

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD

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IRP-3184

RECEIVED

By OCD; Dr. Oberding at 4:10 pm, Apr 15, 2015

April 15, 2015

Dr. Tomas Oberding
NMOCD District I
1625 N. French Drive
Hobbs, New Mexico 88240

APPROVED

Conditionally

By OCD; Dr. Oberding at 4:17 pm, Apr 15, 2015

Re: Belco AIA Federal Battery
30-025-26826
Section 14, T20S-R32E
Lea County, New Mexico

Stipulations:

- 1) RP will remain open until site abandonment
- 2) At abandonment, delineation under the liners will be conducted to ensure proper understanding of historic releases, at which point a new depth of excavation will be determined.

Dr. Oberding:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 reports dated July 16, 2014 and August 7, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after May 1, 2015.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

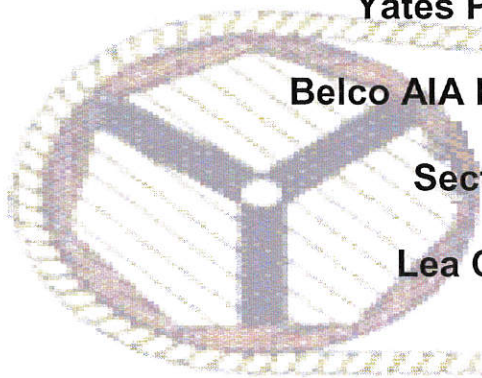
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



Yates Petroleum Corporation

Belco AIA Federal Battery Work Plan

Section 14, T20S-R32E

Lea County, New Mexico

April 15, 2015

I. Location

The well is located approximately 33 miles east of Carlsbad, NM and 2 miles north west off of Laguna Road.

II. Background

On July 16, 2014, Yates submitted to the NMOCD District I office a Form C-141 for the release of 40 B/PW with 30 B/PW recovered. The affected area was approximately 204 feet by 28 feet within the bermed battery and an area of 35 feet by 48 feet south of the bermed battery on the previous release area (this has already been remediated with the 1RP-3337 Work Plan). Prior to any sampling taking place, on August 7, 2014, Yates submitted to the NMOCD District I office a Form C-141 for the release of 35 B/PW with 30 B/PW recovered. The affected area was 116 feet by 25 feet within the bermed battery. Both releases were from failure of the transfer pump flow line causing a release of produced water. Initial delineation samples were taken in the S1 and S2 release areas (08/22/2014) and sent to a NMOCD approved laboratory (09/03/2014, results enclosed). Subsequent sampling was conducted in the S1 and S2 sample area (09/05/2014) and sent to a NMOCD approved laboratory (09/22/2014, results enclosed). Sampling again occurred in the S1 and S2 areas (10/29/2014) and sent to a NMOCD approved laboratory (11/03/2014, results enclosed). Due to elevated chlorides, sampling was again conducted in the S1 area (02/09/2015) and sent to a NMOCD approved laboratory (02/19/2015, results enclosed). No further (deeper) sampling could be conducted due to space restraints of working within tight proximity to the production tanks.

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. Previous core data indicates that no groundwater was discovered above 76 feet, making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

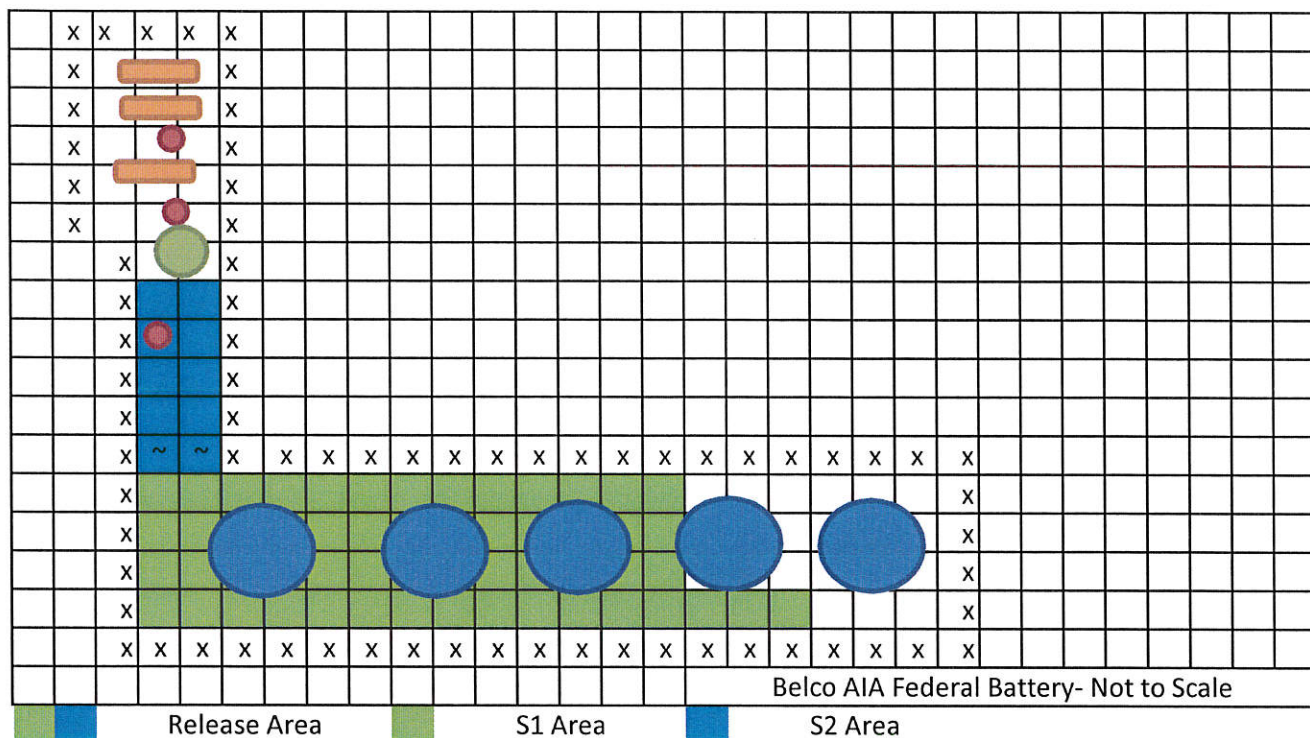
| | |
|--------------------------------|---------|
| Depth to ground water | 50-99' |
| Wellhead Protection Area | > 1000' |
| Distance to surface water body | > 1000' |

IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results and the depth to groundwater (>76'), Yates Petroleum Corporation will excavate six (6) feet of impacted soil within S2 sample area. The S2 sample area will then be backfilled with six (6) feet of clean caliche. Due to it being impracticable to relocate the tanks and battery location, Yates will then install a 20 ml liner under the tanks and up the sidewalls of the berm, converting the battery into a lined earthen bermed battery that will prohibit migration of contaminants downward to groundwater. At the time of Plug and Abandonment, when the tanks and equipment are removed from the battery, Yates will excavate four and a half (4½) feet of impacted soils that were under the liner. All excavated soil will be hauled to a NMOCD approved facility for disposal. Yates Petroleum Corporation will then re-install the 20 ml liner over the S1 release area with six (6) inches of sand above and below the liner for cushion. The remaining excavated area will be backfilled with one and a half (1½) feet of caliche and two (2) feet of like, similar topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report will be submitted to the NMOCD and request closure of the site.



| | Sample Area | Sample Date | Sample Type | Depth | BTEX | GRO | DRO | Chlorides |
|---------|--------------|-------------|-------------|-------|------|-------|-------|-----------|
| H402664 | | | | | | | | |
| S1-1' | Release Area | 8/22/2014 | Hand Auger | 1' | <0.3 | <10.0 | 23.3 | 12300 |
| S1-2' | Release Area | 8/22/2014 | Hand Auger | 2' | <0.3 | <10.0 | <10.0 | 17000 |
| S2-1' | Release Area | 8/22/2014 | Hand Auger | 1' | <0.3 | <10.0 | <10.0 | 4640 |
| H402857 | | | | | | | | |
| S1-3' | Release Area | 9/5/2014 | Backhoe | 3' | N/A | N/A | N/A | 15000 |
| S1-4' | Release Area | 9/5/2014 | Backhoe | 4' | N/A | N/A | N/A | 16800 |
| S1-5' | Release Area | 9/5/2014 | Backhoe | 5' | N/A | N/A | N/A | 8800 |
| S2-2' | Release Area | 9/5/2014 | Backhoe | 2' | N/A | N/A | N/A | 1680 |
| S2-3' | Release Area | 9/5/2014 | Backhoe | 3' | N/A | N/A | N/A | 1250 |
| S2-4' | Release Area | 9/5/2014 | Backhoe | 4' | N/A | N/A | N/A | 1170 |
| S2-5' | Release Area | 9/5/2014 | Backhoe | 5' | N/A | N/A | N/A | 1960 |
| H403347 | | | | | | | | |
| S1-6' | Release Area | 10/29/2014 | Backhoe | 6' | N/A | N/A | N/A | 1140 |
| S1-7' | Release Area | 10/29/2014 | Backhoe | 7' | N/A | N/A | N/A | 5120 |
| S1-8' | Release Area | 10/29/2014 | Backhoe | 8' | N/A | N/A | N/A | 1230 |
| S1-9' | Release Area | 10/29/2014 | Backhoe | 9' | N/A | N/A | N/A | 3120 |
| S2-6 | Release Area | 10/29/2014 | Backhoe | 6' | N/A | N/A | N/A | 4400 |
| S2-7' | Release Area | 10/29/2014 | Backhoe | 7' | N/A | N/A | N/A | 1040 |
| S2-8' | Release Area | 10/29/2014 | Backhoe | 8' | N/A | N/A | N/A | 256 |
| S2-9' | Release Area | 10/29/2014 | Backhoe | 9' | N/A | N/A | N/A | 368 |
| H500429 | | | | | | | | |
| S1-10' | Release Area | 2/9/2015 | Backhoe | 10' | N/A | N/A | N/A | 9200 |
| S1-11' | Release Area | 2/9/2015 | Backhoe | 11' | N/A | N/A | N/A | 22800 |
| S1-12' | Release Area | 2/9/2015 | Backhoe | 12' | N/A | N/A | N/A | 17400 |
| S1-13' | Release Area | 2/9/2015 | Backhoe | 13' | N/A | N/A | N/A | 17800 |
| S1-14' | Release Area | 2/9/2015 | Backhoe | 14' | N/A | N/A | N/A | 16600 |

Site Ranking is ten (10).

DTGW 50-99' (>76', Section 14, T20S-R32E, no groundwater present previous core data 9/17/2007)

All results are ppm. Chlorides for documentation

Released: 40 B/PW; Recovered: 30 B/PW Release Date: 07/10/2014

Released: 35 B/PW; Recovered: 30 B/PW Release Date: 08/04/2014

September 03, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/14 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 08/28/2014 | Sampling Date: | 08/22/2014 |
| Reported: | 09/03/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S1-1' (H402664-01)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.71 | 85.6 | 2.00 | 10.8 | |
| Toluene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.58 | 78.9 | 2.00 | 10.1 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.76 | 87.8 | 2.00 | 11.2 | |
| Total Xylenes* | <0.150 | 0.150 | 09/02/2014 | ND | 5.24 | 87.3 | 6.00 | 11.1 | |
| Total BTEx | <0.300 | 0.300 | 09/02/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 12300 | 16.0 | 09/03/2014 | ND | 400 | 100 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 08/30/2014 | ND | 177 | 88.7 | 200 | 9.49 | | |
| DRO >C10-C28 | 23.3 | 10.0 | 08/30/2014 | ND | 180 | 90.0 | 200 | 14.2 | | |

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 08/28/2014 | Sampling Date: | 08/22/2014 |
| Reported: | 09/03/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S1-2' (H402664-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.71 | 85.6 | 2.00 | 10.8 | |
| Toluene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.58 | 78.9 | 2.00 | 10.1 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.76 | 87.8 | 2.00 | 11.2 | |
| Total Xylenes* | <0.150 | 0.150 | 09/02/2014 | ND | 5.24 | 87.3 | 6.00 | 11.1 | |
| Total BTEX | <0.300 | 0.300 | 09/02/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 17000 | 16.0 | 09/03/2014 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/30/2014 | ND | 177 | 88.7 | 200 | 9.49 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/30/2014 | ND | 180 | 90.0 | 200 | 14.2 | |

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 08/28/2014
Reported: 09/03/2014
Project Name: BELCO AIA FEDERAL BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/22/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S2-1' (H402664-03)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.71 | 85.6 | 2.00 | 10.8 | |
| Toluene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.58 | 78.9 | 2.00 | 10.1 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/02/2014 | ND | 1.76 | 87.8 | 2.00 | 11.2 | |
| Total Xylenes* | <0.150 | 0.150 | 09/02/2014 | ND | 5.24 | 87.3 | 6.00 | 11.1 | |
| Total BTEX | <0.300 | 0.300 | 09/02/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4640 | 16.0 | 09/03/2014 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/30/2014 | ND | 177 | 88.7 | 200 | 9.49 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/30/2014 | ND | 180 | 90.0 | 200 | 14.2 | |

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

[illegible]

September 22, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/14 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 09/12/2014 | Sampling Date: | 09/05/2014 |
| Reported: | 09/22/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 3' (H402857-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 15000 | 16.0 | 09/18/2014 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S1 - 4' (H402857-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16800 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: S1 - 5' (H402857-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8800 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: S2 - 2' (H402857-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1680 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|----------------|
| Received: | 09/12/2014 | Sampling Date: | 09/05/2014 |
| Reported: | 09/22/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 3' (H402857-05)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1250 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: S2 - 4' (H402857-06)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1170 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Sample ID: S2 - 5' (H402857-07)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1960 | 16.0 | 09/18/2014 | ND | 400 | 100 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

