

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

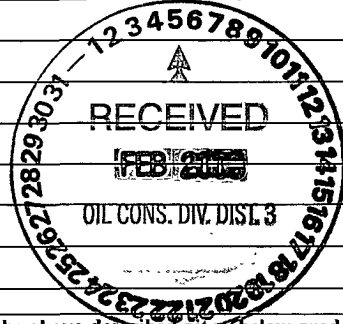
Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

| | | |
|--|---|----------------|
| Operator: <u>Dugan Production Corp</u> Telephone: <u>(505)325-1821</u> e-mail address: _____ | | |
| Address: <u>P.O. Box 420, Farmington, New Mexico 87401</u> | | |
| Facility or well name: <u>The Bear No. 2</u> API #: <u>30-045-28552</u> U/L or Qtr/Qtr <u>E</u> Sec <u>34</u> T <u>23N</u> R <u>8W</u> | | |
| County: <u>San Juan</u> Latitude <u>36.18520</u> Longitude <u>107.67555</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/> | | |
| Pit Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume <u>128±</u> bbl | Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet | (20 points) |
| | 50 feet or more, but less than 100 feet | (10 points) 0 |
| | 100 feet or more | (0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes | (20 points) |
| | No | (0 points) 0 |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet | (20 points) |
| | 200 feet or more, but less than 1000 feet | (10 points) 10 |
| | 1000 feet or more | (0 points) |
| Ranking Score (Total Points) | | 10 |

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

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| Additional Comments: |
| 15' x 12' x 4'± deep unlined production pit, center located at approximately 84 Feet North 37° East of wellhead. |
| Use backhoe to collect 5-point composite sample at 7 foot depth for lab testing. |
| Excavate to 18' x 15' x 7' and landfarm on-site. |



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: January 14, 2008

Printed Name/Title Jeffrey C Blagg, agent

Signature Jeffrey C. Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Deputy Oil & Gas Inspector,
District #3


Printed Name/Title

Signature [Signature]

Date:

FEB 1 2 2008

| | | |
|--|---|--|
| CLIENT: <u>DUGAN</u> | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 | LOCATION NO. _____ COCR NO: <u>3042</u> |
| FIELD REPORT: PIT CLOSURE VERIFICATION | | PAGE No: <u>1</u> of <u>1</u> |
| LOCATION: NAME: <u>THE BEAR</u> WELL #: <u>2</u> TYPE: <u>PROD.</u> QUAD/UNIT: <u>E SEC: 34 TWP: 23N RNG: 8W PM: NM CNTY: SJ ST: NM</u> QTR/FOOTAGE: <u>1980FWL x 660FWL</u> CONTRACTOR: <u>SIERRA</u> | | DATE STARTED <u>10-8-07</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST: <u>JCB</u> |
| EXCAVATION APPROX. <u>18</u> FT. x <u>15</u> FT. x <u>7</u> FT. DEEP. CUBIC YARDAGE: <u>50±</u> | | |
| DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LF</u> | | |
| LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM-50999</u> FORMATION: <u>GAL</u> | | |
| FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>84</u> FT. <u>N37E</u> FROM WELLHEAD. | | |
| DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>200</u> NMOCD RANKING SCORE: <u>10</u> NMOCD TPH CLOSURE STD: <u>1000</u> PPM | | |
| SOIL AND EXCAVATION DESCRIPTION: | | OVM CALIB. READ. = <u>53.9</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: <u>0915</u> am/pm DATE <u>10/8</u> |
| SOIL TYPE <u>SAND / SILTY SAND</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR _____ COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / FIRM / DENSE / VERY DENSE PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD ← From Recent RAINS MOISTURE <u>DRY</u> / SLIGHTLY MOIST / <u>MOIST / WET</u> / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>oil staining on Pit Surface ~ TO 6'±</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>Minor</u> SAMPLE TYPE GRAB / <u>COMPOSITE</u> # OF PTS. <u>5</u> ADDITIONAL COMMENTS: <u>12' x 15' x 4' Deep Cone Shaped Unlined Pit. USE BACKHOE TO SAMPLE</u> | | |

| SCALE  0 FT | FIELD 418.1 CALCULATIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PIT PERIMETER | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> | SAMP. TIME | SAMP. ID | LAB NO. | WEIGHT (g) | mL FREON | DILUTION | READING | CALC. (ppm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PIT PROFILE | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">OVM READING</th> </tr> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @</td><td> </td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> <tr><td>5-pt at 7'</td><td>29</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>5-pt</td> <td>TPH/ATE x</td> <td>1425</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | OVM READING | | SAMPLE ID | FIELD HEADSPACE (ppm) | 1 @ | | 2 @ | | 3 @ | | 4 @ | | 5 @ | | 5-pt at 7' | 29 | | | | | | | | | | | | | | | | | | | LAB SAMPLES | | | SAMPLE ID | ANALYSIS | TIME | 5-pt | TPH/ATE x | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OVM READING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LAB SAMPLES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE ID | ANALYSIS | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-pt | TPH/ATE x | 1425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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PD = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
 T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

| | | |
|---------------|----------------|------------------------|
| TRAVEL NOTES: | CALLOUT: _____ | ONSITE: <u>10/8/07</u> |
|---------------|----------------|------------------------|

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

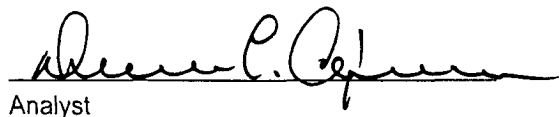
| | | | |
|----------------------|---------------|---------------------|-----------|
| Client: | Blagg / Dugan | Project #: | 94034-010 |
| Sample ID: | The Bear #2 | Date Reported: | 10-10-07 |
| Laboratory Number: | 43304 | Date Sampled: | 10-08-07 |
| Chain of Custody No: | 3042 | Date Received: | 10-09-07 |
| Sample Matrix: | Soil | Date Extracted: | 10-09-07 |
| Preservative: | Cool | Date Analyzed: | 10-10-07 |
| Condition: | Cool & Intact | Analysis Requested: | 8015 TPH |

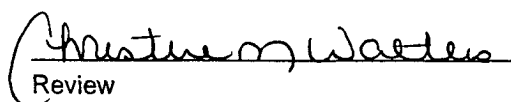
| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10) | ND | 0.2 |
| Diesel Range (C10 - C28) | 9.6 | 0.1 |
| Total Petroleum Hydrocarbons | 9.6 | 0.2 |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Unlined Pit Closures**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|---------------|---------------------|-----------|
| Client: | Blagg / Dugan | Project #: | 94034-010 |
| Sample ID: | The Bear #2 | Date Reported: | 10-10-07 |
| Laboratory Number: | 43304 | Date Sampled: | 10-08-07 |
| Chain of Custody: | 3042 | Date Received: | 10-09-07 |
| Sample Matrix: | Soil | Date Analyzed: | 10-10-07 |
| Preservative: | Cool | Date Extracted: | 10-09-07 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | ND | 0.9 |
| Toluene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| p,m-Xylene | ND | 1.2 |
| o-Xylene | ND | 0.9 |
| Total BTEX | ND | |

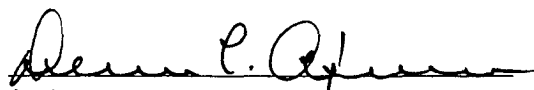
ND - Parameter not detected at the stated detection limit.

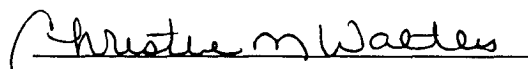
| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 97.0 % |
| | 1,4-difluorobenzene | 97.0 % |
| | Bromochlorobenzene | 97.0 % |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Unlined Pit Closures


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

| | | | |
|--------------------|--------------------|---------------------|----------|
| Client: | QA/QC | Project #: | N/A |
| Sample ID: | 10-10-07 QA/QC | Date Reported: | 10-10-07 |
| Laboratory Number: | 43289 | Date Sampled: | N/A |
| Sample Matrix: | Methylene Chloride | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 10-10-07 |
| Condition: | N/A | Analysis Requested: | TPH |

| | I-Cal Date | I-Cal RF | C-Cal RF | % Difference | Accept Range |
|-------------------------|------------|-------------|-------------|--------------|--------------|
| Gasoline Range C5 - C10 | 05-07-07 | 1.0053E+003 | 1.0057E+003 | 0.04% | 0 - 15% |
| Diesel Range C10 - C28 | 05-07-07 | 1.0270E+003 | 1.0274E+003 | 0.04% | 0 - 15% |

| Blank Conc. (mg/L - mg/Kg) | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10 | ND | 0.2 |
| Diesel Range C10 - C28 | ND | 0.1 |
| Total Petroleum Hydrocarbons | ND | 0.2 |

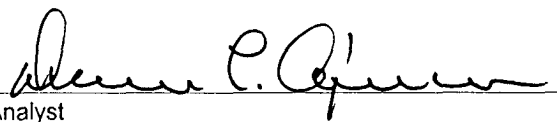
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept Range |
|-------------------------|--------|-----------|--------------|--------------|
| Gasoline Range C5 - C10 | 0.8 | 0.8 | 0.0% | 0 - 30% |
| Diesel Range C10 - C28 | 80.1 | 79.6 | 0.6% | 0 - 30% |

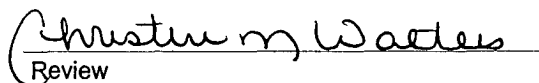
| Spike Conc. (mg/Kg) | Sample | Spike Added | Spike Result | % Recovery | Accept Range |
|-------------------------|--------|-------------|--------------|------------|--------------|
| Gasoline Range C5 - C10 | 0.8 | 250 | 250 | 99.8% | 75 - 125% |
| Diesel Range C10 - C28 | 80.1 | 250 | 330 | 99.8% | 75 - 125% |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 43289 - 43291, 43302 - 43308


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|------------------|----------------|----------|
| Client: | N/A | Project #: | N/A |
| Sample ID: | 10-10-BTEX QA/QC | Date Reported: | 10-10-07 |
| Laboratory Number: | 43289 | Date Sampled: | N/A |
| Sample Matrix: | Soil | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 10-10-07 |
| Condition: | N/A | Analysis: | BTEX |

| Calibration and Detection Limits (ug/L) | I-Cal RF | O-Cal RF | %Diff | Blank Conc | Detect Limit |
|--|-------------|----------------------|-------|---------------|-----------------|
| | | Accept Range 0 - 15% | | | |
| Benzene | 1.1750E+008 | 1.1774E+008 | 0.2% | ND | 0.1 |
| Toluene | 1.0089E+008 | 1.0109E+008 | 0.2% | ND | 0.1 |
| Ethylbenzene | 8.0712E+007 | 8.0874E+007 | 0.2% | ND | 0.1 |
| p,m-Xylene | 1.6040E+008 | 1.6072E+008 | 0.2% | ND | 0.1 |
| o-Xylene | 7.7993E+007 | 7.8150E+007 | 0.2% | ND | 0.1 |

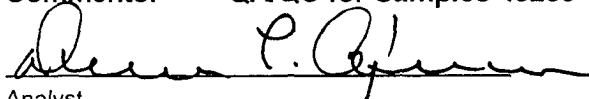
| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff | Accept Range | Detect Limit |
|-------------------------|--------|-----------|-------|--------------|--------------|
| Benzene | 1.6 | 1.6 | 0.0% | 0 - 30% | 0.9 |
| Toluene | ND | ND | 0.0% | 0 - 30% | 1.0 |
| Ethylbenzene | 3.1 | 3.1 | 0.0% | 0 - 30% | 1.0 |
| p,m-Xylene | 68.4 | 68.3 | 0.1% | 0 - 30% | 1.2 |
| o-Xylene | 17.8 | 17.7 | 0.6% | 0 - 30% | 0.9 |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene | 1.6 | 50.0 | 51.5 | 99.8% | 39 - 150 |
| Toluene | ND | 50.0 | 49.9 | 99.8% | 46 - 148 |
| Ethylbenzene | 3.1 | 50.0 | 53.0 | 99.8% | 32 - 160 |
| p,m-Xylene | 68.4 | 100 | 168 | 99.8% | 46 - 148 |
| o-Xylene | 17.8 | 50.0 | 67.7 | 99.9% | 46 - 148 |

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 43289 - 43291, 43302 - 43306


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