# RECR - 10
# Windmill Oil

# Water Quality Data

# 2003

B

BILL RICHARDSON
Governor

*State of New Mexico*
***ENVIRONMENT DEPARTMENT***
*Hobbs Field Office*
*726 East Michigan, Suite 165*
*Hobbs, New Mexico 88240*
*Telephone (505) 393-4302*
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RON CURRY
Secretary
ANA MARIE ORTIZ
Director

**MEMORANDUM OF COMPLAINT**

**HOBBS FIELD OFFICE** **NO.** C-HO-03-063

**COMPLAINANT'S NAME:** Tina Burkett **TELEPHONE:** 628-3807 Carlsbad

**ADDRESS:** 1903 Gary Lane **CITY:** Hobbs, NM 88240

**SOURCE/RESPONSIBLE PARTY:** Unknown **TELEPHONE:**

**ADDRESS:** **CITY:**

**PROGRAM:** *(Check Appropriate Program(s))*

Air Quality ____ Drinking Water ____ Food ____ Ground Water ____
Hazardous Waste ____ Liquid Waste ____ OHS ____ Pools ____ Radiation ____
Solid Waste ____ UST ____ Vector ____ Other: OCD

**NATURE OF COMPLAINT:** Water taste has changed.

**COMPLAINT TAKEN BY:** Rozanne Johnson **DATE:** 6-25-2003

**INVESTIGATION REPORT:**

**BY:** **DATE:**

**ACTION TAKEN:** Faxed Compliant to ~~Bill Olson~~ - OCD
Wayne Price 476-3462

**BY:** Rozanne Johnson **DATE:** 6-25-2003

**FOLLOW UP:**

**SATISFACTORY CORRECTION OF PROBLEM VERIFIED BY:** **DATE:**

*PLEASE ENSURE THAT APPROPRIATE CENTRAL OFFICE PERSONNEL ARE KEPT INFORMED OF COMPLAINTS RELATED TO THEIR PROGRAMS.*

# Summary Report

Paul Sheeley
OCD Hobbs Office
1625 N. French Drive
Hobbs, NM 88240

Report Date: March 18, 2002

Order ID Number: A02030609

Project Number: N/A
Project Name: Mrs. Isabel Domestic Water
Project Location: 2113 Gary Lane, Hobbs, NM 88240

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 192220 | 0203051313 | Water | 3/5/02 | 13:13 | 3/6/02 |
| 192221 | 0203051314 | Water | 3/5/02 | 13:14 | 3/6/02 |

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

## Sample: 192220 - 0203051313

| Param | Flag | Result | Units |
|---|---|---|---|
| Hydroxide Alkalinity | | <1.0 | mg/L as CaCo3 |
| Carbonate Alkalinity | | <1.0 | mg/L as CaCo3 |
| Bicarbonate Alkalinity | | 220 | mg/L as CaCo3 |
| Total Alkalinity | | 220 | mg/L as CaCo3 |
| Specific Conductance | | 1170 | µMHOS/cm |
| Chloride | | 124 | mg/L |
| Fluoride | | 2.28 | mg/L |
| Nitrate-N | | 9.19 | mg/L |
| Sulfate | [1] | 124 | mg/L |
| Dissolved Calcium | | 121 | mg/L |
| Dissolved Magnesium | | 25.6 | mg/L |
| Dissolved Potassium | | 7.23 | mg/L |
| Dissolved Sodium | | 69.9 | mg/L |
| Total Dissolved Solids | | 730 | mg/L |
| pH | [2] | 7.7 | s.u. |

## Sample: 192221 - 0203051314

| Param | Flag | Result | Units |
|---|---|---|---|
| Bromochloromethane | | <1.00 | µg/L |
| Dichlorodifluoromethane | | <1.00 | µg/L |
| Chloromethane (methyl chloride) | | <1.00 | µg/L |
| Vinyl Chloride | | <1.00 | µg/L |
| Bromomethane (methyl bromide) | | <5.00 | µg/L |
| Chloroethane | | <1.00 | µg/L |
| Trichlorofluoromethane | | <1.00 | µg/L |

*Continued on next page ...*

[1]Sulfate was re-ran on IC030802-2.sch (PB18141; QC18713). ICV %IA = 93; CCV %IA = 97; matrix spikes RPD = 0, %EA = 91; LCS spikes RPD = 2, %EA = 94.

[2]Sample was received out of holding time. Test should be ran in the field. Sample was tested as soon as it came in.

*Sample 192221 continued ...*

| Param | Flag | Result | Units |
|---|---|---|---|
| Acetone | | <10.0 | µg/L |
| Iodomethane (methyl iodide) | | <5.00 | µg/L |
| Carbon Disulfide | | <1.00 | µg/L |
| Acrylonitrile | | <1.00 | µg/L |
| 2-Butanone (MEK) | | <5.00 | µg/L |
| 4-methyl-2-pentanone (MIBK) | | <5.00 | µg/L |
| 2-hexanone | | <5.00 | µg/L |
| trans 1,4-Dichloro-2-butene | | <10.0 | µg/L |
| 1,1-Dichloroethene | | <1.00 | µg/L |
| Methylene chloride | | <5.00 | µg/L |
| MTBE | | <1.00 | µg/L |
| trans-1,2-Dichloroethene | | <1.00 | µg/L |
| 1,1-Dichloroethane | | <1.00 | µg/L |
| cis-1,2-Dichloroethene | | <1.00 | µg/L |
| 2,2-Dichloropropane | | <1.00 | µg/L |
| 1,2-Dichloroethane (EDC) | | <1.00 | µg/L |
| Chloroform | | <1.00 | µg/L |
| 1,1,1-Trichloroethane | | <1.00 | µg/L |
| 1,1-Dichloropropene | | <1.00 | µg/L |
| Benzene | | <1.00 | µg/L |
| Carbon Tetrachloride | | <1.00 | µg/L |
| 1,2-Dichloropropane | | <1.00 | µg/L |
| Trichloroethene (TCE) | | <1.00 | µg/L |
| Dibromomethane (methylene bromide) | | <1.00 | µg/L |
| Bromodichloromethane | | <1.00 | µg/L |
| 2-Chloroethyl vinyl ether | | <5.00 | µg/L |
| cis-1,3-Dichloropropene | | <1.00 | µg/L |
| trans-1,3-Dichloropropene | | <1.00 | µg/L |
| Toluene | | <1.00 | µg/L |
| 1,1,2-Trichloroethane | | <1.00 | µg/L |
| 1,3-Dichloropropane | | <1.00 | µg/L |
| Dibromochloromethane | | <1.00 | µg/L |
| 1,2-Dibromoethane (EDB) | | <1.00 | µg/L |
| Tetrachloroethene (PCE) | | <1.00 | µg/L |
| Chlorobenzene | | <1.00 | µg/L |
| 1,1,1,2-Tetrachloroethane | | <1.00 | µg/L |
| Ethylbenzene | | <1.00 | µg/L |
| m,p-Xylene | | <1.00 | µg/L |
| Bromoform | | <1.00 | µg/L |
| Styrene | | <1.00 | µg/L |
| o-Xylene | | <1.00 | µg/L |
| 1,1,2,2-Tetrachloroethane | | <1.00 | µg/L |
| 2-Chlorotoluene | | <1.00 | µg/L |
| 1,2,3-Trichloropropane | | <1.00 | µg/L |
| Isopropylbenzene | | <1.00 | µg/L |
| Bromobenzene | | <1.00 | µg/L |
| n-Propylbenzene | | <1.00 | µg/L |
| 1,3,5-Trimethylbenzene | | <1.00 | µg/L |
| tert-Butylbenzene | | <1.00 | µg/L |
| 1,2,4-Trimethylbenzene | | <1.00 | µg/L |
| 1,4-Dichlorobenzene (para) | | <1.00 | µg/L |
| sec-Butylbenzene | | <1.00 | µg/L |
| 1,3-Dichlorobenzene (meta) | | <1.00 | µg/L |

*Continued on next page ...*

*Sample 192221 continued ...*

| Param | Flag | Result | Units |
|---|---|---|---|
| p-Isopropyltoluene | | <1.00 | µg/L |
| 4-Chlorotoluene | | <1.00 | µg/L |
| 1,2-Dichlorobenzene (ortho) | | <1.00 | µg/L |
| n-Butylbenzene | | <1.00 | µg/L |
| 1,2-Dibromo-3-chloropropane | | <5.00 | µg/L |
| 1,2,3-Trichlorobenzene | | <5.00 | µg/L |
| 1,2,4-Trichlorobenzene | | <5.00 | µg/L |
| Naphthalene | | <5.00 | µg/L |
| Hexachlorobutadiene | | <5.00 | µg/L |

## Cation-Anion Balance Sheet

Sample # 192220 Date: 3/18/02

| Cations | ppm | meq/L |
|---|---|---|
| Calcium | 121 | 6.0379 |
| Magnesium | 25.6 | 2.106624 |
| Sodium | 69.9 | 3.04065 |
| Potassium | 7.23 | 0.1849434 |

**Total Cations** 11.3701 in meq/L

| Anions | ppm | meq/L |
|---|---|---|
| Alkalinity | 220 | 4.4 |
| Sulfate | 124 | 2.58168 |
| Chloride | 124 | 3.49804 |
| Nitrate as N | 9.19 | 0.6560741 |
| Fluoride | 2.28 | 0.1200192 |

**Total Anions** 11.2558 in meq/L

**Percentage Error**
1.01038 %
(needs to be <10%)

OTHER INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| TDS | 730 | | | | |
| EC | 1170 | | | | |
| Measure EC and Cation Sums | 1137.0117 | Range should be: | 1053 | to | 1287 |
| Measure EC and Anion Sums | 1125.5813 | Range should be: | 1053 | to | 1287 |
| Calculated TDS/Conductivity | 0.6239316 | Range should be: | 0.55 | to | 0.77 |
| Measure TDS and Cation Sums | 0.6420338 | Range should be: | 0.55 | to | 0.77 |
| Measure TDS and Anion Sums | 0.6485538 | Range should be: | 0.55 | to | 0.77 |

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**
Governor
**Joanna Prukop**
Cabinet Secretary

**Lori Wrotenbery**
Director
**Oil Conservation Division**

August 15, 2003

Tina Burkett
905 Roundup
Carlsbad, New Mexico 88220

**RE: WATER WELL SAMPLE ANALYSES**

Dear Ms. Burkett:

On July 17, 2003, the New Mexico Oil Conservation Division (OCD) obtained a water sample from a private water well at property you own at 1903 Gary Lane in Hobbs, New Mexico. Enclosed you will find a copy of the volatile organic and general water chemistry laboratory analytical results of that water sample. The analyses show that the quality of the well water is within human health and domestic water supply standards set by the New Mexico Water Quality Control Commission.

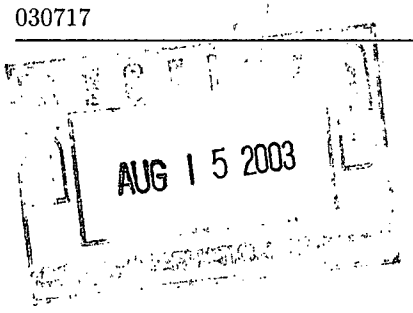
If you have any questions regarding the laboratory analyses of your water, please feel free to call me at (505) 476-3491.

Sincerely,

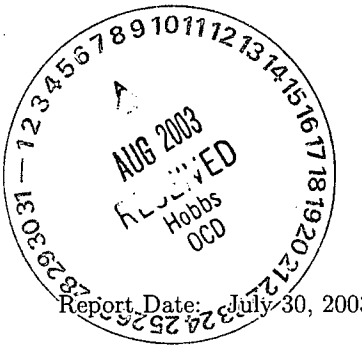
William C. Olson
Hydrologist
Environmental Bureau

Enclosure

xc w/ enclosure: Chris Williams, OCD Hobbs District Supervisor




# Summary Report




Paul Sheeley
OCD-Hobbs
1625 N. French Dr.
Hobbs, NM 88240

Report Date: July 30, 2003
Work Order: 3071811

Project Location: Lupe Rivas 1903 Gary Lane,Hobbs
Project Name: 1903 Gary Lane
Project Number: 030717

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 13328 | 0307171747 | water | 2003-07-17 | 07:41 | 2003-07-18 |

| Sample - Field Code | BTEX Benzene (mg/L) | BTEX Toluene (mg/L) | BTEX Ethylbenzene (mg/L) | BTEX Xylene (isomers) (mg/L) | TPH DRO DRO (mg/L) | TPH GRO GRO (mg/L) |
|---|---|---|---|---|---|---|
| 13328 - 0307171747 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <5.00 | 0.512 |

**Sample: 13328 - 0307171747**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1.00 |
| Bicarbonate Alkalinity | | 222 | mg/L as CaCo3 | 4.00 |
| Total Alkalinity | | 222 | mg/L as CaCo3 | 4.00 |
| Dissolved Calcium | | 133 | mg/L | 0.500 |
| Dissolved Potassium | | 3.35 | mg/L | 0.500 |
| Dissolved Magnesium | | 21.7 | mg/L | 0.500 |
| Dissolved Sodium | | 99.1 | mg/L | 0.500 |
| Specific Conductance | | 1220 | $\mu$MHOS/cm | 0.00 |
| Chloride | | 108 | mg/L | 0.500 |
| Fluoride | | 1.08 | mg/L | 0.200 |
| Sulfate | | 214 | mg/L | 0.500 |
| Nitrate-N | | 5.09 | mg/L | 0.200 |
| pH | [1] | 7.50 | s.u. | 0.00 |
| Total Dissolved Solids | | 902.0 | mg/L | 10.00 |

[1] received out of holding time

# Cation-Anion Balance Sheet

Sample # 13328 Date: 7/31/03

**Cations**

| | ppm | meq/L |
|---|---|---|
| Calcium | 133 | 6.6367 |
| Magnesium | 21.7 | 1.785693 |
| Sodium | 99.1 | 4.31085 |
| Potassium | 3.35 | 0.085693 |

**Total Cations** 12.8189 in meq/L

**Anions**

| | ppm | meq/L |
|---|---|---|
| Alkalinity | 222 | 4.44 |
| Sulfate | 214 | 4.45548 |
| Chloride | 108 | 3.04668 |
| Nitrate as N | 5.09 | 0.3633751 |
| Fluoride | 1.08 | 0.0568512 |

**Total Anions** 12.3624 in meq/L

**Percentage Error**
3.6261 %
(needs to be <10%)

OTHER INFORMATION

| | |
|---|---|
| TDS | 902 |
| EC | 1220 |

| | | | | | |
|---|---|---|---|---|---|
| Measure EC and Cation Sums | 1281.8936 | Range should be: | 1098 | to | 1342 |
| Measure EC and Anion Sums | 1236.2386 | Range should be: | 1098 | to | 1342 |
| Calculated TDS/Conductivity | 0.7393443 | Range should be: | 0.55 | to | 0.77 |
| Measure TDS and Cation Sums | 0.7036465 | Range should be: | 0.55 | to | 0.77 |
| Measure TDS and Anion Sums | 0.7296326 | Range should be: | 0.55 | to | 0.77 |

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

# Analytical and Quality Control Report

Paul Sheeley
OCD-Hobbs
1625 N. French Dr.
Hobbs, NM 88240

Report Date: July 30, 2003

Work Order: 3071811

Project Location: Lupe Rivas 1903 Gary Lane,Hobbs
Project Name: 1903 Gary Lane
Project Number: 030717

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 13328 | 0307171747 | water | 2003-07-17 | 07:41 | 2003-07-18 |

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

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

# Analytical Report

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Alkalinity | Analytical Method: | SM 2320B | Prep Method: | N/A |
| QC Batch: | 3173 | Date Analyzed: | 2003-07-22 | Analyzed By: | RS |
| Prep Batch: | 2860 | Date Prepared: | 2003-07-22 | Prepared By: | RS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 222 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 222 | mg/L as CaCo3 | 1 | 4.00 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5030B |
| QC Batch: | 3088 | Date Analyzed: | 2003-07-18 | Analyzed By: | BS |
| Prep Batch: | 2788 | Date Prepared: | 2003-07-18 | Prepared By: | BS |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Benzene | | <0.00500 | mg/L | 5 | 0.00100 |
| Toluene | | <0.00500 | mg/L | 5 | 0.00100 |
| Ethylbenzene | | <0.00500 | mg/L | 5 | 0.00100 |
| Xylene (isomers) | | <0.00500 | mg/L | 5 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.450 | mg/L | 5 | 0.100 | 90 | 78.7 - 110 |
| 4-Bromofluorobenzene (4-BFB) | | 0.398 | mg/L | 5 | 0.100 | 80 | 77.8 - 110 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Cations | Analytical Method: | S 6010B | Prep Method: | S 3005A |
| QC Batch: | 3364 | Date Analyzed: | 2003-07-29 | Analyzed By: | BC |
| Prep Batch: | 2828 | Date Prepared: | 2003-07-22 | Prepared By: | TP |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| Dissolved Calcium | | 133 | mg/L | 1 | 0.500 |
| Dissolved Potassium | | 3.35 | mg/L | 1 | 0.500 |
| Dissolved Magnesium | | 21.7 | mg/L | 1 | 0.500 |
| Dissolved Sodium | | 99.1 | mg/L | 1 | 0.500 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Conductivity | Analytical Method: | SM 2510B | Prep Method: | N/A |
| QC Batch: | 3149 | Date Analyzed: | 2003-07-23 | Analyzed By: | JSW |
| Prep Batch: | 2840 | Date Prepared: | 2003-07-21 | Prepared By: | JSW |

| Parameter | Flag | Result | RL Units | Dilution | RL |
|---|---|---|---|---|---|
| Specific Conductance | | 1220 | µMHOS/cm | 1 | 0.00 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | Ion Chromatography | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 3136 | Date Analyzed: | 2003-07-19 | Analyzed By: | JSW |
| Prep Batch: | 2830 | Date Prepared: | 2003-07-18 | Prepared By: | JSW |

| Parameter | Flag | Result | RL Units | Dilution | RL |
|---|---|---|---|---|---|
| Chloride | | 108 | mg/L | 5 | 0.500 |
| Fluoride | | 1.08 | mg/L | 5 | 0.200 |
| Sulfate | | 214 | mg/L | 5 | 0.500 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | NO3 (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 3136 | Date Analyzed: | 2003-07-19 | Analyzed By: | JSW |
| Prep Batch: | 2830 | Date Prepared: | 2003-07-18 | Prepared By: | JSW |

| Parameter | Flag | Result | RL Units | Dilution | RL |
|---|---|---|---|---|---|
| Nitrate-N | | 5.09 | mg/L | 5 | 0.200 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | pH | Analytical Method: | SM 4500-H+ | Prep Method: | N/A |
| QC Batch: | 3169 | Date Analyzed: | 2003-07-18 | Analyzed By: | MW |
| Prep Batch: | 2863 | Date Prepared: | 2003-07-18 | Prepared By: | MW |

| Parameter | Flag | Result | RL Units | Dilution | RL |
|---|---|---|---|---|---|
| pH | [1] | 7.50 | s.u. | 1 | 0.00 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TDS | Analytical Method: | SM 2540C | Prep Method: | N/A |
| QC Batch: | 3066 | Date Analyzed: | 2003-07-21 | Analyzed By: | JSW |
| Prep Batch: | 2769 | Date Prepared: | 2003-07-18 | Prepared By: | JSW |

| Parameter | Flag | Result | RL Units | Dilution | RL |
|---|---|---|---|---|---|
| Total Dissolved Solids | | 902.0 | mg/L | 2 | 10.00 |

**Sample: 13328 - 0307171747**

[1] received out of holding time

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TPH DRO | Analytical Method: | Mod. 8015B | Prep Method: | N/A |
| QC Batch: | 3083 | Date Analyzed: | 2003-07-19 | Analyzed By: | BP |
| Prep Batch: | 2783 | Date Prepared: | 2003-07-18 | Prepared By: | DS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| DRO | | <5.00 | | mg/L | 0.1 | 50.0 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 9.60 | mg/L | 0.1 | 150 | 64 | 44 - 123 |

**Sample: 13328 - 0307171747**

| | | | | | |
|---|---|---|---|---|---|
| Analysis: | TPH GRO | Analytical Method: | S 8015B | Prep Method: | S 5030B |
| QC Batch: | 3089 | Date Analyzed: | 2003-07-18 | Analyzed By: | BS |
| Prep Batch: | 2788 | Date Prepared: | 2003-07-18 | Prepared By: | BS |

| Parameter | Flag | Result | RL | Units | Dilution | RL |
|---|---|---|---|---|---|---|
| GRO | | 0.512 | | mg/L | 5 | 0.100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.418 | mg/L | 5 | 0.100 | 84 | 73 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 0.401 | mg/L | 5 | 0.100 | 80 | 78 - 120 |

**Method Blank (1)** QC Batch: 3066

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Total Dissolved Solids | | <10.00 | mg/L | 10 |

**Method Blank (1)** QC Batch: 3083

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| DRO | | <5.00 | mg/L | 50 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 8.40 | mg/L | 0.1 | 150 | 56 | 44 - 123 |

**Method Blank (1)** QC Batch: 3088

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Benzene | | <0.00100 | mg/L | 0.001 |
| Toluene | | <0.00100 | mg/L | 0.001 |

*continued ...*

*method blank continued ...*

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Ethylbenzene | | <0.00100 | mg/L | 0.001 |
| Xylene (isomers) | | <0.00100 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | [2] | 0.113 | mg/L | 1 | 0.100 | 113 | 78.7 - 110 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0997 | mg/L | 1 | 0.100 | 100 | 77.8 - 110 |

**Method Blank (1)** QC Batch: 3089

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| GRO | | 0.128 | mg/L | 0.1 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.103 | mg/L | 1 | 0.100 | 103 | 73 - 120 |
| 4-Bromofluorobenzene (4-BFB) | | 0.102 | mg/L | 1 | 0.100 | 102 | 78 - 120 |

**Method Blank (1)** QC Batch: 3136

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Nitrate-N | | <0.200 | mg/L | 0.2 |

**Method Blank (1)** QC Batch: 3136

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <0.500 | mg/L | 0.5 |
| Fluoride | | <0.200 | mg/L | 0.2 |
| Sulfate | | <0.500 | mg/L | 0.5 |

**Method Blank (1)** QC Batch: 3149

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Specific Conductance | | 4.35 | $\mu$MHOS/cm | |

**Method Blank (1)** QC Batch: 3173

[2]High surrogate recovery due to prep. ICV, CCV show the method to be in control.

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |

**Method Blank (1)** QC Batch: 3364

| Parameter | Flag | Result | Units | RL |
|---|---|---|---|---|
| Dissolved Calcium | | <0.500 | mg/L | 0.5 |
| Dissolved Potassium | | <0.500 | mg/L | 0.5 |
| Dissolved Magnesium | | <0.500 | mg/L | 0.5 |
| Dissolved Sodium | | <0.500 | mg/L | 0.5 |

**Duplicate (1)** QC Batch: 3066

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1336 | 1266 | mg/L | 2 | 5 | 9.41 |

**Duplicate (1)** QC Batch: 3149

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Specific Conductance | 2380 | 2290 | $\mu$MHOS/cm | 1 | 4 | 2.9 |

**Duplicate (1)** QC Batch: 3169

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| pH [3] | 7.50 | 7.50 | s.u. | 1 | 0 | 0 |

**Duplicate (1)** QC Batch: 3173

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 5.81 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 5.81 |
| Bicarbonate Alkalinity | 160 | 156 | mg/L as CaCo3 | 1 | 2 | 5.81 |
| Total Alkalinity | 160 | 156 | mg/L as CaCo3 | 1 | 2 | 5.81 |

**Laboratory Control Spike (LCS-1)** QC Batch: 3083

[3]received out of holding time

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 28.6 | 29.8 | mg/L | 0.1 | 250 | <0.230 | 114 | 4 | 86 - 120 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| n-Triacontane | 8.50 | 9.20 | mg/L | 0.1 | 150 | 57 | 61 | 44 - 123 |

**Laboratory Control Spike (LCS-1)** QC Batch: 3088

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.104 | 0.103 | mg/L | 1 | 0.100 | <0.000410 | 104 | 1 | 80.5 - 113 | 20 |
| Benzene | 0.104 | 0.103 | mg/L | 1 | 0.100 | <0.000410 | 104 | 1 | 80.5 - 113 | 20 |
| Toluene | 0.102 | 0.103 | mg/L | 1 | 0.100 | <0.000760 | 102 | 1 | 81.2 - 112 | 20 |
| Toluene | 0.102 | 0.103 | mg/L | 1 | 0.100 | <0.000760 | 102 | 1 | 81.2 - 112 | 20 |
| Ethylbenzene | 0.105 | 0.106 | mg/L | 1 | 0.100 | <0.00120 | 105 | 1 | 82.2 - 112 | 20 |
| Ethylbenzene | 0.105 | 0.106 | mg/L | 1 | 0.100 | <0.00120 | 105 | 1 | 82.2 - 112 | 20 |
| Xylene (isomers) | 0.311 | 0.314 | mg/L | 1 | 0.300 | <0.00121 | 104 | 1 | 80.6 - 112 | 20 |
| Xylene (isomers) | 0.311 | 0.314 | mg/L | 1 | 0.300 | <0.00121 | 104 | 1 | 80.6 - 112 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | 0.107 | 0.108 | mg/L | 1 | 0.100 | 107 | 108 | 78.7 - 110 |
| Trifluorotoluene (TFT) | 0.107 | 0.108 | mg/L | 1 | 0.100 | 107 | 108 | 78.7 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 0.110 | 0.110 | mg/L | 1 | 0.100 | 110 | 110 | 77.8 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 0.110 | 0.110 | mg/L | 1 | 0.100 | 110 | 110 | 77.8 - 110 |

**Laboratory Control Spike (LCS-1)** QC Batch: 3089

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| GRO [4] | 0.784 | 0.799 | mg/L | 1 | 1.00 | <0.0261 | 78 | 2 | 78.1 - 124 | 20 |

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

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | 0.0928 | 0.0832 | mg/L | 1 | 0.100 | 93 | 83 | 73 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.0995 | 0.0972 | mg/L | 1 | 0.100 | 100 | 97 | 78 - 120 |

**Laboratory Control Spike (LCS-1)** QC Batch: 3136

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-N | 2.30 | 2.28 | mg/L | 1 | 2.50 | <0.126 | 92 | 1 | 90 - 110 | 20 |

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

[4]Low analyte recovery due to prep. ICV, CCV show the method to be in control.

**Laboratory Control Spike (LCS-1)** QC Batch: 3136

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 12.8 | 12.6 | mg/L | 1 | 12.5 | <1.49 | 102 | 2 | 90 - 110 | 20 |
| Fluoride | 2.32 | 2.27 | mg/L | 1 | 2.50 | <0.0153 | 93 | 2 | 90 - 110 | 20 |
| Sulfate | 12.9 | 12.5 | mg/L | 1 | 12.5 | <0.171 | 103 | 3 | 90 - 110 | 20 |

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

**Laboratory Control Spike (LCS-1)** QC Batch: 3364

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Calcium | 95.8 | 97.0 | mg/L | 1 | 100 | <0.183 | 96 | 1 | 85 - 115 | 20 |
| Dissolved Potassium | 95.9 | 94.7 | mg/L | 1 | 100 | <0.135 | 96 | 1 | 85 - 115 | 20 |
| Dissolved Magnesium | 92.3 | 92.1 | mg/L | 1 | 100 | <0.183 | 92 | 0 | 85 - 115 | 20 |
| Dissolved Sodium | 95.9 | 91.2 | mg/L | 1 | 100 | <0.105 | 96 | 5 | 85 - 115 | 20 |

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

**Matrix Spike (MS-1)** QC Batch: 3089

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.06 | 1.11 | mg/L | 1 | 1.00 | <0.0261 | 106 | 5 | 78.1 - 124 | 20 |

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

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | 0.104 | 0.103 | mg/L | 1 | 0.1 | 104 | 103 | 73 - 120 |
| 4-Bromofluorobenzene (4-BFB) | 0.112 | 0.110 | mg/L | 1 | 0.1 | 112 | 110 | 78 - 120 |

**Matrix Spike (MS-1)** QC Batch: 3136

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-N | 265 | 266 | mg/L | 100 | 2.50 | 38.2 | 91 | 0 | 62.2 - 121 | 20 |

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

**Matrix Spike (MS-1)** QC Batch: 3136

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 2000 | 2010 | mg/L | 100 | 12.5 | 854 | 92 | 0 | 32.7 - 136 | 20 |
| Fluoride | 231 | 236 | mg/L | 100 | 2.50 | 12.5 | 87 | 2 | 30.1 - 187 | 20 |
| Sulfate | 1730 | 1740 | mg/L | 100 | 12.5 | 657 | 86 | 0 | 69.9 - 114 | 20 |

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

**Matrix Spike (MS-1)** QC Batch: 3364

| Param | | MS Result | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Calcium | | 236 | 218 | mg/L | 1 | 100 | 133 | 103 | 8 | 75 - 125 | 20 |
| Dissolved Potassium | | 108 | 94.7 | mg/L | 1 | 100 | 3.35 | 105 | 13 | 75 - 125 | 20 |
| Dissolved Magnesium | [5] | 98.9 | 87.2 | mg/L | 1 | 100 | 21.7 | 77 | 12 | 75 - 125 | 20 |
| Dissolved Sodium | [6][7] | <0.105 | 0.00 | mg/L | 1 | 100 | 99.1 | -99 | 0 | 75 - 125 | 20 |

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

**Standard (ICV-1)** QC Batch: 3066

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 1062 | 106 | 90 - 110 | 2003-07-21 |

**Standard (CCV-1)** QC Batch: 3066

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 1053 | 105 | 90 - 110 | 2003-07-21 |

**Standard (ICV-1)** QC Batch: 3083

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 308 | 123 | 75 - 125 | 2003-07-19 |

**Standard (CCV-1)** QC Batch: 3083

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 278 | 111 | 75 - 125 | 2003-07-19 |

**Standard (CCV-1)** QC Batch: 3088

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Benzene | | mg/L | 0.100 | 0.108 | 108 | 85 - 115 | 2003-07-18 |
| Toluene | | mg/L | 0.100 | 0.106 | 106 | 85 - 115 | 2003-07-18 |
| Ethylbenzene | | mg/L | 0.100 | 0.106 | 106 | 85 - 115 | 2003-07-18 |
| Xylene (isomers) | | mg/L | 0.300 | 0.319 | 106 | 85 - 115 | 2003-07-18 |

[5]ms recovery invalid due to matrix effect
[6]ms recovery invalid due to matrix effect
[7]ms recovery invalid due to matrix effect

**Standard (CCV-2)** QC Batch: 3088

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Benzene | | mg/L | 0.100 | 0.108 | 108 | 85 - 115 | 2003-07-18 |
| Toluene | | mg/L | 0.100 | 0.107 | 107 | 85 - 115 | 2003-07-18 |
| Ethylbenzene | | mg/L | 0.100 | 0.110 | 110 | 85 - 115 | 2003-07-18 |
| Xylene (isomers) | | mg/L | 0.300 | 0.326 | 109 | 85 - 115 | 2003-07-18 |

**Standard (CCV-1)** QC Batch: 3089

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 0.929 | 93 | 85 - 115 | 2003-07-18 |

**Standard (CCV-2)** QC Batch: 3089

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 0.900 | 90 | 85 - 115 | 2003-07-18 |

**Standard (ICV-1)** QC Batch: 3136

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate-N | | mg/L | 2.50 | 2.28 | 91 | 90 - 110 | 2003-07-19 |

**Standard (ICV-1)** QC Batch: 3136

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/L | 12.5 | 12.8 | 102 | 90 - 110 | 2003-07-19 |
| Fluoride | | mg/L | 2.50 | 2.33 | 93 | 90 - 110 | 2003-07-19 |
| Sulfate | | mg/L | 12.5 | 12.7 | 102 | 90 - 110 | 2003-07-19 |

**Standard (CCV-1)** QC Batch: 3136

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate-N | | mg/L | 2.50 | 2.29 | 92 | 90 - 110 | 2003-07-19 |

**Standard (CCV-1)** QC Batch: 3136

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/L | 12.5 | 12.6 | 101 | 90 - 110 | 2003-07-19 |
| Fluoride | | mg/L | 2.50 | 2.31 | 92 | 90 - 110 | 2003-07-19 |
| Sulfate | | mg/L | 12.5 | 12.5 | 100 | 90 - 110 | 2003-07-19 |

**Standard (ICV-1)** QC Batch: 3149

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Specific Conductance | [8] | µMHOS/cm | 1410 | 1410 | 100 | 90 - 110 | 2003-07-23 |

**Standard (CCV-1)** QC Batch: 3149

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Specific Conductance | | µMHOS/cm | 1410 | 1410 | 100 | 90 - 110 | 2003-07-23 |

**Standard (ICV-1)** QC Batch: 3169

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 7.00 | 100 | 98 - 102 | 2003-07-18 |

**Standard (CCV-1)** QC Batch: 3169

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 7.00 | 100 | 98 - 102 | 2003-07-18 |

**Standard (ICV-1)** QC Batch: 3173

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2003-07-22 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2003-07-22 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2003-07-22 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 238 | 95 | 90 - 110 | 2003-07-22 |

**Standard (CCV-1)** QC Batch: 3173

[8]Changed spike amount from 1413 to 1409 due to different standard bottle used

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2003-07-22 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 0 - 200 | 2003-07-22 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2003-07-22 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 242 | 97 | 90 - 110 | 2003-07-22 |

**Standard (ICV-1)** QC Batch: 3364

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Calcium | | mg/L | 25.0 | 23.9 | 96 | 90 - 110 | 2003-07-29 |
| Dissolved Potassium | | mg/L | 25.0 | 23.7 | 95 | 90 - 110 | 2003-07-29 |
| Dissolved Magnesium | | mg/L | 25.0 | 23.9 | 96 | 90 - 110 | 2003-07-29 |
| Dissolved Sodium | | mg/L | 25.0 | 23.4 | 94 | 90 - 110 | 2003-07-29 |

**Standard (CCV-1)** QC Batch: 3364

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Calcium | | mg/L | 25.0 | 24.4 | 98 | 90 - 110 | 2003-07-29 |
| Dissolved Potassium | | mg/L | 25.0 | 24.0 | 96 | 90 - 110 | 2003-07-29 |
| Dissolved Magnesium | | mg/L | 25.0 | 23.3 | 93 | 90 - 110 | 2003-07-29 |
| Dissolved Sodium | | mg/L | 25.0 | 23.3 | 93 | 90 - 110 | 2003-07-29 |

13328



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# TraceAnalysis, Inc.

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30718 11

Company Name: New Mexico Oil Conservation Div. Phone #: 505.393.6161 x113

Address: (Street, City, Zip) 1625 N. French Dr Hobbs 88240 Fax #: 393.0720

Contact Person: Paul Sheeley - Bill Olson (505.476.3491)

Invoice to: (If different from above) Ed Martin - NMOCD 1220 St. Francis, Santa Fe

Project #: 030717 Project Name: 1903 Gary Lane

Project Location: Lupe Rivas 1903 Gary Lane, Hobbs Sampler Signature:

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL | HNO3 | NaHSO4 | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13328 | 0307170747 | 1 | 1L | X | | | | | | | | | X | | 7/17 | 7:41 |
| | 0307170748A | 1 | 40mL | X | | | | X | | | | | X | | | |
| | 0307170748B | 1 | " | X | | | | X | | | | | X | | | |

**ANALYSIS REQUEST**
(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC-MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | General Chemistry (NMOCD) | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | |

CRO ORO

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 7-17-03 | 12:00 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received at Laboratory by: | Date: | Time: |
| | | | | 7-18-03 | 10:24 |

**LAB USE ONLY**

Intact Y N
Headspace Y N
Temp 4° °
Log-in Review

REMARKS:
Not enough sample to run 418.1 & General Chem. Need 1L each.

Carrier # TNM&O 903014980-0

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

ORIGINAL COPY

1327 7/31 FIP

# TraceAnalysis , Inc.
# General Terms and Conditions

**Article 1: General**

1.1 The words "we", "us", and "our" refer to TraceAnalysis. You will deliver samples to us for analysis, accompanied, or preceded by, a signed Chain of Custody/Analysis Request defining the scope and timing of our work and stating either the testing criteria you require or identifying the agency to which the results will be submitted.

**Article 2: Our General Responsibilities**

2.1 We agree to provide the professional services described in this agreement. We will provide you with written reports containing analytical results. In performing our service, we will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession practicing in the same locality.

2.2 Test and observations will be conducted using test procedures and laboratory protocols as specified in accepted Chain of Custody/Analysis Request. If you direct a manner of making tests that varies from our standard or recommended procedures, you agree to hold us harmless from all claims, damages, and expenses arising out of your direction.

2.3 We will not release information regarding our services for you or any information that we receive from you, except for information that is in the public domain and except as we are required by law.

**Article 3: Your General Responsibilities**

3.1 On each Chain of Custody/Analysis Request you will designate a representative who has authority to transmit instructions, receive information, and make decisions relative to our work.

3.2 You will respond in a reasonable time to our request for decisions, authorization for changes, additional compensation, or schedule extensions.

3.3 For each Chain of Custody/Analysis Request you will either provide us with the exact methods for analysis of each fraction or you will identify the regulations and agency under which or for which the analysis are to be prepared. If permits, consent orders, work plans, quality assurance plans, or correspondence with regulatory agencies address laboratory requirements, you will provide us with copies of the relevant provisions prior to our initiation of the analyses.

**Article 4: Reports and Records**

4.1 We will furnish copies of each report to you as specified in the Chain of Custody and Analysis Request. We will retain analytical data for seven years and financial data for three years relating to the services performed following transmittal of our final report.

4.2 If you do not pay for our services as agreed, you agree that we may retain all reports and work not yet delivered to you. You also agree that our work will not be used by you for any purpose unless paid for.

**Article 5: Delivery and Acceptance of Samples**

5.1 Until we accept delivery of samples by notation on chain of custody documents or otherwise in writing accept the samples, you are responsible for loss of or damage to samples. Until so accepted, we have no responsibility as to samples.

5.2 As to any samples that are suspected of containing hazardous substances or radioactive material, such that would make special handling required, you will specify the suspected or known substances and level and type of radioactive activity. This information will be given to us in writing as a part of the Chain of Custody/Analysis Request and will precede or accompany samples suspected of containing hazardous substances.

5.3 Samples accepted by us remain your property while in our custody. We will retain samples for a period of 14 days following the date of submission or our report. We will extend the retention period if you so direct. Following the retention period we will dispose of non-hazardous samples. We may return highly hazardous, acutely toxic, or radioactive samples and samples containers and residues to you. You agree to accept them.

5.4 Regardless of a prior acceptance, we may refuse acceptance or revoke acceptance of samples if we determine that the samples present a risk to health, safety, or the environment, or that we are not authorized to accept them. If we revoke acceptance of any sample, you will have it removed from our facilities promptly.

**Article 6: Changes to Task Orders**

6.1 No persons other than the designated representatives for each Chain of Custody/Analysis Request are authorized to act regarding changes to a Chain of Custody/Analysis Request. We will notify you promptly if we identify any activity that we regard as a change to the terms and conditions of a Chain of Custody/Analysis Request. Our notice will include the date, nature, circumstance, and cause of the activity regarded as a change. We will specify the particular elements of project performance for which we may seek an equitable adjustment.

6.2 You will respond to the notice provided for in paragraph 6.1 promptly. Changes may be made to a Chain of Custody/Analysis Request through issuance of an amendment. The amendment will specify the reason for the change and, as appropriate, include any modified budgets, schedules, scope of work, and other necessary provisions.

6.3 Until agreement is reached concerning the proposed change, we may regard the situation as a suspension directed by you.

**Article 7: Compensation**

7.1 Our pricing for the work is predicated upon your acceptance of the conditions and allocations of risks and responsibilities described in this agreement. You agree to pay for services as stated in our proposal and accepted by you or according to our then current standard pricing documents if there is no other written agreement as to price. An estimate or statement of probable cost is not a firm figure unless stated as such.

7.2 Unless otherwise agreed to elsewhere, you agree to pay invoices within 30 days of receipt unless, within 15 days from receipt of the invoice, you notify us in writing of a particular item that is alleged to be incorrect. You agree to pay the uncontested portions of the invoices within 30 days of receipt. You agree to pay interest on unpaid balances beginning 60 days after receipt of invoice at the rate of 1.5% per month, but not to exceed the maximum rate allowed by law.

7.3 If you direct us to invoice another, we will do so, but you agree to be ultimately responsible for our compensation until you provide us with that third party's written acceptance of all terms of our agreement and until we agree to the substitution.

7.4 You agree to compensate us for our services and expenses if we are required to respond to legal process related to our services for you. Compensable services include hourly charges for all personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, the preparation of the testifier, and appearances related to the legal process.

7.5 If we are delayed by, or the period of performance is materially extended because of, factors beyond our control, or if project condition or the scope or amount of work change, or if the standards or methods of testing change, we will give you timely notice of the change and we will receive an equitable adjustment of our compensation.

**Article 8: Risk Allocation, Disputes, and Damages**

8.1 Neither we nor you will be liable to the other for special, incidental, consequential or punitive losses or damages, including but not limited to those arising from delay, loss of use, loss of profits or revenue, or the cost of capital.

8.2 We will not be liable to you for damages unless suit is commenced within two years of injury or loss or within two years of the date of the completion of our services, whichever is earlier. In no event will we be liable to you unless you have notified us of the discovery of the negligent act, error, omission or breach within 30 days of the date of its discovery and unless you have given us an opportunity to investigate and to recommend ways of mitigating your damages.

8.3 In the event you fail to pay us within 90 days following the invoice date, we may consider the default a total breach of our agreement and we may, at our option, terminate all of our duties without liability to you or to others.

8.4 If it is claimed by a third party that we did not complete an acceptable analysis, at your request will seek further review and acceptance of the completed work by the third party and use your best efforts to obtain that acceptance. We will assist you as directed.

8.5 You and we agree that disputes will be submitted to "Alternative Dispute Resolution" (ADR) as a condition precedent to litigation and other remedies provided by law. Each of us agrees to exercise good faith efforts to resolve disputes through mediation unless we both agree upon another ADR procedure. All disputes will be governed by the law of the place where our services are rendered, or if our services are rendered in more than one state, you and we agree that the law of the place that services were first rendered will govern.

8.6 If either of us makes a claim against the other as to issues out of the performance of this agreement, the prevailing party will be entitled to recover its reasonable expenses of litigation, including reasonable attorney's fees. If we bring lawsuit against you to collect our invoiced fees and expenses, you agree to pay our reasonable collection expenses including attorney fees.

**Article 9: Indemnities**

9.1 We will indemnify and hold you harmless from and against demands, damages, and expenses caused by our negligent acts and omissions and breach of contract and by the negligent acts and omissions and breach of contract of persons for whom we are legally responsible. You will indemnify and hold us harmless from and against demands, damages, and expenses caused by your negligent act and omissions and breach of contract and by the negligent acts and omissions and breach of contract of persons for whom you are legally responsible. These indemnities are subject to specific limitations provided for in this agreement.

**Article 10: Miscellaneous Provisions**

10.1 This agreement constitutes the entire agreement between you and us, and it supersedes all prior agreements. Any term, condition, prior course of dealing, course of performance, usage of trade, understanding, purchase order conditions, or other agreement purporting to modify, vary, supplement, or explain any provision of this agreement is of no effect until placed in writing and signed by both parties subsequent to the date of this agreement. In no event will the printed terms or conditions stated in a purchase or work order, other than an agreed upon Chain of Custody/Analysis Request, be considered a part of this agreement, even if the document is signed by both of us.

10.2 Neither party will assign this agreement without the express written approval of the other, but we may subcontract laboratory procedures with your approval as we deem necessary to meet our obligations to you.

10.3 If any of the provisions of this agreement are held to be invalid or unenforceable in any respect, the remaining terms will be in full effect and the agreement will be construed as if the invalid or unenforceable matters were never included in it. No waiver of any default will be waiver of any future default.

