



APPROVED

By Olivia Yu at 11:11 am, Mar 13, 2018

May 31, 2017

Reference No. 088210-22

Ms. Olivia Yu
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

**NMOCD grants closure
to 1RP-3460.**

Ms. Amber Groves
New Mexico State Land Office
Field Operations Division
2827 N. Dal Paso, Suite 117
Hobbs, NM

Dear Ms. Groves and Ms. Yu:

**Re: Closure Request
Fox State #3 and #4
1RP-3460
EOG Resources, Inc.
Site Location: Unit H, Sec. 30, T 25-S, R 34-E
(Lat 32.1029°, Long -103.5027°)
Lea County, New Mexico**

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG) is requesting that no further action status be granted for the Fox State #3 and #4 (hereafter referred to as the "Site").

In an Assessment Report dated August 23, 2016 (attached) GHD recommended the following scope items be completed following delineation of the soil impacts in order to achieve no further action;

- Complete the excavation of the eastern extent of the release to a depth of 4 ft bgs.
- Placement of a 20-mil polyethylene liner in the bottom of the excavation at a depth of 4 ft bgs at the location indicated on Figure 2.
- Backfilling of the excavation with clean fill material and wheel compacting to grade.
- Fertilizing and reseeding of the disturbed area with a New Mexico State Land Office approved seed mix.
- Perform noxious weed and vegetative growth monitoring quarterly.

The work scope was approved by Ms. Jamie Keyes with the New Mexico Oil Conservation Division on May 11, 2016. The New Mexico State Land Office approved the report on June 29, 2016. As of the date of this letter, the above scope items, except the quarterly monitoring of vegetation, have been completed and are documented in the attached completion photos and final C-141 for the Site; therefore, No Further Action is being requested.



Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD

A handwritten signature in black ink that reads "Alan Brandon". The signature is written in a cursive, flowing style.

Alan Brandon
Senior Project Manager

AB/mc/03

A handwritten signature in blue ink that reads "Bernard Bockisch". The signature is written in a cursive, flowing style.

Bernard Bockisch
Senior Project Manager

Attachments

Attachment A

Form C-141

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | | | |
|-----------------|---|---------------|--|
| Name of Company | EOG Resources, Inc. | Contact | Zane Kurtz |
| Address | 5509 Champions Drive, Midland, TX 79706 | Telephone No. | 432-425-2023 |
| Facility Name | Fox 30 State #3 and #4 | Facility Type | lease road near active well |
| Surface Owner | Mark McCloy | Mineral Owner | |
| | | API No. | 30-025-41249 (#3) 30-025-41244 (#4) |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| H | 30 | 25S | 34E | 2140' | N | 715' | E | Lea |

Latitude 32.1029 Longitude -103.5027

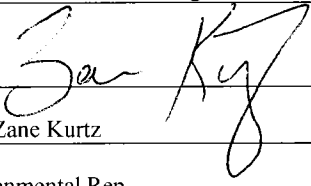
NATURE OF RELEASE

| | | | | | |
|--|---|---|------------|----------------------------|---------|
| Type of Release | Produced Water | Volume of Release | 50 bbls | Volume Recovered | 40 bbls |
| Source of Release | Produced Water Poly Line | Date and Hour of Occurrence | 11-21-2014 | Date and Hour of Discovery | 1500 |
| Was Immediate Notice Given? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | | | |
| By Whom? | | Date and Hour | | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | | | | |

Describe Cause of Problem and Remedial Action Taken.*
Lease op found leaking 4 inch poly line on lease road near well. About 50 bbls of produced water was spilled and 40 bbls was recovered by vacuum truck. Impacted area was excavated with backhoe and CH2M HILL was onsite to collect soil samples to delineate vertical and horizontal impacts. Soil is stockpiled on poly plastic and will be hauled off for proper disposal and clean soil will be used to backfill excavated area.

Describe Area Affected and Cleanup Action Taken.*

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

| | | | |
|--|--|---------------------------------------|-----------------------------------|
| Signature:  | | <u>OIL CONSERVATION DIVISION</u> | |
| Printed Name: Zane Kurtz | | Approved by Environmental Specialist: | |
| Title: Sr. Environmental Rep. | | Approval Date: | Expiration Date: |
| E-mail Address: zane_kurtz@eogresources.com | | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 12-16-2014 Phone: 432-425-2023 | | | |

* Attach Additional Sheets If Necessary

Attachment B

Photo Log



Photo 1 - Site location



Photo 2 - Liner placement



Site Photographs



Photo 3 - Backfilled excavation, wheel compacted, re-seeded



Photo 4 - Backfilled excavation, wheel compacted, re-seeded



Site Photographs

Attachment C

Assessment Summary Report



August 23, 2016

Reference No. 088210-22

Mr. Zane Kurtz
Sr. Safety and Environmental Representative
5509 Champions Dr.
Midland, TX 79706
VIA E-Mail: zane_kurtz@eogresources.com

Dear Mr. Kurtz:

**Re: Assessment Summary Report
Fox State #3 and #4
1RP-3460
EOG Resources, Inc.
Site Location: Unit H, Sec. 30, T 25-S, R 34-E
(Lat 32.1029°, Long -103.5027°)
Lea County, New Mexico**

On behalf of EOG Resources Inc. (EOG), GHD Services, Inc. (GHD, formerly Conestoga Rovers & Associates) is pleased to present this report for the above referenced site. Assessment activities were performed at the Fox State #3 and #4 (hereafter referred to as the "Site"). Field work and data collected for the Site was performed by CH2M Hill staff. The Site is located within Unit H, Section 30, Township 25 South, Range 34 East, in Lea County, New Mexico (Figure 1). According to the New Mexico State Land Office Interactive Oil and Gas Map, the State of New Mexico is the surface and subsurface estate owner.

The Site is located approximately 18 miles west of Jal, New Mexico. The release occurred from a leaking 4 inch diameter flow line located adjacent to the access road to the well. According to EOG personnel, a release of approximately 50 barrels (bbls) of produced water was released from a split in the line. Approximately 40 bbls of produced water was recovered. The release occurred on November 21, 2014. A C 141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and remediation permit (RP) number 1RP 3460 was assigned.

1. Recommended Remediation Action Limits

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on information available from the NMOCD GIS Oil and Gas Map, the depth to groundwater in well C 02317 located approximately 0.68 miles southeast of the Site is 50 feet (ft) below ground surface (bgs). Based on the information provided, it appears the well was installed in 1880 and the current depth to groundwater is most likely deeper than this.

In order to obtain more current depth to groundwater data, the United States Geologic Survey (USGS) National Water Information Service (NWIS) was checked. The USGS NWIS database indicated the presence of two wells that were screened within the alluvial aquifer in the vicinity of the Site. Well USGS

GHD

6121 Indian School Road NE Suite 200 Albuquerque New Mexico 87110 USA

T 505 884 0672 F 505 884 4932 W www.ghd.com



320059103333501 26S.33E.27.21112 is located approximately 6.3 miles to the southwest of the Site (Figure 2). The depth to groundwater in this well was 76.60 ft bgs in 2001. Well USGS 320918103211701 25S.35E.03.233244 is located approximately 9.7 miles to the northeast of the Site. The depth to groundwater in this well was 107.77 ft bgs in 1996. Extrapolating the distances and depths of these wells in relation to the Site, the depth to groundwater in the vicinity of the Site should be approximately 90 ft bgs. Based on this, the depth to groundwater appears to be between 50 and 100 ft bgs.

There do not appear to be any well head protection areas and no surface water bodies within 200 to 1000 ft of the Site. Therefore, the preliminary total ranking score for the Site is 10 (see table below).

Based on this score, the applicable NMOCD Site specific Recommended Remediation Action Limits (RRALs) are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), 1000 mg/kg for total petroleum hydrocarbons (TPH), and 250 mg/kg for chlorides.

| New Mexico Oil Conservation Division Site Assessment | |
|--|------------|
| Ranking Criteria | Score |
| Depth to Ground Water (> 50 ft bgs, <100 ft bgs) | 10 |
| Wellhead Protection Area (> 1000 ft from water source, > 200 ft from domestic source) | 0 |
| Distance to Surface Body Water (200-1000 ft) | 0 |
| Ranking Criteria Total Score | 10* |
| *The ranking criteria total score of 10 equates to NMOCD established RRALs of 10 mg/kg for benzene, 50 mg/kg for total BTEX, 1,000 mg/kg for TPH ¹ , and 250 mg/kg for chlorides. | |

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993

2. Assessment Activities

On November 25, 2014, EOG contracted CH2M HILL to assess the extent of the release. Watson Construction was contracted to excavate impacted soils and assist with the assessment. CH2M HILL provided contractor oversight and field screening activities. Initial assessment activities were performed using field screening methods.

On December 4, 2014 CH2M HILL returned to the site to perform further excavation and site assessment activities. Soil samples were collected for laboratory analysis of benzene, toluene, ethylbenzene and xylene by EPA Method 8015, total petroleum hydrocarbon (TPH) diesel range organics (DRO) and gasoline range organics (GRO) by EPA Method 8015, and chloride by EPA Method 300. Additional hand auger borings were advanced to assess the horizontal extent of concentrations (Figure 3).

On May 19, 2015, CH2M HILL returned to the site to further assess the vertical extent of chloride concentrations at the Site. Soil samples were collected at 7, 9, and 11 feet (ft) below ground surface (bgs). Chloride concentrations observed from this assessment were above the RRAL at a depth of 11 ft bgs.



Due to this, CH2M HILL and Watson mobilized a track hoe to the site. Additional samples were collected at 11 ft bgs, 16 ft bgs, and 21 ft bgs. Chloride concentrations were observed to decrease with depth (Table 1). The concentration at 21 ft bgs was 304 mg/kg, above the RRAL.

In order to assess the vertical extent of the chloride concentrations to below 250 mg/kg, a soil boring was advanced adjacent to the track hoe test pit that was excavated by Watson (see Figure 3). The soil boring was advanced by EnviroDrill, Inc. of Albuquerque, New Mexico using air rotary drilling methods. Soil samples were collected every 5 feet of depth beginning at 25 ft bgs to a depth of 40 ft bgs. Soil samples were field screened for the presence of chloride. These soil samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of chloride by EPA Method 300.

The analytical results of the soil samples collected from the soil boring indicated that chloride concentrations from 30, 35, and 40 ft bgs were less than 250 mg/kg. Based on this, it appears that the vertical extent of petroleum hydrocarbons and chloride has been assessed. The horizontal extent of chlorides has been assessed in the northern, southern, and western directions of the release (Figure 3).

The horizontal delineation of chloride was confirmed for the eastern extent by two confirmation samples collected on August 1, 2016. Two samples were collected outside the excavation perimeter at a depth of four feet bgs (Figure 3). Analytical results of the two samples were non-detect for chloride with a result of <30 mg/kg.

Based on this, GHD is requesting permission to install a 20 mil liner within the excavation. Backfilling of the excavation with clean soil will be performed following placement of the liner. Reseeding of the site will be performed in accordance with Section 3, Site Revegetation (below).

3. Site Revegetation

Following completion of liner placement and excavation backfill, revegetation of the site will be performed as follows:

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread using a hand held broadcaster and the area raked or dragged to cover the seed. Because the seed will be broadcast, the pounds per acre will be doubled. The following seed mix will be used:

| Seed Type | Pounds of pure live seed (PLS) per Acre | |
|---------------------|---|------------|
| | Broadcast Rate | Drill Rate |
| Black or Blue Grama | 3 lbs | 1.5 lbs |



| Seed Type | Pounds of pure live seed (PLS) per Acre | |
|---|---|---------|
| Sideoats Grama | 2 lbs | 1.0 lbs |
| Sand Dropseed | 1 lbs | 0.5 lbs |
| Sand Bluestem | 1 lbs | 0.5 lbs |
| FORBS | | |
| *Globemallow | 1 lbs | 0.5 lbs |
| *Buckwheat | 1 lbs | 0.5 lbs |
| Total pounds pure live seed per acre: 9 lbs | | |

The seed mixture will be planted in the amounts specified in pounds of pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered. If one species is not available, the other species will be increased proportionately. No less than four species, including one forb, will be included in the seed mix. No less than 9 pounds per PLS acres shall be applied. The area will be seeded following backfilling of the excavated area.

3.1 Growth Monitoring and Noxious Weed Management

The site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

4. Summary and Recommendations

Based on the assessment of the petroleum hydrocarbon and chloride concentrations, GHD recommends the following:

- Complete the excavation of the eastern extent of the release to a depth of 4 ft bgs.
- Placement of a 20 mil polyethylene liner in the bottom of the excavation at a depth of 4 ft bgs.
- Backfilling of the excavation with clean fill material and wheel compacting to grade.
- Fertilizing and reseeding of the disturbed area with a New Mexico State Land Office approved seed mix as described above.
- Perform noxious weed and vegetative growth monitoring as described above.



Following completion of the above activities EOG will request that no further action be required for the Site. Should you have any questions, or require additional information regarding this submittal, please feel free to contact Bernie Bockisch at (505) 884 0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Christine Mathews".

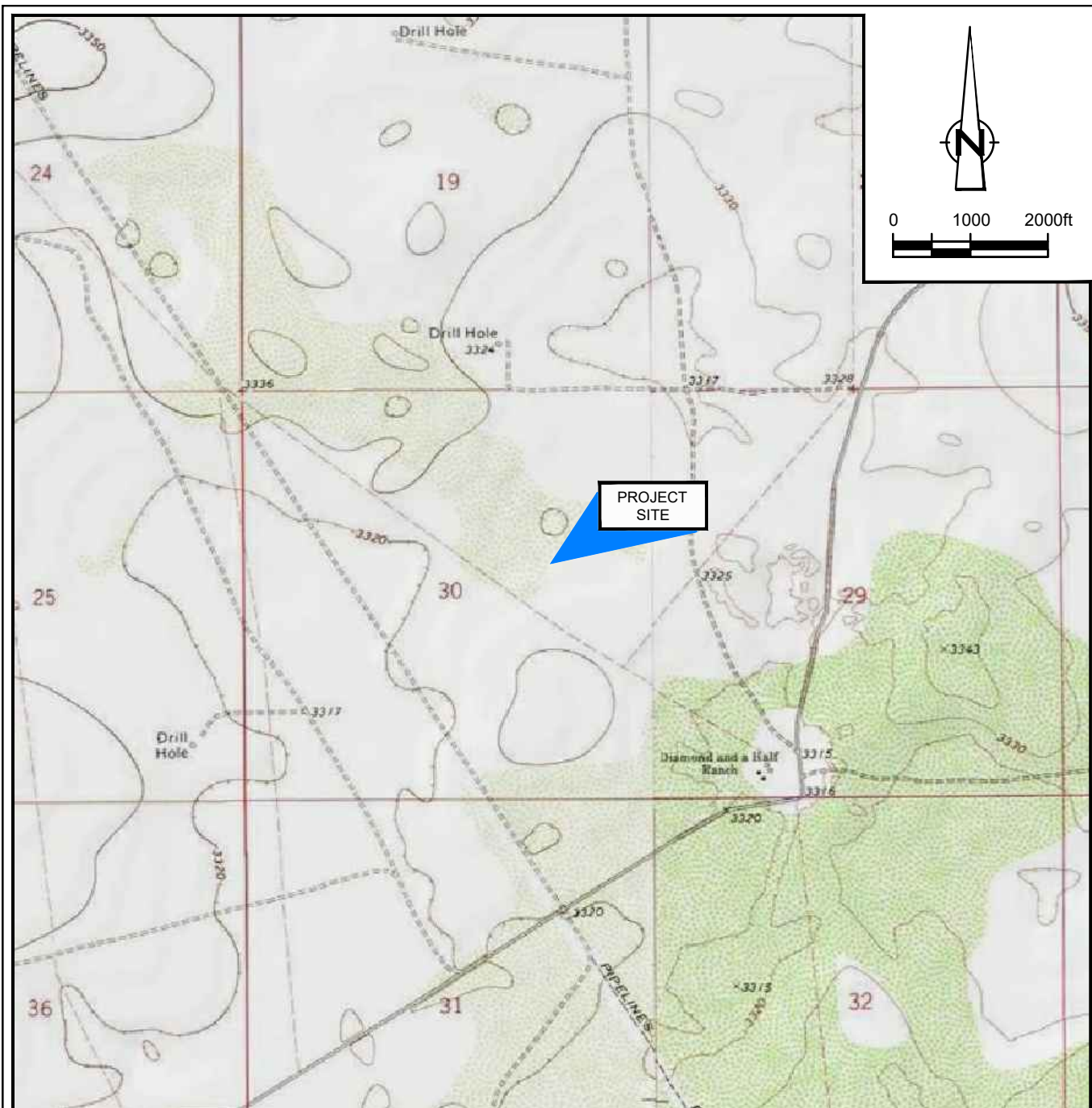
Christine Mathews
Project Scientist

BB/mc/02

A handwritten signature in blue ink that reads "Bernard Bockisch".

Bernard Bockisch
Project Manager PPM

Figures

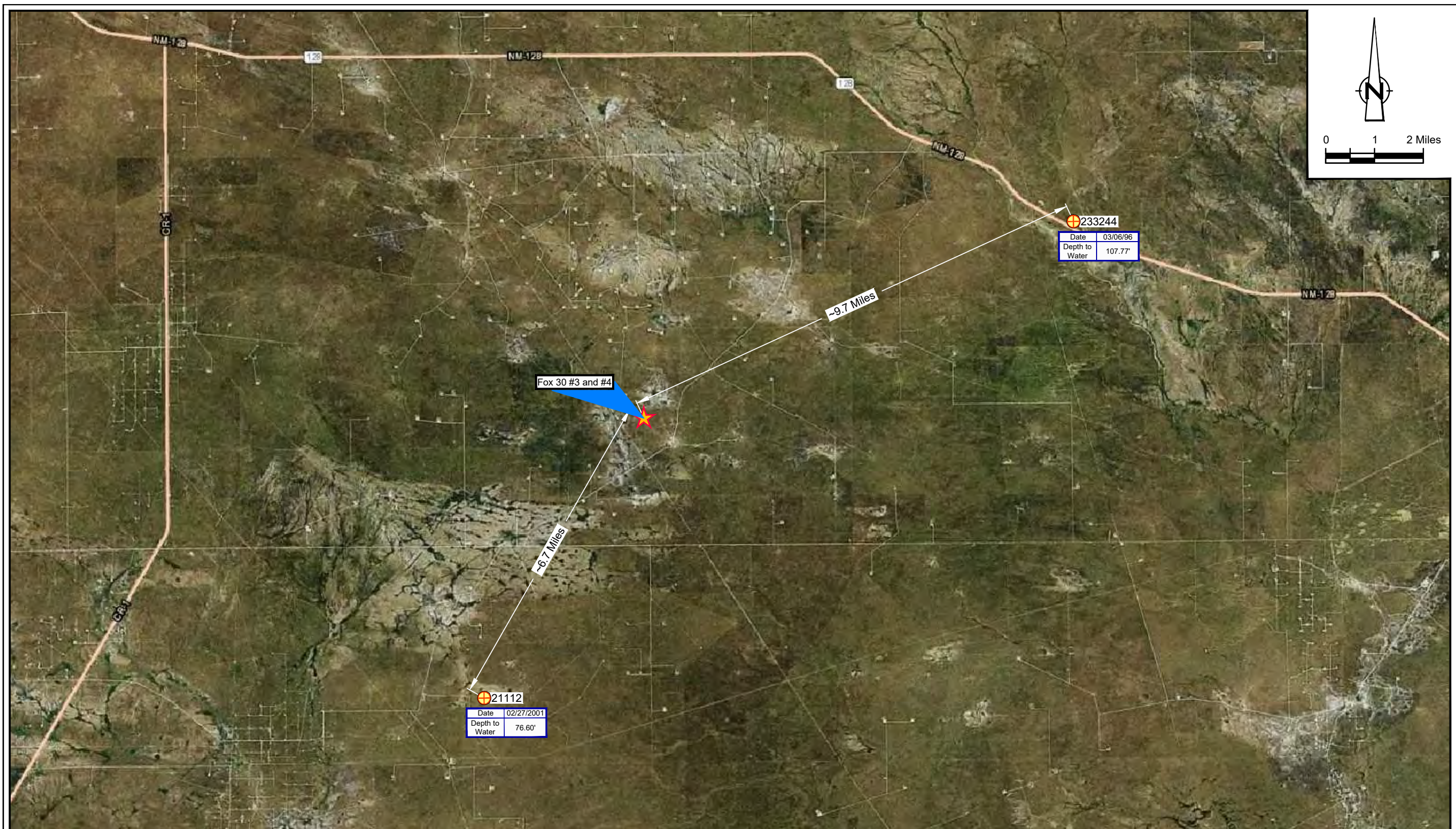


SOURCE: USGS 7.5 MINUTE QUAD
 "PADUCA BREAKS EAST AND ANDREWS PLACE, NEW MEXICO"

LAT/LONG: 32.10255° NORTH, 103.50457° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ZONE - NEW MEXICO EAST

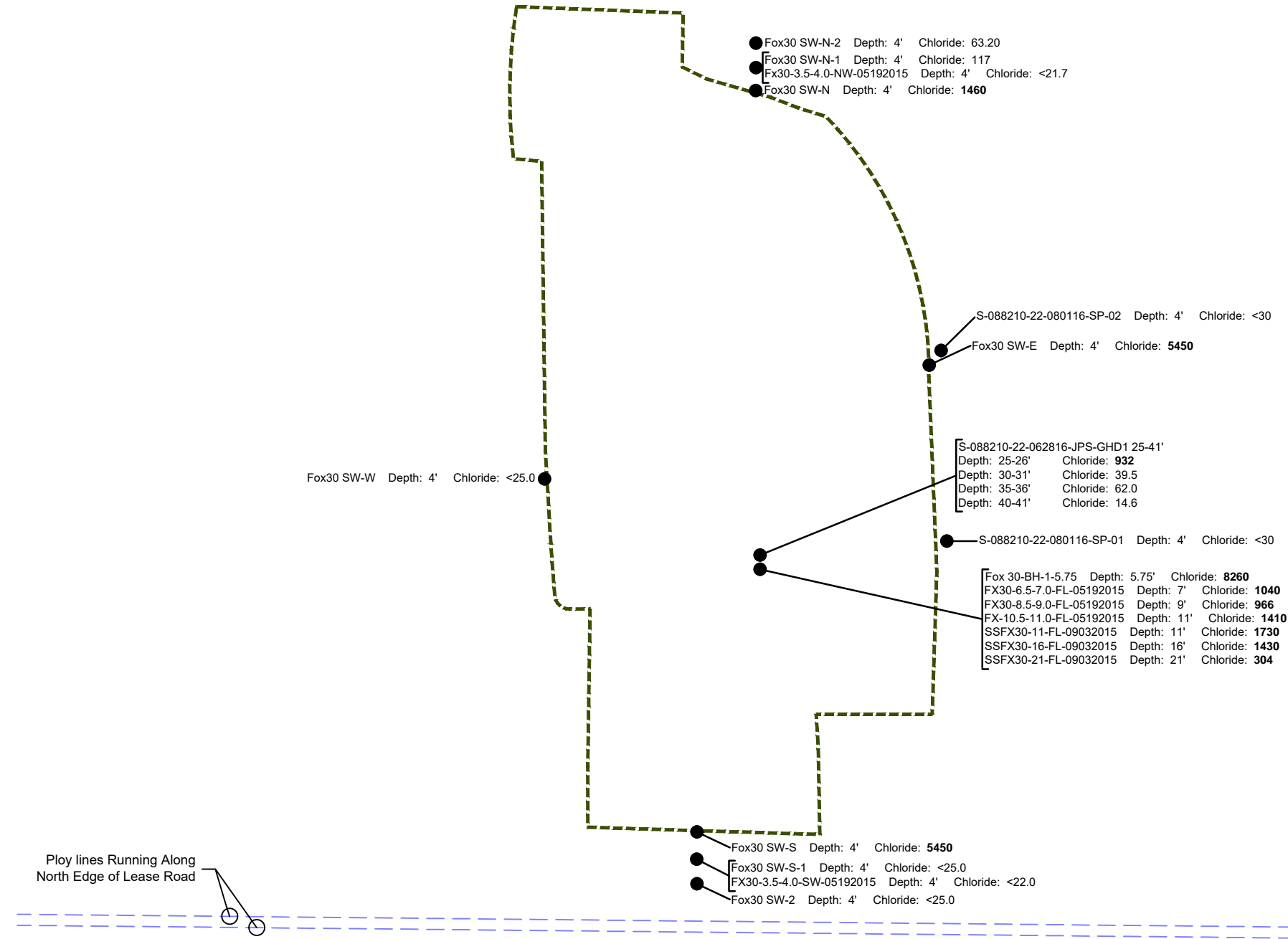
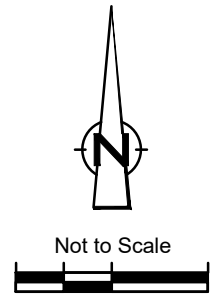
Figure 1
 SITE LOCATION MAP
 FOX 30 STATE #3 AND #4 (1RP3460)
 LEA COUNTY, NEW MEXICO
EOG Resources





| LEGEND | |
|--------|---------------|
| | Well Location |

Figure 2
 WELL LOCATION MAP
 FOX 30 STATE #3 AND #4 (1RP3460)
 LEA COUNTY, NEW MEXICO
EOG Resources



Ploy lines Running Along
North Edge of Lease Road

- NOTES:**
- Chloride concentrations in milligrams/kilogram.
 - Concentrations in bold indicates it is above the recommended remediation action limit.
 - All data collected by CH2M Hill.

