TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

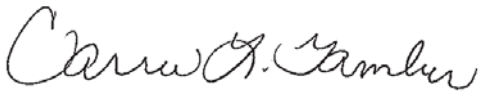
ANALYTICAL REPORT

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

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

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.
¤	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)

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

Client Sample ID: HD-CW-9-0/1-0
Date Collected: 10/26/16 06:45
Date Received: 10/27/16 09:00

Lab Sample ID: 180-60202-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	13	U	13	2.9	ug/L			10/31/16 19:46	12.5
Vinyl chloride	13	U	13	3.9	ug/L			10/31/16 19:46	12.5
Bromomethane	13	U	13	4.5	ug/L			10/31/16 19:46	12.5
Chloroethane	13	U	13	3.2	ug/L			10/31/16 19:46	12.5
1,1-Dichloroethene	**5.9**	**J**	13	3.6	ug/L			10/31/16 19:46	12.5
Acetone	63	U	63	31	ug/L			10/31/16 19:46	12.5
Carbon disulfide	13	U	13	2.3	ug/L			10/31/16 19:46	12.5
Methylene Chloride	13	U	13	4.5	ug/L			10/31/16 19:46	12.5
trans-1,2-Dichloroethene	13	U	13	3.6	ug/L			10/31/16 19:46	12.5
Methyl tert-butyl ether	13	U	13	3.0	ug/L			10/31/16 19:46	12.5
1,1-Dichloroethane	**4.3**	**J**	13	2.9	ug/L			10/31/16 19:46	12.5
cis-1,2-Dichloroethene	**91**		13	3.6	ug/L			10/31/16 19:46	12.5
Bromochloromethane	13	U	13	4.7	ug/L			10/31/16 19:46	12.5
2-Butanone (MEK)	63	U	63	14	ug/L			10/31/16 19:46	12.5
Chloroform	13	U	13	3.4	ug/L			10/31/16 19:46	12.5
1,1,1-Trichloroethane	**23**		13	2.8	ug/L			10/31/16 19:46	12.5
Carbon tetrachloride	13	U	13	3.0	ug/L			10/31/16 19:46	12.5
Benzene	13	U	13	3.2	ug/L			10/31/16 19:46	12.5
1,2-Dichloroethane	13	U	13	3.1	ug/L			10/31/16 19:46	12.5
Trichloroethene	**110**		13	3.2	ug/L			10/31/16 19:46	12.5
1,2-Dichloropropane	13	U	13	2.8	ug/L			10/31/16 19:46	12.5
Bromodichloromethane	13	U	13	2.9	ug/L			10/31/16 19:46	12.5
cis-1,3-Dichloropropene	13	U	13	2.6	ug/L			10/31/16 19:46	12.5
4-Methyl-2-pentanone (MIBK)	63	U	63	7.4	ug/L			10/31/16 19:46	12.5
Toluene	13	U	13	3.5	ug/L			10/31/16 19:46	12.5
trans-1,3-Dichloropropene	13	U	13	3.0	ug/L			10/31/16 19:46	12.5
1,1,2-Trichloroethane	13	U	13	4.4	ug/L			10/31/16 19:46	12.5
Tetrachloroethene	**360**		13	3.4	ug/L			10/31/16 19:46	12.5
2-Hexanone	63	U	63	9.3	ug/L			10/31/16 19:46	12.5
Dibromochloromethane	13	U	13	4.9	ug/L			10/31/16 19:46	12.5
1,2-Dibromoethane (EDB)	13	U	13	3.6	ug/L			10/31/16 19:46	12.5
Chlorobenzene	13	U	13	3.9	ug/L			10/31/16 19:46	12.5
1,1,1,2-Tetrachloroethane	13	U	13	2.4	ug/L			10/31/16 19:46	12.5
Ethylbenzene	13	U	13	3.4	ug/L			10/31/16 19:46	12.5
Xylenes, Total	25	U	25	6.1	ug/L			10/31/16 19:46	12.5
Styrene	13	U	13	3.3	ug/L			10/31/16 19:46	12.5
Bromoform	13	U	13	3.7	ug/L			10/31/16 19:46	12.5
1,1,2,2-Tetrachloroethane	13	U	13	4.3	ug/L			10/31/16 19:46	12.5
Acrylonitrile	250	U	250	34	ug/L			10/31/16 19:46	12.5
1,4-Dioxane	2500	U ^c	2500	93	ug/L			10/31/16 19:46	12.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 134*		*10/31/16 19:46*	*12.5*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/31/16 19:46*	*12.5*
4-Bromofluorobenzene (Surr)	*100*		*72 - 120*		*10/31/16 19:46*	*12.5*
Dibromofluoromethane (Surr)	*103*		*77 - 127*		*10/31/16 19:46*	*12.5*

TestAmerica Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2470

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Christopher D. O'neil	Site Contact: ~~Jennifer S. Reese~~ CDO	DateSubmitted: 10/26/16	COC No: TAP2016102602
Groundwater Sciences Corporation	Tel/Fax: 717-901-8176 / (717) 657-1611	Lab Contact: Carrie Gamber	Carrier: FEDEX	2 of 2 COCs
2601 Market Place St Suite 310	Analysis Turnaround Time			Job No. 10012.30
Harrisburg, PA 17110	Calendar (C) or Work Days (W)			
(717) 901-8180 Phone	TAT if different from Below: Standard			
(717) 657-1611 FAX	■ 2 weeks			Container No. 1
Project Name: 2016 Comprehensive Event	☐ 1 week			SDG No.
Site: Harley-Davidson, York PA	☐ 5 days			
Quote # 18000557	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	VOCs (8260C)	Select List Total Metals by ICP MS (SW846 6020/SW846 7470A)	Select List Dissolved Metals by ICP MS (SW846 6020/SW846 7470A)	1,4-Dioxane (SW846 8270D LL)	Sample Specific Notes:
Outfall #003 GWTS	10/26/16	0720	GW	W	3	X				
HD-CW-6-0/1-0	10/26/16	0745	GW	W	↓	X				
HD-CW-4-0/1-0	10/26/16	0910	GW	W	↓	X				
HD-CW-5-0/1-0	10/26/16	1045	GW	W	↓	X				
HD-QCS-0/1-2	10/26/16	1200	Trip Blank	W	2	X				
Number of Containers						3	1	1	2	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Unpreserved 7=Zinc Acetate & NaOH						2	1	1	1	
Field Filter						N	N	Y	N	

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments: **CLP Like Deliverables**

Relinquished by (Print and Sign):	Company:	Date/Time:	Received by:	Company:	Date/Time:
Emily Wade [signature]	~~GSC~~ Leidos	10/26/16 1300	[signature] VBF	GSC	10/26/16 1300
Relinquished by:	Company:	Date/Time:	Received by: William Watson	Company: TAP	Date/Time: 10-27-16 9:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: