



▶ **FINAL REPORT**

**Work Order(s): 8G13045**

**Project:** McMurtrey, Hartsock & Worth

**Report For:**

Robert Hartsock  
Law Offices of McMurtrey, Hartsock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Reviewed By:**

Project Manager  
Chris Samatmanakit

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

**Received:** 7/13/2018

**TAT:** Normal

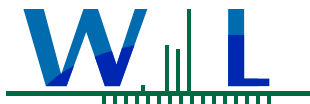
**Reported:** 3/13/2019 12:53

**PO Number:**

**Billing Code:**



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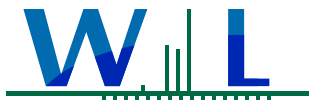
# Certificate of Analysis

FINAL REPORT

**Project:** McMurtrey, Hartsock & Worth  
**Project Manager:** Robert Hartsock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

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Law Offices of McMurtrey, Hartssock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

Dear Robert Hartssock,

Enclosed are the results of analyses for samples received 7/13/18 with the Chain-of-Custody document. The samples were received in good condition, at 6.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Case Narrative

Garlic samples were stored at four degrees Celsius until they were homogenized. Sample conditions were monitored on a regular basis to check for any signs of growth or decay. All carrot samples in this report showed no signs of growth and/or decay directly prior to sample homogenization. Sample homogenization was performed in accordance to SAP provided under GSI Job No. 4874-002 based on crop. Homogenized samples were transferred into a clean glass jar and stored in a refrigerator at four degrees Celsius until samples are prepared or extracted for analysis. Analysis holding times were measured from the date and time of homogenization and treated as solid samples. Reference individual sample result headers for preparation and analytical method numbers used for analysis of samples. Reporting limits were adjusted according to initial sample volumes used and if any further dilutions were required for analysis. All initial volumes are measured according to standardized sample volumes for sample extraction and preparation for garlic.

Homogenized samples were aliquoted for the analyst for method EPA 8260B first to minimize contamination of common solvents in samples. Samples that were prepared by method EPA 8260B were leached according to the method using a measured sample volume of 2.5 grams. Actual measured sample volume used for sample preparation are as noted on individual EPA 8260B result headers. Samples were further diluted at a factor noted in the dilution column as indicated on the results to make an extract that can accommodate sample analysis for garlic sample matrix. Final sample extracts were prepared by instrument Purge & Trap and analysis guideline under EPA 8260B.

1,4-Dioxane and SVOC's were extracted using EPA 3545/ASE-PFE as solid samples. A standard sample volume of 0.5 grams was measured prior to extraction in order to minimize matrix interference with sample analysis. 1,4-Dioxane was analyzed using EPA 8270M and requested SVOC's were analyzed using EPA 8270C. Garlic sample extracts were analyzed without any further dilution.

Acrylamide analysis was performed by EPA 8316M, which employs a QuEChERS extraction technique. About 1.0 grams of garlic sample was used for sample extraction. Reference analysis headers for actual sample volumes measured for extraction. For analytical method, reference Agilent document "Analysis of Acrylamide in French Fries using Agilent Bond Elut QuEChERS AOAC kit and LC/MS/MS" for extraction procedure. Instrument parameters were optimized based on this document for analysis.

Preparation for metals analysis was performed according to EPA 3050M-SCL. A standard sample volume of 1.0 grams of garlic was digested in preparation for analysis. Reference analysis headers for actual sample volumes measured for preparation. Metals analysis follows standard procedure noted in EPA 6010B and EPA 6020B. No dilution was required during sample preparation or analysis.

Alcohols are extracted and analyzed by EPA 8015B. Samples were treated as soil samples as noted in the original EPA method. Sample volumes for garlic were standardized prior to sample extraction in order to make an extract that can accommodate sample analysis. For garlic samples, the targeted sample volume for extraction were 0.5 grams. See individual sample analysis header for actual sample volume used for sample extraction. No further dilution of the sample extract was necessary for analysis of alcohols.

Acetaldehyde, benzyl chloride, and cyclohexylamine analyses were not performed per agreement with Waterboard and GSI Environmental due to lack of lab setup for these analyses.

