

ANALYTICAL REPORT

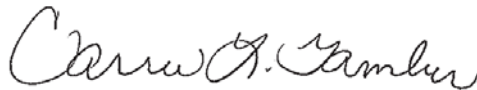
Job Number: 180-59749-1

Job Description: Harley Davidson

For:

Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Allan Miller



Approved for release.
Carrie L. Gamber
Senior Project Manager
10/24/2016 9:00 AM

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10/24/2016

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TestAmerica Laboratories, Inc.

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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-59749-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |
| ^c | CCV Recovery is outside acceptance limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |

GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Client Sample Results

Client: Groundwater Sciences Corporation
 Project/Site: Harley Davidson

TestAmerica Job ID: 180-59749-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-57-0/1-0

Date Collected: 10/12/16 09:15

Date Received: 10/13/16 16:58

Lab Sample ID: 180-59749-2

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloromethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/15/16 23:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/15/16 23:21 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/15/16 23:21 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1-Dichloroethene | 5.7 | | 1.0 | 0.29 | ug/L | | | 10/15/16 23:21 | 1 |
| Acetone | 5.0 | U | 5.0 | 2.5 | ug/L | | | 10/15/16 23:21 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/15/16 23:21 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/15/16 23:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/15/16 23:21 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.24 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1-Dichloroethane | 0.28 | J | 1.0 | 0.24 | ug/L | | | 10/15/16 23:21 | 1 |
| cis-1,2-Dichloroethene | 4.6 | | 1.0 | 0.29 | ug/L | | | 10/15/16 23:21 | 1 |
| Bromochloromethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/15/16 23:21 | 1 |
| 2-Butanone (MEK) | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/15/16 23:21 | 1 |
| Chloroform | 1.1 | | 1.0 | 0.27 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.22 | ug/L | | | 10/15/16 23:21 | 1 |
| Carbon tetrachloride | 1.0 | U ^c | 1.0 | 0.24 | ug/L | | | 10/15/16 23:21 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.25 | ug/L | | | 10/15/16 23:21 | 1 |
| Trichloroethene | 14 | | 1.0 | 0.26 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/15/16 23:21 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/15/16 23:21 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U ^c | 1.0 | 0.21 | ug/L | | | 10/15/16 23:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 0.59 | ug/L | | | 10/15/16 23:21 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.28 | ug/L | | | 10/15/16 23:21 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U ^c | 1.0 | 0.24 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/15/16 23:21 | 1 |
| Tetrachloroethene | 1.7 | | 1.0 | 0.27 | ug/L | | | 10/15/16 23:21 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 0.74 | ug/L | | | 10/15/16 23:21 | 1 |
| Dibromochloromethane | 1.0 | U ^c | 1.0 | 0.40 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,2-Dibromoethane (EDB) | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/15/16 23:21 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.20 | ug/L | | | 10/15/16 23:21 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/15/16 23:21 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.48 | ug/L | | | 10/15/16 23:21 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/15/16 23:21 | 1 |
| Bromoform | 1.0 | U ^c | 1.0 | 0.29 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/15/16 23:21 | 1 |
| Acrylonitrile | 20 | U ^c | 20 | 2.8 | ug/L | | | 10/15/16 23:21 | 1 |
| 1,4-Dioxane | 12 | J | 200 | 7.5 | ug/L | | | 10/15/16 23:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 123 | | 72 - 134 | | 10/15/16 23:21 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 10/15/16 23:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | | 72 - 120 | | 10/15/16 23:21 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 77 - 127 | | 10/15/16 23:21 | 1 |

Chain of Custody Record

TestAmerica Laboratories, Inc.

| | | | |
|--|--|--|-----------------------------------|
| Project Manager: Christopher D. O'neil Tel/Fax: 717-901-8176 / (717) 657-1611 | Site Contact: Jennifer [Signature] Lab Contact: Carrie Gamber | Date Submitted: 10/12/16 Carrier: FEDEX | COC No: TAP2016/0401 of 1 COCs |
| Analysis Turnaround Time Calendar (C) or Work Days (W) <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 5 days <input type="checkbox"/> 1 day | | Job No: 10012.30 | Container No: 1 |
| <input type="checkbox"/> VOCs (8260C) <input type="checkbox"/> Select List Total Metals by ICP MS (SW846 6020/SW846 7470A) <input type="checkbox"/> Select List Dissolved Metals by ICP MS (SW846 6020/SW846 7470A) <input type="checkbox"/> 1,4-Dioxane (SW846 8270D LL) | | Sample Specific Notes: | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. |
|-----------------------|-------------|-------------|-------------|--------|------------|
| HD-GCG-011-2 | 10/12/16 | 1700 | triplicate | W | 2 |
| HD-MW-57-011-0 | 10/12/16 | 0915 | GW | W | 3 |
| HD-MW-129-011-0 | 10/12/16 | 1020 | GW | W | 3 |
| HD-MW-127-011-0 | 10/12/16 | 0955 | GW | W | 5 |
| HD-MW-87-011-0 | 10/12/16 | 1150 | GW | W | 5 |
| HD-MW-88-011-0 | 10/12/16 | 1352 | GW | W | 3 |
| HD-MW-12-011-0 | 10/12/16 | 1145 | GW | W | 3 |



| | | | | | |
|---|----------------------|--------------------------|-----------------|---|--------|
| Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Unpreserved 7= Zinc Acetate & NaOH | Number of Containers | 3 | 1 | 1 | 2 |
| Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | Field Filter | N | N | Y | N |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | Return To Client | <input type="checkbox"/> | Disposal By Lab | A | Months |

| | | |
|--|--------------------------|--------------------------|
| Special Instructions/QC Requirements & Comments: CLP Like Deliverables | Received by: [Signature] | Date/Time: 10/12/16 1530 |
| Relinquished by: [Signature] | Company: GSC | Date/Time: |
| Relinquished by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: |