10.4 Neither you or we will have any liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, equipment failures, matrix interference, acts of authorities, and failures of subcontractors that could not be reasonably anticipated.

10.5 You may stop our work by giving a written suspension or termination directive, but once work has been suspended, we need not resume work until we agree to change in scope, schedule, and compensation. Upon suspension or termination, we will use reasonable care to preserve samples provided that you agree to compensate us for any additional effort, but we will have no responsibility for meeting holding time limitations after the effective time of a suspension or termination directive. We will be compensated for service rendered and expenses incurred prior to termination that cannot reasonably be avoided.

7-17-03 Sampling Windmill

Mostly Cloudy.

Lupe Rivas 1903 Garcia

Purged for 10 min from back yard spigot at garage.

| Parameter | Sample I.D. |
|---|---|
| Gen. Chem. TPH | 030717074? |
| BTEX | 030717074 8A HCl |
| " | 030717074 8B HCl |

all on ice — to bus station

7-17-03

Ken Marsh — Re
four C-138's for
from Navajo i
4

# Summary Report

Jerome Marez
Intera Inc.
6501 Americas Parkway NE 820
Suite 820
Albuquerque, NM 87110

Report Date: June 12, 2003

Work Order: 3060619

Project Location: Windmill Oil
Project Name: Windmill Oil
Project Number: Document #03-199-000605

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 9139 | Packer Sales | water | 2003-06-02 | 15:30 | 2003-06-06 |
| 9140 | Emma Owings | water | 2003-06-02 | 16:30 | 2003-06-06 |
| 9141 | Mavis Williams | water | 2003-06-03 | 10:37 | 2003-06-06 |
| 9142 | Kely Williams | water | 2003-06-03 | 10:47 | 2003-06-06 |
| 9143 | TW Weddle | water | 2003-06-03 | 11:05 | 2003-06-06 |
| 9144 | Virgil Whittman | water | 2003-06-03 | 13:00 | 2003-06-06 |
| 9145 | Spud Cox | water | 2003-06-03 | 13:33 | 2003-06-06 |
| 9146 | James Wray | water | 2003-06-03 | 13:35 | 2003-06-06 |
| 9147 | J Cleveland | water | 2003-06-03 | 16:18 | 2003-06-06 |
| 9148 | Dwain Dobbs | water | 2003-06-04 | 09:00 | 2003-06-06 |
| 9149 | Rodriquez #1 | water | 2003-06-04 | 10:00 | 2003-06-06 |
| 9150 | Rodriquez #2 | water | 2003-06-04 | 10:20 | 2003-06-06 |
| 9151 | RV Kerbo | water | 2003-06-04 | 12:00 | 2003-06-06 |
| 9152 | K Muney | water | 2003-06-04 | 13:37 | 2003-06-06 |
| 9153 | G Compos | water | 2003-06-04 | 14:30 | 2003-06-06 |
| 9154 | J Pfeiffer | water | 2003-06-05 | 09:50 | 2003-06-06 |
| 9155 | V Tipps | water | 2003-06-05 | 10:12 | 2003-06-06 |
| 9156 | L Sandoval | water | 2003-06-05 | 10:55 | 2003-06-06 |
| 9157 | L & H Coons | water | 2003-06-05 | 11:25 | 2003-06-06 |
| 9158 | Stansberry #1 | water | 2003-06-05 | 12:05 | 2003-06-06 |
| 9159 | Stansberry #2 | water | 2003-06-05 | 12:27 | 2003-06-06 |
| 9160 | J. Garnsey | water | 2003-06-05 | 13:05 | 2003-06-06 |
| 9161 | Neal King | water | 2003-06-05 | 14:10 | 2003-06-06 |
| 9162 | B Stoneman | water | 2003-06-05 | 14:47 | 2003-06-06 |
| 9163 | B Glover | water | 2003-06-05 | 15:11 | 2003-06-06 |

| Sample - Field Code | BTEX Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (isomers) (mg/L) | TPH DRO DRO (mg/L) | TPH GRO GRO (mg/L) |
|---|---|---|---|---|---|---|
| 9139 - Packer Sales | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9140 - Emma Owings | 0.00110 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9141 - Mavis Williams | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9142 - Kely Williams | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9143 - TW Weddle | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9144 - Virgil Whittman | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9145 - Spud Cox | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9146 - James Wray | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9147 - J Cleveland | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |

*continued ...*

*... continued*

| Sample - Field Code | BTEX Benzene (mg/L) | BTEX Toluene (mg/L) | BTEX Ethylbenzene (mg/L) | BTEX Xylene (isomers) (mg/L) | TPH DRO DRO (mg/L) | TPH GRO GRO (mg/L) |
|---|---|---|---|---|---|---|
| 9148 - Dwain Dobbs | 0.00700 | 0.00200 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9149 - Rodriquez #1 | 0.00250 | 0.00130 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9150 - Rodriquez #2 | <0.00500 | 0.0883 | 0.148 | 0.773 | 117 | 12.4 |
| 9151 - RV Kerbo | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9152 - K Muney | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9153 - G Compos | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9154 - J Pfeiffer | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9155 - V Tipps | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9156 - L Sandoval | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9157 - L & H Coons | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9158 - Stansberry #1 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9159 - Stansberry #2 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9160 - J. Garnsey | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9161 - Neal King | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9162 - B Stoneman | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 9163 - B Glover | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |

**Sample: 9139 - Packer Sales**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 130 | mg/L | 0.500 |

**Sample: 9140 - Emma Owings**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 178 | mg/L | 0.500 |

**Sample: 9141 - Mavis Williams**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 70.3 | mg/L | 0.500 |

**Sample: 9142 - Kely Williams**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 120 | mg/L | 0.500 |

**Sample: 9143 - TW Weddle**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 92.9 | mg/L | 0.500 |

**Sample: 9144 - Virgil Whittman**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 198 | mg/L | 0.500 |

**Sample: 9145 - Spud Cox**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 74.5 | mg/L | 0.500 |

**Sample: 9146 - James Wray**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 49.8 | mg/L | 0.500 |

**Sample: 9147 - J Cleveland**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 135 | mg/L | 0.500 |

**Sample: 9148 - Dwain Dobbs**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 80.9 | mg/L | 0.500 |

**Sample: 9149 - Rodriquez #1**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 96.1 | mg/L | 0.500 |

**Sample: 9150 - Rodriquez #2**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 30.4 | mg/L | 0.500 |

**Sample: 9151 - RV Kerbo**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 127 | mg/L | 0.500 |

**Sample: 9152 - K Muney**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 121 | mg/L | 0.500 |

**Sample: 9153 - G Compos**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 96.0 | mg/L | 0.500 |

**Sample: 9154 - J Pfeiffer**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 33.0 | mg/L | 0.500 |

**Sample: 9155 - V Tipps**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 102 | mg/L | 0.500 |

**Sample: 9156 - L Sandoval**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 87.4 | mg/L | 0.500 |

**Sample: 9157 - L & H Coons**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 65.4 | mg/L | 0.500 |

**Sample: 9158 - Stansberry #1**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 68.6 | mg/L | 0.500 |

**Sample: 9159 - Stansberry #2**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 402 | mg/L | 0.500 |

**Sample: 9160 - J. Garnsey**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 115 | mg/L | 0.500 |

**Sample: 9161 - Neal King**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 110 | mg/L | 0.500 |

**Sample: 9162 - B Stoneman**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 64.3 | mg/L | 0.500 |

**Sample: 9163 - B Glover**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 224 | mg/L | 0.500 |

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

# TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3060619

Company Name: Intera Inc
Phone #: (505) 246-1600
Address: (Street, City, Zip) 6501 Americas Parkway NE Suite 820 Albuquerque NM 87110
Fax #: (505) 246-2600
Contact Person: Jerome Marez
Invoice to: (If different from above) Bill Olson - New Mexico OCD
~~Project #:~~ Document # 03-199-000605
Project Name: Windmill Oil
Project Location: Windmill Oil
Sampler Signature: Kurt Cle

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9139 | Packer Sales | 4<br>1 | 40ml<br>250ml | X | | | | X | | | | X | X | 6/2/03 | 1530 |
| 40 | Emma Owings | ↓ | ↓ | X | | | | X | | | | X | X | 6/2/03 | 1630 |
| 41 | Mavis Williams | | | X | | | | X | | | | X | X | 6/3/03 | 1037 |
| 42 | Kelly Williams | | | X | | | | X | | | | X | X | 6/3/03 | 1047 |
| 43 | TW Weddle | | | X | | | | X | | | | X | X | 6/3/03 | 1105 |
| 44 | Virgil Whitman | | | X | | | | X | | | | X | X | 6/3/03 | 1300 |
| 45 | SPUD Cox | | | X | | | | X | | | | X | X | 6/3/03 | 1333 |
| 46 | James Wray | | | X | | | | X | | | | X | X | 6/3/03 | 1535 |
| 47 | J Cleveland | | | X | | | | X | | | | X | X | 6/3/03 | 1618 |
| 48 | Dwain Dobbs | | | X | | | | X | | | | X | X | 6/4/03 | 0900 |
| 49 | Rodriguez #1 | ↓ | ↓ | X | | | | X | | | | X | X | 6/4/03 | 1000 |

### ANALYSIS REQUEST

(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 Ext DRO | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | | | | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |

Relinquished by: Kurt Cle Date: 6/5/03 Time: 1645
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:
D. Lewis 6-4-03 1000

LAB USE ONLY
Intact (Y) N
Headspace Y (N)
Temp 2°C
Log-in Review MS

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # UPS 5139 498 859-4

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

ORIGINAL COPY

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Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 306061.9

Company Name: Intera Inc. Phone #: 505-246-1600

Address: (Street, City, Zip) 6501 Americas Parkway NE Suite 820 Albuquerque NM 87110 Fax #: 505-246-2600

Contact Person: Jerome Marez

Invoice to: (If different from above) Bill Olson - New Mexico OCD

~~Project #~~ Document # 03-199-000605 Project Name: Windmill Oil

Project Location: Windmill Oil Sampler Signature: Kenneth Olson

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9150 | Rodriguez #2 | 4<br>1 | 40ml<br>250ml | X | | | | X | | | | X | X | 6/4/03 | 1020 |
| 51 | RV Kerbo | | | X | | | | X | | | | X | X | 6/4/03 | 1200 |
| 52 | K Muney | | | X | | | | X | | | | X | X | 6/4/03 | 1337 |
| 53 | G. Compos | | | X | | | | X | | | | X | X | 6/4/03 | 1430 |
| 54 | J. Pfeiffer | | | X | | | | X | | | | X | X | 6/5/03 | 0950 |
| 55 | V. Tipps | | | X | | | | X | | | | X | X | 6/5/03 | 1012 |
| 56 | L. Sandoval | | | X | | | | X | | | | X | X | 6/5/03 | 1055 |
| 57 | L&H Coons | | | X | | | | X | | | | X | X | 6/5/03 | 1125 |
| 58 | Stansberry #1 | | | X | | | | X | | | | X | X | 6/5/03 | 1205 |
| 59 | Stansberry #2 | | | X | | | | X | | | | X | X | 6/5/03 | 1227 |
| 60 | J. Garnsey | ↓ | ↓ | X | | | | X | | | | X | X | 6/5/03 | 1305 |

### ANALYSIS REQUEST

(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 Ext to C40 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | | | | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |
| | X | X | | | | | | | | | | | | | X | | | | | | |

Relinquished by: Kenneth Olson Date: 6/5/03 Time: 1645

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Jodi Olmos Date: 6-6-03 Time: 10:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 2c °
Log-in Review MW

REMARKS:

☐ Check If Special Reporting Limits Are Needed

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

Carrier # ups 1Z39 498 859.4

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6701 Aberdeen Avenue, Ste. 9
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Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

# TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30606019

Company Name: Intera Inc
Phone #: (505) 246-1600
Address: (Street, City, Zip) 6501 Americas Parkway NE Suite 820 Albuquerque NM 87110
Fax #: (505) 246-2600
Contact Person: Jerome Marcz
Invoice to: (If different from above) Bill Olson - New Mexico OCD
Project #: DOCUMENT # 03-199-000605
Project Name: Windmill Oil
Project Location: Windmill Oil
Sampler Signature:

### ANALYSIS REQUEST
(Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9161 | Neal King | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 6/5/03 | 1410 |
| 62 | B. Stoneman | ↓ | ↓ | X | | | | X | | | | X | X | 6/5/03 | 1447 |
| 63 | B. Glover | ↓ | ↓ | X | | | | X | | | | X | X | 6/5/03 | 1511 |

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 DRO & GRO | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/5/03 | 1645 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received at Laboratory by: | Date: | Time: |
| | | | | 6/6/03 | 1000 |

**LAB USE ONLY**
Intact (Y) N
Headspace Y / (N)
Temp 2 °C
Log-in Review MM

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # UPS 1Z39 498 859 4

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# TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com


**Bill To:** **OCD-Santa Fe**
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

**Invoice No.** **1318**

**Invoice Date:** 2003-06-12

**Payment Due:** 2003-07-12

| | |
|---|---|
| **Work Order:** | 3060203 |
| **Project Location:** | Windmill Oil |
| **Project Name:** | Windmill Oil |
| **Project Number:** | Document #03-199-000605 |

DFA Vendor Number: 752439743
C/PA/PO# 205210702497

| Item | Quantity | Matrix | Description | Price | Sub Total |
|---|---|---|---|---|---|
| BTEX/TPH GRO | 23 | water | 8699 - 8721 | $60.00 | $1,380.00 |
| Chloride (IC) | 23 | water | 8699 - 8721 | $15.00 | $345.00 |
| TPH DRO | 23 | water | 8699 - 8721 | $40.00 | $920.00 |

*Payment Terms: Net-30*

**Total** $2,645.00

Dr. Blair Leftwich, Director

# Summary Report

Jerome Marez
Intera Inc.
6501 Americas Parkway NE 820
Suite 820
Albuquerque, NM 87110

Report Date: June 12, 2003

Work Order: 3060203

Project Location: Windmill Oil
Project Name: Windmill Oil
Project Number: Document #03-199-000605

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 8699 | Conoco Phillips | water | 2003-05-28 | 07:31 | 2003-05-31 |
| 8700 | Ronnie Lee | water | 2003-05-28 | 08:18 | 2003-05-31 |
| 8701 | Jerry Berry | water | 2003-05-28 | 09:30 | 2003-05-31 |
| 8702 | Frontera Family | water | 2003-05-28 | 10:20 | 2003-05-31 |
| 8703 | Texland | water | 2003-05-28 | 11:43 | 2003-05-31 |
| 8704 | Everett Fowler | water | 2003-05-28 | 14:20 | 2003-05-31 |
| 8705 | Occidental Perm | water | 2003-05-28 | 15:05 | 2003-05-31 |
| 8706 | B & D Services | water | 2003-05-28 | 15:40 | 2003-05-31 |
| 8707 | Max White | water | 2003-05-28 | 16:10 | 2003-05-31 |
| 8708 | Dela Cruz | water | 2003-05-28 | 16:45 | 2003-05-31 |
| 8709 | Larry Cochran | water | 2003-05-28 | 17:33 | 2003-05-31 |
| 8710 | Westbrook Oil | water | 2003-05-29 | 09:18 | 2003-05-31 |
| 8711 | JT Jackson | water | 2003-05-29 | 10:18 | 2003-05-31 |
| 8712 | Gary Jones | water | 2003-05-29 | 11:06 | 2003-05-31 |
| 8713 | Dennis Wilks | water | 2003-05-29 | 11:45 | 2003-05-31 |
| 8714 | John Ivory | water | 2003-05-29 | 12:45 | 2003-05-31 |
| 8715 | D Dixon | water | 2003-05-29 | 13:25 | 2003-05-31 |
| 8716 | Cindy Selman | water | 2003-05-29 | 14:30 | 2003-05-31 |
| 8717 | Joye Dobbs | water | 2003-05-29 | 15:40 | 2003-05-31 |
| 8718 | Raymond Stone | water | 2003-05-29 | 16:20 | 2003-05-31 |
| 8719 | CD Slaughter | water | 2003-05-29 | 16:40 | 2003-05-31 |
| 8720 | Taylor | water | 2003-05-29 | 17:15 | 2003-05-31 |
| 8721 | Jim Collins | water | 2003-05-29 | 09:30 | 2003-05-31 |

| | BTEX | | | | TPH DRO | TPH GRO |
|---|---|---|---|---|---|---|
| Sample - Field Code | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (isomers) (mg/L) | DRO (mg/L) | GRO (mg/L) |
| 8699 - Conoco Phillips | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8700 - Ronnie Lee | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8701 - Jerry Berry | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8702 - Frontera Family | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8703 - Texland | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8704 - Everett Fowler | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8705 - Occidental Perm | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8706 - B & D Services | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8707 - Max White | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8708 - Dela Cruz | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8709 - Larry Cochran | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |

*continued ...*

*... continued*

| Sample - Field Code | BTEX Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylene (isomers) (mg/L) | TPH DRO DRO (mg/L) | TPH GRO GRO (mg/L) |
|---|---|---|---|---|---|---|
| 8710 - Westbrook Oil | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8711 - JT Jackson | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8712 - Gary Jones | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8713 - Dennis Wilks | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8714 - John Ivory | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8715 - D Dixon | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8716 - Cindy Selman | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8717 - Joye Dobbs | <0.00100 | 0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8718 - Raymond Stone | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8719 - CD Slaughter | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8720 - Taylor | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |
| 8721 - Jim Collins | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <5.00 | <0.100 |