November 03, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 10/30/2014 | Sampling Date: | 10/29/2014 |
| Reported: | 11/03/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S1-6' (H403347-01)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1140 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S1-7' (H403347-02)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5120 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S1-8' (H403347-03)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1230 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S1-9' (H403347-04)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3120 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 10/30/2014 | Sampling Date: | 10/29/2014 |
| Reported: | 11/03/2014 | Sampling Type: | Soil |
| Project Name: | BELCO AIA FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | NOT GIVEN | | |

Sample ID: S2-6' (H403347-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4400 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S2-7' (H403347-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1040 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S2-8' (H403347-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | |

Sample ID: S2-9' (H403347-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 368 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 3.92 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDEN LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

(lab use only)

ORDER #: H403347

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge | GW = Groundwater S=Soil/Solid | NP=Non-Potable Specify Other | TPH: 418.1 8015M 8015B | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO ₄ , Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | SAR | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT | |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|------------------------|-----|------------------|-----|--------------------------------|------|---|------|-----------------|-----------------------------|-------------------------------|------------------------------|------------------------|----------------------|-------------------------|---|-----------------|---------------------------------|-----------|---------------|------------------------------|-----|----------|-----------|-----|--|--------------|--|
| | S1-6' | | | 10/29/2014 | 1:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S1-7' | | | 10/29/2014 | 1:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S1-8' | | | 10/29/2014 | 1:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S1-9' | | | 10/29/2014 | 1:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2-6' | | | 10/29/2014 | 2:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2-7' | | | 10/29/2014 | 2:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2-8' | | | 10/29/2014 | 2:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2-9' | | | 10/29/2014 | 2:00 PM | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

Relinquished by: Date: 10-30-14 Time: 11:00

Relinquished by: Date: 10/30/14 Time: 11:00

Relinquished by: Date:
 Time:

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N

VOCS Free of Headspace? ☒ Y ☐ N

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Sample Hand Delivered ☒ Y ☐ N

by Counter? ☒ Y ☐ N

by Sampler/Client Rep. ? ☒ Y ☐ N

UPS ☒ Y ☐ N

DHL ☒ Y ☐ N

FedEx ☒ Y ☐ N

Lone Star ☒ Y ☐ N

Temperature Upon Receipt: 5.8 °C

February 19, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 02/13/2015
Reported: 02/19/2015
Project Name: BELCO AIA FEDERAL #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/09/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S1- 10' (H500429-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9200 | 16.0 | 02/17/2015 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S1- 11' (H500429-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 22800 | 16.0 | 02/17/2015 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S1- 12' (H500429-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 17400 | 16.0 | 02/17/2015 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S1- 13' (H500429-04)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 17800 | 16.0 | 02/17/2015 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 02/13/2015
Reported: 02/19/2015
Project Name: BELCO AIA FEDERAL #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/09/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S1- 14' (H500429-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16600 | 16.0 | 02/17/2015 | ND | 416 | 104 | 400 | 3.92 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

PO #: 205750

(lab use only)
ORDER #: H500429

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #. of Containers | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | TPH: 418.1 8015M 8015B | TPH: TX 1005 TX 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO ₄ , Alkalinity) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | SAR | RUSH TAT (Pre-Schedule) 24, 48, 72 hrs | Standard TAT | | |
|----------------------|------------|-----------------|--------------|--------------|--------------|----------------|------------------------|-----|------------------|-----|--------------------------------|------|---|------|-----------------|--|------------------------|----------------------|-------------------------|---|-----------------|---------------------------------|-----------|---------------|------------------------------|-----|----------|-----------|-----|--|--------------|---|---|
| 01 | S1-10' | | | 2/9/2015 | 1:30 PM | | 1 | | | | | | | | | | S | | | | | | | | | | | | | | | X | X |
| 02 | S1-11' | | | 2/9/2015 | 1:30 PM | | 1 | | | | | | | | | | S | | | | | | | | | | | | | | | X | X |
| 03 | S1-12' | | | 2/9/2015 | 1:30 PM | | 1 | | | | | | | | | | S | | | | | | | | | | | | | | | X | X |
| 04 | S1-13' | | | 2/9/2015 | 1:30 PM | | 1 | | | | | | | | | | S | | | | | | | | | | | | | | | X | X |
| 05 | S1-14' | | | 2/9/2015 | 1:30 PM | | 1 | | | | | | | | | | S | | | | | | | | | | | | | | | X | X |

Special Instructions:

Relinquished by: Date: 2/13/15 Time: 11:10 AM Received by: Date: 2/13/15 Time: 11:10 AM

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Laboratory Comments:

Sample Containers Intact? ☒ VOCs Free of Headspace? ☒ Labels on container(s) ☒ Custody seals on container(s) ☒ Sample Hand Delivered ☒ by Sampler/Client Rep. ? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒ Temperature Upon Receipt: 19.6 °C