			1/18/2019	1/21/2019	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	<u>1</u>		
Dibromofluoromethane:	106	42-139 %	<u>Data Qualifiers:</u>	<u>None</u>		
Toluene-d8:	90	55-130 %				
4-Bromofluorobenzene:	84	55-130 %				

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
MB-2-4	AZ11686-001	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	1900	mg/kg	01/20/19	01/21/19	D2,	50	
CS-10-4	AZ11686-002	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	1500	mg/kg	01/20/19	01/21/19	D2,	100	
CS-8-4	AZ11686-003	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	110	mg/kg	01/20/19	01/21/19	D2,	10	
MB-3-4	AZ11686-004	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	1100	mg/kg	01/20/19	01/21/19	D2, E2,	10	
CS-7-4	AZ11686-005	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	980	mg/kg	01/20/19	01/21/19	D2,	50	
CS-4-4	AZ11686-006	1/18/2019	1/17/2019	Soil				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2400	mg/kg	01/20/19	01/21/19	D2,	50	

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Lab Reference #: ENT AZ11686
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix		
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBMN0120192	Chloride	300.0	<1.0	mg/kg	01/20/19	01/21/19	--	1

QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: AZ11686-001MS/MSD Qualifiers: NoneReference #: ENT AZ11686

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.0	25	21	21	84	84	0	70-132	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Bromochlorobenzene	93	94	☐	93	92	☐	26-150

Laboratory Control SampleDate of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: TT0121192LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	25	22	23	88	92	4	70-131	28	☐

QA/QC Report
for
Total Petroleum Hydrocarbons, C10-C32 (8015AZ)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: AZ11686-001MS/MSD Qualifiers: NoneReference #: ENT AZ11686

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH	0.00	1000	1000	1000	100	100	0	64-130	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
o-Terphenyl	93	93	☐	84	87	☐	70-130

Laboratory Control SampleDate of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: TP0121191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
EFH	1000	940	980	94	98	4	70-130	20	☐

QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: AZ11686-001MS/MSD Qualifiers: NoneReference #: ENT AZ11686

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	0.0100	0.00721	0.00666	72	67	8	53-130	20	☐
Benzene	0.00	0.0100	0.0100	0.00905	100	91	10	67-135	20	☐
Trichloroethene	0.00	0.0100	0.00964	0.00903	96	90	7	70-130	20	☐
Toluene	0.00	0.0100	0.00875	0.00772	88	77	13	69-130	20	☐
Chlorobenzene	0.00	0.0100	0.00982	0.00896	98	90	9	70-130	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	102	104	☐
Toluene-d8	89	87	☐
4-Bromofluorobenzene	80	80	☐

LCS	LCSD	Qual
109	110	☐
88	90	☐
81	82	☐

ACP % RC
42-139
55-130
55-130

Laboratory Control SampleDate of Extraction: 1/21/2019Date of Analysis: 1/21/2019Dup Date of Analysis: 1/21/2019Laboratory Sample #: HT0121191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	0.0100	0.00852	0.00801	85	80	6	54-130	20	☐
Benzene	0.0100	0.0107	0.0104	107	104	3	66-137	20	☐
Trichloroethene	0.0100	0.0112	0.0109	112	109	3	70-130	20	☐
Toluene	0.0100	0.00946	0.00899	95	90	5	70-130	20	☐
Chlorobenzene	0.0100	0.0104	0.0102	104	102	2	70-130	20	☐

**QA/QC Report
for Inorganics**

Reference #: ENT AZ11686

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	1/21/2019	1/21/2019	1/21/2019	AZ11686-004	1100	1000	2170	2170	107	107	0	80-120	20	E2,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	1/21/2019	1/21/2019	1/21/2019	BV0121192	50.0	48.5	48.8	97	98	1	90-110	20	--

Data Qualifier Definitions

Qualifier

D2 = Sample required dilution due to high concentration of target analyte.

E2 = Concentration estimated. Analyte exceeded calibration range.

AZ11686-004 300.0

Chloride

MS/MSD

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected



ORANGE COAST ANALYTICAL, INC.

