



December 21, 2015

HARLEY EVERHART FRONTIER FIELD SERVICES 4200 SKELLY DRIVE, SUITE 700 TULSA, OK 74135

RE: ABO 16" LATTERAL

Enclosed are the results of analyses for samples received by the laboratory on 12/15/15 16:10.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #1 (H503263-01)

| 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 | 12/16/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/16/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/16/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/16/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/16/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 12/16/2015 | ND | 432 | 108 | 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 56.6 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 91.9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.1 | % 28-171 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #2 (H503263-02)

| 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 | 12/16/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/16/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/16/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/16/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/16/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 % | 6 73.6-14 | 0 | | | | | | |
| 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 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 45.6 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 89.9 9 | 35-147 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 87.5 % | 6 28-171 | | | | | | | |

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| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #3 (H503263-03)

| 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 | 12/16/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/16/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/16/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/16/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/16/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 % | 6 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 86.1 9 | % 35-147 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.2 9 | 26 28-171 | | | | | | | |

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|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #4 (H503263-04)

| 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 | 12/17/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 % | 6 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 383 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 85.3 9 | % 35-147 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.1 9 | 28-171 | | | | | | | |

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| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #5 (H503263-05)

| 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 | 12/17/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 % | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | S-04 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 21.9 | 10.0 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 6660 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 112 % | % 35-147 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 208 9 | % 28-171 | , | | | | | | |

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| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #6 (H503263-06)

| 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 | 12/17/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 107 % | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 124 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 86.3 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | <i>95.2</i> 9 | 28-171 | | | | | | | |

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| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #7 (H503263-07)

| 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 | 12/17/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | 0.127 | 0.050 | 12/17/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | 0.801 | 0.150 | 12/17/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | 0.929 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 121 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 58.6 | 50.0 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 4200 | 50.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 128 | % 35-147 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 170 | % 28-171 | , | | | | | | |

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| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #8 (H503263-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.052 | 0.050 | 12/17/2015 | ND | 1.95 | 97.5 | 2.00 | 0.179 | |
| Toluene* | 0.168 | 0.050 | 12/17/2015 | ND | 1.97 | 98.6 | 2.00 | 0.739 | |
| Ethylbenzene* | 0.112 | 0.050 | 12/17/2015 | ND | 2.00 | 100 | 2.00 | 0.0556 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 5.99 | 99.9 | 6.00 | 0.291 | |
| Total BTEX | 0.332 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 576 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 105 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 % | 6 28-171 | | | | | | | |

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| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #9 (H503263-09)

| 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 | 12/17/2015 | ND | 2.09 | 104 | 2.00 | 5.69 | |
| Toluene* | 0.398 | 0.050 | 12/17/2015 | ND | 2.07 | 104 | 2.00 | 6.88 | |
| Ethylbenzene* | 0.321 | 0.050 | 12/17/2015 | ND | 2.10 | 105 | 2.00 | 7.92 | |
| Total Xylenes* | 1.20 | 0.150 | 12/17/2015 | ND | 6.34 | 106 | 6.00 | 6.97 | |
| Total BTEX | 1.92 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 9 | % 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 15.1 | 10.0 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 2360 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 101 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 135 9 | 28-171 | | | | | | | |

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|-------------------|------------------|---------------------|---------------|
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| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #10 (H503263-10)

| 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 | 12/17/2015 | ND | 2.09 | 104 | 2.00 | 5.69 | |
| Toluene* | 0.101 | 0.050 | 12/17/2015 | ND | 2.07 | 104 | 2.00 | 6.88 | |
| Ethylbenzene* | 0.217 | 0.050 | 12/17/2015 | ND | 2.10 | 105 | 2.00 | 7.92 | |
| Total Xylenes* | 1.16 | 0.150 | 12/17/2015 | ND | 6.34 | 106 | 6.00 | 6.97 | |
| Total BTEX | 1.47 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <200 | 200 | 12/17/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 10800 | 200 | 12/17/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 140 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 285 9 | 28-171 | | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #11 (H503263-11)

| 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 | 12/17/2015 | ND | 2.09 | 104 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.07 | 104 | 2.00 | 6.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.10 | 105 | 2.00 | 7.92 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 6.34 | 106 | 6.00 | 6.97 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 9 | 6 73.6-14 | 0 | | | | | | |
| 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 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 28.2 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| Surrogate: 1-Chlorooctane | 90.3 | 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.4 | 28-171 | | | | | | | |

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

| Received: | 12/15/2015 | Sampling Date: | 12/15/2015 |
|-------------------|------------------|---------------------|---------------|
| Reported: | 12/21/2015 | Sampling Type: | Soil |
| Project Name: | ABO 16" LATTERAL | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | ARTESIA, NM | | |

Sample ID: #12 (H503263-12)

| 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 | 12/17/2015 | ND | 2.09 | 104 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.07 | 104 | 2.00 | 6.88 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2015 | ND | 2.10 | 105 | 2.00 | 7.92 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2015 | ND | 6.34 | 106 | 6.00 | 6.97 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 % | 6 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-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 | 12/17/2015 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 12/16/2015 | ND | 194 | 97.0 | 200 | 5.68 | |
| DRO >C10-C28 | 337 | 10.0 | 12/16/2015 | ND | 183 | 91.7 | 200 | 4.78 | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 85.9 9 | % 35-147 | , | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
|------|--|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| 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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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| | 101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-247 | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|------------------|----------------|-------------|--|----------|----------|--------|----------|------------|-----------|-----------|--------------|----------------------|--------|------|------|-----|------|--------|-------|-----|------|----------|--------------|-----|
| Company Name | Frontier Field Services | | 4/ | 28 | 740 | 520 |) | | | | BI | LL | TO | | 1 | | | | ANA | LYS | SIS | RE | QUE | ST | | |
| Project Manage | | | | | | ~ | | Ρ. | 0. # | ŧ: | | | | | | | | | T | T | Τ | | | | | |
| Address: | | | | | | | | Co | omp | any | y: | | | | | | | | | | | | | | | |
| City: Mol | State: Nh | Zip | : | | | | | Attn: | | | | | | | | | | | | | | | | | | |
| Phone #: 575 573 4922 Fax #: | | | | | | Ac | idre | ss | : | | | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | | | | | Ci | ty: | | | | 10 | | | | | | | | | | | | | | | |
| Project Name: | Abo 16" Latterel | | | | | | | St | ate: | | | Zip | | | | | | | | | | | | | | |
| Project Locatio | n: Hotisia NM Hack Emphant | | | | | | | Ph | none | e #: | | | | | | | | | | | | | | | | |
| Sampler Name: | Herty Enchant | | | | | | | Fa | x #: | : | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | M | ATRI | X | 1 | PR | ESI | ERV. | 1 | SAMPL | ING | | | | , | | | | | | | | |
| | | NO(| s | ER | ~ | | | | | | | | | | | | 7 | | | | | | | | | |
| Lab I.D. | Sample I.D. | R (C | NER | WAT | ATE | | | | ú | F | | | | | R | * | | | | | | | | | | |
| Lab I.D. | Sample I.D. | AB O | NTAI | ND | TEW | | GE | R. | /BAS | 000 | 2 | | | | 0 | 3724 | 41. | | | | | | | | | |
| H503263 | | (G)RAB OR (C)OMP | # CONTAINERS | GROUNDWATER | WASTEWATER | OIL | SLUDGE | OTHE | ACID | ICE / COOL | OTHER | 1 | DATE | TIME | L | R | • | | | | | | | | | |
| 1 | #1 | 1 | | | | - | | | | 1 | - | 12. | 15.15 | 1200 | ¥ | 4 | Y | | | | | | | | | |
| 2 | #2 | 1 | | | | - | | | | 1 | | | 1 | R10 | X | Y | Y | | 1 | | | | | | | |
| 3 | #-5 | 1 | | | 1 | | - | _ | | 1 | | | | 16 26 | ¥ | ¥ | ¥ | | | - | | _ | | | | |
| 4 | 4 4 | 1 | | | - | 1 | | - | | 1 | 1 | | 1 | 12 30 | Y | 4 | ¥ | - | - | - | - | _ | | | <u> </u> | |
| 3 | 85 | 1 | | | - | 4 | - | - | ⊢ | 1 | | | - | 12 45 | Y | ¥ | Y | | - | + | + | _ | | <u> </u> | | |
| 6 | #4 | 1 | ┝ | | | 4 | + | - | ⊢ | 1 | | - | + | 12 50 | Y | ۲ | ¥ | - | + | + | + | _ | | <u> </u> | - | - |
| 2 | 件) | 1 | \vdash | | - | 4 | + | - | | / | | | 1 | 1300 | 7 | Y | ¥ | - | - | + | + | _ | | | - | |
| 9 | 2 ¥ | 1 | ⊢ | | - | 1 | + | - | ⊢ | 1 | | | | 1310 | 7 | Y | Y | - | + | + | + | - | | <u> </u> | - | |
| ID ID | | 17 | | | - | 7 | - | + | \vdash | 1 | | | / | 13 20 | 7 | T | NL | - | | + | + | | | - | | |
| | nd Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be | | | | | | | | | | | to the | amount pa | id by the client fo | r the | | (| 1 | - | - | _ | | | | | 1 |
| service. In no event shall C | and indee for negligence and any other cause whatsoever shall be Cardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by (| g without | ut limiti | ation, b | usiness | interrup | ptions, | loss o | of use, | or los | ss of pr | rofits in | ncurred by | client, its subsidii | aries, | ле | | | | | | | | | | |
| Relinquished B | Date: | Re | and the second | ved | Concession of the local division of the loca | et such | Gidanti | N | seu up | 011 01 | iy or the | 0 | re stated is | Phone Re | cult: | □ Ye | s 🗆 | No | Add | I Phor | ne #: | | | | | |
| 718 | 72-15-15 Time: | 1/ | U | 10 | i | | N | 11 | 2 | 1 | Sl | Y | n | Fax Resu REMARK | S: | LITE | S L | NO | Add | I Fax | #: | | | | | |
| Relinquished B | 7: Date: | Re | cei | ved | By: | C | 1 | | | - | • | | | | | | | ,Z | escl | t | | | | | | |
| | Time: | - (| 1 | | | | | | | | | | | | | 10 | | 16 | | | | | | | | 100 |
| Delivered Du | : (Circle One) | | | | Sampl | 0.00 | ndit | ion | - | CH | ECK | to | BV. | | | | | , | 16 | , 4 | ka | ent | 1771 | . 00 | | |
| | | 1 | 0 | | Cool | Inta | act | CION | | CH | Init | ials) | P1: | 1 | | h | ever | the | AE | | | | | | | |
| Sampler - UPS | - Bus - Other: | .6 | C | 1 | | lo | Ye No | s | | l | X | V | 1 | | | | | | | | | | | | | |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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| | 101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-24 | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|-----------------|--------------|-------------|------------|------|--------|---------|------------|-----------|---------|---------------------------|-------|------|------|-----------|--------|-----|-----|-----|-----|-----|----|-----------|---|--|
| Company Name | Frature Field Service (| | . 5 | 7 | 5- | 1 | | | | 1 | 31 | LL TO | | | | | anne n | ANA | LYS | SIS | REC | QUE | ST | | | |
| Project Manage | | | | | 7 | , | | P.(| D. #: | : | | | | | | | | | T | | | | | | | |
| Address: | | | | | | | | Co | mpa | any | : | | | | | | | | | | | | | | | |
| City: mal | State: NA | 🔨 Zip | : | | | | | Att | n: | | | | | | | | | | | | | | | $ \cdot $ | | |
| Phone #: 57 | 5134922 Fax #: | | | | | | | Ad | dres | ss: | 1 | N | / | | | | | | | | | | | | | |
| Project #: | Project Own | er: | | | | | | Cit | | | · · | | | | | | | | | | | | | | | |
| Project Name: 16 16" Latter 1 | | | | | | | Sta | ate: | | | Zip: | | | | | | | | | | | | | | | |
| Project Locatio | Artisic wm Sarly Euchot | | | | | | | Ph | one | #: | | -1941-155-1010-01-0111-01 | | | | | | | | | | | | | | |
| | Starty Europet | | _ | _ | | | | _ | x #: | | | | | 1 | | | | | | | | | | | | |
| FOR LAB USE ONLY | (| <u>م</u> | | | | ATRI | | | PRE | 1 | | SAMPL | ING | | | | | | - | | | | | | | |
| Lab I.D. H503263 11 | Sample I.D. | G)RAB OR (C)OMP | # CONTAINERS | SROUNDWATER | WASTEWATER | SUL | SLUDGE | DTHER : | ACID/BASE: | CE / COOL | DTHER : | DATE | TIME | 1 PH | BTER | Chlorides | | | | | | | | | | |
| 11 | #11 | 1 | * | Ŭ | | | 0, | | | - | Ŭ | 12-15-15 | 13:40 | ~ | ų. | ر | | | | | | | | | | |
| 12 | #12 | 1 | | | | 1 | | | | 1 | | 12 15/5 | | ~ | ~ | ~ | | | | | | | | | | |
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| | | + | \vdash | | | | - | | | - | | | | | | | | - | + | + | | | - | | | |
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| | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons of otherwise.