LEGEND

●

Soil Sample Location

Excavation Outline



Figure 3
SITE DETAIL MAP
FOX 30 STATE #3 AND #4 (1RP3460)
LEA COUNTY, NEW MEXICO
EOG Resources

Tables

Table 1
Fox State 30 #3 and #4
Summary of Analytical Data

| | | | Analyte and Recommended Remediation Action Level | | | | | | | | |
|------------------------------------|----------------------------|-------------|---|------------------------|-----------------------------|------------------------|--------------------|------------------------------|------------------------------|----------------------|-------------------------|
| | | | Benzene 10 | Toluene --- | Ethylbenzene --- | Xylenes --- | BTEX 50 | TPH (GRO) --- | TPH (DRO) --- | TPH2 1000 | Chloride 250 |
| Sample ID | Depth (ft. bgs) | Date | | | | | | | | | |
| Fox 30-SW-W | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | <25.0 |
| Fox 30-SW-N | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | 1460 |
| Fox 30-SW-N-1 | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | 117 |
| Fox 30-SW-N-2 | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | 63.2 |
| Fox 30-SW-E | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | <25.0 |
| Fox 30-SW-S | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | 5450 |
| Fox 30-SW-S-1 | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | <25.0 |
| Fox 30-SW-S-2 | 4 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | <25.0 |
| Fox 30-BH-1-5.75 | 5.75 | 12/4/2014 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <4.00 | <50.0 | <4.00 | 8260 |
| FX30-3.5-4.0-NW-05192015 | 3.5-4.0 | 5/19/2015 | NA | NA | NA | NA | NA | NA | NA | NA | <21.7 |
| FX30-3.5-4.0-SW-05192015 | 3.5-4.0 | 5/19/2015 | NA | NA | NA | NA | NA | NA | NA | NA | <22.0 |
| FX30-6.5-7.0-FL-05192015 | 6.5-7.0 | 5/19/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 1040 |
| FX30-8.5-9.0-FL-05192015 | 8.5-9.0 | 5/19/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 966 |
| FX30-10.5-11.0-FL-05192015 | 10.5-11.0 | 5/19/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 1410 |
| SSFX30-11-FL-09032015 | 11 | 9/3/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 1730 |
| SSFX30-16-FL-09032015 | 16 | 9/3/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 1430 |
| SSFX30-21-FL-09032015 | 21 | 9/3/2015 | NA | NA | NA | NA | NA | NA | NA | NA | 304 |
| S-088210-22-06-2816-JPS-GHD1 25-26 | 25-26 | 6/28/2016 | NA | NA | NA | NA | NA | NA | NA | NA | 932 |
| S-088210-22-06-2816-JPS-GHD1 30-31 | 30-31 | 6/28/2016 | NA | NA | NA | NA | NA | NA | NA | NA | 39.5 |
| S-088210-22-06-2816-JPS-GHD1 35-36 | 35-36 | 6/28/2016 | NA | NA | NA | NA | NA | NA | NA | NA | 62.0 |
| S-088210-22-06-2816-JPS-GHD1 40-41 | 40-41 | 6/28/2016 | NA | NA | NA | NA | NA | NA | NA | NA | 14.6 |
| S-088210-22-080116-SP-01 | 4 | 8/1/2016 | NA | NA | NA | NA | NA | NA | NA | NA | <30 |
| S-088210-22-080116-SP-02 | 4 | 8/1/2016 | NA | NA | NA | NA | NA | NA | NA | NA | <30 |

Notes:

All samples were collected by CH2M Hill personnel prior to 9/3/2015.

BTEX indicates benzene, toluene, ethylbenzene, and xylene.

< indicates less than the laboratory reporting limit. TPH indicates total petroleum hydrocarbons

All concentrations in milligrams per kilogram

Attachments

Attachment A Well Records



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- **Effective May 5, 2016, we are experiencing a network outage in North Carolina which is impacting the real-time data display for that Water Science Center. Thank you for your patience as we work to resolve the issue.**
- Try our new [Mobile-friendly water data site](#) from your mobile device!
- New improved user interface.
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320918103211701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320918103211701 25S.35E.03.233244

Lea County, New Mexico

Latitude 32°09'36", Longitude 103°21'14" NAD27

Land-surface elevation 3,219.20 feet above NGVD29

The depth of the well is 122 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

| |
|------------------------------------|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurem |
|------------|------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|----------------------------|
| 1965-10-21 | | D | 100.35 | | | | 2 | | U | |
| 1968-06-12 | | D | 107.96 | | | | 2 | R | U | |
| 1970-12-09 | | D | 107.99 | | | | 2 | | U | |
| 1976-01-09 | | D | 107.90 | | | | 2 | | U | |
| 1981-03-27 | | D | 108.04 | | | | 2 | | U | |
| 1986-03-18 | | D | 107.77 | | | | 2 | | U | |
| 1991-06-12 | | D | 107.65 | | | | 2 | | U | |
| 1996-03-06 | | D | 107.77 | | | | 2 | | S | |

Explanation

| Section | Code | Description |
|--------------------------------|------|--|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Status | R | Site had been pumped recently. |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown |

| Section | Code | Description |
|-----------------------------|------|--|
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

[Questions about sites/data?](#)

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[Automated retrievals](#)

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[Data Tips](#)

[Explanation of terms](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <http://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2016-05-05 12:45:48 EDT

0.66 0.53 nadww02



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- **Effective May 5, 2016, we are experiencing a network outage in North Carolina which is impacting the real-time data display for that Water Science Center. Thank you for your patience as we work to resolve the issue.**
- Try our new [Mobile-friendly water data site](#) from your mobile device!
- New improved user interface.
- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320059103333501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico

Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83

Land-surface elevation 3,252.00 feet above NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

| |
|------------------------------------|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measur |
|------------|-----------|---|---|---|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|--------------------------|
| 1954-07-26 | | D | 79.71 | | | 2 | | | U | |
| 1976-01-08 | | D | 76.52 | | | 2 | | | U | |
| 1986-03-04 | | D | 77.14 | | | 2 | | | U | |
| 1990-11-27 | | D | 76.54 | | | 2 | | | U | |
| 1996-03-05 | | D | 77.39 | | | 2 | | | S | |
| 2001-02-27 | | D | 76.60 | | | 2 | | | S | |
| 2013-01-16 | 11:30 MST | m | | | | | | O | S | USGS |
| 2013-02-14 | 09:50 MDT | m | | | | | | P | S | USGS |

Explanation

| Section | Code | Description |
|--------------------------------|------|--|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level date-time accuracy | m | Date is accurate to the Minute |
| Water-level accuracy | | Not determined |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Status | O | Obstruction was encountered in the well (no water level was recorded). |

| Section | Code | Description |
|-----------------------------|------|---|
| Status | P | Site was being pumped. |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown |
| Measuring agency | | Not determined |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | A | Reported by another government agency (do not use "A" if reported by owner, use "O"). |
| Source of measurement | R | Reported by person other than the owner, driller, or another government agency. |
| Source of measurement | S | Measured by personnel of reporting agency. |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |
| Water-level approval status | P | Provisional data subject to revision. |

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <http://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

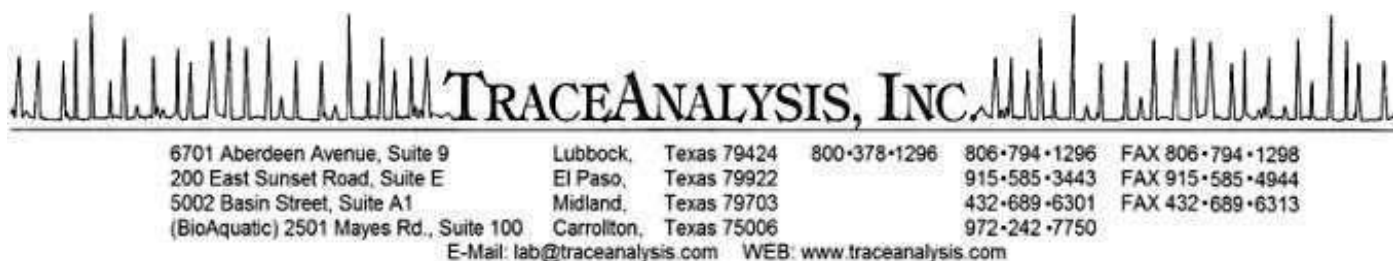
Page Last Modified: 2016-05-05 12:51:15 EDT

0.53 0.4 nadww02



Attachment B

Laboratory Analytical Reports



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

Leslie Voss
CH2M Hill
700 Main St.
Suite 400
Baton Rouge, LA, 70802

Report Date: May 4, 2015

Work Order: 14120801



Project Location: Lea County, NM
Project Name: Fox 30 #3 and #4
Project Number: Fox 30 #3 and #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

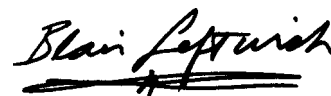
| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|------------------|--------|------------|------------|---------------|
| 381458 | Fox 30-SW-W | soil | 2014-12-04 | 15:40 | 2014-12-05 |
| 381459 | Fox 30-SW-N | soil | 2014-12-04 | 16:00 | 2014-12-05 |
| 381460 | Fox 30-SW-E | soil | 2014-12-04 | 16:25 | 2014-12-05 |
| 381461 | Fox 30-SW-S | soil | 2014-12-04 | 16:50 | 2014-12-05 |
| 381462 | Fox 30-BH-1-5.75 | soil | 2014-12-04 | 17:20 | 2014-12-05 |
| 381463 | Fox 30-SW-W-1 | soil | 2014-12-04 | 15:45 | 2014-12-05 |
| 381464 | Fox 30-SW-W-2 | soil | 2014-12-04 | 15:50 | 2014-12-05 |
| 381465 | Fox 30-SW-N-1 | soil | 2014-12-04 | 16:05 | 2014-12-05 |
| 381466 | Fox 30-SW-N-2 | soil | 2014-12-04 | 16:10 | 2014-12-05 |
| 381467 | Fox 30-SW-E-1 | soil | 2014-12-04 | 16:30 | 2014-12-05 |
| 381468 | Fox 30-SW-E-2 | soil | 2014-12-04 | 16:35 | 2014-12-05 |
| 381469 | Fox 30-SW-S-1 | soil | 2014-12-04 | 16:55 | 2014-12-05 |
| 381470 | Fox 30-SW-S-2 | soil | 2014-12-04 | 17:00 | 2014-12-05 |

Report Corrections (Work Order 14120801)

- 1/9/15: Added BTEX and TPH DRO/GRO to samples 381465, 381466, 381469, and 381470.
- 1/16/15: Added Chlorides to samples 381465, 381466, 381469, and 381470.
- 5/4/15: Dilution corrected for sample 381461

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 40 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Fox 30 #3 and #4 were received by TraceAnalysis, Inc. on 2014-12-05 and assigned to work order 14120801. Samples for work order 14120801 were received intact at a temperature of 8.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 99649 | 2014-12-08 at 16:00 | 117866 | 2014-12-09 at 16:00 |
| BTEX | S 8021B | 100163 | 2015-01-07 at 11:20 | 118545 | 2015-01-09 at 12:40 |
| Chloride (IC) | E 300.0 | 99742 | 2014-12-12 at 08:30 | 117983 | 2014-12-12 at 08:55 |
| Chloride (IC) | E 300.0 | 100349 | 2015-01-15 at 13:00 | 118679 | 2015-01-15 at 14:21 |
| TPH DRO - NEW | S 8015 D | 99656 | 2014-12-09 at 10:13 | 117872 | 2014-12-10 at 10:24 |
| TPH DRO - NEW | S 8015 D | 100120 | 2015-01-05 at 18:55 | 118409 | 2015-01-06 at 08:24 |
| TPH GRO | S 8015 D | 99649 | 2014-12-08 at 16:00 | 117867 | 2014-12-09 at 16:30 |
| TPH GRO | S 8015 D | 100163 | 2015-01-07 at 11:20 | 118546 | 2015-01-09 at 12:46 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14120801 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 6 of 40
Lea County, NM

Analytical Report

Sample: 381458 - Fox 30-SW-W

Laboratory: Midland
Analysis: BTEX
QC Batch: 117866
Prep Batch: 99649

Analytical Method: S 8021B
Date Analyzed: 2014-12-09
Sample Preparation: 2014-12-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.75 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.09 | mg/Kg | 1 | 2.00 | 104 | 70 - 130 |

Sample: 381458 - Fox 30-SW-W

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 117983
Prep Batch: 99742

Analytical Method: E 300.0
Date Analyzed: 2014-12-12
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | Qs | 1,2,4 | <25.0 | mg/Kg | 1 | 25.0 |

Sample: 381458 - Fox 30-SW-W

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 117872
Prep Batch: 99656

Analytical Method: S 8015 D
Date Analyzed: 2014-12-10
Sample Preparation:

Prep Method: N/A
Analyzed By: SC
Prepared By: SC

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

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Lea County, NM

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 116 | mg/Kg | 1 | 100 | 116 | 70 - 130 |

Sample: 381458 - Fox 30-SW-W

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 117867
Prep Batch: 99649

Analytical Method: S 8015 D
Date Analyzed: 2014-12-09
Sample Preparation: 2014-12-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.79 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | Q _{sr} | Q _{sr} | 1.32 | mg/Kg | 1 | 2.00 | 66 | 70 - 130 |

Sample: 381459 - Fox 30-SW-N

Laboratory: Midland
Analysis: BTEX
QC Batch: 117866
Prep Batch: 99649

Analytical Method: S 8021B
Date Analyzed: 2014-12-09
Sample Preparation: 2014-12-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|--------------------|------|--------------|-------|----------|--------|
| Benzene | Q _s , U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Q _s , U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Q _s , U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Q _s , U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.34 | mg/Kg | 1 | 2.00 | 117 | 70 - 130 |

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 8 of 40
Lea County, NM

Sample: 381459 - Fox 30-SW-N

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2014-12-12 | Analyzed By: | RL |
| QC Batch: | 117983 | Sample Preparation: | | Prepared By: | RL |
| Prep Batch: | 99742 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | Qs | 1,2,4 | 1460 | mg/Kg | 5 | 25.0 |

Sample: 381459 - Fox 30-SW-N

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | N/A |
| Analysis: | TPH DRO - NEW | Date Analyzed: | 2014-12-10 | Analyzed By: | SC |
| QC Batch: | 117872 | Sample Preparation: | | Prepared By: | SC |
| Prep Batch: | 99656 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 114 | mg/Kg | 1 | 100 | 114 | 70 - 130 |

Sample: 381459 - Fox 30-SW-N

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| Analysis: | TPH GRO | Date Analyzed: | 2014-12-09 | Analyzed By: | AK |
| QC Batch: | 117867 | Sample Preparation: | 2014-12-08 | Prepared By: | AK |
| Prep Batch: | 99649 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.82 | mg/Kg | 1 | 2.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.47 | mg/Kg | 1 | 2.00 | 74 | 70 - 130 |

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

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Sample: 381460 - Fox 30-SW-E

Laboratory: Midland

Analysis: BTEX

QC Batch: 117866

Prep Batch: 99649

Analytical Method: S 8021B

Date Analyzed: 2014-12-09

Sample Preparation: 2014-12-08

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.78 | mg/Kg | 1 | 2.00 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.31 | mg/Kg | 1 | 2.00 | 116 | 70 - 130 |

Sample: 381460 - Fox 30-SW-E

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 117983

Prep Batch: 99742

Analytical Method: E 300.0

Date Analyzed: 2014-12-12

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | Qs | 1,2,4 | <25.0 | mg/Kg | 1 | 25.0 |

Sample: 381460 - Fox 30-SW-E

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 117872

Prep Batch: 99656

Analytical Method: S 8015 D

Date Analyzed: 2014-12-10

Sample Preparation:

Prep Method: N/A

Analyzed By: SC

Prepared By: SC

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | 112 | | mg/Kg | 1 | 100 | 112 | 70 - 130 |

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

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Lea County, NM

Sample: 381460 - Fox 30-SW-E

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| Analysis: | TPH GRO | Date Analyzed: | 2014-12-09 | Analyzed By: | AK |
| QC Batch: | 117867 | Sample Preparation: | 2014-12-08 | Prepared By: | AK |
| Prep Batch: | 99649 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.43 | mg/Kg | 1 | 2.00 | 72 | 70 - 130 |

Sample: 381461 - Fox 30-SW-S

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| Analysis: | BTEX | Date Analyzed: | 2014-12-09 | Analyzed By: | AK |
| QC Batch: | 117866 | Sample Preparation: | 2014-12-08 | Prepared By: | AK |
| Prep Batch: | 99649 | | | | |

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.75 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.29 | mg/Kg | 1 | 2.00 | 114 | 70 - 130 |

Sample: 381461 - Fox 30-SW-S

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2014-12-12 | Analyzed By: | RL |
| QC Batch: | 117983 | Sample Preparation: | | Prepared By: | RL |
| Prep Batch: | 99742 | | | | |

continued ...

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 11 of 40
Lea County, NM

sample 381461 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
| Chloride | Qs | 1,2,4 | 5450 | mg/Kg | 50 | 25.0 |

Sample: 381461 - Fox 30-SW-S

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 117872
Prep Batch: 99656

Analytical Method: S 8015 D
Date Analyzed: 2014-12-10
Sample Preparation:

Prep Method: N/A
Analyzed By: SC
Prepared By: SC

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 110 | mg/Kg | 1 | 100 | 110 | 70 - 130 |

Sample: 381461 - Fox 30-SW-S

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 117867
Prep Batch: 99649

Analytical Method: S 8015 D
Date Analyzed: 2014-12-09
Sample Preparation: 2014-12-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.84 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.43 | mg/Kg | 1 | 2.00 | 72 | 70 - 130 |

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Sample: 381462 - Fox 30-BH-1-5.75

Laboratory: Midland

Analysis: BTEX

QC Batch: 117866

Prep Batch: 99649

Analytical Method: S 8021B

Date Analyzed: 2014-12-09

Sample Preparation: 2014-12-08

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.74 | mg/Kg | 1 | 2.00 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.28 | mg/Kg | 1 | 2.00 | 114 | 70 - 130 |

Sample: 381462 - Fox 30-BH-1-5.75

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 117983

Prep Batch: 99742

Analytical Method: E 300.0

Date Analyzed: 2014-12-12

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | Qs | 1,2,4 | 8260 | mg/Kg | 100 | 25.0 |

Sample: 381462 - Fox 30-BH-1-5.75

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 117872

Prep Batch: 99656

Analytical Method: S 8015 D

Date Analyzed: 2014-12-10

Sample Preparation:

Prep Method: N/A

Analyzed By: SC

Prepared By: SC

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 114 | mg/Kg | 1 | 100 | 114 | 70 - 130 |

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Sample: 381462 - Fox 30-BH-1-5.75

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 117867
Prep Batch: 99649

Analytical Method: S 8015 D
Date Analyzed: 2014-12-09
Sample Preparation: 2014-12-08

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| GRO | U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.42 | mg/Kg | 1 | 2.00 | 71 | 70 - 130 |

Sample: 381465 - Fox 30-SW-N-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 118545
Prep Batch: 100163

Analytical Method: S 8021B
Date Analyzed: 2015-01-09
Sample Preparation: 2015-01-07

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|-------|------|--------------|-------|----------|--------|
| Benzene | Qs, U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.75 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.97 | mg/Kg | 1 | 2.00 | 98 | 70 - 130 |

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Sample: 381465 - Fox 30-SW-N-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 118679
Prep Batch: 100349

Analytical Method: E 300.0
Date Analyzed: 2015-01-15
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | | 1,2,4 | 117 | mg/Kg | 1 | 25.0 |

Sample: 381465 - Fox 30-SW-N-1

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 118409
Prep Batch: 100120

Analytical Method: S 8015 D
Date Analyzed: 2015-01-06
Sample Preparation: 2015-01-05

Prep Method: N/A
Analyzed By: SC
Prepared By: SC

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|----------|------|--------------|-------|----------|------|
| DRO | H, Qs, U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 91.9 | mg/Kg | 1 | 100 | 92 | 70 - 130 |

Sample: 381465 - Fox 30-SW-N-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 118546
Prep Batch: 100163

Analytical Method: S 8015 D
Date Analyzed: 2015-01-09
Sample Preparation: 2015-01-07

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-----------------------|------|--------------|-------|----------|------|
| GRO | ² Qs, U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Sample: 381466 - Fox 30-SW-N-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 118545

Prep Batch: 100163

Analytical Method: S 8021B

Date Analyzed: 2015-01-09

Sample Preparation: 2015-01-07

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|----------------------|------|--------------|-------|----------|--------|
| Benzene | ³ Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.74 | mg/Kg | 1 | 2.00 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.92 | mg/Kg | 1 | 2.00 | 96 | 70 - 130 |

Sample: 381466 - Fox 30-SW-N-2

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 118679

Prep Batch: 100349

Analytical Method: E 300.0

Date Analyzed: 2015-01-15

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | | 1,2,4 | 63.2 | mg/Kg | 1 | 25.0 |

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Sample: 381466 - Fox 30-SW-N-2

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 118409

Prep Batch: 100120

Analytical Method: S 8015 D

Date Analyzed: 2015-01-06

Sample Preparation: 2015-01-05

Prep Method: N/A

Analyzed By: SC

Prepared By: SC

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | H,Qs,U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 96.4 | mg/Kg | 1 | 100 | 96 | 70 - 130 |

Sample: 381466 - Fox 30-SW-N-2

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 118546

Prep Batch: 100163

Analytical Method: S 8015 D

Date Analyzed: 2015-01-09

Sample Preparation: 2015-01-07

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-----------|------|--------------|-------|----------|------|
| GRO | 4 Qs,U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.74 | mg/Kg | 1 | 2.00 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.86 | mg/Kg | 1 | 2.00 | 93 | 70 - 130 |

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Sample: 381469 - Fox 30-SW-S-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 118545

Prep Batch: 100163

Analytical Method: S 8021B

Date Analyzed: 2015-01-09

Sample Preparation: 2015-01-07

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|----------------------|------|--------------|-------|----------|--------|
| Benzene | ⁵ Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.73 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.98 | mg/Kg | 1 | 2.00 | 99 | 70 - 130 |

Sample: 381469 - Fox 30-SW-S-1

Laboratory: Lubbock

Analysis: Chloride (IC)

QC Batch: 118679

Prep Batch: 100349

Analytical Method: E 300.0

Date Analyzed: 2015-01-15

Sample Preparation:

Prep Method: N/A

Analyzed By: RL

Prepared By: RL

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | | 1,2,4 | <25.0 | mg/Kg | 1 | 25.0 |

Sample: 381469 - Fox 30-SW-S-1

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 118409

Prep Batch: 100120

Analytical Method: S 8015 D

Date Analyzed: 2015-01-06

Sample Preparation: 2015-01-05

Prep Method: N/A

Analyzed By: SC

Prepared By: SC

Comment: Client added 12/31/2014.

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sample 381469 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
|-------------|----------|------|--------------|-------|----------|-----------------|---------------------|--------------------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | | |
| DRO | H, Qs, U | 3 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | | | 91.9 | mg/Kg | 1 | 100 | 92 | 70 - 130 |

Sample: 381469 - Fox 30-SW-S-1

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 118546
Prep Batch: 100163
Comment: Client added 12/31/2014.

Analytical Method: S 8015 D
Date Analyzed: 2015-01-09
Sample Preparation: 2015-01-07

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|-----------|------|------|--------------|-------|----------|----|------|
| GRO | 6 | Qs,U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.81 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Sample: 381470 - Fox 30-SW-S-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 118545
Prep Batch: 100163
Comment: Client added 12/31/2014.

Analytical Method: S 8021B
Date Analyzed: 2015-01-09
Sample Preparation: 2015-01-07

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-----------|------|--------------|-------|----------|--------|
| Benzene | 7 Qs,U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

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sample 381470 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Toluene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 3 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.68 | mg/Kg | 1 | 2.00 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.87 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Sample: 381470 - Fox 30-SW-S-2

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 118679 Date Analyzed: 2015-01-15 Analyzed By: RL
Prep Batch: 100349 Sample Preparation: Prepared By: RL
Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|-------|--------------|-------|----------|------|
| Chloride | | 1,2,4 | <25.0 | mg/Kg | 1 | 25.0 |

Sample: 381470 - Fox 30-SW-S-2

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 118409 Date Analyzed: 2015-01-06 Analyzed By: SC
Prep Batch: 100120 Sample Preparation: 2015-01-05 Prepared By: SC
Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|--------|------|--------------|-------|----------|------|
| DRO | H,Qs,U | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 92.9 | mg/Kg | 1 | 100 | 93 | 70 - 130 |

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Sample: 381470 - Fox 30-SW-S-2

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 118546
Prep Batch: 100163

Analytical Method: S 8015 D
Date Analyzed: 2015-01-09
Sample Preparation: 2015-01-07

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Comment: Client added 12/31/2014.

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|-----------|------|--------------|-------|----------|------|
| GRO | 8 Qs,U | 3 | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.71 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.79 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |

Method Blanks

Method Blank (1) QC Batch: 117866

QC Batch: 117866 Date Analyzed: 2014-12-09 Analyzed By: AK
Prep Batch: 99649 QC Preparation: 2014-12-08 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|------|
| Benzene | | 3 | <0.00533 | mg/Kg | 0.02 |
| Toluene | | 3 | <0.00645 | mg/Kg | 0.02 |
| Ethylbenzene | | 3 | <0.0116 | mg/Kg | 0.02 |
| Xylene | | 3 | <0.00874 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.81 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.32 | mg/Kg | 1 | 2.00 | 116 | 70 - 130 |

Method Blank (1) QC Batch: 117867

QC Batch: 117867 Date Analyzed: 2014-12-09 Analyzed By: AK
Prep Batch: 99649 QC Preparation: 2014-12-08 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| GRO | | 3 | <2.32 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.43 | mg/Kg | 1 | 2.00 | 72 | 70 - 130 |

Method Blank (1) QC Batch: 117872

QC Batch: 117872 Date Analyzed: 2014-12-10 Analyzed By: SC
Prep Batch: 99656 QC Preparation: 2014-12-09 Prepared By: SC

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| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | | 3 | <7.41 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 98.6 | mg/Kg | 1 | 100 | 99 | 70 - 130 |

Method Blank (1) QC Batch: 117983

QC Batch: 117983 Date Analyzed: 2014-12-12 Analyzed By: RL
Prep Batch: 99742 QC Preparation: 2014-12-12 Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|-------|---------------|-------|----|
| Chloride | | 1,2,4 | <2.66 | mg/Kg | 25 |

Method Blank (1) QC Batch: 118409

QC Batch: 118409 Date Analyzed: 2015-01-06 Analyzed By: SC
Prep Batch: 100120 QC Preparation: 2015-01-05 Prepared By: SC

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| DRO | | 3 | <7.41 | mg/Kg | 50 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | | | 89.8 | mg/Kg | 1 | 100 | 90 | 70 - 130 |

Method Blank (1) QC Batch: 118545

QC Batch: 118545 Date Analyzed: 2015-01-09 Analyzed By: AK
Prep Batch: 100163 QC Preparation: 2015-01-07 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|------|
| Benzene | | 3 | <0.00533 | mg/Kg | 0.02 |

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method blank continued ...

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|------|
| Toluene | | 3 | <0.00645 | mg/Kg | 0.02 |
| Ethylbenzene | | 3 | <0.0116 | mg/Kg | 0.02 |
| Xylene | | 3 | <0.00874 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.74 | mg/Kg | 1 | 2.00 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.00 | mg/Kg | 1 | 2.00 | 100 | 70 - 130 |

Method Blank (1) QC Batch: 118546

QC Batch: 118546
Prep Batch: 100163

Date Analyzed: 2015-01-09
QC Preparation: 2015-01-07

Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|----|
| GRO | | 3 | <2.32 | mg/Kg | 4 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 1.76 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.89 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Method Blank (1) QC Batch: 118679

QC Batch: 118679
Prep Batch: 100349

Date Analyzed: 2015-01-15
QC Preparation: 2015-01-15

Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|-------|---------------|-------|----|
| Chloride | | 1,2,4 | <2.66 | mg/Kg | 25 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117866
Prep Batch: 99649

Date Analyzed: 2014-12-09
QC Preparation: 2014-12-08

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 3 | 1.98 | mg/Kg | 1 | 2.00 | <0.00533 | 99 | 70 - 130 |
| Toluene | | 3 | 1.98 | mg/Kg | 1 | 2.00 | <0.00645 | 99 | 70 - 130 |
| Ethylbenzene | | 3 | 1.94 | mg/Kg | 1 | 2.00 | <0.0116 | 97 | 70 - 130 |
| Xylene | | 3 | 5.90 | mg/Kg | 1 | 6.00 | <0.00874 | 98 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 3 | 1.94 | mg/Kg | 1 | 2.00 | <0.00533 | 97 | 70 - 130 | 2 | 20 |
| Toluene | | 3 | 2.00 | mg/Kg | 1 | 2.00 | <0.00645 | 100 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | 3 | 2.06 | mg/Kg | 1 | 2.00 | <0.0116 | 103 | 70 - 130 | 6 | 20 |
| Xylene | | 3 | 6.30 | mg/Kg | 1 | 6.00 | <0.00874 | 105 | 70 - 130 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.77 | 1.68 | mg/Kg | 1 | 2.00 | 88 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 2.25 | 2.51 | mg/Kg | 1 | 2.00 | 112 | 126 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 117867
Prep Batch: 99649

Date Analyzed: 2014-12-09
QC Preparation: 2014-12-08

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 3 | 18.3 | mg/Kg | 1 | 20.0 | <2.32 | 92 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| GRO | | 3 | 21.0 | mg/Kg | 1 | 20.0 | <2.32 | 105 | 70 - 130 | 14 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.70 | 1.72 | mg/Kg | 1 | 2.00 | 85 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.47 | 1.57 | mg/Kg | 1 | 2.00 | 74 | 78 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 117872
Prep Batch: 99656

Date Analyzed: 2014-12-10
QC Preparation: 2014-12-09

Analyzed By: SC
Prepared By: SC

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 3 | 254 | mg/Kg | 1 | 250 | <7.41 | 102 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 3 | 266 | mg/Kg | 1 | 250 | <7.41 | 106 | 70 - 130 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|-------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| n-Tricosane | 96.5 | 97.8 | mg/Kg | 1 | 100 | 96 | 98 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 117983
Prep Batch: 99742

Date Analyzed: 2014-12-12
QC Preparation: 2014-12-12

Analyzed By: RL
Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 239 | mg/Kg | 1 | 250 | <2.66 | 96 | 90 - 110 |

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 240 | mg/Kg | 1 | 250 | <2.66 | 96 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118409
Prep Batch: 100120

Date Analyzed: 2015-01-06
QC Preparation: 2015-01-05

Analyzed By: SC
Prepared By: SC

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 3 | 210 | mg/Kg | 1 | 250 | <7.41 | 84 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 3 | 210 | mg/Kg | 1 | 250 | <7.41 | 84 | 70 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|-------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| n-Tricosane | 90.5 | 91.0 | mg/Kg | 1 | 100 | 90 | 91 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 118545
Prep Batch: 100163

Date Analyzed: 2015-01-09
QC Preparation: 2015-01-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 3 | 1.71 | mg/Kg | 1 | 2.00 | <0.00533 | 86 | 70 - 130 |
| Toluene | | 3 | 1.79 | mg/Kg | 1 | 2.00 | <0.00645 | 90 | 70 - 130 |
| Ethylbenzene | | 3 | 1.88 | mg/Kg | 1 | 2.00 | <0.0116 | 94 | 70 - 130 |
| Xylene | | 3 | 5.67 | mg/Kg | 1 | 6.00 | <0.00874 | 94 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| Benzene | | 3 | 1.55 | mg/Kg | 1 | 2.00 | <0.00533 | 78 | 70 - 130 | 10 | 20 |
| Toluene | | 3 | 1.64 | mg/Kg | 1 | 2.00 | <0.00645 | 82 | 70 - 130 | 9 | 20 |
| Ethylbenzene | | 3 | 1.74 | mg/Kg | 1 | 2.00 | <0.0116 | 87 | 70 - 130 | 8 | 20 |
| Xylene | | 3 | 5.29 | mg/Kg | 1 | 6.00 | <0.00874 | 88 | 70 - 130 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.73 | 1.66 | mg/Kg | 1 | 2.00 | 86 | 83 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 2.02 | 1.89 | mg/Kg | 1 | 2.00 | 101 | 94 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 118546
Prep Batch: 100163

Date Analyzed: 2015-01-09
QC Preparation: 2015-01-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | 3 | 14.3 | mg/Kg | 1 | 20.0 | <2.32 | 72 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| GRO | | 3 | 16.3 | mg/Kg | 1 | 20.0 | <2.32 | 82 | 70 - 130 | 13 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.62 | 1.77 | mg/Kg | 1 | 2.00 | 81 | 88 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.94 | 1.96 | mg/Kg | 1 | 2.00 | 97 | 98 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 118679
Prep Batch: 100349

Date Analyzed: 2015-01-15
QC Preparation: 2015-01-15

Analyzed By: RL
Prepared By: RL

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| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 235 | mg/Kg | 1 | 250 | <2.66 | 94 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 234 | mg/Kg | 1 | 250 | <2.66 | 94 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 380974

QC Batch: 117866
Prep Batch: 99649

Date Analyzed: 2014-12-09
QC Preparation: 2014-12-08

Analyzed By: AK
Prepared By: AK

| Param | | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------------------------|----------------|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | ⁹ Q _s | Q _s | 3 | <0.00533 | mg/Kg | 1 | 2.00 | <0.00533 | 0 | 70 - 130 |
| Toluene | Q _s | Q _s | 3 | <0.00645 | mg/Kg | 1 | 2.00 | <0.00645 | 0 | 70 - 130 |
| Ethylbenzene | Q _s | Q _s | 3 | <0.0116 | mg/Kg | 1 | 2.00 | <0.0116 | 0 | 70 - 130 |
| Xylene | Q _s | Q _s | 3 | <0.00874 | mg/Kg | 1 | 6.00 | <0.00874 | 0 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------------------------|----------------|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | ¹⁰ Q _s | Q _s | 3 | <0.00533 | mg/Kg | 1 | 2.00 | <0.00533 | 0 | 70 - 130 | 0 | 20 |
| Toluene | Q _s | Q _s | 3 | <0.00645 | mg/Kg | 1 | 2.00 | <0.00645 | 0 | 70 - 130 | 0 | 20 |
| Ethylbenzene | Q _s | Q _s | 3 | <0.0116 | mg/Kg | 1 | 2.00 | <0.0116 | 0 | 70 - 130 | 0 | 20 |
| Xylene | Q _s | Q _s | 3 | <0.00874 | mg/Kg | 1 | 6.00 | <0.00874 | 0 | 70 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | | 1.77 | 1.74 | mg/Kg | 1 | 2 | 89 | 87 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 2.28 | 2.33 | mg/Kg | 1 | 2 | 114 | 116 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 381449

QC Batch: 117867
Prep Batch: 99649

Date Analyzed: 2014-12-09
QC Preparation: 2014-12-08

Analyzed By: AK
Prepared By: AK

| Param | | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|--|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| GRO | | | 3 | 18.7 | mg/Kg | 1 | 20.0 | <2.32 | 94 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
| GRO | | 3 | 19.4 | mg/Kg | 1 | 20.0 | <2.32 | 97 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.67 | 1.70 | mg/Kg | 1 | 2 | 84 | 85 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.55 | 1.55 | mg/Kg | 1 | 2 | 78 | 78 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 381449

QC Batch: 117872
Prep Batch: 99656

Date Analyzed: 2014-12-10
QC Preparation: 2014-12-09

Analyzed By: SC
Prepared By: SC

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | | 3 | 591 | mg/Kg | 1 | 250 | 372 | 88 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | | 3 | 590 | mg/Kg | 1 | 250 | 372 | 87 | 70 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | | | MS | MSD | | | Spike | MS | MSD | Rec. |
|-------------|-----------------|-----------------|--------|--------|-------|------|--------|------|------|----------|
| Surrogate | | | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| n-Tricosane | Q _{sr} | Q _{sr} | 133 | 137 | mg/Kg | 1 | 100 | 133 | 137 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 381460

QC Batch: 117983
Prep Batch: 99742

Date Analyzed: 2014-12-12
QC Preparation: 2014-12-12

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 233 | mg/Kg | 1 | 250 | 21.7 | 84 | 80 - 120 |

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 231 | mg/Kg | 1 | 250 | 21.7 | 84 | 80 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) Spiked Sample: 381462

QC Batch: 117983
Prep Batch: 99742

Date Analyzed: 2014-12-12
QC Preparation: 2014-12-12

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|----|----|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | Qs | Qs | 1,2,4 11200 | mg/Kg | 100 | 250 | 8260 | 1176 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----|----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | Qs | Qs | 1,2,4 11200 | mg/Kg | 100 | 250 | 8260 | 1176 | 80 - 120 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (xMS-1) Spiked Sample: 383619

QC Batch: 118409
Prep Batch: 100120

Date Analyzed: 2015-01-06
QC Preparation: 2015-01-05

Analyzed By: SC
Prepared By: SC

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----|----|--------------|-------|------|-----------------|------------------|------|---------------|
| DRO | Qs | Qs | 3 2240 | mg/Kg | 2 | 250 | 2460 | -88 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----|----|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| DRO | Qs | Qs | 3 2150 | mg/Kg | 2 | 250 | 2460 | -124 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| | | | MS | MSD | | | Spike | MS | MSD | Rec. |
|-------------|-----------------|-----------------|--------|--------|-------|------|--------|------|------|----------|
| Surrogate | | | Result | Result | Units | Dil. | Amount | Rec. | Rec. | Limit |
| n-Tricosane | Q _{sr} | Q _{sr} | 156 | 159 | mg/Kg | 2 | 100 | 156 | 159 | 70 - 130 |

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Matrix Spike (MS-1) Spiked Sample: 383642

QC Batch: 118545
Prep Batch: 100163

Date Analyzed: 2015-01-09
QC Preparation: 2015-01-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|----------------|----------------|--------------|-------|-------|-----------------|------------------|----------|---------------|
| Benzene | Q _s | Q _s | 3 | 1.37 | mg/Kg | 1 | 2.00 | <0.00533 | 68 70 - 130 |
| Toluene | | | 3 | 1.48 | mg/Kg | 1 | 2.00 | <0.00645 | 74 70 - 130 |
| Ethylbenzene | | | 3 | 1.59 | mg/Kg | 1 | 2.00 | <0.0116 | 80 70 - 130 |
| Xylene | | | 3 | 4.81 | mg/Kg | 1 | 6.00 | <0.00874 | 80 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|----------------|----------------|---------------|-------|-------|-----------------|------------------|----------|---------------|-----|--------------|
| Benzene | Q _s | Q _s | 3 | 1.34 | mg/Kg | 1 | 2.00 | <0.00533 | 67 70 - 130 | 2 | 20 |
| Toluene | | | 3 | 1.43 | mg/Kg | 1 | 2.00 | <0.00645 | 72 70 - 130 | 3 | 20 |
| Ethylbenzene | | | 3 | 1.52 | mg/Kg | 1 | 2.00 | <0.0116 | 76 70 - 130 | 4 | 20 |
| Xylene | | | 3 | 4.65 | mg/Kg | 1 | 6.00 | <0.00874 | 78 70 - 130 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 1.62 | 1.69 | mg/Kg | 1 | 2 | 81 | 84 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.84 | 1.90 | mg/Kg | 1 | 2 | 92 | 95 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 383703

QC Batch: 118546
Prep Batch: 100163

Date Analyzed: 2015-01-09
QC Preparation: 2015-01-07

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----------------|----------------|--------------|-------|-------|-----------------|------------------|-------|---------------|
| GRO | Q _s | Q _s | 3 | 13.0 | mg/Kg | 1 | 20.0 | <2.32 | 65 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|---------------|-------|-------|-----------------|------------------|-------|---------------|-----|--------------|
| GRO | | | 3 | 15.6 | mg/Kg | 1 | 20.0 | <2.32 | 78 70 - 130 | 18 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
| Trifluorotoluene (TFT) | 1.65 | 1.72 | mg/Kg | 1 | 2 | 82 | 86 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 1.81 | 1.82 | mg/Kg | 1 | 2 | 90 | 91 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 383755

QC Batch: 118679
Prep Batch: 100349

Date Analyzed: 2015-01-15
QC Preparation: 2015-01-15

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 428 | mg/Kg | 5 | 250 | 194 | 94 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 434 | mg/Kg | 5 | 250 | 194 | 96 | 80 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 117866

Date Analyzed: 2014-12-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 3 | mg/kg | 0.100 | 0.0932 | 93 | 80 - 120 | 2014-12-09 |
| Toluene | | 3 | mg/kg | 0.100 | 0.0956 | 96 | 80 - 120 | 2014-12-09 |
| Ethylbenzene | | 3 | mg/kg | 0.100 | 0.0947 | 95 | 80 - 120 | 2014-12-09 |
| Xylene | | 3 | mg/kg | 0.300 | 0.284 | 95 | 80 - 120 | 2014-12-09 |

Standard (CCV-2)

QC Batch: 117866

Date Analyzed: 2014-12-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 3 | mg/kg | 0.100 | 0.0962 | 96 | 80 - 120 | 2014-12-09 |
| Toluene | | 3 | mg/kg | 0.100 | 0.0968 | 97 | 80 - 120 | 2014-12-09 |
| Ethylbenzene | | 3 | mg/kg | 0.100 | 0.0960 | 96 | 80 - 120 | 2014-12-09 |
| Xylene | | 3 | mg/kg | 0.300 | 0.292 | 97 | 80 - 120 | 2014-12-09 |

Standard (CCV-1)

QC Batch: 117867

Date Analyzed: 2014-12-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 3 | mg/Kg | 1.00 | 0.913 | 91 | 80 - 120 | 2014-12-09 |

Standard (CCV-2)

QC Batch: 117867

Date Analyzed: 2014-12-09

Analyzed By: AK

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 35 of 40
Lea County, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 3 | mg/Kg | 1.00 | 0.861 | 86 | 80 - 120 | 2014-12-09 |

Standard (CCV-1)

QC Batch: 117872

Date Analyzed: 2014-12-10

Analyzed By: SC

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 3 | mg/Kg | 250 | 276 | 110 | 80 - 120 | 2014-12-10 |

Standard (CCV-2)

QC Batch: 117872

Date Analyzed: 2014-12-10

Analyzed By: SC

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 3 | mg/Kg | 250 | 295 | 118 | 80 - 120 | 2014-12-10 |

Standard (CCV-1)

QC Batch: 117983

Date Analyzed: 2014-12-12

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 23.9 | 96 | 90 - 110 | 2014-12-12 |

Standard (CCV-2)

QC Batch: 117983

Date Analyzed: 2014-12-12

Analyzed By: RL

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 36 of 40
Lea County, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 24.0 | 96 | 90 - 110 | 2014-12-12 |

Standard (CCV-3)

QC Batch: 117983

Date Analyzed: 2014-12-12

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 24.2 | 97 | 90 - 110 | 2014-12-12 |

Standard (CCV-1)

QC Batch: 118409

Date Analyzed: 2015-01-06

Analyzed By: SC

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 3 | mg/Kg | 250 | 211 | 84 | 80 - 120 | 2015-01-06 |

Standard (CCV-2)

QC Batch: 118409

Date Analyzed: 2015-01-06

Analyzed By: SC

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 3 | mg/Kg | 250 | 216 | 86 | 80 - 120 | 2015-01-06 |

Standard (CCV-1)

QC Batch: 118545

Date Analyzed: 2015-01-09

Analyzed By: AK

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 37 of 40
Lea County, NM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 3 | mg/kg | 0.100 | 0.0930 | 93 | 80 - 120 | 2015-01-09 |
| Toluene | | 3 | mg/kg | 0.100 | 0.0940 | 94 | 80 - 120 | 2015-01-09 |
| Ethylbenzene | | 3 | mg/kg | 0.100 | 0.0928 | 93 | 80 - 120 | 2015-01-09 |
| Xylene | | 3 | mg/kg | 0.300 | 0.280 | 93 | 80 - 120 | 2015-01-09 |

Standard (CCV-2)

QC Batch: 118545

Date Analyzed: 2015-01-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 3 | mg/kg | 0.100 | 0.0945 | 94 | 80 - 120 | 2015-01-09 |
| Toluene | | 3 | mg/kg | 0.100 | 0.0941 | 94 | 80 - 120 | 2015-01-09 |
| Ethylbenzene | | 3 | mg/kg | 0.100 | 0.0932 | 93 | 80 - 120 | 2015-01-09 |
| Xylene | | 3 | mg/kg | 0.300 | 0.279 | 93 | 80 - 120 | 2015-01-09 |

Standard (CCV-1)

QC Batch: 118546

Date Analyzed: 2015-01-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 3 | mg/Kg | 1.00 | 1.03 | 103 | 80 - 120 | 2015-01-09 |

Standard (CCV-2)

QC Batch: 118546

Date Analyzed: 2015-01-09

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | | 3 | mg/Kg | 1.00 | 0.928 | 93 | 80 - 120 | 2015-01-09 |

Report Date: May 4, 2015
Fox 30 #3 and #4

Work Order: 14120801
Fox 30 #3 and #4

Page Number: 38 of 40
Lea County, NM

Standard (CCV-1)

QC Batch: 118679

Date Analyzed: 2015-01-15

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 23.4 | 94 | 90 - 110 | 2015-01-15 |

Standard (CCV-2)

QC Batch: 118679

Date Analyzed: 2015-01-15

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 23.6 | 94 | 90 - 110 | 2015-01-15 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | LELAP | LELAP-02003 | Lubbock |
| 2 | NELAP | T104704219-15-11 | Lubbock |
| 3 | NELAP | T104704392-14-8 | Midland |
| 4 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Result Comments

- 1 Sample added out of hold.
- 2 Sample added after hold expired.
- 3 Sample added out of hold.
- 4 Sample added after hold expired.
- 5 Sample added out of hold.
- 6 Sample added after hold expired.
- 7 Sample added out of hold.
- 8 Sample added after hold expired.
- 9 Analyst prep error; LCS/LCSD shows recovery for batch.
- 10 Analyst prep error; LCS/LCSD shows recovery for batch.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: CH2M HILL Phone #:
Address: (Street, City, Zip) 306 W. Wall St. Suite 1107 Midland Fax #:
Contact Person: Leslie Voss / Zane Kurtz E-mail: Leslie.Voss@CH2M.COM
Invoice to: EOG Resources Zane-Kurtz@eogresources.com
(If different from above)
Project #: Project Name: Fox 30 #3 and #4
Project Location (including state): Lea County NM Sampler Signature: R w m

ANALYSIS REQUEST
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX | | | | PRESERVATIVE METHOD | | | | | | SAMPLING | | MTBE 8021 / 602 / 8260 / 625 | BTX 8021 / 602 / 8260 / 625 | TPH 148 1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270 / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260 / 624 | GC/MS Semi. Vol. 8270 / 625 | PCB's 8082 / 608 | Pesticides 8081 / 608 | BOD, TSS, pH | Moisture Content | ClF, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity | Na, Ca, Mg, K, TDS, EC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|------------|--------------|-----------------|--------|--|--|--|---------------------|--|--|--|--|--|----------|--|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|---|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|---|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|-------------------------|------------|--------------|-----------------|--------|--|--|--|---------------------|--|--|--|--|--|----------|--|------------------------------|-----------------------------|--------------------------------------|---------------------------|----------------|---|-------------------------------------|----------------|---------------------|-----------------|-----|-----------------------|-----------------------------|------------------|-----------------------|--------------|------------------|---|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | |
|--------------------------------|--------------------|------------|-------------|--------------------------|---------------------|------------|-------------|-----------|
| Relinquished by: Warren Maurer | Company: CH2M HILL | Date: 12/5 | Time: 1605 | Received by: Am TA | Company: 12-5-14 | Date: 12/5 | Time: 16:36 | INST 12.1 |
| Relinquished by: Am TA | Company: 12-8-14 | Date: 12/8 | Time: 09:31 | Received by: Brenda Ward | Company: TA Lubbock | Date: 12/8 | Time: 5:30 | OBS 4.0 |
| Relinquished by: | Company: | Date: | Time: | Received by: | Company: | Date: | Time: | COR 3.9 |

LAB USE ONLY

Intact ☒ Y ☐ N
Headspace ☒ Y ☐ N / NA

Log-in-Review

REMARKS:

01 - (IC) - Lubbock

- ☐
- Dry Weight Basis Required
-
- ☐
- TRRP Report Required
-
- ☐
- Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Carrier #

carry in

email: lab@traceanalysis.com

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

ANALYSIS REQUEST
(Circle or Specify Method No.)

| | | |
|--|---|---|
| | X | Turn Around Time if different from standard |
| | X | Hold pending analysis |

| | |
|---|---|
| <p>LAB USE ONLY</p> <p>Intact <u>Y / N</u></p> <p>Headspace <u>Y / N / NA</u></p> <p>Log-in-Review _____</p> | <p>REMARKS:</p> <div style="margin-top: 20px;"> <input type="checkbox"/> Dry Weight Basis Required <input type="checkbox"/> TRRP Report Required <input type="checkbox"/> Check If Special Reporting Limits Are Needed </div> |
|---|---|

Carrier #

ORIGINAL COPY

Summary Report

(Corrected Report)

Leslie Voss
CH2M Hill
700 Main St.
Suite 400
Baton Rouge, LA 70802

Report Date: May 4, 2015

Work Order: 14120801



Project Location: Lea County, NM
Project Name: Fox 30 #3 and #4

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|------------------|--------|------------|------------|---------------|
| 381458 | Fox 30-SW-W | soil | 2014-12-04 | 15:40 | 2014-12-05 |
| 381459 | Fox 30-SW-N | soil | 2014-12-04 | 16:00 | 2014-12-05 |
| 381460 | Fox 30-SW-E | soil | 2014-12-04 | 16:25 | 2014-12-05 |
| 381461 | Fox 30-SW-S | soil | 2014-12-04 | 16:50 | 2014-12-05 |
| 381462 | Fox 30-BH-1-5.75 | soil | 2014-12-04 | 17:20 | 2014-12-05 |
| 381463 | Fox 30-SW-W-1 | soil | 2014-12-04 | 15:45 | 2014-12-05 |
| 381464 | Fox 30-SW-W-2 | soil | 2014-12-04 | 15:50 | 2014-12-05 |
| 381465 | Fox 30-SW-N-1 | soil | 2014-12-04 | 16:05 | 2014-12-05 |
| 381466 | Fox 30-SW-N-2 | soil | 2014-12-04 | 16:10 | 2014-12-05 |
| 381467 | Fox 30-SW-E-1 | soil | 2014-12-04 | 16:30 | 2014-12-05 |
| 381468 | Fox 30-SW-E-2 | soil | 2014-12-04 | 16:35 | 2014-12-05 |
| 381469 | Fox 30-SW-S-1 | soil | 2014-12-04 | 16:55 | 2014-12-05 |
| 381470 | Fox 30-SW-S-2 | soil | 2014-12-04 | 17:00 | 2014-12-05 |

| Sample - Field Code | BTEX | | | | TPH DRO - NEW | TPH GRO |
|----------------------------------|------------------------------------|-----------------------|-------------------------|-----------------------|-----------------------|----------------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 381458 - Fox 30-SW-W | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <50.0 | <4.00 |
| 381459 - Fox 30-SW-N | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <50.0 | <4.00 |
| 381460 - Fox 30-SW-E | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <50.0 | <4.00 |
| 381461 - Fox 30-SW-S | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <50.0 | <4.00 |
| 381462 - Fox 30-BH-1-5.75 | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <0.0200 ^{Qs} | <50.0 | <4.00 |
| 381465 - Fox 30-SW-N-1 | <0.0200 ¹ _{Qs} | <0.0200 | <0.0200 | <0.0200 | <50.0 _{H,Qs} | <4.00 ² _{Qs} |

*continued ...*¹Sample added out of hold.²Sample added after hold expired.

... continued

| Sample - Field Code | BTEX | | | | TPH DRO - NEW | TPH GRO |
|-------------------------------|------------------------------------|--------------------|-------------------------|-------------------|-----------------------|----------------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | DRO (mg/Kg) | GRO (mg/Kg) |
| 381466 - Fox 30-SW-N-2 | <0.0200 ³ _{Qs} | <0.0200 | <0.0200 | <0.0200 | <50.0 _{H,Qs} | <4.00 ⁴ _{Qs} |
| 381469 - Fox 30-SW-S-1 | <0.0200 ⁵ _{Qs} | <0.0200 | <0.0200 | <0.0200 | <50.0 _{H,Qs} | <4.00 ⁶ _{Qs} |
| 381470 - Fox 30-SW-S-2 | <0.0200 ⁷ _{Qs} | <0.0200 | <0.0200 | <0.0200 | <50.0 _{H,Qs} | <4.00 ⁸ _{Qs} |

Sample: 381458 - Fox 30-SW-W

| Param | Flag | Result | Units | RL |
|----------|---------------|--------|-------|----|
| Chloride | _{Qs} | <25.0 | mg/Kg | 25 |

Sample: 381459 - Fox 30-SW-N

| Param | Flag | Result | Units | RL |
|----------|---------------|-------------|-------|----|
| Chloride | _{Qs} | 1460 | mg/Kg | 25 |

Sample: 381460 - Fox 30-SW-E

| Param | Flag | Result | Units | RL |
|----------|---------------|--------|-------|----|
| Chloride | _{Qs} | <25.0 | mg/Kg | 25 |

Sample: 381461 - Fox 30-SW-S

| Param | Flag | Result | Units | RL |
|----------|---------------|-------------|-------|----|
| Chloride | _{Qs} | 5450 | mg/Kg | 25 |

Sample: 381462 - Fox 30-BH-1-5.75

| Param | Flag | Result | Units | RL |
|----------|---------------|-------------|-------|----|
| Chloride | _{Qs} | 8260 | mg/Kg | 25 |

Sample: 381463 - Fox 30-SW-W-1 Sample: 381464 - Fox 30-SW-W-2 Sample: 381465 - Fox 30-SW-N-1³Sample added out of hold.⁴Sample added after hold expired.⁵Sample added out of hold.⁶Sample added after hold expired.⁷Sample added out of hold.⁸Sample added after hold expired.

| Param | Flag | Result | Units | RL |
|----------|------|------------|-------|----|
| Chloride | | 117 | mg/Kg | 25 |

Sample: 381466 - Fox 30-SW-N-2

| Param | Flag | Result | Units | RL |
|----------|------|-------------|-------|----|
| Chloride | | 63.2 | mg/Kg | 25 |

Sample: 381467 - Fox 30-SW-E-1 Sample: 381468 - Fox 30-SW-E-2 Sample: 381469 - Fox 30-SW-S-1

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <25.0 | mg/Kg | 25 |

Sample: 381470 - Fox 30-SW-S-2

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <25.0 | mg/Kg | 25 |



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Leslie Voss
CH2M Hill
700 Main St.
Suite 400
Baton Rouge, LA, 70802

Report Date: June 5, 2015

Work Order: 15052706



Project Location: Lea Co, NM
Project Name: FOX 30 #3 & #4
Project Number: 653209.TM.18

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------------|--------|------------|------------|---------------|
| 393982 | FX30-3.5-4.0-NW-05192015 | soil | 2015-05-19 | 12:35 | 2015-05-26 |
| 393983 | FX30-3.5-4.0-SW-05192015 | soil | 2015-05-19 | 12:25 | 2015-05-26 |
| 393984 | FX30-6.5-7.0-FL-05192015 | soil | 2015-05-19 | 10:50 | 2015-05-26 |
| 393985 | FX30-8.5-9.0-FL-05192015 | soil | 2015-05-19 | 11:30 | 2015-05-26 |
| 393986 | FX30-10.5-11.0-FL-05192015 | soil | 2015-05-19 | 12:00 | 2015-05-26 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

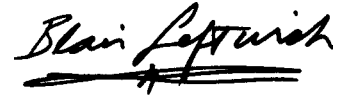
TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with two horizontal strokes.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project FOX 30 #3 & #4 were received by TraceAnalysis, Inc. on 2015-05-26 and assigned to work order 15052706. Samples for work order 15052706 were received intact at a temperature of 2.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|----------------|---------------|---------------------|-------------|---------------------|
| Chloride (Titration) | SM 4500-Cl B | 103095 | 2015-05-29 at 08:58 | 121840 | 2015-05-29 at 08:58 |
| Moisture Content | ASTM D 2216-05 | 103206 | 2015-06-03 at 16:17 | 122014 | 2015-06-04 at 14:03 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15052706 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 393982 - FX30-3.5-4.0-NW-05192015

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A

QC Batch: 121840 Date Analyzed: 2015-05-29 Analyzed By: AK

Prep Batch: 103095 Sample Preparation: 2015-05-29 Prepared By: AK

| Parameter | F | C | SDL | SQL | Method | Units | Dilution | SDL | SQL | MDL |
|-----------|------|---|--------|--------|--------|-------|----------|------|--------------|--------------|
| | | | Based | Based | Blank | | | | (Unadjusted) | (Unadjusted) |
| | | | Result | Result | Result | | | | | |
| Chloride | Qs,U | | <21.7 | <22.5 | <21.7 | mg/Kg | 5 | 21.7 | 4 | 3.85 |

Sample: 393982 - FX30-3.5-4.0-NW-05192015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A

QC Batch: 122014 Date Analyzed: 2015-06-04 Analyzed By: AK

Prep Batch: 103206 Sample Preparation: 2015-06-03 Prepared By: AK

| Parameter | F | C | RL | Units | Dilution | RL |
|-----------|---|---|--------|-------|----------|----|
| | | | Result | | | |
| Moisture | | 1 | 11.2 | % | 1 | 0 |

Sample: 393983 - FX30-3.5-4.0-SW-05192015

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A

QC Batch: 121840 Date Analyzed: 2015-05-29 Analyzed By: AK

Prep Batch: 103095 Sample Preparation: 2015-05-29 Prepared By: AK

| Parameter | F | C | SDL | SQL | Method | Units | Dilution | SDL | SQL | MDL |
|-----------|------|---|--------|--------|--------|-------|----------|------|--------------|--------------|
| | | | Based | Based | Blank | | | | (Unadjusted) | (Unadjusted) |
| | | | Result | Result | Result | | | | | |
| Chloride | Qs,U | | <22.0 | <22.9 | <22.0 | mg/Kg | 5 | 22.0 | 4 | 3.85 |

Sample: 393983 - FX30-3.5-4.0-SW-05192015

Laboratory: Midland

Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A

Report Date: June 5, 2015
653209.TM.18

Work Order: 15052706
FOX 30 #3 & #4

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Lea Co, NM

QC Batch: 122014
Prep Batch: 103206

Date Analyzed: 2015-06-04
Sample Preparation: 2015-06-03

Analyzed By: AK
Prepared By: AK

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 1 | 12.6 | % | 1 | 0 |

Sample: 393984 - FX30-6.5-7.0-FL-05192015

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 121840

Prep Batch: 103095

Analytical Method: SM 4500-Cl B

Date Analyzed: 2015-05-29

Sample Preparation: 2015-05-29

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | Qs | | 1040 | 1040 | <23.0 | mg/Kg | 5 | 23.0 | 4 | 3.85 |

Sample: 393984 - FX30-6.5-7.0-FL-05192015

Laboratory: Midland

Analysis: Moisture Content

QC Batch: 122014

Prep Batch: 103206

Analytical Method: ASTM D 2216-05

Date Analyzed: 2015-06-04

Sample Preparation: 2015-06-03

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 1 | 16.2 | % | 1 | 0 |

Sample: 393985 - FX30-8.5-9.0-FL-05192015

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 121840

Prep Batch: 103095

Analytical Method: SM 4500-Cl B

Date Analyzed: 2015-05-29

Sample Preparation: 2015-05-29

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | Qs | | 966 | 966 | <21.4 | mg/Kg | 5 | 21.4 | 4 | 3.85 |

Report Date: June 5, 2015
653209.TM.18

Work Order: 15052706
FOX 30 #3 & #4

Page Number: 7 of 14
Lea Co, NM

Sample: 393985 - FX30-8.5-9.0-FL-05192015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 122014 Date Analyzed: 2015-06-04 Analyzed By: AK
Prep Batch: 103206 Sample Preparation: 2015-06-03 Prepared By: AK

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 1 | 9.93 | % | 1 | 0 |

Sample: 393986 - FX30-10.5-11.0-FL-05192015

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 121840 Date Analyzed: 2015-05-29 Analyzed By: AK
Prep Batch: 103095 Sample Preparation: 2015-05-29 Prepared By: AK

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | Qs | | 1410 | 1410 | <21.5 | mg/Kg | 5 | 21.5 | 4 | 3.85 |

Sample: 393986 - FX30-10.5-11.0-FL-05192015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 122014 Date Analyzed: 2015-06-04 Analyzed By: AK
Prep Batch: 103206 Sample Preparation: 2015-06-03 Prepared By: AK

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 1 | 10.4 | % | 1 | 0 |

Method Blanks

Method Blank (1)

| | | | | | |
|-------------|--------|-----------------|------------|--------------|----|
| QC Batch: | 121840 | Date Analyzed: | 2015-05-29 | Analyzed By: | AK |
| Prep Batch: | 103095 | QC Preparation: | 2015-05-29 | Prepared By: | AK |

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride | | | <3.85 | mg/Kg | 3.85 |

Duplicates

Duplicate (1) Duplicated Sample: 393995

| | | | | | |
|-------------|--------|-----------------|------------|--------------|----|
| QC Batch: | 122014 | Date Analyzed: | 2015-06-04 | Analyzed By: | AK |
| Prep Batch: | 103206 | QC Preparation: | 2015-06-03 | Prepared By: | AK |

| Param | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|----------|---|---|---------------------|------------------|-------|----------|-----|--------------|
| Moisture | | 1 | 8.52 | 9.53 | % | 1 | 11 | 20 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

| | | | | | |
|-------------|--------|-----------------|------------|--------------|----|
| QC Batch: | 121840 | Date Analyzed: | 2015-05-29 | Analyzed By: | AK |
| Prep Batch: | 103095 | QC Preparation: | 2015-05-29 | Prepared By: | AK |

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2420 | mg/Kg | 5 | 2500 | <19.2 | 97 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | | 2610 | mg/Kg | 5 | 2500 | <19.2 | 104 | 85 - 115 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 394173

QC Batch: 121840
Prep Batch: 103095

Date Analyzed: 2015-05-29
QC Preparation: 2015-05-29

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|----|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | qs | | 16800 | mg/Kg | 5 | 2500 | 13300 | 140 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | qs | | 16800 | mg/Kg | 5 | 2500 | 13300 | 140 | 78.9 - 121 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

| | | | | | | | | |
|------------------|---|---|-------|---------------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 121840 | | | | Date Analyzed: 2015-05-29 | | | Analyzed By: AK | |
| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-05-29 |

Standard (CCV-1)

| | | | | | | | | |
|------------------|---|---|-------|---------------------------|------------------------|-----------------------------|-------------------------------|------------------|
| QC Batch: 121840 | | | | Date Analyzed: 2015-05-29 | | | Analyzed By: AK | |
| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-05-29 |

Limits of Detection (LOD)

| Test | Method | Matrix | Instrument | Analyte | Spike Amount | Pass |
|----------------------|--------------|--------|------------|----------|-----------------|------|
| Chloride (Titration) | SM 4500-Cl B | soil | N/A | Chloride | 10.0 | Pass |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-14-8 | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

Summary Report

Leslie Voss
CH2M Hill
700 Main St.
Suite 400
Baton Rouge, LA 70802

Report Date: June 5, 2015

Work Order: 15052706



Project Location: Lea Co, NM
Project Name: FOX 30 #3 & #4
Project Number: 653209.TM.18

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------------|--------|------------|------------|---------------|
| 393982 | FX30-3.5-4.0-NW-05192015 | soil | 2015-05-19 | 12:35 | 2015-05-26 |
| 393983 | FX30-3.5-4.0-SW-05192015 | soil | 2015-05-19 | 12:25 | 2015-05-26 |
| 393984 | FX30-6.5-7.0-FL-05192015 | soil | 2015-05-19 | 10:50 | 2015-05-26 |
| 393985 | FX30-8.5-9.0-FL-05192015 | soil | 2015-05-19 | 11:30 | 2015-05-26 |
| 393986 | FX30-10.5-11.0-FL-05192015 | soil | 2015-05-19 | 12:00 | 2015-05-26 |

Sample: 393982 - FX30-3.5-4.0-NW-05192015

| Param | Flag | SDL Result | SQL Result | Units |
|----------|------|------------|------------|-------|
| Chloride | Qs,U | <21.7 | <22.5 | mg/Kg |
| Moisture | | 11.2 | 11.2 | % |

Sample: 393983 - FX30-3.5-4.0-SW-05192015

| Param | Flag | SDL Result | SQL Result | Units |
|----------|------|------------|------------|-------|
| Chloride | Qs,U | <22.0 | <22.9 | mg/Kg |
| Moisture | | 12.6 | 12.6 | % |

Sample: 393984 - FX30-6.5-7.0-FL-05192015


| Param | Flag | SDL Result | SQL Result | Units |
|----------|----------------|---------------|---------------|-------|
| Chloride | Q _s | 1040 | 1040 | mg/Kg |
| Moisture | | 16.2 | 16.2 | % |

Sample: 393985 - FX30-8.5-9.0-FL-05192015

| Param | Flag | SDL Result | SQL Result | Units |
|----------|----------------|---------------|---------------|-------|
| Chloride | Q _s | 966 | 966 | mg/Kg |
| Moisture | | 9.93 | 9.93 | % |

Sample: 393986 - FX30-10.5-11.0-FL-05192015

| Param | Flag | SDL Result | SQL Result | Units |
|----------|----------------|---------------|---------------|-------|
| Chloride | Q _s | 1410 | 1410 | mg/Kg |
| Moisture | | 10.4 | 10.4 | % |



TRACEANALYSIS, INC.

| | | | | |
|--|-------------------------|--------------|--------------|------------------|
| 6701 Aberdeen Avenue, Suite 9 | Lubbock, Texas 79424 | 800-378-1296 | 806-794-1296 | FAX 806-794-1298 |
| 200 East Sunset Road, Suite E | El Paso, Texas 79922 | | 915-585-3443 | FAX 915-585-4944 |
| 5002 Basin Street, Suite A1 | Midland, Texas 79703 | | 432-689-6301 | FAX 432-689-6313 |
| (BioAquatic) 2501 Mayes Rd., Suite 100 | Carrollton, Texas 75006 | | 972-242-7750 | |
| E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com | | | | |

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Leslie Voss
CH2M Hill
12750 Merit Dr.
Ste. 1100
Dallas, Tx, 75251

Report Date: September 11, 2015

Work Order: 15090334



Project Location: Lea Co, NM
Project Name: FOX 30 #3
Project Number: 653209.TM.18

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------------|--------|------------|------------|---------------|
| 403891 | SSFX30-11-FL-09032015 | soil | 2015-09-03 | 10:15 | 2015-09-03 |
| 403892 | SSFX30-16-FL-09032015 | soil | 2015-09-03 | 10:30 | 2015-09-03 |
| 403893 | SSFX30-21-FL-09032015 | soil | 2015-09-03 | 10:55 | 2015-09-03 |

Notes

- **Work Order 15090334:** Dry Weight Basis Required. Check if special Reporting Limits are needed

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

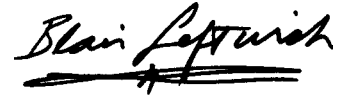
TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

All sample results are reported on a dry weight basis.

For inorganic analyses, the term MQL should actually read PQL.

A handwritten signature in black ink that reads "Blair Leftwich". The signature is written in a cursive style and is underlined with two horizontal strokes.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

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Case Narrative

Samples for project FOX 30 #3 were received by TraceAnalysis, Inc. on 2015-09-03 and assigned to work order 15090334. Samples for work order 15090334 were received intact at a temperature of 33.4 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|------------------|----------------|---------------|---------------------|-------------|---------------------|
| Chloride (IC) | E 300.0 | 105533 | 2015-09-10 at 15:00 | 124791 | 2015-09-10 at 16:23 |
| Moisture Content | ASTM D 2216-05 | 105436 | 2015-09-04 at 11:13 | 124681 | 2015-09-05 at 10:04 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15090334 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Note: All sample results are reported on a dry weight basis.

Sample: 403891 - SSFX30-11-FL-09032015

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 124791 Date Analyzed: 2015-09-10 Analyzed By: RL
Prep Batch: 105533 Sample Preparation: Prepared By: RL

| Parameter | F | C | SDL Based Result | SQL Based Result | Method Blank Result | Units | Dilution | SDL | SQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | | 1,2,4 | 1730 | 1730 | <27.8 | mg/Kg | 5 | 27.8 | 25 | 4.69 |

Sample: 403891 - SSFX30-11-FL-09032015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A
QC Batch: 124681 Date Analyzed: 2015-09-05 Analyzed By: AM
Prep Batch: 105436 Sample Preparation: Prepared By: AM

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 3 | 15.5 | % | 1 | 0 |

Sample: 403892 - SSFX30-16-FL-09032015

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 124791 Date Analyzed: 2015-09-10 Analyzed By: RL
Prep Batch: 105533 Sample Preparation: Prepared By: RL

| Parameter | F | C | SDL Based Result | SQL Based Result | Method Blank Result | Units | Dilution | SDL | SQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | | 1,2,4 | 1430 | 1430 | <26.4 | mg/Kg | 5 | 26.4 | 25 | 4.69 |

Sample: 403892 - SSFX30-16-FL-09032015

Laboratory: Midland
Analysis: Moisture Content Analytical Method: ASTM D 2216-05 Prep Method: N/A

Report Date: September 11, 2015
653209.TM.18

Work Order: 15090334
FOX 30 #3

Page Number: 6 of 14
Lea Co, NM

QC Batch: 124681
Prep Batch: 105436

Date Analyzed: 2015-09-05
Sample Preparation:

Analyzed By: AM
Prepared By: AM

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 3 | 11.1 | % | 1 | 0 |

Sample: 403893 - SSFX30-21-FL-09032015

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 124791
Prep Batch: 105533

Analytical Method: E 300.0
Date Analyzed: 2015-09-10
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride | | 1,2,4 | 304 | 304 | <4.91 | mg/Kg | 1 | 4.91 | 25 | 4.69 |

Sample: 403893 - SSFX30-21-FL-09032015

Laboratory: Midland
Analysis: Moisture Content
QC Batch: 124681
Prep Batch: 105436

Analytical Method: ASTM D 2216-05
Date Analyzed: 2015-09-05
Sample Preparation:

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

| Parameter | F | C | RL Result | Units | Dilution | RL |
|-----------|---|---|--------------|-------|----------|----|
| Moisture | | 3 | 4.47 | % | 1 | 0 |

Method Blanks

Method Blank (1)

| | | | | | |
|-------------|--------|-----------------|------------|--------------|----|
| QC Batch: | 124791 | Date Analyzed: | 2015-09-10 | Analyzed By: | RL |
| Prep Batch: | 105533 | QC Preparation: | 2015-09-10 | Prepared By: | RL |

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|-------|--------|-------|------------------|
| Chloride | | 1,2,4 | <4.69 | mg/Kg | 4.69 |

Duplicates

Duplicate (1) Duplicated Sample: 403891

| | | | | | |
|-------------|--------|-----------------|------------|--------------|----|
| QC Batch: | 124681 | Date Analyzed: | 2015-09-05 | Analyzed By: | AM |
| Prep Batch: | 105436 | QC Preparation: | 2015-09-04 | Prepared By: | AM |

| Param | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|----------|---|---|---------------------|------------------|-------|----------|-----|--------------|
| Moisture | | 3 | 15.2 | 15.5 | % | 1 | 2 | 20 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 124791
Prep Batch: 105533

Date Analyzed: 2015-09-10
QC Preparation: 2015-09-10

Analyzed By: RL
Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 258 | mg/Kg | 1 | 250 | <4.69 | 103 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 258 | mg/Kg | 1 | 250 | <4.69 | 103 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 403958

QC Batch: 124791
Prep Batch: 105533

Date Analyzed: 2015-09-10
QC Preparation: 2015-09-10

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|-------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1,2,4 | 1380 | mg/Kg | 5 | 1250 | 65.2 | 105 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|-------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1,2,4 | 1350 | mg/Kg | 5 | 1250 | 65.2 | 103 | 80 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

| QC Batch: 124791 | | | Date Analyzed: 2015-09-10 | | | Analyzed By: RL | | |
|------------------|---|-------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 24.1 | 96 | 90 - 110 | 2015-09-10 |

Standard (CCV-2)

| QC Batch: 124791 | | | Date Analyzed: 2015-09-10 | | | Analyzed By: RL | | |
|------------------|---|-------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 25.9 | 104 | 90 - 110 | 2015-09-10 |

Limits of Detection (LOD)

| Test | Method | Matrix | Instrument | Analyte | Spike Amount | Pass |
|---------------|---------|--------|------------|----------|-----------------|------|
| Chloride (IC) | E 300.0 | soil | Dionex IC | Chloride | 10.0 | Pass |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | LELAP | LELAP-02003 | Lubbock |
| 2 | NELAP | T104704219-15-11 | Lubbock |
| 3 | NELAP | T104704392-14-8 | Midland |
| 4 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

Report Date: September 11, 2015
653209.TM.18

Work Order: 15090334
FOX 30 #3

Page Number: 14 of 14
Lea Co, NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 1 (800) 378-1296

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Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
 Tel (915) 585-3443
 Fax (915) 585-4944
 1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name: CH 2M Hill

Phone #: Leslie Voss 469-352-5022
J. Dussor 520-954-2274

Address: (Street, City, Zip)
306 W. Wall St. Suite 1107 Midland, TX 79701

Fax #:

Contact Person: Leslie VOSS
Jennifer Dussor


E-mail: Leslie.Voss@ch2m.com
Tennifer.Dussor@ch2m.com

Invoice to:
(If different from above) Direct Bill EOG Resources, Zane Kurtz

Project #: 653209.TM.18

Project Name: Fox 30

Project Location (including state):
Lea County, NM

Sampler Signature: 

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

| | | | |
|------------------|----------|--------|-------|
| Relinquished by: | Company: | Date: | Time: |
| Amanda West | CH2M | 9/3/15 | 1700 |

Received by: TA Company: TA Date: 9-3-15 Time: 17:00

| | |
|------|------|
| INST | 512 |
| OBS | 33.4 |
| COR | 31.2 |

LAB USE ONLY

REMARKS:

Relinquished by: MA Company: TA Date: 9-4-15 Time: 10:29

Received by: _____ Company: _____ Date: _____ Time: _____

INST _____
OBS _____
COR _____

Intact Y N
Headspace Y N N

☒ Dry Weight Basis Required
☐ TRRP Report Required
☒ Check If Special Reporting Limits Are Needed

ng NMOC

Relinquished by: _____ Company: _____ Date: _____ Time: _____

| | | | |
|---------------------------------|-----------------------|------------------------|----------------------|
| Received by: <i>D. Smith</i> | Company: <i>TA</i> | Date: <i>9/9/15</i> | Time: <i>9:00</i> |
|---------------------------------|-----------------------|------------------------|----------------------|

COR 36
INST IR-3
OBS 3.4
COR 36

Log-in-Review AT

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # 0014

ORIGINAL COPY

Summary Report

Leslie Voss
CH2M Hill
12750 Merit Dr.
Ste. 1100
Dallas, Tx 75251

Report Date: September 11, 2015

Work Order: 15090334



Project Location: Lea Co, NM
Project Name: FOX 30 #3
Project Number: 653209.TM.18

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------------|--------|------------|------------|---------------|
| 403891 | SSFX30-11-FL-09032015 | soil | 2015-09-03 | 10:15 | 2015-09-03 |
| 403892 | SSFX30-16-FL-09032015 | soil | 2015-09-03 | 10:30 | 2015-09-03 |
| 403893 | SSFX30-21-FL-09032015 | soil | 2015-09-03 | 10:55 | 2015-09-03 |

Sample: 403891 - SSFX30-11-FL-09032015

| Param | Flag | SDL Result | MQL Result | Units |
|----------|------|-------------|-------------|-------|
| Chloride | | 1730 | 1730 | mg/Kg |
| Moisture | | 15.5 | 15.5 | % |

Sample: 403892 - SSFX30-16-FL-09032015

| Param | Flag | SDL Result | MQL Result | Units |
|----------|------|-------------|-------------|-------|
| Chloride | | 1430 | 1430 | mg/Kg |
| Moisture | | 11.1 | 11.1 | % |

Sample: 403893 - SSFX30-21-FL-09032015

| Param | Flag | SDL Result | MQL Result | Units |
|----------|------|-------------|-------------|-------|
| Chloride | | 304 | 304 | mg/Kg |
| Moisture | | 4.47 | 4.47 | % |



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

August 05, 2016

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Fox 30 State #3 and #4

OrderNo.: 1608085

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/2/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order: **1608085**Date Reported: **8/5/2016****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD
Project: Fox 30 State #3 and #4**Lab Order:** 1608085**Lab ID:** 1608085-001 **Collection Date:** 8/1/2016 11:09:00 AM
Client Sample ID: S-088210-22-080116-SP-01 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---------------------------------|--------|-----|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 8/3/2016 11:41:59 AM | 26766 |

Lab ID: 1608085-002 **Collection Date:** 8/1/2016 11:12:00 AM
Client Sample ID: S-088210-22-080116-SP-02 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch ID |
|---------------------------------|--------|-----|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 30 | | mg/Kg | 20 | 8/3/2016 12:19:12 PM | 26766 |

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608085

05-Aug-16

Client: GHD

Project: Fox 30 State #3 and #4

| | | | | | | | | | | |
|------------|----------|-----|-------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-26766 | | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | | Batch ID: 26766 | | RunNo: 36217 | | | | | |
| Prep Date: | 8/3/2016 | | Analysis Date: 8/3/2016 | | SeqNo: 1121709 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------|-----|-------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-26766 | | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | | Batch ID: 26766 | | RunNo: 36217 | | | | | |
| Prep Date: | 8/3/2016 | | Analysis Date: 8/3/2016 | | SeqNo: 1121710 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.5 | 90 | 110 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

 Client Name: **GHD**

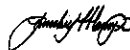
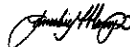
 Work Order Number: **1608085**

 RcptNo: **1**

 Received by/date: AS 08/02/16

 Logged By: **Lindsay Mangin** 8/2/2016 10:00:00 AM

 Completed By: **Lindsay Mangin** 8/2/2016 10:42:51 AM

 Reviewed By: JO 08/02/16



Chain of Custody

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

Log In

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

 # of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

 Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.2 | Good | Yes | | | |

| | |
|--|---|
| Client: <u>GMU - Albuquerque</u> | <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>48-hr</u> |
| Mailing Address: <u>6121 Indian School Blvd NE</u> | Project Name: <u>State Fox 30 State #34#4</u> |
| <u>Fe 200 Albuquerque NM 87110</u> | Project #: <u>088210/22</u> |
| Phone #: <u>505-884-0672</u> | Project Manager: <u>Bernard Bochrish</u> <u>505-280-0572</u> |
| Email or Fax#: <u>Bernard.Bochrish@ghd.com</u> | |
| IA/QC Package: | |
| <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) | |
| Accreditation | |
| <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____ | |
| <input type="checkbox"/> EDD (Type) _____ | |
| | Sampler: <u>Steve Perez</u> |
| | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | Sample Temperature: <u>2.2°C</u> |

☐ Standard☒ Rush

48-hr

Project Name:

Project Name: ~~St~~ Fox 30 State #3 & #4

Project #:

088210/22

Project Manager:

Manager: Bernard Bochisch
505-280-0577

Sampler:

Steve Perez





On Ice:

☒ Yes☐ No

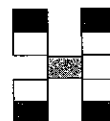
Sample Temperature:

2.20c

[illegible]

| | | | | | |
|-------|-------|---|---|----------|------|
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 1/16 | 1455 |  |  | 8/2/16 | 1935 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 1/16 | 1900 |  |  | 08/02/16 | 1000 |

Remarks:



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]