

## ANALYTICAL REPORT

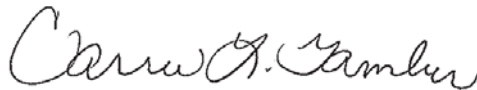
Job Number: 180-60202-1

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  
11/2/2016 1:13 PM

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Carrie L Gamber, Senior Project Manager  
301 Alpha Drive, Pittsburgh, PA, 15238  
(412)963-2428  
carrie.gamber@testamericainc.com  
11/02/2016

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# Definitions/Glossary

Client: Groundwater Sciences Corporation  
Project/Site: Harley Davidson

TestAmerica Job ID: 180-60202-1

## 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.
F1	MS and/or MSD Recovery is outside acceptance limits.
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: 180-60202-1

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

Client Sample ID: HD-CW-20-0/1-0

Date Collected: 10/26/16 06:50

Date Received: 10/27/16 09:00

Lab Sample ID: 180-60202-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	50	U	50	11	ug/L			10/31/16 20:10	50
Vinyl chloride	50	U	50	16	ug/L			10/31/16 20:10	50
Bromomethane	50	U	50	18	ug/L			10/31/16 20:10	50
Chloroethane	50	U	50	13	ug/L			10/31/16 20:10	50
<b>1,1-Dichloroethene</b>	<b>14</b>	<b>J</b>	50	14	ug/L			10/31/16 20:10	50
Acetone	250	U	250	130	ug/L			10/31/16 20:10	50
Carbon disulfide	50	U	50	9.2	ug/L			10/31/16 20:10	50
Methylene Chloride	50	U	50	18	ug/L			10/31/16 20:10	50
trans-1,2-Dichloroethene	50	U	50	14	ug/L			10/31/16 20:10	50
Methyl tert-butyl ether	50	U	50	12	ug/L			10/31/16 20:10	50
<b>1,1-Dichloroethane</b>	<b>13</b>	<b>J</b>	50	12	ug/L			10/31/16 20:10	50
<b>cis-1,2-Dichloroethene</b>	<b>170</b>		50	14	ug/L			10/31/16 20:10	50
Bromochloromethane	50	U	50	19	ug/L			10/31/16 20:10	50
2-Butanone (MEK)	250	U	250	58	ug/L			10/31/16 20:10	50
Chloroform	50	U	50	14	ug/L			10/31/16 20:10	50
<b>1,1,1-Trichloroethane</b>	<b>71</b>		50	11	ug/L			10/31/16 20:10	50
Carbon tetrachloride	50	U	50	12	ug/L			10/31/16 20:10	50
Benzene	50	U	50	13	ug/L			10/31/16 20:10	50
1,2-Dichloroethane	50	U	50	12	ug/L			10/31/16 20:10	50
<b>Trichloroethene</b>	<b>570</b>		50	13	ug/L			10/31/16 20:10	50
1,2-Dichloropropane	50	U	50	11	ug/L			10/31/16 20:10	50
Bromodichloromethane	50	U	50	12	ug/L			10/31/16 20:10	50
cis-1,3-Dichloropropene	50	U	50	10	ug/L			10/31/16 20:10	50
4-Methyl-2-pentanone (MIBK)	250	U	250	30	ug/L			10/31/16 20:10	50
Toluene	50	U	50	14	ug/L			10/31/16 20:10	50
trans-1,3-Dichloropropene	50	U	50	12	ug/L			10/31/16 20:10	50
1,1,2-Trichloroethane	50	U	50	17	ug/L			10/31/16 20:10	50
<b>Tetrachloroethene</b>	<b>1400</b>		50	13	ug/L			10/31/16 20:10	50
2-Hexanone	250	U	250	37	ug/L			10/31/16 20:10	50
Dibromochloromethane	50	U	50	20	ug/L			10/31/16 20:10	50
1,2-Dibromoethane (EDB)	50	U	50	14	ug/L			10/31/16 20:10	50
Chlorobenzene	50	U	50	16	ug/L			10/31/16 20:10	50
1,1,1,2-Tetrachloroethane	50	U	50	9.8	ug/L			10/31/16 20:10	50
Ethylbenzene	50	U	50	14	ug/L			10/31/16 20:10	50
Xylenes, Total	100	U	100	24	ug/L			10/31/16 20:10	50
Styrene	50	U	50	13	ug/L			10/31/16 20:10	50
Bromoform	50	U	50	15	ug/L			10/31/16 20:10	50
1,1,2,2-Tetrachloroethane	50	U	50	17	ug/L			10/31/16 20:10	50
Acrylonitrile	1000	U	1000	140	ug/L			10/31/16 20:10	50
1,4-Dioxane	10000	U ^c	10000	370	ug/L			10/31/16 20:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		72 - 134		10/31/16 20:10	50
Toluene-d8 (Surr)	100		80 - 120		10/31/16 20:10	50
4-Bromofluorobenzene (Surr)	104		72 - 120		10/31/16 20:10	50
Dibromofluoromethane (Surr)	106		77 - 127		10/31/16 20:10	50

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