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4620 E. Elwood, Suite 4

Phoenix, AZ 85040

(480) 736-0960 Fax (480) 736-0970

Lab Job No:

Page 1 of 1**REQUIRED TURN AROUND TIME:**

Standard:

72 Hours:

48 Hours:

24 Hours:

[illegible]



Orange Coast Analytical, Inc.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11734

Project Name: 2991

Project Number: 2991

Date Received: 2/21/2019

Date Reported: 2/25/2019

Chain of Custody Received: ☒

Analytical Method: 8015D, 8015AZ, 8260B, 300.0,


Mark Noorani, Laboratory Director

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 1°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
CS-12-4	AZ11734-001	2/21/2019	2/20/2019	Soil
CS-25-4	AZ11734-002	2/21/2019	2/20/2019	Soil
CS-14-4	AZ11734-003	2/21/2019	2/20/2019	Soil
CS-MB1-7	AZ11734-004	2/21/2019	2/20/2019	Soil

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-12-4	AZ11734-001	2/21/2019	2/20/2019	2/20/2019	2/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	104	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-25-4	AZ11734-002	2/21/2019	2/20/2019	2/20/2019	2/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	105	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-14-4	AZ11734-003	2/21/2019	2/20/2019	2/20/2019	2/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	96	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-MB1-7	AZ11734-004	2/21/2019	2/20/2019	2/20/2019	2/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	103	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
Method Blank	MBTP0221191			2/21/2019	2/21/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	86	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-12-4	AZ11734-001	2/21/2019	2/20/2019	2/21/2019	2/21/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	83
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-25-4	AZ11734-002	2/21/2019	2/20/2019	2/21/2019	2/21/2019	Soil
---------	-------------	-----------	-----------	-----------	-----------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	82
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-14-4	AZ11734-003	2/21/2019	2/20/2019	2/21/2019	2/21/2019	Soil
---------	-------------	-----------	-----------	-----------	-----------	------

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	80
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-MB1-7	AZ11734-004	2/21/2019	2/20/2019	2/21/2019	2/21/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	84
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBTT0221191			2/21/2019	2/21/2019	Soil

ANALYTE mg/kg

C10-22 <30

C22-32 <100

Total <130

Surrogate: % RC*

o-Terphenyl 81

* Acceptable Recovery: 70-130 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-12-4	AZ11734-001	2/21/2019	2/20/2019	2/20/2019	2/22/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	93	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	88	60-130 %				
4-Bromofluorobenzene:	72	48-130 %				

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-25-4	AZ11734-002	2/21/2019	2/20/2019	2/20/2019	2/22/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	87	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	87	60-130 %				
4-Bromofluorobenzene:	72	48-130 %				

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-14-4	AZ11734-003	2/21/2019	2/20/2019	2/20/2019	2/22/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dibromoethane	106-93-4	<0.050			
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	89	49-130 %	<u>Data Qualifiers:</u> None
Toluene-d8:	86	60-130 %	
4-Bromofluorobenzene:	73	48-130 %	

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-MB1-7	AZ11734-004	2/21/2019	2/20/2019	2/20/2019	2/22/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
4-Chlorotoluene	106-43-4	<0.050	Vinyl Chloride	75-01-4	<0.050
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dibromoethane	106-93-4	<0.050			
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	86	49-130 %	<u>Data Qualifiers:</u> None
Toluene-d8:	89	60-130 %	
4-Bromofluorobenzene:	76	48-130 %	

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBTP0221191			2/21/2019	2/22/2019	Soil
<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>mg/kg</u>	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Naphthalene	91-20-3	<0.15	
Bromochloromethane	74-97-5	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromodichloromethane	75-27-4	<0.050	Styrene	100-42-5	<0.050	
Bromoform	75-25-2	<0.050	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
Bromomethane	74-83-9	<0.25	Tetrachloroethene	127-18-4	<0.050	
n-Butylbenzene	104-51-8	<0.050	Toluene	108-88-3	<0.050	
sec-Butylbenzene	135-98-8	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chlorobenzene	108-90-7	<0.050	Trichloroethene	79-01-6	<0.050	
Chloroethane	75-00-3	<0.25	Trichlorofluoromethane	75-69-4	<0.25	
Chloroform	67-66-3	<0.050	1,2,3-Trichloropropane	96-18-4	<0.050	
Chloromethane	74-87-3	<0.25	1,2,4-Trimethylbenzene	95-63-6	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
4-Chlorotoluene	106-43-4	<0.050	Vinyl chloride	75-01-4	<0.050	
Dibromochloromethane	124-48-1	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dibromoethane	106-93-4	<0.050				
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	112	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	79	60-130 %				
4-Bromofluorobenzene:	68	48-130 %				

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Lab Reference #: ENT AZ11734
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID			Lab Sample Number	Date Received	Date Sampled		Matrix	
CS-12-4			AZ11734-001	2/21/2019	2/20/2019		Soil	
	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
	Chloride	300.0	2300	mg/kg	02/25/19	02/25/19	D2,	50
CS-25-4			AZ11734-002	2/21/2019	2/20/2019		Soil	
	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
	Chloride	300.0	2400	mg/kg	02/25/19	02/25/19	D2,	50
CS-14-4			AZ11734-003	2/21/2019	2/20/2019		Soil	
	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
	Chloride	300.0	2500	mg/kg	02/25/19	02/25/19	D2,	50
CS-MB1-7			AZ11734-004	2/21/2019	2/20/2019		Soil	
	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
	Chloride	300.0	1600	mg/kg	02/25/19	02/25/19	D2,	50
Method Blank							Soil	
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBBV0225191	Chloride	300.0	<1.0	mg/kg	02/25/19	02/25/19	--	1

QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/21/2019Date of Analysis: 2/21/2019Dup Date of Analysis: 2/21/2019Laboratory Sample #: AZ11732-001MS/MSD Qualifiers: NoneReference #: ENT AZ11734

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.0	25	23	21	92	84	9	70-133	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Bromochlorobenzene	84	91	☐	81	87	☐	27-149

Laboratory Control SampleDate of Extraction: 2/21/2019Date of Analysis: 2/21/2019Dup Date of Analysis: 2/21/2019Laboratory Sample #: TT0221192LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	25	24	23	96	92	4	70-132	28	☐

QA/QC Report
for
Total Petroleum Hydrocarbons, C10-C32 (8015AZ)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/21/2019Date of Analysis: 2/21/2019Dup Date of Analysis: 2/21/2019Laboratory Sample #: AZ11732-001MS/MSD Qualifiers: NoneReference #: ENT AZ11734

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH	0.00	1000	980	970	98	97	1	63-130	21	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
o-Terphenyl	93	93	☐

LCS	LCSD	Qual
90	91	☐

ACP % RC
70-130

Laboratory Control SampleDate of Extraction: 2/21/2019Date of Analysis: 2/21/2019Dup Date of Analysis: 2/21/2019Laboratory Sample #: TT0221191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
EFH	1000	970	1100	97	110	13	70-130	20	☐

QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/22/2019Date of Analysis: 2/22/2019Dup Date of Analysis: 2/22/2019Laboratory Sample #: AZ11734-001MS/MSD Qualifiers: NoneReference #: ENT AZ11734

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	0.0100	0.00725	0.00666	73	67	8	57-130	20	☐
Benzene	0.00	0.0100	0.0108	0.0103	108	103	5	68-136	20	☐
Trichloroethene	0.00	0.0100	0.00975	0.00961	98	96	1	70-133	20	☐
Toluene	0.00	0.0100	0.00920	0.00922	92	92	0	66-133	20	☐
Chlorobenzene	0.00	0.0100	0.0103	0.0101	103	101	2	70-134	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Dibromofluoromethane	86	88	☐	113	117	☐	49-130
Toluene-d8	85	88	☐	80	80	☐	60-130
4-Bromofluorobenzene	71	71	☐	71	70	☐	48-130

Laboratory Control SampleDate of Extraction: 2/22/2019Date of Analysis: 2/22/2019Dup Date of Analysis: 2/22/2019Laboratory Sample #: HT0222191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	0.0100	0.00897	0.00832	90	83	8	61-130	20	☐
Benzene	0.0100	0.0119	0.0112	119	112	6	66-138	20	☐
Trichloroethene	0.0100	0.0115	0.0108	115	108	6	70-134	20	☐
Toluene	0.0100	0.00940	0.00922	94	92	2	68-132	20	☐
Chlorobenzene	0.0100	0.0111	0.0106	111	106	5	70-134	20	☐

**QA/QC Report
for Inorganics**

Reference #: ENT AZ11734

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	2/25/2019	2/25/2019	2/25/2019	AZ11734-001	2300	5000	7610	7620	106	106	0	90-110	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	2/25/2019	2/25/2019	2/25/2019	BV0225191	50.0	47.0	47.3	94	95	1	90-110	20	--

Data Qualifier Definitions

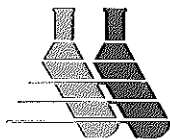
Qualifier

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record



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Lab Job No: AZ11734Page 1 of 1
 REQUIRED TURN AROUND TIME: Standard: _____
 72 Hours: _____ 48 Hours: X 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION						ANALYSIS REQUEST / PRESERVATIVE										REMARKS/PRECAUTIONS	
COMPANY:	SEND REPORT TO:	PROJECT NAME:	NUMBER:	ADDRESS:	P.O. #:	SAMPLED BY:	82609 VOC's	8015 TPH Full Range	300.0 CHLORIDE										
ENTECH	JOHN KENNEDY	2991	2991	NM285 @ PULLEY RD	2327	BOB V. TIAL													
EMAIL: labs@entech-us.com																			
ADDRESS: 2541 E. UNIVERSITY DR																			
PHOENIX, AZ 85034																			
PHONE: 602.267.1900 FAX: 602.267.1973																			
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE														
CS-12-4	2	2.20.19	0835	SS	VOA JAR	X	X	X											
CS-25-4	2	2.20.19	0855	SS	VOA JAR	X	X	X											
CS-14-4	2	2.20.19	0930	SS	VOA JAR	X	X	X											
CS-MB1-7	2	2.20.19	1110	SS	JAR VOA	X	X	X											

 Total No. of Samples: _____ Method of Shipment: _____ Preservative: 1 = Ice 2 = HCl 3 = HNO₃ 4 = H₂SO₄ 5 = NaOH 6 = Other

Relinquished By: <u>Blatt</u>	Date/Time: <u>2/21/19 @ 1520</u>	Received By: <u>DCA AZ</u>	Date/Time: <u>2/21/19 1520</u>	Sample Matrix: WW - Wastewater DW - Drinking Water GW - Groundwater OT - Other
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	
Sample Integrity:				Intact _____ On Ice <u>Y</u> <u>1.2</u> °C

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of completion of analysis, unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples.



Orange Coast Analytical, Inc.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067

4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646

Expiration Date: 2018

Laboratory Director's Name:

Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ11711

Project Name: 2991

Project Number: 2991

Date Received: 2/5/2019

Date Reported: 2/7/2019

Chain of Custody Received: ☒

Analytical Method: 8015D, 8015AZ, 8260B, 300.0,


Mark Noorani, Laboratory Director

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Mr. John Kennedy
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Phoenix, AZ, 85034

Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 1°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
CS-MB4-4	AZ11711-001	2/5/2019	2/4/2019	Soil
CS-1-4	AZ11711-002	2/5/2019	2/4/2019	Soil
CS-5-4	AZ11711-003	2/5/2019	2/4/2019	Soil
CS-3-2	AZ11711-004	2/5/2019	2/4/2019	Soil
CS-16-4	AZ11711-005	2/5/2019	2/4/2019	Soil
CS-12-3	AZ11711-006	2/5/2019	2/4/2019	Soil
CS-15-2	AZ11711-007	2/5/2019	2/4/2019	Soil

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-MB4-4	AZ11711-001	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	101	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-1-4	AZ11711-002	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	84	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-5-4	AZ11711-003	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	97	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-3-2	AZ11711-004	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	103	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-16-4	AZ11711-005	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	100	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Gasoline Range Organics - GROs (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-12-3	AZ11711-006	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	97	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
CS-15-2	AZ11711-007	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	110	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						
Method Blank	MBTT0205192			2/5/2019	2/6/2019	Soil
<u>ANALYTE</u>	<u>mg/kg</u>			<u>Surrogate:</u>	<u>% RC*</u>	
GROs ¹	<5.0			Bromochlorobenzene	105	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 27-149 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-MB4-4	AZ11711-001	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	80
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-1-4	AZ11711-002	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	83
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-5-4	AZ11711-003	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	80
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

CS-3-2	AZ11711-004	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	79
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Total Petroleum Hydrocarbons, C10-C32 (8015AZ)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-16-4	AZ11711-005	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil

<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	82
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1
Data Qualifiers: None

CS-12-3	AZ11711-006	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	83
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1
Data Qualifiers: None

CS-15-2	AZ11711-007	2/5/2019	2/4/2019	2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	80
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1
Data Qualifiers: None

Method Blank	MBTP0206191			2/6/2019	2/6/2019	Soil
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<u>ANALYTE</u>	<u>mg/kg</u>	<u>Surrogate:</u>	<u>% RC*</u>
C10-22	<30	o-Terphenyl	72
C22-32	<100	* Acceptable Recovery: 70-130 %	
Total	<130		

Dilution Factor: 1
Data Qualifiers: None

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-MB4-4	AZ11711-001	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	87	49-130 %	<u>Data Qualifiers:</u> None
Toluene-d8:	90	60-130 %	
4-Bromofluorobenzene:	76	48-130 %	

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-1-4	AZ11711-002	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	90	49-130 %	<u>Data Qualifiers:</u> None
Toluene-d8:	91	60-130 %	
4-Bromofluorobenzene:	78	48-130 %	

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-5-4	AZ11711-003	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	87	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	91	60-130 %				
4-Bromofluorobenzene:	76	48-130 %				

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-3-2	AZ11711-004	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	85	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	92	60-130 %				
4-Bromofluorobenzene:	77	48-130 %				

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-16-4	AZ11711-005	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			
Surrogate:	% RC	Acceptable % RC	Dilution Factor:	1	
Dibromofluoromethane:	87	49-130 %	Data Qualifiers:	None	
Toluene-d8:	90	60-130 %			
4-Bromofluorobenzene:	76	48-130 %			

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Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-12-3	AZ11711-006	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil

ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15
1,2-Dichlorobenzene	95-50-1	<0.050			
1,3-Dichlorobenzene	541-73-1	<0.050			
1,4-Dichlorobenzene	106-46-7	<0.050			
Dichlorodifluoromethane	75-71-8	<0.25			
1,1-Dichloroethane	75-34-3	<0.050			
1,2-Dichloroethane	107-06-2	<0.050			
1,1-Dichloroethene	75-35-4	<0.050			
cis-1,2-Dichloroethene	156-59-2	<0.050			
trans-1,2-Dichloroethene	156-60-5	<0.050			
1,2-Dichloropropane	78-87-5	<0.050			
1,3-Dichloropropane	142-28-9	<0.050			
2,2-Dichloropropane	594-20-7	<0.050			
1,1-Dichloropropene	563-58-6	<0.050			
cis-1,3-Dichloropropene	10061-01-5	<0.050			
trans-1,3-Dichloropropene	10061-02-6	<0.050			
Ethylbenzene	100-41-4	<0.050			
Isopropylbenzene	98-82-8	<0.050			
4-Isopropyltoluene	99-87-6	<0.050			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	86	49-130 %	<u>Data Qualifiers:</u> None
Toluene-d8:	90	60-130 %	
4-Bromofluorobenzene:	76	48-130 %	

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CS-15-2	AZ11711-007	2/5/2019	2/4/2019	2/4/2019	2/6/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl Chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
Surrogate:	% RC	Acceptable % RC	Dilution Factor:	1		
Dibromofluoromethane:	84	49-130 %	Data Qualifiers:	None		
Toluene-d8:	91	60-130 %				
4-Bromofluorobenzene:	76	48-130 %				

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBTT0205191			2/5/2019	2/6/2019	Soil
ANALYTE	CAS #	mg/kg	ANALYTE	CAS #	mg/kg	
Benzene	71-43-2	<0.040	Methyl t-butyl ether (MTBE)	1634-04-4	<0.050	
Bromobenzene	108-86-1	<0.050	Methylene chloride	75-09-2	<0.25	
Bromochloromethane	74-97-5	<0.050	Naphthalene	91-20-3	<0.15	
Bromodichloromethane	75-27-4	<0.050	n-Propylbenzene	103-65-1	<0.050	
Bromoform	75-25-2	<0.050	Styrene	100-42-5	<0.050	
Bromomethane	74-83-9	<0.25	1,1,2,2-Tetrachloroethane	79-34-5	<0.050	
n-Butylbenzene	104-51-8	<0.050	Tetrachloroethene	127-18-4	<0.050	
sec-Butylbenzene	135-98-8	<0.050	Toluene	108-88-3	<0.050	
tert-Butylbenzene	98-06-6	<0.050	1,2,3-Trichlorobenzene	87-61-6	<0.050	
Carbon tetrachloride	56-23-5	<0.050	1,1,1-Trichloroethane	71-55-6	<0.050	
Chlorobenzene	108-90-7	<0.050	1,1,2-Trichloroethane	79-00-5	<0.050	
Chloroethane	75-00-3	<0.25	Trichloroethene	79-01-6	<0.050	
Chloroform	67-66-3	<0.050	Trichlorofluoromethane	75-69-4	<0.25	
Chloromethane	74-87-3	<0.25	1,2,3-Trichloropropane	96-18-4	<0.050	
2-Chlorotoluene	95-49-8	<0.050	1,2,4-Trimethylbenzene	95-63-6	<0.050	
4-Chlorotoluene	106-43-4	<0.050	1,3,5-Trimethylbenzene	108-67-8	<0.050	
Dibromochloromethane	124-48-1	<0.050	Vinyl chloride	75-01-4	<0.050	
1,2-Dibromoethane	106-93-4	<0.050	Xylenes, Total	1330-20-7	<0.15	
1,2-Dichlorobenzene	95-50-1	<0.050				
1,3-Dichlorobenzene	541-73-1	<0.050				
1,4-Dichlorobenzene	106-46-7	<0.050				
Dichlorodifluoromethane	75-71-8	<0.25				
1,1-Dichloroethane	75-34-3	<0.050				
1,2-Dichloroethane	107-06-2	<0.050				
1,1-Dichloroethene	75-35-4	<0.050				
cis-1,2-Dichloroethene	156-59-2	<0.050				
trans-1,2-Dichloroethene	156-60-5	<0.050				
1,2-Dichloropropane	78-87-5	<0.050				
1,3-Dichloropropane	142-28-9	<0.050				
2,2-Dichloropropane	594-20-7	<0.050				
1,1-Dichloropropene	563-58-6	<0.050				
cis-1,3-Dichloropropene	10061-01-5	<0.050				
trans-1,3-Dichloropropene	10061-02-6	<0.050				
Ethylbenzene	100-41-4	<0.050				
Isopropylbenzene	98-82-8	<0.050				
4-Isopropyltoluene	99-87-6	<0.050				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	1		
Dibromofluoromethane:	111	49-130 %	<u>Data Qualifiers:</u>	None		
Toluene-d8:	84	60-130 %				
4-Bromofluorobenzene:	76	48-130 %				

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Lab Reference #: ENT AZ11711
Project Name: 2991
Project #: 2991

Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix		
CS-MB4-4		AZ11711-001	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	230	mg/kg	02/06/19	02/06/19	D2,	10	
CS-1-4		AZ11711-002	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	2000	mg/kg	02/06/19	02/06/19	D2,	50	
CS-5-4		AZ11711-003	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	870	mg/kg	02/06/19	02/06/19	D2,	50	
CS-3-2		AZ11711-004	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	76	mg/kg	02/06/19	02/06/19	D1,	50	
CS-16-4		AZ11711-005	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	4100	mg/kg	02/06/19	02/06/19	D2,	50	
CS-12-3		AZ11711-006	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	5200	mg/kg	02/06/19	02/06/19	D2,	100	

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Inorganics

Client Sample ID		Lab Sample Number	Date Received	Date Sampled		Matrix		
CS-15-2		AZ11711-007	2/5/2019	2/4/2019		Soil		
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
Chloride	300.0	58	mg/kg	02/06/19	02/06/19	D1,	50	
Method Blank						Soil		
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBBV0206196	Chloride	300.0	<1.0	mg/kg	02/06/19	02/06/19	--	1

QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: AZ11711-001MS/MSD Qualifiers: NoneReference #: ENT AZ11711

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.0	25	23	22	92	88	4	70-133	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Bromochlorobenzene	81	81	☐

LCS	LCSD	Qual
87	82	☐

ACP % RC
27-149

Laboratory Control SampleDate of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: TT0206191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	25	22	22	88	88	0	70-132	28	☐

QA/QC Report
for
Total Petroleum Hydrocarbons, C10-C32 (8015AZ)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: AZ11711-001MS/MSD Qualifiers: NoneReference #: ENT AZ11711

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH	0.00	1000	1000	1000	100	100	0	63-130	21	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
o-Terphenyl	96	96	☐	94	89	☐	70-130

Laboratory Control SampleDate of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: TP0206191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
EFH	1000	980	980	98	98	0	70-130	20	☐

QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)
Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)Date of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: AZ11711-005MS/MSD Qualifiers: NoneReference #: ENT AZ11711

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	0.0100	0.00868	0.00874	87	87	1	57-130	20	☐
Benzene	0.00	0.0100	0.0116	0.0113	116	113	3	68-136	20	☐
Trichloroethene	0.00	0.0100	0.0111	0.0110	111	110	1	70-133	20	☐
Toluene	0.00	0.0100	0.00994	0.00927	99	93	7	66-133	20	☐
Chlorobenzene	0.00	0.0100	0.0110	0.0105	110	105	5	70-134	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Dibromofluoromethane	98	103	☐	112	108	☐	49-130
Toluene-d8	86	84	☐	85	84	☐	60-130
4-Bromofluorobenzene	75	73	☐	75	77	☐	48-130

Laboratory Control SampleDate of Extraction: 2/6/2019Date of Analysis: 2/6/2019Dup Date of Analysis: 2/6/2019Laboratory Sample #: HT0206191LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	0.0100	0.00810	0.00678	81	68	18	61-130	20	☐
Benzene	0.0100	0.0106	0.00962	106	96	10	66-138	20	☐
Trichloroethene	0.0100	0.0105	0.00938	105	94	11	70-134	20	☐
Toluene	0.0100	0.00858	0.00792	86	79	8	68-132	20	☐
Chlorobenzene	0.0100	0.00980	0.00914	98	91	7	70-134	20	☐

**QA/QC Report
for Inorganics**

Reference #: ENT AZ11711

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Chloride	2/6/2019	2/6/2019	2/6/2019	AZ11711-002	2000	5000	7320	7320	106	106	0	90-110	20	--

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Chloride	2/6/2019	2/6/2019	2/6/2019	BV0206196	50.0	48.3	48.2	97	96	0	90-110	20	--

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected



Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

3002 Dow, Suite 532

4620 E. Elwood, Suite 4

Tustin, CA 92780

Phoenix, AZ 85040

(714) 832-0064 Fax (714) 832-0067

(480) 736-0960 Fax (480) 736-0970

Lab Job No:

Page 1 of**REQUIRED TURN AROUND TIME:**

Standard:

72 Hours:

48 Hours:

24 Hours:

[illegible]

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon in writing with Orange Coast Analytical, Inc. All samples remain the property of the client. A 15% late fee will be assessed on all payments received after the due date.

Sample Receipt Report

Laboratory Reference **HTS 24117**Logged in by **MM**

Received: 01/29/19 09:29 Company Name: HTS Environmental
Method of Shipment: Hand Delivered Project Manager: Ms. Jasmine Rubalcava
Shipping Container: N/A Project Name: TRN Foam Plastics
Shipping Containers: 0 Project #: _____

Sample Quantity
1 Solid

Chain of Custody	Complete ☒	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☐	Yes, Blue ☐	No ☒
Temperature	<u>24°C</u>		
Shipping Intact	Yes ☒	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☒	No ☐
Samples Intact	Yes ☒		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☒	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☒	No ☐
Proper Test Containers	Yes ☒		No ☐
Proper Test Preservations	Yes ☒		No ☐
Samples Within Hold Times	Yes ☒		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☒	No ☐
Sample Labels	Complete ☒	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☒	N/A ☐	No ☐

Notes

Client Notified _____

By _____

On _____

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
District IV
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 8510

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 8510
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	6/29/2022