

ANALYTICAL REPORT

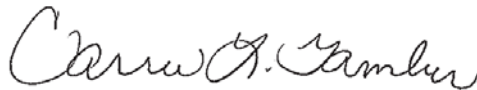
Job Number: 180-59749-1

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-129-0/1-0

Date Collected: 10/12/16 10:20

Date Received: 10/13/16 16:58

Lab Sample ID: 180-59749-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10	2.3	ug/L			10/15/16 23:45	10
Vinyl chloride	10	U	10	3.2	ug/L			10/15/16 23:45	10
Bromomethane	10	U	10	3.6	ug/L			10/15/16 23:45	10
Chloroethane	10	U	10	2.6	ug/L			10/15/16 23:45	10
1,1-Dichloroethene	10	U	10	2.9	ug/L			10/15/16 23:45	10
Acetone	50	U	50	25	ug/L			10/15/16 23:45	10
Carbon disulfide	10	U	10	1.8	ug/L			10/15/16 23:45	10
Methylene Chloride	3.8	J	10	3.6	ug/L			10/15/16 23:45	10
trans-1,2-Dichloroethene	10	U	10	2.9	ug/L			10/15/16 23:45	10
Methyl tert-butyl ether	10	U	10	2.4	ug/L			10/15/16 23:45	10
1,1-Dichloroethane	10	U	10	2.4	ug/L			10/15/16 23:45	10
cis-1,2-Dichloroethene	310		10	2.9	ug/L			10/15/16 23:45	10
Bromochloromethane	10	U	10	3.8	ug/L			10/15/16 23:45	10
2-Butanone (MEK)	50	U	50	12	ug/L			10/15/16 23:45	10
Chloroform	10	U	10	2.7	ug/L			10/15/16 23:45	10
1,1,1-Trichloroethane	10	U	10	2.2	ug/L			10/15/16 23:45	10
Carbon tetrachloride	10	U ^c	10	2.4	ug/L			10/15/16 23:45	10
Benzene	10	U	10	2.6	ug/L			10/15/16 23:45	10
1,2-Dichloroethane	10	U	10	2.5	ug/L			10/15/16 23:45	10
Trichloroethene	3000	E	10	2.6	ug/L			10/15/16 23:45	10
1,2-Dichloropropane	10	U	10	2.3	ug/L			10/15/16 23:45	10
Bromodichloromethane	10	U	10	2.3	ug/L			10/15/16 23:45	10
cis-1,3-Dichloropropene	10	U ^c	10	2.1	ug/L			10/15/16 23:45	10
4-Methyl-2-pentanone (MIBK)	50	U	50	5.9	ug/L			10/15/16 23:45	10
Toluene	10	U	10	2.8	ug/L			10/15/16 23:45	10
trans-1,3-Dichloropropene	10	U ^c	10	2.4	ug/L			10/15/16 23:45	10
1,1,2-Trichloroethane	10	U	10	3.5	ug/L			10/15/16 23:45	10
Tetrachloroethene	470		10	2.7	ug/L			10/15/16 23:45	10
2-Hexanone	50	U	50	7.4	ug/L			10/15/16 23:45	10
Dibromochloromethane	10	U ^c	10	4.0	ug/L			10/15/16 23:45	10
1,2-Dibromoethane (EDB)	10	U	10	2.9	ug/L			10/15/16 23:45	10
Chlorobenzene	10	U	10	3.1	ug/L			10/15/16 23:45	10
1,1,1,2-Tetrachloroethane	10	U	10	2.0	ug/L			10/15/16 23:45	10
Ethylbenzene	10	U	10	2.7	ug/L			10/15/16 23:45	10
Xylenes, Total	20	U	20	4.8	ug/L			10/15/16 23:45	10
Styrene	10	U	10	2.6	ug/L			10/15/16 23:45	10
Bromoform	10	U ^c	10	2.9	ug/L			10/15/16 23:45	10
1,1,2,2-Tetrachloroethane	10	U	10	3.5	ug/L			10/15/16 23:45	10
Acrylonitrile	200	U ^c	200	28	ug/L			10/15/16 23:45	10
1,4-Dioxane	2000	U	2000	75	ug/L			10/15/16 23:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		72 - 134		10/15/16 23:45	10
Toluene-d8 (Surr)	115		80 - 120		10/15/16 23:45	10
4-Bromofluorobenzene (Surr)	100		72 - 120		10/15/16 23:45	10
Dibromofluoromethane (Surr)	103		77 - 127		10/15/16 23:45	10

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 Date	Sample Time	Sample Type	Matrix	# of Cont.
10/12/16	1700	triplicate	W	2
10/12/16	0915	GW	W	3
10/12/16	1020	GW	W	3
10/12/16	0955	GW	W	5
10/12/16	1150	GW	W	5
10/12/16	1352	GW	W	3
10/12/16	1145	GW	W	3



180-59749 Chain of Custody

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 Disposal By Lab 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:

Date/Time: 10/12/16 900
Date/Time:

Company: [Signature]
Company:

Received by: [Signature]
Received by:

Date/Time: 10/12/16 1530
Date/Time:

Company: GSC
Company:

Relinquished by: [Signature]
Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by: