GW – 028

Annual DP Report (Part 16 of 16)

2015

E-mail Address: robert.combs@hollyfrontier.com

* Attach Additional Sheets If Necessary

Phone: 575-746-5382

12/8/15

Date:

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached 🗌

| Release Notification and Corrective Action | | | | | | | | |
|--|------------------------|----------------------------|---------|--|--|--|--|--|
| OPERATOR Initial Report | | | | | | | | |
| Name of Company Navajo Refining Company | Contact Robert Combs | | | | | | | |
| Address 501 E. Main St. Artesia, NM 88210 | | Telephone No. 575-746-5382 | | | | | | |
| Facility Name Navajo Refining Company, L.L | Facility Type Refinery | | | | | | | |
| Surface Owner | Mineral Owner | | API No. | | | | | |
| LOCATION OF RELEASE | | | | | | | | |

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | - |

Latitude____Longitude___

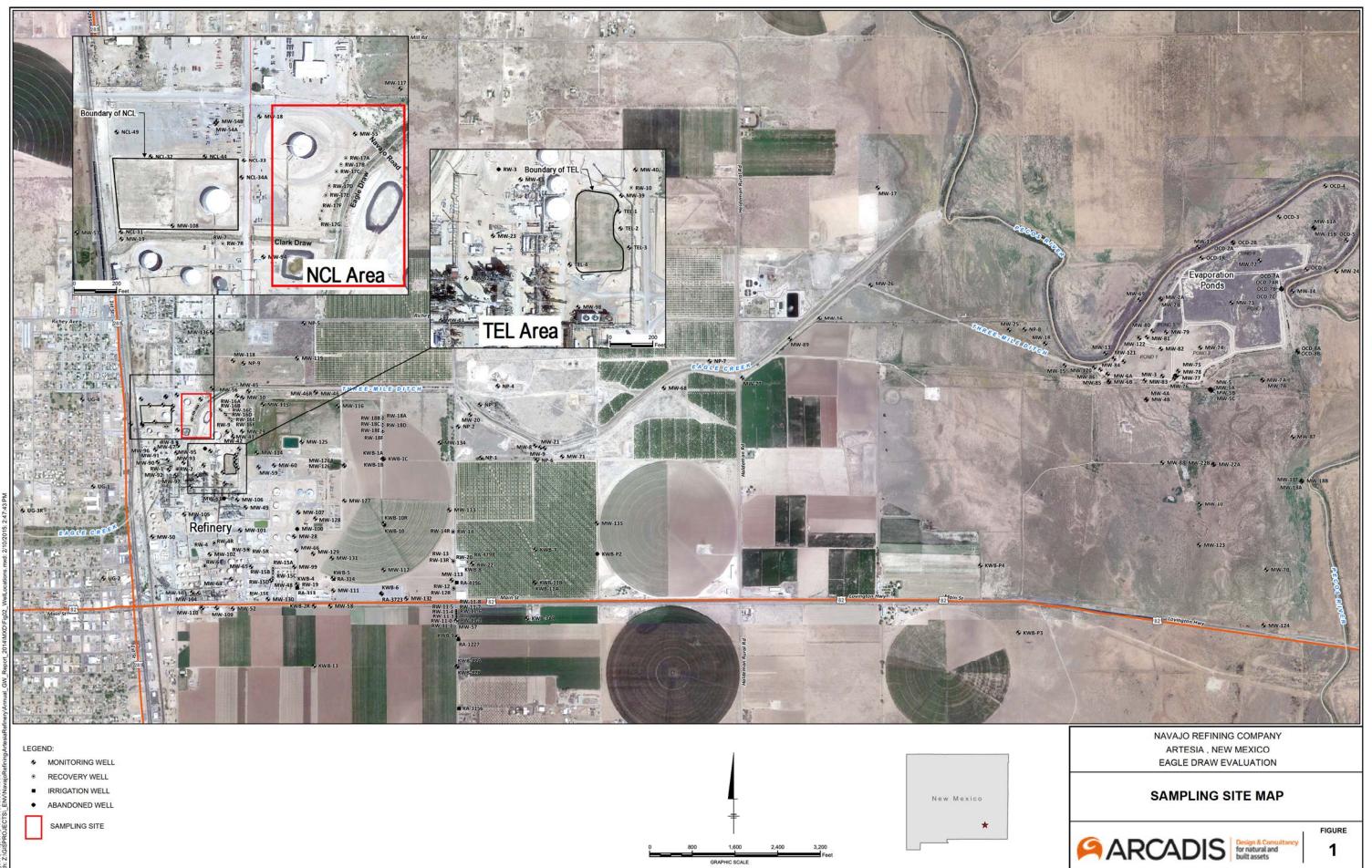
NATURE OF RELEASE

| | OI ILLERINGE | | | |
|---|--|--|--|--|
| Type of Release: Visible evidence of hydrocarbons from groundwater | Volume of Release | Volume Recovered: N/A, Absorbent | | |
| expressed at the ground surface due to elevated water table. | approximately < 1 gallon | material applied to recover/remove | | |
| | | hydrocarbon staining from groundwater | | |
| | | extrusion onto concrete. | | |
| Source of Release Impacted groundwater | Date and Hour of Occurrence | Date and Hour of Discovery | | |
| Source of Release Impacted groundwater | 12/2/15 Unknown hour | 12/2/15@11:40 am | | |
| Was Immediate Notice Given? | If YES, To Whom? | 12/2/15(to)11,40 ani | | |
| | | 1 am | | |
| 🛛 Yes 🔲 No 🗌 Not Required | National Response Center at 11:50 | am | | |
| | OCD Santa Fe office at 4:50 pm | | | |
| By Whom? Gabriela Combs/Robert Combs | Date and Hour please see above | | | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Wa | itercourse. | | |
| Yes 🗌 No | < 1 gallon | | | |
| Y (1 Y) (1 Y) (1 4 | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | |
| A small area of stained concrete located at the base of Clark Draw and East | gle Draw. | | | |
| | | | | |
| Describe Cause of Problem and Remedial Action Taken.* A hydrocarbon | | | | |
| on 12/2/15. There is not an active release of hydrocarbons from Refinery | operations. There is no hydrocarbor | n sheen present in the water. The impacts of | | |
| groundwater extrusion are being addressed by removal of hydrocarbons fr | om the concrete with absorbent mate | rials. Absorbent booms were installed | | |
| downstream as a precautionary measure to prevent the potential for residua | al hydrocarbons to impact any flowir | ng conditions in the waterway that may arise | | |
| while the remedial action described below is being implemented. | | | | |
| Describe Area Affected and Cleanup Action Taken.* | · · · · · · · · · · · · · · · · · · · | | | |
| The stained area was confined to small, specific areas of the concrete. The | adjacent recovery trench will be mo | phitored routinely for evidence of phase | | |
| separated hydrocarbons; if present, a vacuum truck will be used for the ne: | | | | |
| separated hydrocarbons, it present, a vacuum a dex with be used for the ne. | te several days to remove any produc | t conceted in the adjacent monitoring wen. | | |
| A final C-141 report will be submitted to OCD and HWB once corrective | actions comple regults at a are com | alata | | |
| A final C-141 report will be submitted to OCD and H wB once corrective | actions, sample results, etc. are comp | ncic. | | |
| | | | | |
| I hereby certify that the information given above is true and complete to the | | | | |
| regulations all operators are required to report and/or file certain release ne | | | | |
| .public health or the environment. The acceptance of a C-141 report by the | | | | |
| should their operations have failed to adequately investigate and remediate | e contamination that pose a threat to | ground water, surface water, human health | | |
| or the environment. In addition, NMOCD acceptance of a C-141 report do | bes not relieve the operator of respon | sibility for compliance with any other | | |
| federal, state, or local laws and/or regulations. | | | | |
| | OIL CONSER | VATION DIVISION | | |
| | OILCONDER | | | |
| Signature: | | | | |
| | | | | |
| Printed Name: Robert Combs | Approved by Environmental Specialist: | | | |
| | | | | |
| | | Designities Deter | | |
| Title: Environmental Specialist | Approval Date: | Expiration Date: | | |

Conditions of Approval:

Attachment B

Figure 1 - Location of seepage within the Refinery



Attachment C

Figure 2 – Locations of November 19, 2015 Samples



CITY:(HOUSTON) DIVIGROUP:(INF/GIS) LD:(V.PAOUNCIC) PIC:/PM:() TM:(R.WOOD) PROJECT: PATH: C:/USERSIRWOOD/DOCUMENTS/ARCGISI/NAVAJO/FIGURE_2 SITE MAP./MXD DATE SAVED: 1/8/2016 BY:RWOOD

Attachment D

Table 1 – Analytical Results and Comparison Standards

Table 1. Analytical Results and Comparison Standards

| | | | Human Health | | Aquatic Life | | MW-55 | | ED01-1119 | 15 | ED02-111' | 1915 |
|--------------------------|-------------|--------------|--------------|--------|--------------|---------|------------|---|------------|-----|------------|------|
| Analyte | CGWSL | CGWSL Source | SWQS | Source | SWQS | Source | 11/19/2015 | 5 | 11/19/2015 | | 11/19/20 | 15 |
| General Chemistry (mg/L) | | | | | | | | | | | | |
| Calcium | 1030 | Background | | | | | | | | | 3 🗖 | |
| Chloride | 5930 | Background | 6,000 | notes | | | 225 | | 580 | | 452 | |
| Fluoride | 2.95 | Background | | | | | 2.02 | | 1.22 | | 1.49 | |
| Nitrate/Nitrite | 15.1 | Background | 132 | LW | | | 4.39 | | < 0.0197 | | 0.041 | J |
| Potassium | 8.75 | Background | | | | | 0.989 | J | 5.59 | | 9.33 | |
| Sodium | 4300 | Background | | | | | 173 | 4 | 250 | | 258 | |
| Sulfate | 4410 | Background | 3,000 | notes | | | 2020 | | 745 | | 1470 | |
| TDS | 16700 | Background | 14,000 | notes | | | 3480 | | 2910 | Î | 1890 | |
| Dissolved Metals (mg/L) | | | | | | | | | | | | |
| Arsenic | 0.01 | EPA MCL | 0.009 | HH-OO | 0.15 | AL - Cr | 0.00553 | | 0.0159 | | 0.00785 | |
| Barium | 1 | WQCC HH | 2 | DWS | | | 0.0105 | | 0.0882 | - ŝ | 0.063 | |
| Cadmium | 0.005 | EPA MCL | 0.01 | Irr | 0.00028 | AL - Cr | < 0.00016 | | < 0.00016 | | < 0.00016 | 3 |
| Chromium | 0.05 | WQCC HH | 0.1 | Irr | 0.042 | AL - Cr | 0.00186 | J | 0.00109 | J | 0.00104 | J |
| Lead | 0.015 | EPA MCL | 0.1 | LW | 0.001 | AL - Cr | 0.000389 | J | 0.00143 | J | 0.00114 | J |
| Mercury | 0.0044 | Background | 0.01 | LW | 0.00077 | AL - Cr | < 0.000049 | | < 0.000049 | | < 0.000049 | 9 |
| Selenium | 0.05 | WQCC HH | 0.05 | LW | 0.005 | AL - Cr | 0.00845 | | 0.000532 | J | 0.00642 | |
| Silver | 0.05 | WQCC HH | | | 0.001 | AL - Ac | < 0.00031 | | < 0.00031 | | < 0.00031 | |
| Total Petroleum Hydrocar | bons (mg/L) | | | | | | | | | | | |
| GRO | · · · · · | | | S | | | < 0.0314 | | 1.38 | 8 | 0.0469 | J |
| DRO | 0.2 | NMED TPH | | | | | 0.356 | | 7.21 | | 2.19 | |
| ORO | 0.2 | NMED TPH | | | | | 0.108 | | 1.16 | | 0.621 | |
| Volatile Organic Carbons | (mg/L) | 2 | | | | | | | | | | |
| Benzene | 0.005 | EPA MCL | 0.51 | HH-OO | | | < 0.00019 | | 0.188 | | 0.00285 | |
| Toluene | 0.75 | WQCC HH | 15 | HH-OO | | | < 0.00018 | | 0.0192 | ĺ | 0.000574 | J |
| Ethylbenzene | 0.7 | EPA MCL | 2.1 | HH-OO | | | < 0.00016 | | 0.0158 | | 0.000669 | 1 |
| Xylenes | 0.62 | WQCC HH | | 0 | | | 0.0013 | J | 0.131 | | 0.00147 | J |

Notes:

The selected NMED surface water quality standards are based on the following designated uses, if available. Domestic water supply criteria are only used if there are no other criteria available. PERENNIAL WATERS - All perennial unclassified waters of the state.

A. Designated Uses: warmwater aquatic life, livestock watering, wildlife habitat and primary contact.

B. Criteria: the use-specific criteria in 20.6.4.900 NMAC are applicable to the designated uses.

Hardness-dependent criteria for metals are based on a hardness of 50 mg/L.

For TDS, sulfate and chloride the criteria for the Pecos River Basin were used for comparison purposes:

PECOS RIVER BASIN - The main stem of the Pecos river from the headwaters of Brantley

reservoir upstream to Salt creek (near Acme), perennial reaches of the Rio Peñasco downstream from state

highway 24 near Dunken, perennial reaches of the Rio Hondo and its tributaries below Bonney canyon and

perennial reaches of the Rio Felix.

A. Designated Uses: irrigation, livestock watering, wildlife habitat, secondary contact and

warmwater aquatic life.

Criteria: At all flows above 50 cfs: TDS 14,000 mg/L or less, sulfate 3,000 mg/L or less and chloride 6,000 mg/L or less.

| HH-OO | human health-organism only |
|---------|----------------------------|
| Irr | irrigation |
| LW | livestock watering |
| DWS | domestic water supply |
| AL - Cr | aquatic life - chronic |
| AL - Ac | aquatic life - acute |

Attachment E

Analytical Lab Report with Contractor Field Notes

Contact: Ron Wood, ARCADIS 713-953-4840



ANALYTICAL REPORT

December 02, 2015



ARCADIS US - TX

Sample Delivery Group: Samples Received: Project Number: Description:

L802348 11/20/2015 TX001155.0001.00003 Navajo Refining Company - Artesia, NM

Report To:

Pam Krueger 2929 Briarpark Dr., Suite 300 Houston, TX 77042

Entire Report Reviewed By: Chu, faph

Chris McCord Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

Received date/time

Received date/time

11/20/15 09:00

11/20/15 09:00

Collected date/time

Collected date/time 11/19/15 13:10

11/19/15 12:45

.

Τс

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Â

Sc

| | Received date | Collected date/time | Collected by | | | | |
|-----|----------------|---------------------|----------------|----------|---------------------|---|--|
| :00 | 11/20/15 09:00 | 11/19/15 10:30 | | | MW-55 L802348-01 GW | | |
| yst | Analys | Analysis | Preparation | Dilution | Batch | Method | |
| | | date/time | date/time | | | | |
| F | MF | 11/25/15 17:16 | 11/25/15 16:40 | 1 | WG831418 | Gravimetric Analysis by Method 2540 C-2011 | |
| (J | BRJ | 11/22/15 11:03 | 11/21/15 17:20 | 1 | WG830678 | Mercury by Method 7470A | |
| G | JDG | 11/24/15 14:44 | 11/24/15 09:18 | 1 | WG831296 | Metals (ICPMS) by Method 6020 | |
| F | BJF | 11/21/15 18:18 | 11/20/15 23:39 | 1 | WG830634 | Semi-Volatile Organic Compounds (GC) by Method 8015 | |
| F | HJF | 11/22/15 18:45 | 11/22/15 18:45 | 1 | WG830660 | Volatile Organic Compounds (GC) by Method 8015/8021 | |
| К | ASK | 11/30/15 16:19 | 11/30/15 16:19 | 1 | WG832327 | Wet Chemistry by Method 353.2 | |
| D | DJD | 11/24/15 15:13 | 11/24/15 15:13 | 1 | WG830779 | Wet Chemistry by Method 9056MOD | |
| D | DJD | 11/24/15 15:59 | 11/24/15 15:59 | 50 | WG830779 | Wet Chemistry by Method 9056MOD | |
| | 5 | 11/24/10 10:00 | 1/24/10 10:00 | 50 | 10050775 | were chemistry by meaned 5050mob | |

Collected by

Collected by

| ED01-111915 | L802348-02 | GW |
|-------------|------------|-----|
| | 2002010 02 | 011 |

| Method | Batch | Dilution | Preparation | Analysis | Analyst |
|---|----------|----------|----------------|----------------|---------|
| | | | date/time | date/time | |
| Gravimetric Analysis by Method 2540 C-2011 | WG831418 | 1 | 11/25/15 16:40 | 11/25/15 17:16 | MF |
| Mercury by Method 7470A | WG830678 | 1 | 11/21/15 17:20 | 11/22/15 11:06 | BRJ |
| Metals (ICPMS) by Method 6020 | WG831296 | 1 | 11/24/15 09:18 | 11/24/15 15:54 | JDG |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG830634 | 1 | 11/20/15 23:39 | 11/21/15 18:35 | BJF |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG830634 | 5 | 11/20/15 23:39 | 11/25/15 08:23 | JNS |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG830660 | 1 | 11/22/15 19:10 | 11/22/15 19:10 | HJF |
| Wet Chemistry by Method 353.2 | WG832327 | 1 | 11/30/15 16:21 | 11/30/15 16:21 | ASK |
| Wet Chemistry by Method 9056MOD | WG830779 | 1 | 11/24/15 15:28 | 11/24/15 15:28 | DJD |
| Wet Chemistry by Method 9056MOD | WG830779 | 50 | 11/24/15 16:16 | 11/24/15 16:16 | DJD |
| | | | | | |

ED-1111915 L802348-03 GW

| Method | Batch | Dilution | Preparation | Analysis | Analyst |
|---|----------|----------|----------------|----------------|---------|
| | | | date/time | date/time | |
| Gravimetric Analysis by Method 2540 C-2011 | WG831418 | 1 | 11/25/15 16:40 | 11/25/15 17:16 | MF |
| Vercury by Method 7470A | WG830678 | 1 | 11/21/15 17:20 | 11/22/15 11:08 | BRJ |
| Metals (ICPMS) by Method 6020 | WG831296 | 1 | 11/24/15 09:18 | 11/24/15 16:01 | JDG |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG830634 | 1 | 11/20/15 23:39 | 11/21/15 18:53 | BJF |
| /olatile Organic Compounds (GC) by Method 8015/8021 | WG830660 | 1 | 11/22/15 19:35 | 11/22/15 19:35 | HJF |
| Net Chemistry by Method 353.2 | WG832327 | 1 | 11/30/15 16:22 | 11/30/15 16:22 | ASK |
| Net Chemistry by Method 9056MOD | WG830779 | 1 | 11/24/15 15:43 | 11/24/15 15:43 | DJD |
| Wet Chemistry by Method 9056MOD | WG830779 | 50 | 11/24/15 16:31 | 11/24/15 16:31 | DJD |

| TRIP BLANK L802348-04 GW | | | Collected by | Collected date/time 11/19/15 13:10 | Received date/time 11/20/15 09:00 |
|---|----------|----------|----------------|---------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation | Analysis | Analyst |
| | | | date/time | date/time | |
| Volatile Organic Compounds (GC) by Method 8021B | WG830660 | 1 | 11/22/15 17:29 | 11/22/15 17:29 | BMB |

CASE NARRATIVE

2

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord Technical Service Representative

| Ср |
|-----------------|
| ² Tc |
| ³ Ss |
| ⁴ Cn |
| ⁵ Sr |
| ⁶ Qc |
| ⁷ Gl |
| ⁸ Al |
| ⁹ Sc |

Analyte

Nitrate-Nitrite

SAMPLE RESULTS - 01



Cn

Gravimetric Analysis by Method 2540 C-2011

| | | | | | | | | | 1 cm |
|------------------|-------------|-----------|------|-------|----------|------------------|----------|--|-----------------|
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | | Ср |
| Analyte | ug/l | | ug/l | ug/l | | date / time | | | 2 |
| Dissolved Solids | 3480000 | | 2820 | 10000 | 1 | 11/25/2015 17:16 | WG831418 | | Tc |
| Wet Chemistry | by Method 3 | 353.2 | | | | | | | ³ Ss |
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | | |

1

date / time

11/30/2015 16:19

WG832327

ug/l

19.7

ug/l

100

Wet Chemistry by Method 9056MOD

ug/l

4390

| nalyte ug/l ug/l date / time thloride 225000 2600 50000 50 11/24/2015 15:59 WG830779 luoride 2020 9.90 100 1 11/24/2015 15:13 WG830779 | | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|--|----------|---------|-----------|------|--------|----------|------------------|----------|
| Indication 225000 2600 50000 50 11/24/2015 15:59 WG830779 Iuoride 2020 9.90 100 1 11/24/2015 15:13 WG830779 | A | | Qualifier | | | Dilution | , | Daten |
| luoride 2020 9.90 100 1 11/24/2015 15:13 WG830779 | Analyte | ug/i | | ug/i | ug/i | | date / time | |
| | Chloride | 225000 | | 2600 | 50000 | 50 | 11/24/2015 15:59 | WG830779 |
| ulfate 2020000 3870 250000 50 11/24/2015 15:59 WG830779 | Fluoride | 2020 | | 9.90 | 100 | 1 | 11/24/2015 15:13 | WG830779 |
| | Sulfate | 2020000 | | 3870 | 250000 | 50 | 11/24/2015 15:59 | WG830779 |

Mercury by Method 7470A

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | I |
|--------------------|--------|-----------|--------|-------|----------|------------------|----------|---|
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| Mercury, Dissolved | U | | 0.0490 | 0.200 | 1 | 11/22/2015 11:03 | WG830678 | [|

Metals (ICPMS) by Method 6020

| Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|--------|--|---|--|--|---|---|
| ug/l | | ug/l | ug/l | | date / time | |
| 5.53 | | 0.250 | 2.00 | 1 | 11/24/2015 14:44 | WG831296 |
| 10.5 | | 0.360 | 5.00 | 1 | 11/24/2015 14:44 | WG831296 |
| U | | 0.160 | 1.00 | 1 | 11/24/2015 14:44 | WG831296 |
| 447000 | 4 | 46.0 | 1000 | 1 | 11/24/2015 14:44 | WG831296 |
| 1.86 | J | 0.540 | 2.00 | 1 | 11/24/2015 14:44 | WG831296 |
| 0.389 | J | 0.240 | 2.00 | 1 | 11/24/2015 14:44 | WG831296 |
| 989 | J | 37.0 | 1000 | 1 | 11/24/2015 14:44 | WG831296 |
| 8.45 | | 0.380 | 2.00 | 1 | 11/24/2015 14:44 | WG831296 |
| U | | 0.310 | 2.00 | 1 | 11/24/2015 14:44 | WG831296 |
| 173000 | 4 | 110 | 1000 | 1 | 11/24/2015 14:44 | WG831296 |
| | ug/l 5.53 10.5 U 447000 1.86 0.389 989 8.45 U | ug/l 5.53 10.5 U 447000 <u>4</u> 1.86 J 0.389 J 989 J 8.45 U | ug/l ug/l 5.53 0.250 10.5 0.360 U 0.160 447000 4 46.0 1.86 J 0.540 0.389 J 989 J 37.0 8.45 0.380 U 0.310 | ug/l ug/l ug/l 5.53 0.250 2.00 10.5 0.360 5.00 U 0.160 1.00 447000 4 46.0 1000 1.86 J 0.540 2.00 0.389 J 0.240 2.00 989 J 37.0 1000 8.45 0.380 2.00 2.00 | ug/l ug/l ug/l 5.53 0.250 2.00 1 10.5 0.360 5.00 1 U 0.160 1.00 1 447000 4 46.0 1000 1 1.86 J 0.540 2.00 1 0.389 J 0.240 2.00 1 989 J 37.0 1000 1 8.45 0.380 2.00 1 1 | ug/l ug/l ug/l date / time 5.53 0.250 2.00 1 11/24/2015 14:44 10.5 0.360 5.00 1 11/24/2015 14:44 U 0.160 1.00 1 11/24/2015 14:44 447000 4 46.0 1000 1 11/24/2015 14:44 1.86 J 0.540 2.00 1 11/24/2015 14:44 0.389 J 0.240 2.00 1 11/24/2015 14:44 989 J 37.0 1000 1 11/24/2015 14:44 8.45 0.380 2.00 1 11/24/2015 14:44 U 0.310 2.00 1 11/24/2015 14:44 |

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------|---------|-----------|-------|----------|----------|------------------|-----------------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | U | | 0.190 | 0.500 | 1 | 11/22/2015 18:45 | WG830660 |
| Toluene | U | | 0.180 | 5.00 | 1 | 11/22/2015 18:45 | <u>WG830660</u> |
| Ethylbenzene | U | | 0.160 | 0.500 | 1 | 11/22/2015 18:45 | WG830660 |
| Total Xylene | 1.30 | J | 0.510 | 1.50 | 1 | 11/22/2015 18:45 | <u>WG830660</u> |
| TPH (GC/FID) Low Fraction | U | | 31.4 | 100 | 1 | 11/22/2015 18:45 | WG830660 |
| (S) a,a,a-Trifluorotoluene(Fl | D) 94.9 | | | 62.0-128 | | 11/22/2015 18:45 | <u>WG830660</u> |
| (S) a,a,a-Trifluorotoluene(Pl | D) 101 | | | 55.0-122 | | 11/22/2015 18:45 | WG830660 |

Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|------|----------|----------|------------------|----------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| C10-C28 Diesel Range | 356 | | 22.2 | 100 | 1 | 11/21/2015 18:18 | WG830634 |
| C28-C40 Oil Range | 108 | | 11.8 | 100 | 1 | 11/21/2015 18:18 | WG830634 |
| (S) o-Terphenyl | 107 | | | 50.0-150 | | 11/21/2015 18:18 | WG830634 |

| ACCOUNT: | |
|-----------------|--|
| ARCADIS US - TX | |

PROJECT: TX001155.0001.00003 SDG: L802348

SAMPLE RESULTS - 02 L802348



Sc

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|--|--|---------------------|-----------------------------|-----------------------------|---------------------|---|-------------------------------|--|
| Analyte | ug/l | | ug/l | ug/l | | date / time | — | |
| Dissolved Solids | 2910000 | | 2820 | 10000 | 1 | 11/25/2015 17:16 | WG831418 | |
| Wet Chemistry | y by Method 3 | 53.2 | | | | | | |
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| king a king n | | | | | | | | |
| Nitrate-Nitrite | U | | 19.7 | 100 | 1 | 11/30/2015 16:21 | <u>WG832327</u> | |
| | u ry by Method 9 Result | 056MOD Qualifier | 19.7 MDL | 100 RDL | 1 Dilution | 11/30/2015 16:21 Analysis | WG832327 Batch | |
| | y by Method 9 | | | | 1 Dilution | | | |
| Wet Chemistry | ry by Method 9 Result | | MDL | RDL | 1 Dilution 50 | Analysis | | |
| Wet Chemistry Analyte | y by Method 9 Result ug/l | | MDL ug/l | RDL ug/l | | Analysis date / time | Batch | |
| Wet Chemistry Analyte Chloride Fluoride | y by Method 9 Result ug/l 580000 | | MDL ug/I 2600 | RDL ug/l 50000 | | Analysis date / time 11/24/2015 16:16 | Batch WG830779 | |
| Wet Chemistry Analyte Chloride | ry by Method 9 Result ug/l 580000 1220 745000 | | MDL ug/l 2600 9.90 | RDL ug/l 50000 100 | 50 1 | Analysis date / time 11/24/2015 16:16 11/24/2015 15:28 | Batch WG830779 WG830779 | |

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date / time

11/22/2015 11:06

WG830678

Metals (ICPMS) by Method 6020

ug/l

U

Analyte

Mercury, Dissolved

| . , | - | | | | | | | |
|----------------------|--------|-----------|-------|------|----------|------------------|----------|--|
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| Arsenic,Dissolved | 15.9 | | 0.250 | 2.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Barium, Dissolved | 88.2 | | 0.360 | 5.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Cadmium,Dissolved | U | | 0.160 | 1.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Calcium,Dissolved | 420000 | | 46.0 | 1000 | 1 | 11/24/2015 15:54 | WG831296 | |
| Chromium,Dissolved | 1.09 | J | 0.540 | 2.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Lead, Dissolved | 1.43 | J | 0.240 | 2.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Potassium, Dissolved | 5590 | | 37.0 | 1000 | 1 | 11/24/2015 15:54 | WG831296 | |
| Selenium,Dissolved | 0.532 | Ţ | 0.380 | 2.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Silver,Dissolved | U | | 0.310 | 2.00 | 1 | 11/24/2015 15:54 | WG831296 | |
| Sodium,Dissolved | 250000 | | 110 | 1000 | 1 | 11/24/2015 15:54 | WG831296 | |
| | | | | | | | | |

ug/l

0.200

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

ug/l

0.0490

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------|---------|-----------|-------|----------|----------|------------------|-----------------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 188 | | 0.190 | 0.500 | 1 | 11/22/2015 19:10 | WG830660 |
| Toluene | 19.2 | | 0.180 | 5.00 | 1 | 11/22/2015 19:10 | <u>WG830660</u> |
| Ethylbenzene | 15.8 | | 0.160 | 0.500 | 1 | 11/22/2015 19:10 | WG830660 |
| Total Xylene | 131 | | 0.510 | 1.50 | 1 | 11/22/2015 19:10 | WG830660 |
| TPH (GC/FID) Low Fraction | 1380 | | 31.4 | 100 | 1 | 11/22/2015 19:10 | WG830660 |
| (S) a,a,a-Trifluorotoluene(Fl | D) 97.6 | | | 62.0-128 | | 11/22/2015 19:10 | WG830660 |
| (S) a,a,a-Trifluorotoluene(Pl | D) 104 | | | 55.0-122 | | 11/22/2015 19:10 | WG830660 |

Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|------|----------|----------|------------------|----------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| C10-C28 Diesel Range | 7210 | | 111 | 500 | 5 | 11/25/2015 08:23 | WG830634 |
| C28-C40 Oil Range | 1160 | | 11.8 | 100 | 1 | 11/21/2015 18:35 | WG830634 |
| (S) o-Terphenyl | 120 | | | 50.0-150 | | 11/21/2015 18:35 | WG830634 |

PROJECT: TX001155.0001.00003

SDG: L802348

SAMPLE RESULTS - 03 L802348

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|----------------------------------|---|-----------|---------------------|--------------------|---------------------|---|---------------------------------|--|
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| Dissolved Solids | 1890000 | | 2820 | 10000 | 1 | 11/25/2015 17:16 | WG831418 | |
| Net Chemistry | v by Method 3 | 53.2 | | | | | | |
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
| | | | | | | | | |
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| Analyte Nitrate-Nitrite | ug/l 41.0 | J | ug/l 19.7 | ug/l 100 | 1 | date / time 11/30/2015 16:22 | WG832327 | |
| | 41.0 | | - | _ | 1 | | <u>WG832327</u> | |
| litrate-Nitrite | 41.0 | | - | _ | 1 Dilution | | <u>W6832327</u> <u>Batch</u> | |
| litrate-Nitrite | 41.0 / by Method 9 | 056MOD | 19.7 | 100 | 1 Dilution | 11/30/2015 16:22 | | |
| Nitrate-Nitrite Wet Chemistry | 41.0 7 by Method 9 Result | 056MOD | 19.7 MDL | 100 RDL | 1 Dilution 50 | 11/30/2015 16:22 Analysis | | |
| Vitrate-Nitrite Wet Chemistry | 41.0 7 by Method 9 Result ug/l | 056MOD | 19.7 MDL ug/l | 100 RDL ug/l | | 11/30/2015 16:22 Analysis date / time | Batch | |

Mercury by Method 7470A

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|-------------------|--------|-----------|--------|-------|----------|------------------|-----------------|--|
| Analyte | ug/l | | ug/l | ug/l | | date / time | | |
| Mercury,Dissolved | U | | 0.0490 | 0.200 | 1 | 11/22/2015 11:08 | <u>WG830678</u> | |

Metals (ICPMS) by Method 6020

| | Dentil | 0 1:0 | MDI | DDI | Dilli | A | D. L.L. |
|----------------------|--------|-----------|-------|------|----------|------------------|----------|
| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| Arsenic,Dissolved | 7.85 | | 0.250 | 2.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Barium, Dissolved | 63.0 | | 0.360 | 5.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Cadmium,Dissolved | U | | 0.160 | 1.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Calcium,Dissolved | 377000 | | 46.0 | 1000 | 1 | 11/24/2015 16:01 | WG831296 |
| Chromium,Dissolved | 1.04 | J | 0.540 | 2.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Lead, Dissolved | 1.14 | J | 0.240 | 2.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Potassium, Dissolved | 9330 | | 37.0 | 1000 | 1 | 11/24/2015 16:01 | WG831296 |
| Selenium,Dissolved | 6.42 | | 0.380 | 2.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Silver,Dissolved | U | | 0.310 | 2.00 | 1 | 11/24/2015 16:01 | WG831296 |
| Sodium,Dissolved | 258000 | | 110 | 1000 | 1 | 11/24/2015 16:01 | WG831296 |
| | | | | | | | |

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|-------------------------------|----------|-----------|-------|----------|----------|------------------|----------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| Benzene | 2.85 | | 0.190 | 0.500 | 1 | 11/22/2015 19:35 | WG830660 |
| Toluene | 0.574 | J | 0.180 | 5.00 | 1 | 11/22/2015 19:35 | WG830660 |
| Ethylbenzene | 0.669 | | 0.160 | 0.500 | 1 | 11/22/2015 19:35 | WG830660 |
| Total Xylene | 1.47 | J | 0.510 | 1.50 | 1 | 11/22/2015 19:35 | WG830660 |
| TPH (GC/FID) Low Fraction | 46.9 | J | 31.4 | 100 | 1 | 11/22/2015 19:35 | WG830660 |
| (S) a,a,a-Trifluorotoluene(Fl | D) 94.5 | | | 62.0-128 | | 11/22/2015 19:35 | WG830660 |
| (S) a,a,a-Trifluorotoluene(Pl | ID) 99.6 | | | 55.0-122 | | 11/22/2015 19:35 | WG830660 |

Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|----------------------|--------|-----------|------|----------|----------|------------------|----------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | |
| C10-C28 Diesel Range | 2190 | | 22.2 | 100 | 1 | 11/21/2015 18:53 | WG830634 |
| C28-C40 Oil Range | 621 | | 11.8 | 100 | 1 | 11/21/2015 18:53 | WG830634 |
| (S) o-Terphenyl | 107 | | | 50.0-150 | | 11/21/2015 18:53 | WG830634 |

SAMPLE RESULTS - 04

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Volatile Organic Compounds (GC) by Method 8015/8021/8021B

| | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | Ср |
|-------------------------|---------------|-----------|-------|----------|----------|------------------|----------|-----------------|
| Analyte | ug/l | | ug/l | ug/l | | date / time | | 2 |
| Benzene | U | | 0.190 | 0.500 | 1 | 11/22/2015 17:29 | WG830660 | Tc |
| Toluene | U | | 0.180 | 5.00 | 1 | 11/22/2015 17:29 | WG830660 | |
| Ethylbenzene | U | | 0.160 | 0.500 | 1 | 11/22/2015 17:29 | WG830660 | ³ Ss |
| Total Xylene | U | | 0.510 | 1.50 | 1 | 11/22/2015 17:29 | WG830660 | |
| (S) a,a,a-Trifluorotolu | iene(PID) 101 | | | 55.0-122 | | 11/22/2015 17:29 | WG830660 | ⁴ Cr |

WG831418

Gravimetric Analysis by Method 2540 C-2011

QUALITY CONTROL SUMMARY

Method Blank (MB)

| (MB) 11/25/15 17:16 | | | | | |
|---------------------|-----------|--------------|--------|--------|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | |
| Analyte | mg/l | | mg/l | mg/l | |
| Dissolved Solids | U | | 2.82 | 10.0 | |

L802348-01 Original Sample (OS) • Duplicate (DUP)

| (OS) 11/25/15 17:16 • (DUP) 11/25 | /15 17:16 | | | | | |
|-----------------------------------|--------------|----------------|----------|---------|---------------|----------------|
| | Original Res | ult DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Analyte | mg/l | mg/l | | % | | % |
| Dissolved Solids | 3480 | 3590 | 1 | 3.26 | | 5 |

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/25/15 17:16 • (LCSD) 11/25/1 | 15 17:16 | | | | | | | | | |
|---------------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| Dissolved Solids | 8800 | 8720 | 8610 | 99.1 | 97.8 | 85.0-115 | | | 1.27 | 5 |

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Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY L802348-01,02,03

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Method Blank (MB)

| (MB) 11/30/15 16:08 | | | | | | |
|---------------------|-----------|--------------|--------|--------|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | |
| Analyte | mg/l | | mg/l | mg/l | | |
| Nitrate-Nitrite | U | | 0.0197 | 0.100 | | |

L802348-01 Original Sample (OS) • Duplicate (DUP)

| (OS) 11/30/15 16:19 • (DUP) 11/30/15 | 5 16:20 | | | | | |
|--------------------------------------|-----------------|--------------|----------|---------|---------------|----------------|
| | Original Result | t DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Analyte | mg/l | mg/l | | % | | % |
| Nitrate-Nitrite | 4.39 | 4.34 | 1 | 1.00 | | 20 |

L802480-01 Original Sample (OS) - Duplicate (DUP)

| L802480-01 Original Sa | mple (OS) • | Duplicate | (DUP) | | | | 7 |
|-------------------------------------|-----------------|------------|----------|---------|---------------|----------------|-----------------|
| (OS) 11/30/15 16:36 • (DUP) 11/30/1 | 5 16:37 | | | | | | GI |
| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits | |
| Analyte | mg/l | mg/l | | % | | % | ⁸ Al |
| Nitrate-Nitrite | 0.162 | 0.157 | 1 | 3.00 | | 20 | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/30/15 16:11 • (LCSD) 11/30/ | LCS) 11/30/15 16:11 • (LCSD) 11/30/15 16:12 | | | | | | | | | | |
|--------------------------------------|---|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % | |
| Nitrate-Nitrite | 5.00 | 4.73 | 4.82 | 95.0 | 96.0 | 90.0-110 | | | 2.00 | 20 | |

L802392-01 Original Sample (OS) • Matrix Spike (MS)

| (OS) 11/30/15 16:23 • (MS) 11/30/15 | (OS) 11/30/15 16:23 • (MS) 11/30/15 16:24 | | | | | | | | | | | |
|-------------------------------------|---|--------------------|-----------|---------|----------|-------------|--------------|--|--|--|--|--|
| | Spike Amou | nt Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier | | | | | |
| Analyte | mg/l | mg/l | mg/l | % | | % | | | | | | |
| Nitrate-Nitrite | 5.00 | 1.93 | 6.97 | 101 | 1 | 90.0-110 | | | | | | |

| ACCOUNT: | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|
| ARCADIS US - TX | | | | | | | | |

PROJECT: TX001155.0001.00003

SDG: L802348

DATE/TIME: 12/02/15 10:19 PAGE: 10 of 23

Wet Chemistry by Method 353.2

QUALITY CONTROL SUMMARY

L802480-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/30/15 16:39 • (MS) 11/30/ | (OS) 11/30/15 16:39 • (MS) 11/30/15 16:40 • (MSD) 11/30/15 16:41 | | | | | | | | | | | | |
|-----------------------------------|--|---------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|--|
| | Spike Amo | unt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % | |
| Nitrate-Nitrite | 5.00 | 6.08 | 11.0 | 11.0 | 98.0 | 98.0 | 1 | 90.0-110 | | | 0.000 | 20 | |

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ACCOUNT: ARCADIS US - TX PROJECT: TX001155.0001.00003 SDG: L802348 DATE/TIME: 12/02/15 10:19 PAGE: 11 of 23 Wet Chemistry by Method 9056MOD

QUALITY CONTROL SUMMARY

| (MB) 11/24/15 07:42 | | | | | |
|---------------------|-----------|--------------|--------|--------|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | |
| Analyte | mg/l | | mg/l | mg/l | |

| Analyte | mg/l | mg/l | mg/l |
|----------|--------|--------|-------|
| Chloride | 0.0916 | 0.0519 | 1.00 |
| Fluoride | U | 0.0099 | 0.100 |
| Sulfate | U | 0.0774 | 5.00 |

L801979-01 Original Sample (OS) • Duplicate (DUP)

| (OS) 11/24/15 10:51 • (DUP) 11/24/15 | 11:06 | | | | | |
|--------------------------------------|-----------------|------------|----------|---------|---------------|----------------|
| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Analyte | mg/l | mg/l | | % | | % |
| Chloride | 79.7 | 79.7 | 10 | 0 | | 20 |
| Fluoride | 0.491 | 0.496 | 10 | 1 | | 20 |
| Sulfate | 422 | 422 | 10 | 0 | | 20 |

L802323-07 Original Sample (OS) • Duplicate (DUP)

| (OS) 11/24/15 14:26 • (DUP) 11/24/15 | DS) 11/24/15 14:26 • (DUP) 11/24/15 14:42 | | | | | | | | | | | |
|--------------------------------------|---|------------|----------|---------|---------------|----------------|--|--|--|--|--|--|
| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits | | | | | | |
| Analyte | mg/l | mg/l | | % | | % | | | | | | |
| Chloride | 36.4 | 36.4 | 10 | 0 | | 20 | | | | | | |
| Fluoride | 0.261 | 0.248 | 10 | 5 | | 20 | | | | | | |
| Sulfate | 110 | 109 | 10 | 0 | | 20 | | | | | | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| _CS) 11/24/15 07:58 • (LCSD) 11/24/15 08:13 | | | | | | | | | | | |
|---|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-----|------------|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % | |
| Chloride | 40.0 | 39.8 | 39.9 | 100 | 100 | 90-110 | | | 0 | 20 | |
| Fluoride | 8.00 | 7.98 | 7.99 | 100 | 100 | 90-110 | | | 0 | 20 | |
| Sulfate | 40.0 | 40.1 | 40.2 | 100 | 100 | 90-110 | | | 0 | 20 | |

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PROJECT: TX001155.0001.00003 SDG: L802348

QUALITY CONTROL SUMMARY

L801999-04 Original Sample (OS) • Matrix Spike (MS)

(OS) 11/24/15 11:21 • (MS) 11/24/15 11:37

| (, | | nt Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|----------|-------|--------------------|-----------|---------|----------|-------------|--------------|
| Analyte | mg/l | mg/l | mg/l | % | | % | |
| Chloride | 5.00 | 378 | 862 | 97 | 10 | 80-120 | |
| Fluoride | 0.500 | 0.668 | 50.8 | 100 | 10 | 80-120 | |
| Sulfate | 5.00 | 207 | 691 | 97 | 10 | 80-120 | |

L802323-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/24/15 13:40 • (MS) 11/24/15 13:55 • (MSD) 11/24/15 14:11 | | | | | | | | | | | | |
|--|------------------------------|-------|-----------|------------|---------|----------|---------------|-------------|----------------------------|--|-----|------------|
| | Spike Amount Original Result | | MS Result | MSD Result | MS Rec. | MSD Rec. | Rec. Dilution | Rec. Limits | MS Qualifier MSD Qualifier | | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Chloride | 5.00 | 17.2 | 509 | 509 | 98 | 98 | 10 | 80-120 | | | 0 | 20 |
| Fluoride | 0.500 | 0.424 | 50.7 | 50.9 | 101 | 101 | 10 | 80-120 | | | 0 | 20 |
| Sulfate | 5.00 | 539 | 1030 | 1030 | 97 | 97 | 10 | 80-120 | | | 0 | 20 |

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Mercury by Method 7470A

QUALITY CONTROL SUMMARY

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Method Blank (MB)

| (MB) 11/22/15 10:19 | | | | |
|---------------------|-----------|--------------|----------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | mg/l |
| Mercury, Dissolved | U | | 0.000049 | 0.000200 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/22/15 10:22 • (LCSD) 11/22/ | /15 10:24 | | | | | | | | | |
|--------------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-----|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| Mercury, Dissolved | 0.00300 | 0.00260 | 0.00245 | 87 | 82 | 80-120 | | | 6 | 20 |

L802534-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/22/15 10:46 • (MS) 11/22/1 | 5 10:48 • (MSE | 0) 11/22/15 10:51 | | | | | | | | | | |
|------------------------------------|----------------|--------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-----|------------|
| | Spike Amou | nt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Mercury, Dissolved | 0.00300 | 0.00000972 | 0.00281 | 0.00285 | 93 | 95 | 1 | 75-125 | | | 2 | 20 |

Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY L802348-01,02,03

| (MB) 11/24/15 15:33 | | | |
|----------------------|---------------------|-------------|---------|
| | MB Result MB Qualit | fier MB MDL | MB RDL |
| Analyte | mg/l | mg/l | mg/l |
| Arsenic, Dissolved | U | 0.00025 | 0.00200 |
| Barium,Dissolved | U | 0.00036 | 0.00500 |
| Cadmium, Dissolved | U | 0.00016 | 0.00100 |
| Calcium,Dissolved | U | 0.046 | 1.00 |
| Chromium,Dissolved | 0.000714 | 0.00054 | 0.00200 |
| Lead,Dissolved | 0.000284 | 0.00024 | 0.00200 |
| Potassium, Dissolved | 0.0441 | 0.037 | 1.00 |
| Selenium,Dissolved | U | 0.00038 | 0.00200 |
| Silver,Dissolved | U | 0.00031 | 0.00200 |
| Sodium,Dissolved | U | O.11 | 1.00 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/24/15 14:39 • (LCSD) 11/24 | 4/15 14:41 | | | | | | | | | |
|-------------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-----|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| Arsenic,Dissolved | 0.0500 | 0.0528 | 0.0503 | 106 | 101 | 80-120 | | | 5 | 20 |
| Barium, Dissolved | 0.0500 | 0.0490 | 0.0501 | 98 | 100 | 80-120 | | | 2 | 20 |
| Cadmium, Dissolved | 0.0500 | 0.0556 | 0.0519 | 111 | 104 | 80-120 | | | 7 | 20 |
| Calcium, Dissolved | 5.00 | 4.91 | 5.19 | 98 | 104 | 80-120 | | | 6 | 20 |
| Chromium, Dissolved | 0.0500 | 0.0530 | 0.0517 | 106 | 103 | 80-120 | | | 3 | 20 |
| Lead, Dissolved | 0.0500 | 0.0507 | 0.0503 | 101 | 101 | 80-120 | | | 1 | 20 |
| Potassium, Dissolved | 5.00 | 4.87 | 4.97 | 97 | 99 | 80-120 | | | 2 | 20 |
| Selenium,Dissolved | 0.0500 | 0.0506 | 0.0509 | 101 | 102 | 80-120 | | | 1 | 20 |
| Silver, Dissolved | 0.0500 | 0.0510 | 0.0511 | 102 | 102 | 80-120 | | | 0 | 20 |
| Sodium, Dissolved | 5.00 | 5.34 | 5.68 | 107 | 114 | 80-120 | | | 6 | 20 |

L802348-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/24/15 14:44 • (MS) 11/24/15 14:53 • (MSD) 11/24/15 14:55 | | | | | | | | | | | | |
|--|------------|--------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-----|------------|
| | Spike Amou | nt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Arsenic, Dissolved | 0.0500 | 0.00553 | 0.0603 | 0.0619 | 110 | 113 | 1 | 75-125 | | | 3 | 20 |
| Barium, Dissolved | 0.0500 | 0.0105 | 0.0589 | 0.0601 | 97 | 99 | 1 | 75-125 | | | 2 | 20 |
| Cadmium, Dissolved | 0.0500 | 0.0000293 | 0.0546 | 0.0559 | 109 | 112 | 1 | 75-125 | | | 2 | 20 |

PROJECT: TX001155.0001.00003

SDG: L802348

DATE/TIME: 12/02/15 10:19 PAGE: 15 of 23

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Metals (ICPMS) by Method 6020

QUALITY CONTROL SUMMARY

L802348-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 11/24/15 14:44 • (MS) 11/24/15 14:53 • (MSD) 11/24/15 14:55

| () = | | | | | | | | | | | 101212-0012 | |
|----------------------|------------|--------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-------------|------------|
| | Spike Amou | nt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Calcium,Dissolved | 5.00 | 447 | 437 | 438 | 0 | 0 | 1 | 75-125 | 4 | 4 | 0 | 20 |
| Chromium,Dissolved | 0.0500 | 0.00186 | 0.0507 | 0.0504 | 98 | 97 | 1 | 75-125 | | | 0 | 20 |
| Potassium, Dissolved | 5.00 | 0.989 | 5.49 | 5.45 | 90 | 89 | 1 | 75-125 | | | 1 | 20 |
| Lead, Dissolved | 0.0500 | 0.000389 | 0.0483 | 0.0490 | 96 | 97 | 1 | 75-125 | | | 1 | 20 |
| Selenium,Dissolved | 0.0500 | 0.00845 | 0.0591 | 0.0591 | 101 | 101 | 1 | 75 125 | | | 0 | 20 |
| Silver, Dissolved | 0.0500 | 0.000110 | 0.0490 | 0.0493 | 98 | 98 | 1 | 75-125 | | | 1 | 20 |
| Sodium,Dissolved | 5.00 | 173 | 173 | 176 | 0 | 55 | 1 | 75-125 | 4 | 4 | 2 | 20 |
| | | | | | | | | | | | | |

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SDG: L802348 DATE/TIME: 12/02/15 10:19 PAGE: 16 of 23

WG830660

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

QUALITY CONTROL SUMMARY L802348-01,02,03,04

| (MB) 11/22/15 17:03 | | | | | Ľ |
|---------------------------------|-----------|--------------|----------|----------|----|
| | MB Result | MB Qualifier | MB MDL | MB RDL | 2_ |
| Analyte | mg/l | | mg/l | mg/l | T |
| Benzene | U | | 0.000190 | 0.000500 | |
| Toluene | 0.000458 | | 0.000180 | 0.00500 | 3 |
| Ethylbenzene | U | | 0.000160 | 0.000500 | Ĺ |
| Total Xylene | U | | 0.000510 | 0.00150 | 4 |
| TPH (GC/FID) Low Fraction | U | | 0.0314 | 0.100 | |
| (S) a,a,a-Trifluorotoluene(FID) | 95.4 | | | 62.0-128 | |
| (S) a,a,a-Trifluorotoluene(PID) | 101 | | | 55.0-122 | 5 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/22/15 15:00 • (LCSD) 11/ | 22/15 15:25 | | | | | | | | | | |
|-----------------------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|--------|------------|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % | |
| Benzene | 0.0500 | 0.0487 | 0.0487 | 97.5 | 97.4 | 70.0-130 | | | 0.0400 | 20 | |
| Toluene | 0.0500 | 0.0452 | 0.0446 | 90.4 | 89.2 | 70.0-130 | | | 1.40 | 20 | |
| Ethylbenzene | 0.0500 | 0.0471 | 0.0467 | 94.3 | 93.4 | 70.0-130 | | | 0.940 | 20 | |
| Total Xylene | 0.150 | 0.142 | 0.141 | 95.0 | 93.8 | 70.0-130 | | | 1.29 | 20 | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | 101 | 101 | 55.0-122 | | | | | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/22/15 15:49 • (LCSD) 11/22/15 16:14 | | | | | | | | | | |
|--|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| TPH (GC/FID) Low Fraction | 5.50 | 5.60 | 5.89 | 102 | 107 | 67.0-132 | | | 5.09 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 105 | 105 | 62.0-128 | | | | |

L802348-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

ACCOUNT:

ARCADIS US -

| (OS) 11/22/15 18:45 • (MS) 11/22/15 22:32 • (MSD) 11/22/15 22:57 | | | | | | | | | | | | |
|--|------------|--------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | Spike Amou | nt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Benzene | 0.0500 | ND | 0.0472 | 0.0487 | 94.5 | 97.5 | 1 | 57.2-131 | | | 3.14 | 20 |
| Toluene | 0.0500 | ND | 0.0431 | 0.0443 | 86.2 | 88.6 | 1 | 63.7-134 | | | 2.73 | 20 |
| Ethylbenzene | 0.0500 | ND | 0.0454 | 0.0469 | 90.9 | 93.8 | 1 | 67.5-135 | | | 3.23 | 20 |

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|------|---------------------|---------|----------------|
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Volatile Organic Compounds (GC) by Method 8015/8021/8021B

QUALITY CONTROL SUMMARY

L802348-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/22/15 18:45 • (MS) 11/22/15 22:32 • (MSD) 11/22/15 22 | 2:57 | 2:5 | 22 | į | 15 | 2/ | 22 | 1/: | 1 | D) | SC | S | M | () | ٠ | 32 | 2:3 | 2 | /15 | 2 | /2 | 11/ | 5) | N. | (1 | ٠ | 15 | 18:4 | 15 | 22/ | 11/2 |)S) | (C | |
|---|------|-----|----|---|----|----|----|-----|---|----|----|---|---|----|---|----|-----|---|-----|---|----|-----|----|----|----|---|----|------|----|-----|------|-----|----|--|
|---|------|-----|----|---|----|----|----|-----|---|----|----|---|---|----|---|----|-----|---|-----|---|----|-----|----|----|----|---|----|------|----|-----|------|-----|----|--|

| | (| / | | | | | | | | | | |
|---------------------------------|-----------|---------------------|-----------|------------|---------|----------|----------|-------------|---------------------|---------------|------|------------|
| | Spike Amo | unt Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Total Xylene | 0.150 | 0.00130 | 0.136 | 0.140 | 90.0 | 92.4 | 1 | 65.9-138 | | | 2.62 | 20 |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 99.6 | 99.7 | | 55.0-122 | | | | |

L802348-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) 11/22/15 18:45 • (MS) 11/22/1 | 15 23:22 • (M | SD) 11/22/15 23:47 | | | | | | | | | | |
|------------------------------------|---------------|----------------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | Spike Amo | ount Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| TPH (GC/FID) Low Fraction | 5.50 | ND | 5.22 | 5.70 | 94.8 | 104 | 1 | 50.0-143 | | | 8.97 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 97.1 | 98.4 | | 62.0-128 | | | | |

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Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

Method Blank (MB)

| (MB) 11/21/15 17:08 | | | | |
|----------------------|-----------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/l | | mg/l | mg/l |
| C10-C28 Diesel Range | U | | 0.0222 | 0.100 |
| C28-C40 Oil Range | U | | 0.0118 | 0.100 |
| (S) o-Terphenyl | 110 | | | 50.0-150 |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) 11/21/15 17:26 • (LCSD) 11 | 1/21/15 17:43 | | | | | | | | | |
|----------------------------------|---------------|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/l | mg/l | mg/l | % | % | % | | | % | % |
| C10-C28 Diesel Range | 1.50 | 1.46 | 1.43 | 97.2 | 95.3 | 70.0-130 | | | 1.95 | 20 |
| (S) o-Terphenyl | | | | 117 | 109 | 50.0-150 | | | | |

GLOSSARY OF TERMS

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Ss

Cn

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Qc

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| Abbreviations | and Definitions | |
|---------------|-----------------|--|
|---------------|-----------------|--|

| SDG | Sample Delivery Group. |
|-----------------|--|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| ND,U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |
| SDL | Sample Detection Limit. |
| MQL | Method Quantitation Limit. |
| Unadj. MQL | Unadjusted Method Quantitation Limit. |
| | |

| Qualifier | Description |
|-----------|--|
| 4 | The sample concentration was greater than 4 times the spike value. |
| J | Estimated value. |

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|---------|------|------|
| ARCADIS | US · | - тх |

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

State Accreditations

| Alabama | 40660 | Nevada | TN-03-2002-34 |
|-----------------------|-------------|-----------------------------|-------------------|
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey-NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina ¹ | DW21704 |
| Florida | E87487 | North Carolina ² | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia ¹ | 923 | Ohio-VAP | CL0069 |
| daho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| owa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky ¹ | 90010 | South Dakota | n/a |
| Kentucky ² | 16 | Tennessee ¹⁴ | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

Third Party & Federal Accreditations

| A2LA – ISO 17025 | 1461.01 | AIHA | 100789 | |
|-------------------------------|---------|------|---------|--|
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 | |
| Canada | 1461.01 | USDA | S-67674 | |
| EPA-Crypto | TN00003 | | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



SDG:

L802348

| PROJECT: |
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| TX001155.0001.00003 |
| |

DATE/TIME:

12/02/15 10:19

| Billing Information: | | | | | | | 100 | | Anal | lysis / Cc | I | r / Preser | vative | | | 1 | The | Page_of_ |
|--|---|---------------------|---|------------------------------|-------------------|-----------|----------------|------------------------------|-----------------------|---------------------|-----------------|------------------------|------------------|------------|--|----------|--|--|
| RCADIS US - TX 29 Briarpark Dr. lite 300 buston, TX 77042 | | | Attn: Accounts Payable 630 Plaza Drive, Suite 600 Highlands Ranch, CO 80129 | | | | | | | Polynowski wa singe | | | | | - An Altered | 12 M | YOUR LAP 12065 Lebanon Rd Mount Juliet, TN 3 Phone: 615-758-58 | 37122 |
| ort to: m Krueger | | | | m.krueger@arcadis | | | | | | oPres | | | | | | Pł | Phone: 800-767-58 Fax: 615-758-5859 | 9 • |
| ject scription: Navajo Refining Com | ipany - Artesi | a, NM | | City/State Collected: | | 1 | | Pres | -87 | DPE-N | | 04 | | | | | 1# 302 | 378 2081 |
| one: 713-953-4800 | Client Project # TX001155.00 | | | Lab Project # ARCADHTX-NA | AVAJORUSH | | | PE-Not | hb-HC | 500mIHDPE-NoPres | | E-H2S | Pres | | | | T L | a station |
| ix: ollected by (print): | Site/Facility ID # | 8 | | P.O. # | | | IDH-I | cl, Fl, SO4 125mlHDPE-NoPres | 40mIAmb-HCI-BT | als 500 | DH CI | NO2NO3 250mlHDPE-H2SO4 | 250mlHDPE-NoPres | H IS | | area a | Template:T1 Prelogin: P5 | 107511 |
| ollected by (signature): | Rush? (Lal | ab MUST Be N Day | | | esults Needed | 1 | 40mlAmb-HCl | 4 125 | 11VI 41 | d Met | mlArnl | 3 2501 | ImiHD | (Net. | | | Prelogin: P5 TSR: 526 - Ch PB: 1-18 | hris McCord |
| mmediately | Same Da Next Day Two Day Three Day | ay | | Email?N FAX?N | No X_Yes NoYes | No. of | 5X 40n | FI, SO | DROOROLVI | Dissolved Metals | GRO 40mlAmb HCI | D2NO. | TDS 250 | Total | | 1 | Shipped Via: | : FedEX Priorit |
| Packed on Ice N Y Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | Cntrs | | 1.1 | and the second second | | x GR | N X | X TD | X | | | Rem./Contamir | |
| MW-55 | 6 | GW | | 11/19/15 | | 17 31 | Contraction of | X | X X | x | X | X | X | X | | | | 6 |
| EDDI-111915 | 6 | GW | 1 | 11/19/15 | 1 | - 12 C | COLUMN TWO IS | x | X | X | X | x | X | X | | | | ó |
| ED01-111915 | 6 | GW | 1- | 11/19/15 | 1310 | 17 11 | 1000000000 | x | x | X | X | X | X | X | | | and the second | |
| | | GW | | | 1 1 1 | 1.1 | | * | ^ | | 1 | 2.18 | | 1 | | 1 | 100 20 20 20 | 61 |
| Trip Blent | e - Burr Berley Arth | 1 | - | | 1 | 1 | T | | | 蔀 | 1 | 16 14 | - arran | T | | 1 | · Partie | the state of the s |
| Trip Diener | | <u>177. A</u> A | | | 1 1 | | - | | | 11 | | | | | | | | - |
| EN LASE IL | | - | 1 | 1 State | | - | 1 | | T | 11 | T | | | | | E | | |
| | | | | | | | - | - | | | | | | | | E | TARK | |
| The second second | C. Siller | 1 | | | | - | - | T | - | T | | 183 | | | | | | 1.2.2 |
| | | Vater Dur | Drinking Wee | ter OT - Other | | | 1 | | 1 | рН | 1 | 31 | emp | 2.90 | 6 | 52 | 919 | 07378 |
| * Matrix: SS - Soil GW - Groundwate Remarks:Dissolved Metals = | M6020RCRA | 8-D + CAD | IG,KDG,NA | 4DG | T | | | Th. | | - 1 | 1.11 | 1.1 | other | | 1. 🔲 | Hold # | | |
| Remarks: Dissolved Metals = Hold Metals unt | 1 Word | from | Pam K | < mar | | | 1 | 11 | | Flow | | Ot turned vi | | JPS | c | Conditio | on: | (lab use only) |
| Relinquished by : (Signature) | | Date: | | Time: | Received by: (Si | orgnature | 1 | 11 | 1 | | | | ourier | | 11 | | 1) | X |
| hallout | San Spin Spinker | Date: | 115 | 1345 Time: | Received by: (S | Signature | 1 | 11 | 1 | Tem | 61strenzes | °C | Bottles | s Received | and the second | 110 | eal Intact: | Y_N_ |
| Relinquished by : (Signature) | and the second second | | | | | | 1 | <u>1</u> | 0.16 | | 5.1 | 2_ | Time: | | St. March 199 | CUC Se | succession of the local division of the loca | NCF: |
| The second s | 1.1000.071 | ap li | the second | Time: | Received for la | b by: (S) | gnature, | 1000 | A STATE | Date | 1.000 | 1 State | | qu | Colored 1 | Page 1 | ALC: NO. OF THE OWNER. | In |

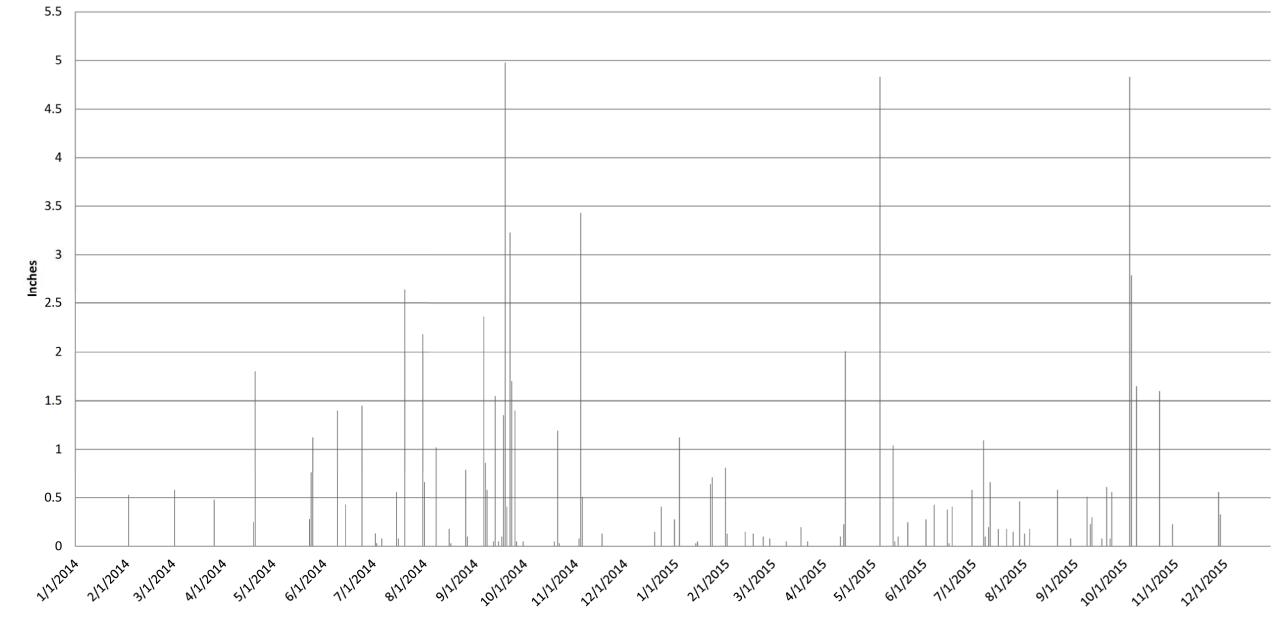
6 Weather: Sunny, 505 Personnel: R. Wood 11/19/15 0 Engle Daw Suchace Sampling . 0 Arrived onsite. Attempted to get badge whiter but safety 0700 does not issue waivers for background checks anymore -R. Combs spoke w/ safety and informed me that Domingo 0745 could escort me into Refinery Met Domingo @ Wanhouse to gather equipment 0830 0 Arrived @ MW-55 to begin sampling 0925 1030 - Sample time Left area to go find buttlewere from ESC 1045 Could not locate sample bottles. Broke for lanch 1115 . Arrived back onsite. Stopped EedEx driver to collect simple 1210 91 boffles. Arrived back @ Eagle Pran 230 Collected E DO1-111915 1245 - Taken from surface water on the east sid of Engle Prov South of Navio Rd Collected EDOZ-11915 1310 Taken from surface water on the west side of Eagle Draw cust 11615 Torth of Novajo Rd. 1330 Started pasting samples Dropped samples off @ FedEx building 1345 affite 1420 01 0 0 6 6

Attachment F

Precipitation Data January 2011 - November 2015

Precipitation

(January 2014 – Present)



Attachment G GW Level Trends

