MARTIN YATES. III 1912-1985 FRANK W. YATES

5.P YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.

JOHN D. PERINI EXECUTIVE V.R. OF MONETIZATION CHIEF FINANCIAL OFFICER

JAMES S. BROWN

October 23, 2015

Mr. Mike Bratcher NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Mimosa Federal SWD #1

30-015-26449

Section 4, T20S-R24E

Eddy County, New Mexico

Dear Mr. Bratcher,

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 report dated October 8, 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 the day of November 7, 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)

Yates Petroleum Corporation

Mimosa Federal SWD #1 Work Plan

Section 4, T20S-R24E

Eddy County, New Mexico

October 23, 2015

2RP-2536

I. Location

The release is located approximately 15 miles south of Artesia and 11 miles west on Rock Daisy Road.

II. Background

On October 08, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 8 B/PW with 3 B/PW recovered. The affected area is approximately 68 feet by 20 feet within the berm of the battery, with an additional area of 315 feet by 130 feet affected outside of the bermed battery to the east, and another finger approximately 480 feet by 80 feet running north off the wide release area. The release was from a broken water leg and valve on a produced water storage tank due to flood waters that occurred during heavy rainfall. Initial delineation samples were taken (10/28/2014) and sent to a NMOCD approved laboratory (11/04/2014, results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. The ChevronTexaco Trend Map displays at this location (Section 4, T20S-R24E) that depth to groundwater is approximately 245' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (0) based on the as following:

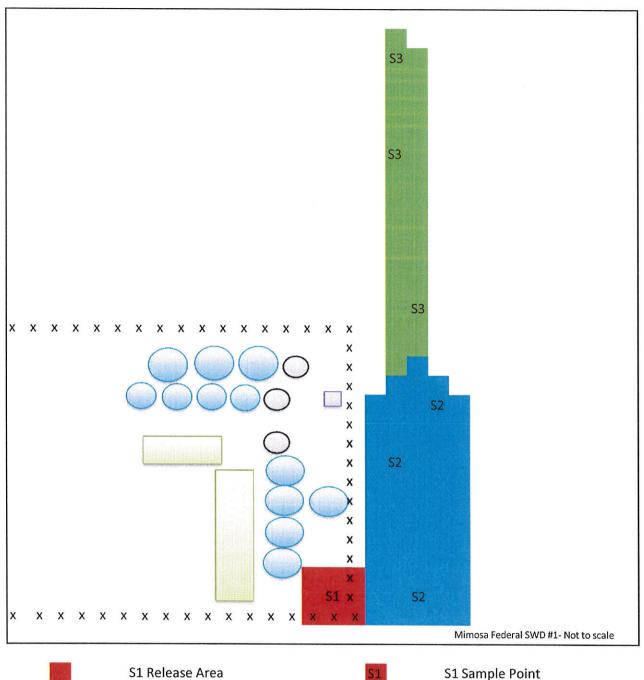
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

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, the depth to groundwater (245'), a decrease in chlorides, and Bureau of Land Management guidance and approval, Yates Petroleum Corporation proposes, after meeting onsite with a representative of the Bureau of Land Management on September 2, 2015, to excavate to three (3) feet the area immediately impacted to the east of the battery running north to the pipeline ROW and then north to an area where vegetation has not recovered within the S2 sample area. The approximate area BLM would like to have excavated is 240 feet by 25 feet to the east of the battery and 100 feet by 50 feet along the pipeline ROW. BLM did not see validity for further excavation actions beyond the above mentioned areas due to the limited lingering effects to vegetation from the release and preservation of the natural drainage system for heavy precipitation events. The excavated areas will be backfilled with like, similar topsoil and reseeded with the appropriate BLM Grass Seed Mix for that area. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0), 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 requesting closure of the site.





| H401923 | Sample Area | Sample Date | Sample Type | Depth | BTEX | GRO | DRO | Chlorides |
|-------------------|--------------|-------------|-------------|-------|------|-------|-------|-----------|
| S1-1' | Release Area | 6/19/2014 | Backhoe | 1' | <0.3 | <10.0 | 80.8 | 1410 |
| S1-3' | Release Area | 6/19/2014 | Backhoe | 3' | <0.3 | <10.0 | <10.0 | 1120 |
| S1-5 ['] | Release Area | 6/19/2014 | Backhoe | 5' | <0.3 | <10.0 | <10.0 | 656 |
| S1-7' | Release Area | 6/19/2014 | Backhoe | 7' | <0.3 | <10.0 | <10.0 | 480 |
| S2-1' | Release Area | 6/19/2014 | Backhoe | 1' | <0.3 | <10.0 | <10.0 | 5680 |
| S2-3 ¹ | Release Area | 6/19/2014 | Backhoe | 3' | <0.3 | <10.0 | <10.0 | 2080 |
| S2-5' | Release Area | 6/19/2014 | Backhoe | 5' | <0.3 | <10.0 | <10.0 | 752 |
| S2-7 ¹ | Release Area | 6/19/2014 | Backhoe | 7' | <0.3 | <10.0 | <10.0 | 304 |
| S3-1' | Release Area | 6/19/2014 | Backhoe | 1' | <0.3 | <10.0 | <10.0 | 1100 |
| S3-3 ¹ | Release Area | 6/19/2014 | Backhoe | 3' | <0.3 | <10.0 | <10.0 | 32 |
| \$3-51 | Release Area | 6/19/2014 | Backhoe | 5' | <0.3 | <10.0 | <10.0 | 64 |
| \$4-7' | Release Area | 6/19/2014 | Backhoe | 7' | <0.3 | <10.0 | <10.0 | 48 |

Site Ranking is Zero (0). >100' (245', Section 4, T20S-R24E, Trend Map All results are ppm. Chlorides for documentation Released: 8 B/PW; Recovered: 3 B/PW Release Date: 09/24/2014



November 04, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MIMOSA FEDERAL SWD #1

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 accreditated 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.

Celes D. Keine

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



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

10/30/2014

Sampling Date:

10/28/2014

Received: Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S1-1' (H403349-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|---------------------------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | < 0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 % | 61-154 | <u>'</u> | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1410 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/30/2014 | ND | 172 | 86.1 | 200 | 0.594 | |
| DRO >C10-C28 | 80.8 | 10.0 | 10/30/2014 | ND | 178 | 89.1 | 200 | 4.53 | |
| Surrogate: 1-Chlorooctane | 111 % | 6 47.2-15 | 7 | 2.465(d), 181(d) 24. d 181(d) (1.466) | | | | | |
| Surrogate: 1-Chlorooctadecane | 134 9 | 6 52.1-17 | 6 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S1-3' (H403349-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 % | 61-154 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 10/31/2014 | ND · | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/30/2014 | ND | 172 | 86.1 | 200 | 0.594 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/30/2014 | ND | 178 | 89.1 | 200 | 4.53 | |
| Surrogate: 1-Chlorooctane | . 110 % | 6 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 139 9 | 6 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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

Received: Reported: 10/30/2014

11/04/2014

MIMOSA FEDERAL SWD #1

Project Number:

Project Name:

NONE GIVEN

Sampling Type: Sampling Condition:

Sample Received By:

Sampling Date:

10/28/2014

Soil

Cool & Intact Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S1-5' (H403349-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|--|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2,02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 | % 61-154 | \$ | | | | | | |
| Chloride, SM4500CI-B | mg, | 'kg | Analyze | d By: AP | | | Marilion Section 10 Text (10 T | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/30/2014 | ND | 172 | 86.1 | 200 | 0.594 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/30/2014 | ND | 178 | 89.1 | 200 | 4.53 | |
| Surrogate: 1-Chlorooctane | 105 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 | % 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S1-7' (H403349-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | Sales and the Control of the Control | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|--|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 % | 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | contractions of the State of th | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/30/2014 | ND | 172 | 86.1 | 200 | 0.594 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/30/2014 | ND | 178 | 89.1 | 200 | 4.53 | |
| Surrogate: 1-Chlorooctane | 110 9 | 6 47.2-157 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 138 9 | % 52.1-176 | í | | | | | | |

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YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 10/30/2014

11/04/2014

MIMOSA FEDERAL SWD #1

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/28/2014

Sampling Type:

Soil Cool & Intact

Sample Received By:

Sampling Condition:

Kathy Perez

Sample ID: S2-1' (H403349-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--|--|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 9 | 61-154 | | ************************************** | | | | Inc. | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | CONTROL OF THE PARTY OF THE PAR | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5680 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 106 9 | % 47.2-157 | • | | | | | | |
| Surrogate: 1-Chlorooctadecane | 135 9 | % 52.1-176 | S | | | | | | |

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

Received:

10/30/2014

11/04/2014

Sampling Date: Sampling Type: 10/28/2014

Reported:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Kathy Perez

Sample ID: S2-3' (H403349-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 106% | 6 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2080 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 1169 | 6 47.2-15 | 7 | THE STATE OF THE S | | | | | |
| Surrogate: 1-Chlorooctadecane | 150 % | 6 52.1-17 | 6 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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

Received: Reported: 10/30/2014

11/04/2014

Project Name:

MIMOSA FEDERAL SWD #1

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

10/28/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S2-5' (H403349-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|--|------------|--|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | < 0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 % | 61-154 | A | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 10/31/2014 | ND . | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 114 9 | 6 47.2-15 | 7 | | awara-sa sa s | | The state of the s | | |
| Surrogate: 1-Chlorooctadecane | 165 9 | % 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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

Received: Reported: 10/30/2014

11/04/2014

Project Name:

MIMOSA FEDERAL SWD #1

Project Number: No Project Location: No

ct Name: MI

NONE GIVEN

Sampling Date:

Sampling Type:

Sample Received By:

10/28/2014

Soil

Sampling Condition:

Cool & Intact

Kathy Perez

Sample ID: S2-7' (H403349-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 % | 6 61-154 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 304 | 16.0 | 10/31/2014 | · ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | w | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 108 % | % 47.2-15 | 7 | | | | | -390 (.3 - > | |
| Surrogate: 1-Chlorooctadecane | 146 % | 6 52.1-17 | 6 | | | | | | |

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Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S3-1' (H403349-09)

| BTEX 8021B | mg/l | (g | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|------------------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 % | 61-154 | ſ | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1100 | 16.0 | 10/31/2014 | · ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | ed By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 103 % | 6 47.2-15 | 7 | ONLY THAT SCHOOLSELING | | | A | | |
| Surrogate: 1-Chlorooctadecane | 159 % | 6 52.1-17 | 6 | | | | | | |

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Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

Sample ID: S3-3' (H403349-10)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|--|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 % | 6 61-154 | X | | | 3000 - 200 - 3000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 108 % | 6 47.2-15 | 7 | | | *************************************** | | | |
| Surrogate: 1-Chlorooctadecane | 160 9 | 6 52.1-17 | 6 | | | | | | |

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Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S3-5' (H403349-11)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|---|----------|------------|--|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2.02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 | % 61-154 | 1 | 1-30-11-1-3-3-11-0-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | 1500.000 | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 103 | % 47.2-15 | 57 | | | 3 | ONE AND THE CONTRACT OF THE CO | | |
| Surrogate: 1-Chlorooctadecane | 147 | % 52.1-17 | 76 | | | | | | |

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*=Accredited Analyte

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Celeg & trune

Celey D. Keene, Lab Director/Quality Manager



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Received:

10/30/2014

Sampling Date:

10/28/2014

Reported:

11/04/2014

Sampling Type:

Soil

Project Name:

MIMOSA FEDERAL SWD #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

Sample ID: S3-7' (H403349-12)

| BTEX 8021B | mg/ | kg | Analyze | d By: ms | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/31/2014 | ND | 2,02 | 101 | 2.00 | 12.4 | |
| Toluene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.92 | 96.2 | 2.00 | 12.9 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/31/2014 | ND | 1.81 | 90.7 | 2.00 | 12.2 | |
| Total Xylenes* | <0.150 | 0.150 | 10/31/2014 | ND | 5.39 | 89.8 | 6.00 | 11.5 | |
| Total BTEX | <0.300 | 0.300 | 10/31/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 5 | % 61-154 | 9) | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 10/31/2014 | ND | 400 | 100 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/31/2014 | ND | 181 | 90.3 | 200 | 0.617 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/31/2014 | ND | 178 | 89.1 | 200 | 5.97 | |
| Surrogate: 1-Chlorooctane | 112 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 169 | % 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celeg & treene



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 SM4500CI-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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Celeg Etrene

| Reling | Reling | Reling | | Speci | T | 0 | 1 | 16 | 1 | n | = | u | 2 | | _AB # (lab use only) | (lab use only) ORDER #: | | | | | | | | 6 | 行 |
|--------------------------|---|---|-------------------------|---|----------|----------|------------|------------|------------|------------|--|------------|------------|------------|---|-------------------------|--------------------|-------------------|----------------|-----------------|----------------------|--|------------------|--|--|
| Relinquished by: | Relinquished by: | Relinquished by | | Special Instructions: | + | S2-7 | | | | 2 0 | 2 0 | חל ה | S1-3 | S1-1' | | R#: | Sar | | Tel | City | Con | Con | Proj | A. | 1 |
| ş | , P | / Š | | ructio | | 1 | ن ا | 1 6 | ا ي | • - | 1 9 | ַתַ | ယ် | <u>-</u> - | | 工 | Sampler Signature. | | Telephone No: | City/State/Zip: | Company Address: | Comp: (505) 393-232(Yates Petroleum Corporation | Project Manager: | 5 A | |
| | | 5 | | ons: | | | | | | | | | | | | 403349 | Sic. | 2 | e Z | e/Zip | y Ad | 05) 3 | /lana | ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 | |
| | | 40 | | | | | | | | | | | | | _ | CN | Idio | | 0. | ö | dres | 93-2 | ger: | St Ma | |
| | | | | | | | | 1 | | | 1 | | | | FIELD CODE | On . | \ a | | cn l | | is. | 32€ Y | lo | ABC | |
| | | | | | | | | | | | | | | | 000 | 4 | 1 | | 575-748-4171 | Artesia, NM | 05 S | ates | Chase Settle | I, Ho | |
| | | ŀ | | FIS | | | | | | | | | | | Ď | | | | 48-4 | a, N | outh | Petr | Set | bs, C | |
| | | | | | 1 | | 1 | ı | | | | | | | | | 1 | 1 | 171 | <u>≤</u> ∞ | 105 South 4th Street | oleur | ě | N E | i) |
| | | 9 | | | | | | | | | | | | | | | 1 | 1 | | 88210 | Stree | SO u | | 3824 | |
| Date | Date | Date 10-30-/ | | | | | | | | | 1 | | | | | | 1 | 1 | | | - | rpora | | 0 | |
| | | 14 | | | | | | _ | | _ | _ | | | | | - | | Y | | | | tion | | | |
| | | | | | | | | | 1 | | | | | | Beginning Depth | | | | | | | | | | |
| me | Time | Time | | | \dashv | _ | + | \dashv | \dashv | + | \dashv | | | | Ending Depth | | | 1 | | | | | | | |
| | | | | | | | | | | | | | | | Chaing Depth | 4 | | | | | | | | <u>(5</u> | |
| Reo | Rec | 3 | | | | 2 | 2 | 10/ | 0 | 10/ | 10/ | 10/ | 10/ | 10/ | | | | | | | | | | (505) 393-2326 FAX (505) 393-2476 | |
| eived | Received by | ceived | | | | 100 | 28/2 | 28/2 | 28/2 | 28/2 | 28/2 | 28/2 | 28/2 | 10/28/2014 | Date Sampled | | | | | | | | | 393-2 | |
| gy rr | by: | 3 | _ | | | 3 | 10/28/2014 | 10/28/2014 | 10/28/2014 | 10/28/2014 | 10/28/2014 | 10/28/2014 | 10/28/2014 | 014 | | | l | | | | | | | 2326 | |
| Received by ELOT: | | 9 | | - | \dashv | | \dashv | | \neg | | | | | 1 | | | • | | | | | | | FAX | |
| | _ | 5 | | | | | 1.45 | 1:45 | :45 | :45 | 3:15 | 3:15 PM | 3:15 PM | 3:15 PM | Time Sampled | | | φ | Ti ap | | | | | (50 | |
| | 10 | 17 | | | | | 1:45 PM | 1:45 PM | 1:45 PM | 1:45 PM | 3:15 PM | PM | PM | PM | 333303 8 | | | e-mail: | Fax No: | | | | | 5) 39 | |
| | | 1 |) | - | - | | _ | | | | | _ | + | - | Field Filtered | - | | | ñ | | | | ı | 3-24 | |
| | | 6 | | | \dashv | \dashv | _ | 1 | _ | _ | 1 | _ | - | - | Total #. of Containers | | | S | 575 | | | | | 76 | |
| | | 5 | | | | \neg | | × | - | × | × | × | × | × | Ice | | | ett | 575-748-4131 | | | | | | |
| | | T. | | | | | | | | | | | | | HNO ₃ | reser | | e @ | 1413 | | | | | | |
| 111 | 10 | K | | | | | | | | | | | | | HCI | vation | | yat | = | | | | | | 0 |
| | ` | 1 | | | | | | | | | | - | +- | + | H₂SO₄ NaOH | Preservation & # of Cor | | csettle@yatespetr | | | | | | | HA |
| | | | | | | \dashv | | _ | | | | ┝ | +- | - | Na ₂ S ₂ O ₃ | | |)etr | | | | | | | Z |
| - | - | grang | | | | \dashv | | - | | | | \vdash | \dagger | + | None | tainers | | oleum.com | | | | | | | FC |
| | | 0 | | | | | | | | | | T | \dagger | | Other (Specify) | | | B | | | | | | | USI |
| | Date | 8 Syle | | | | | | | | | | Τ | Τ | Τ | DW=Drinking Water SL=Sludge | Z | | 8 | 70 | | | | | | 9 |
| | | + | | | | | S | S | S | S | S | S | S | S | GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other | Matrix | | | epor | | ~ | | 7 | 1 | YR |
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| | Time 8 | | 8 | | | | Ë | - | Ħ | Ť | Ť | Ť | + | 1 | TPH: TX 1005 TX 1006 | | | | Report Format: | Р | Project Loc: | Project #: | Project Name. | | CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST |
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