**Sample: 8699 - Conoco Phillips**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 96.0 | mg/L | 0.500 |

**Sample: 8700 - Ronnie Lee**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 115 | mg/L | 0.500 |

**Sample: 8701 - Jerry Berry**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 478 | mg/L | 0.500 |

**Sample: 8702 - Frontera Family**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 105 | mg/L | 0.500 |

**Sample: 8703 - Texland**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 112 | mg/L | 0.500 |

**Sample: 8704 - Everett Fowler**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 119 | mg/L | 0.500 |

**Sample: 8705 - Occidental Perm**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 111 | mg/L | 0.500 |

**Sample: 8706 - B & D Services**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 84.3 | mg/L | 0.500 |

**Sample: 8707 - Max White**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 110 | mg/L | 0.500 |

**Sample: 8708 - Dela Cruz**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 84.2 | mg/L | 0.500 |

**Sample: 8709 - Larry Cochran**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 265 | mg/L | 0.500 |

**Sample: 8710 - Westbrook Oil**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 102 | mg/L | 0.500 |

**Sample: 8711 - JT Jackson**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 378 | mg/L | 0.500 |

**Sample: 8712 - Gary Jones**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 90.6 | mg/L | 0.500 |

**Sample: 8713 - Dennis Wilks**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 130 | mg/L | 0.500 |

**Sample: 8714 - John Ivory**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 147 | mg/L | 0.500 |

**Sample: 8715 - D Dixon**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 124 | mg/L | 0.500 |

**Sample: 8716 - Cindy Selman**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 59.7 | mg/L | 0.500 |

**Sample: 8717 - Joye Dobbs**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 61.3 | mg/L | 0.500 |

**Sample: 8718 - Raymond Stone**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 226 | mg/L | 0.500 |

**Sample: 8719 - CD Slaughter**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 32.6 | mg/L | 0.500 |

**Sample: 8720 - Taylor**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 248 | mg/L | 0.500 |

**Sample: 8721 - Jim Collins**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | 60.7 | mg/L | 0.500 |

8699-8721



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El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30602 03

Company Name: Intera Inc. Phone #: (505) 246-1600

Address: (Street, City, Zip) 3501 Americas Parkway NE Suite 820 Albuquerque NM 87110 Fax #: (505) 246-2600

Contact Person: Jerome Maret

Invoice to: (If different from above) Bill Olson - New Mexico OCD

Project #: Document # 03-199-000605 Project Name: Windmill 01

Project Location: Windmill 01 Sampler Signature:

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8699 | Conoco Phillips | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 0731 |
| 8700 | Ronnie Lee | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 0818 |
| 01 | Jerry Berry | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 0930 |
| 02 | Frontera Family | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1020 |
| 03 | Texland | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1143 |
| 04 | Everett Fowler | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1420 |
| 05 | Occidental Perm. | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1505 |
| 06 | B&D Services | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1540 |
| 07 | Max White | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1610 |
| 08 | Dela Cruz | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1645 |
| 09 | Larry Cochran | 4 1 | 40ml 250ml | X | | | | X | | | | X | X | 5/28/03 | 1733 |

### ANALYSIS REQUEST

(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | |

DR04620

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| | 5/30/03 | 1203 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received at Laboratory by: | Date: | Time: |
| | | | | 5/31/03 | 9135 |

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 4 °

Log-in Review

REMARKS:

PAF 6/6/03

☐ Check If Special Reporting Limits Are Needed

Carrier # UPS

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1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 306D203

Company Name: Intera Inc
Phone #: (505) 246-1600
Address: (Street, City, Zip) 6501 Americas Parkway NE Suite 820 Albuquerque NM 87110
Fax #: (505) 246-2600
Contact Person: Jerome Marez
Invoice to: (If different from above) Bill Olson - New Mexico OCD
Project #: Document # 03-199-000605
Project Name: Windmill Oil
Project Location: Windmill Oil
Sampler Signature: Kmul Ch

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8710 | Westbrook Oil | 4 | 40ml 250ml | X | | | | X | | | | X | X | 5/29/03 | 0918 |
| 11 | JT Jackson | | | X | | | | X | | | | X | X | | 1018 |
| 12 | Gary Jones | | | X | | | | X | | | | X | X | | 1106 |
| 13 | Dennis Wilks | | | X | | | | X | | | | X | X | | 1145 |
| 14 | John Ivory | | | X | | | | X | | | | X | X | | 1245 |
| 15 | D Dixon | | | X | | | | X | | | | X | X | | 1325 |
| 16 | Cindy Selman | | | X | | | | X | | | | X | X | | 1430 |
| 17 | Joye Dobbs | | | X | | | | X | | | | X | X | | 1540 |
| 18 | Raymond Stone | | | X | | | | X | | | | X | X | | 1620 |
| 19 | CD Slaughter | | | X | | | | X | | | | X | X | | 1640 |
| 20 | Taylor | | | X | | | | X | | | | X | X | | 1715 |

### ANALYSIS REQUEST
(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |
| | X | X | | | | | | | | | | | | | X | | |

Relinquished by: Kmul Ch Date: 5/30/03 Time: 1203
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Cami Cm Date: 5/31/03 Time: 9:35

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °
Log-in Review

REMARKS:

☐ Check If Special Reporting Limits Are Needed

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1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30002033

Company Name: Intera Inc
Phone #: (505) 246-1600
Address: (Street, City, Zip) 6501 Americas Parkway NE Suite B20 Albuquerque NM 87110
Fax #: (505) 246-2600
Contact Person: Jerome Marez
Invoice to: (If different from above) Bill Olson - New Mexico OCD
Project #: Document # 03-199-000605
Project Name: Windmill Oil
Project Location: Windmill Oil
Sampler Signature: Kim Olle

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | $HNO_3$ | $H_2SO_4$ | NaOH | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8721 | Jim Collins | 4<br>1 | 40ml<br>250ml | X | | | | X | | | | X | X | 5/30/03 | 0930 |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 DRO + GRO | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Chloride 300.0 | | | | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | X | | 4 D | | | | | | | | | | | X | | | | | | |

| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
|---|---|---|---|---|---|
| Kim Olle | 5/30/03 | 1203 | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| | | | | | |
| Relinquished by: | Date: | Time: | Received at Laboratory by: | Date: | Time: |
| | | | Laura Cruz | 5/31/03 | 935 |

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4
Log-in-Review

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # UPS

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**
Governor
**Joanna Prukop**
Cabinet Secretary

**Lori Wrotenbery**
Director
**Oil Conservation Division**

## FAX

TO: Bill Olson

FROM: Paul Sheeley
Energy Minerals and Natural Resources Department,
Oil Conservation Division

RE: 1903 Geary Lane (Lupe Rivas)

DATE: 8-7-03

per my voice mail to you @ 09:10

3 Pages (Including Transmittal)

Report Date: July 30, 2003 Work Order: 3071811 Page Number: 2 of 2
030717 1903 Gary Lane Lupe Rivas 1903 Gary Lane,Hobbs

# Summary Report

Paul Shecley
OCD-Hobbs
1625 N. French Dr.
Hobbs, NM 88240

Report Date: July 30, 2003
Work Order: 3071811

Project Location: Lupe Rivas 1903 Gary Lane,Hobbs
Project Name: 1903 Gary Lane
Project Number: 030717

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 13328 | 0307171747 | water | 2003-07-17 | 07:41 | 2003-07-18 |

| Sample - Field Code | Benzene (mg/L) | Toluene (mg/L) | BTEX Ethylbenzene (mg/L) | Xylene (isomers) (mg/L) | TPH DRO DRO (mg/L) | TPH GRO GRO (mg/L) |
|---|---|---|---|---|---|---|
| 13328 - 0307171747 | <0.00500 | <0.00500 | <0.00500 | <0.00500 | <5.00 | 0.512 |

**Sample: 13328 - 0307171747**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1.00 |
| Bicarbonate Alkalinity | | 222 | mg/L as CaCo3 | 1.00 |
| Total Alkalinity | | 222 | mg/L as CaCo3 | 1.00 |
| Dissolved Calcium | | 133 | mg/L | 0.500 |
| Dissolved Potassium | | 3.35 | mg/L | 0.500 |
| Dissolved Magnesium | | 21.7 | mg/L | 0.500 |
| Dissolved Sodium | | 99.1 | mg/L | 0.500 |
| Specific Conductance | | 1220 | µMHOS/cm | 0.00 |
| Chloride | | 108 | mg/L | 0.500 |
| Fluoride | | 1.08 | mg/L | 0.200 |
| Sulfate | | 214 | mg/L | 0.500 |
| Nitrate-N | | 5.09 | mg/L | 0.200 |
| pH | 1 | 7.50 | s.u. | 0.00 |
| Total Dissolved Solids | | 902.0 | mg/L | 10.00 |

[1]received out of holding time

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TRACEANALYSIS, INC.
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# FAX COVER SHEET

**TO:** Paul Sheeley

**COMPANY:** OCD-Hobbs

**DATE:** July 31, 2003

**FAX NO:** 1-505-393-0720

**NO OF PAGES:** 2 (including cover)

**FROM:** TraceAnalysis, Inc.



**PLEASE CALL IMMEDIATELY IF THERE ARE ANY PROBLEMS IN RECEIVING THIS TRANSMISSION.**