| Relinquished By: | Date: 12 . 15. 15 | Received By: | Phone Result: Fax Result: | Yes 		 No 		 Add'I Phone #: Yes 		 No 		 Add'I Fax #: | |
|------------------------------|----------------------|------------------------------|------------------------------|---|---|
| MSint | Time: | | REMARKS: | 1- | |
| Relinquished By: | Date: | Received By: | 1 | Smail Results | |
| 1 C | Time: | 0 | | Email Kesull's Acverbart & aleaenegy - com | |
| Delivered By: (Circle One) | | Sample Condition CHECKED EY: | 1 | Acverhor | - |
| Sampler - UPS - Bus - Other: | | 1.62 Cool Intact (Inifials) | | <i>y •</i> | |

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R≕POD has been repiaced, O≕orphaned, C=the file is closed) | | | | | | 2=NE 3 st to larg | =SW 4=s gest) | SE) (NAD83 UTM in | ı meters) | (1 | in feet) | |
|---|---|---|-----|-------|----------|-----|----------------------|------------------|--|----------------|---|----------------|-------------------------|
| | POD Sub- | | | 0 | | | | | | | D 11 | | |
| POD Number | Code basin Cou | | 200 | 0.025 | | Tws | Rng | | X Y | Distance | 2 (2) (2 | Depth Water | Water Column |
| RA 04561 | EC | | | | | 17S | | 57087 | 1 / 3630142* | 4313 | 250 | | or over only dependence |
| RA 11857 POD1 | EC |) | 1 1 | 2 | 05 | 18S | 26E | 57778 | 4 3625988 | 4323 | 235 | 95 | 140 |
| RA 04048 | LE | | 14 | 4 | 14 | 18S | 27E | 57084 | 1 3623030* | 4582 | 2096 | | |
| RA 03917 | . LE | | 1 1 | 2 | 10 | 18S | 27E | 56901 | 9 3625660* | 4636 | 130 | 50 | 80 |
| | | | | | | | | | Av | erage Depth to | Water: | 72 | feet |
| | | | | | | | | | | Minimun | n Depth: | 50 | feet |
| | | | | | | | | | | Maximum | n Depth: | 95 | feet |
| Record Count: 4 | ب این این این دیده این بیون بیان این این ا | | | | 12 MA AU | | | | a 1999 ngaa mga 1997 1997 1997 1997 1997 1997 1997 | -9 -21 | er van Der ver 1 | | · |

UTMNAD83 Radius Search (in meters):

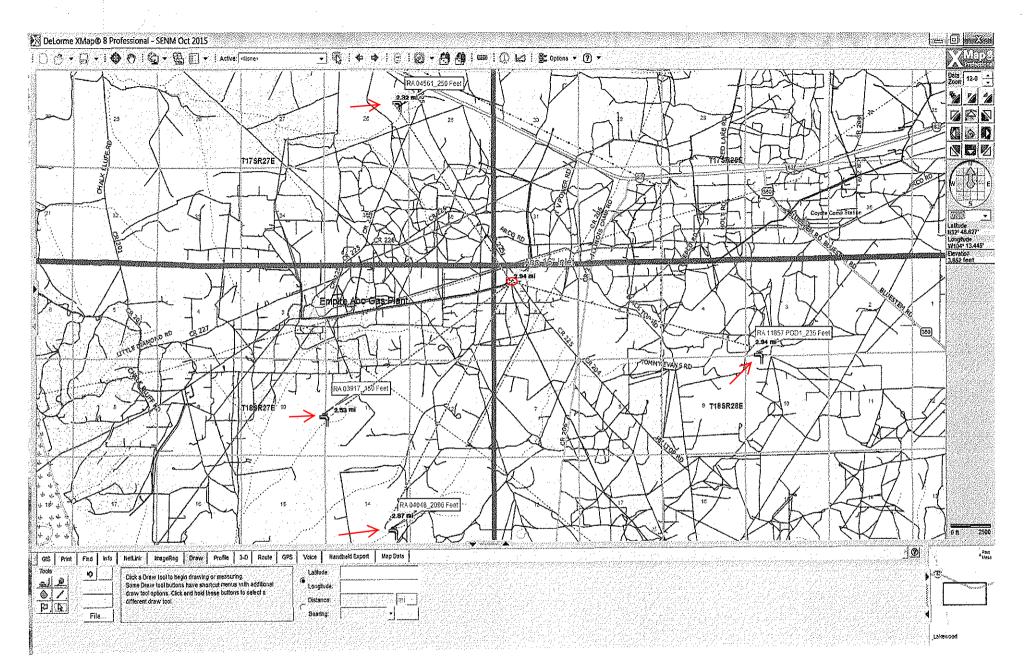
Easting (X): 573527

Northing (Y): 3626743

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Water Column/Average Depth to Water

UTMNAD83 Radius Search (5000 meters)

5000 meters is equivalent to 16404.2 foot or 3.1 mile Radius from Abo 16" Inlet

The closes water column is 2.32 miles @ 250 ft. deep.