## Sample Container Summary

Sample Name		Sampled By		Lab ID	Matrix	Sampled	Qualifiers
Container ID	Container Type	pH Pass	pH Checked On	pH Check By	CI Pass	CI Checked On	CI Check By
B-G23-20180712-0945		April	Saceaux	8G13045-07	Solid	07/12/18 09:45	



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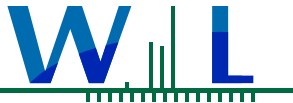
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Sample Name		Sampled By		Lab ID	Matrix	Sampled	Qualifiers
Container ID	Container Type	pH Pass	pH Checked On	pH Check By	CI Pass	CI Checked On	CI Check By
8G13045-07 A	1-L Clear Glass Wide Mouth						
B-G31-20180712-0955		April Saceaux		8G13045-08	Solid	07/12/18 09:55	
8G13045-08 A	1-L Clear Glass Wide Mouth						
A-G21-20180712-1045		April Saceaux		8G13045-10	Solid	07/12/18 10:45	
8G13045-10 A	1-L Clear Glass Wide Mouth						
A-G30-20180712-1050		April Saceaux		8G13045-11	Solid	07/12/18 10:50	
8G13045-11 A	1-L Clear Glass Wide Mouth						
A-G22-20180712-1210		April Saceaux		8G13045-12	Solid	07/12/18 12:10	
8G13045-12 A	1-L Clear Glass Wide Mouth						
B-G24-20180712-1305		April Saceaux		8G13045-13	Solid	07/12/18 13:05	
8G13045-13 A	1-L Clear Glass Wide Mouth						



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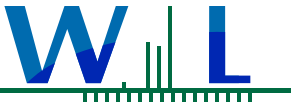
Sample Results

Sample: B-G23-20180712-0945
8G13045-07 (Solid)

Sampled: 07/12/18 9:45 by April Saceaux

Comments: Sample Homogenized on 1/24/19 at 17:36

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



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## Sample Results

(Continued)

Sample: B-G23-20180712-0945  
8G13045-07 (Solid)

Sampled: 07/12/18 9:45 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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### Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)		Batch ID: W9A1613		Initial: 0.56 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 01/29/19 13:32		Instr: GCMS06		Final: 1 ml				
Bis(2-chloroethyl)ether	ND			1.8	mg/kg	1	03/10/19 09:32	M-02
Bis(2-ethylhexyl)phthalate	ND			1.8	mg/kg	1	03/10/19 09:32	M-02
Carbazole	ND			1.8	mg/kg	1	03/10/19 09:32	M-02
Phenol	ND			1.8	mg/kg	1	03/10/19 09:32	M-02
Pyridine	ND			3.6	mg/kg	1	03/10/19 09:32	M-02
<i>Surrogate(s)</i>								
2,4,6-Tribromophenol	79%	Conc: 14.0		32-103			03/10/19 09:32	M-02
2-Fluorobiphenyl	41%	Conc: 3.68		36-107			03/10/19 09:32	M-02
2-Fluorophenol	51%	Conc: 9.10		33-119			03/10/19 09:32	M-02
Nitrobenzene-d5	50%	Conc: 4.43		36-114			03/10/19 09:32	M-02
Phenol-d5	43%	Conc: 7.73		40-118			03/10/19 09:32	M-02
Terphenyl-d14	89%	Conc: 7.94		40-121			03/10/19 09:32	M-02

### Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM		Batch ID: W9A1615		Initial: 0.56 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 01/29/19 13:37		Instr: GCMS06		Final: 1 ml				
1-Methylnaphthalene	ND			270	ug/kg	1	03/01/19 20:02	M-02
2-Methylnaphthalene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Acenaphthene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Acenaphthylene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Anthracene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Benzo (a) anthracene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Benzo (a) pyrene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Benzo (b) fluoranthene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Benzo (g,h,i) perylene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Benzo (k) fluoranthene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Chrysene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Dibenzo (a,h) anthracene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Fluoranthene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Fluorene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Indeno (1,2,3-cd) pyrene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Naphthalene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Phenanthrene	ND			270	ug/kg	1	03/01/19 20:02	M-02
Pyrene	ND			270	ug/kg	1	03/01/19 20:02	M-02
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	42%	Conc: 3790		0.1-109			03/01/19 20:02	M-02
Nitrobenzene-d5	39%	Conc: 3510		0.1-107			03/01/19 20:02	M-02





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## Sample Results

(Continued)

Sample: B-G23-20180712-0945  
8G13045-07 (Solid)

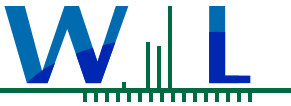
Sampled: 07/12/18 9:45 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)</b>								
<b>Analysis Method:</b> EPA 8270C SIM (Continued)		<b>Batch ID:</b> W9A1615		<b>Initial:</b> 0.56 g		<b>Analyst:</b> rmr		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:37		<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml				
Terphenyl-d14	84%		Conc: 7520	28-128			03/01/19 20:02	M-02

## Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Analysis Method:</b> EPA 8260B								
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44		<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.684 g		<b>Analyst:</b> cam		
		<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml				
1,1,1,2-Tetrachloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,1,1-Trichloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
1,1,2,2-Tetrachloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,1,2-Trichloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,1-Dichloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,1-Dichloroethene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,1-Dichloropropene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2,3-Trichlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2,3-Trichloropropane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2,4-Trichlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
1,2,4-Trimethylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2-Dibromoethane (EDB)	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2-Dichloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,2-Dichloropropane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,3,5-Trimethylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
1,3-Dichloropropane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
2,2-Dichloropropane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
2-Butanone	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
2-Chloroethyl vinyl ether	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
2-Chlorotoluene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
2-Hexanone	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
4-Chlorotoluene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
4-Methyl-2-pentanone	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Acetone	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04



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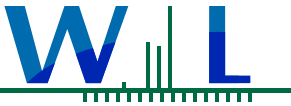
(Continued)

Sample: B-G23-20180712-0945  
8G13045-07 (Solid)

Sampled: 07/12/18 9:45 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.684 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Acrolein	43000			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Acrylonitrile	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Benzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Bromobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
Bromochloromethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Bromodichloromethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Bromoform	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Bromomethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Carbon tetrachloride	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Chlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Chloroethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Chloroform	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
Chloromethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
cis-1,2-Dichloroethene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
cis-1,3-Dichloropropene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Dibromochloromethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Dibromomethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Ethylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
Hexachlorobutadiene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Isopropylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
m,p-Xylene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
m-Dichlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Methylene chloride	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Naphthalene	ND			1900	ug/kg	100	02/07/19 13:44	M-02, M-04
n-Butylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
n-Propylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04



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## Sample Results

(Continued)

Sample: B-G23-20180712-0945  
8G13045-07 (Solid)

Sampled: 07/12/18 9:45 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.684 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
o-Xylene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
p-Dichlorobenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-04, M-02
p-Isopropyltoluene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
sec-Butylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Styrene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
tert-Butylbenzene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Tetrachloroethene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Toluene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
trans-1,2-Dichloroethene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
trans-1,3-Dichloropropene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Trichloroethene	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Trichlorofluoromethane	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04
Vinyl chloride	ND			1900	ug/kg	100	02/06/19 22:56	M-02, M-04

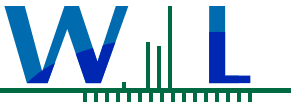
Surrogate(s)	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
1,2-Dichloroethane-d4	114%	Conc: 212		78-140			02/06/19 22:56	
4-Bromofluorobenzene	106%	Conc: 198		85-116			02/06/19 22:56	
Dibromofluoromethane	115%	Conc: 214		84-120			02/06/19 22:56	
Toluene-d8	104%	Conc: 193		82-120			02/06/19 22:56	

Sample: B-G23-20180712-0945  
8G13045-07RE1 (Solid)

Sampled: 07/12/18 9:45 by April Saceaux

Comments: Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.684 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	1200			930	ug/kg	50	02/07/19 14:53	M-02, M-04
<b>Surrogate(s)</b>								
1,2-Dichloroethane-d4	111%	Conc: 207		78-140			02/07/19 14:53	
4-Bromofluorobenzene	122%	Conc: 226		85-116			02/07/19 14:53	S-11
Dibromofluoromethane	110%	Conc: 204		84-120			02/07/19 14:53	
Toluene-d8	97%	Conc: 180		82-120			02/07/19 14:53	



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

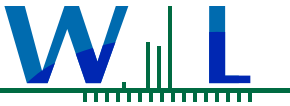
Sample: B-G31-20180712-0955

Sampled: 07/12/18 9:55 by April Saceaux

8G13045-08 (Solid)

Comments: Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>1,4-Dioxane Low Level by isotopic dilution GC/MS</b>								
<b>Analysis Method:</b> EPA 8270M		<b>Batch ID:</b> W9A1611		<b>Initial:</b> 0.52 g		<b>Analyst:</b> mld		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:28		<b>Instr:</b> GCMS20		<b>Final:</b> 1 ml				
1,4-Dioxane	ND			960	ug/kg	1	02/19/19 20:49	M-02
<b>Acrylamide by LC/MS/MS</b>								
<b>Analysis Method:</b> EPA 8316M		<b>Batch ID:</b> W9B0410		<b>Initial:</b> 1 g		<b>Analyst:</b> kan		
<b>Prep Method:</b> QuEChERS on 02/07/19 12:33		<b>Instr:</b> LCMS02		<b>Final:</b> 10 ml				
Acrylamide	ND			100	ug/kg	1	02/11/19 21:19	
<b>Alcohols by GC/FID</b>								
<b>Analysis Method:</b> EPA 8015B		<b>Batch ID:</b> W9A1668		<b>Initial:</b> 0.557 g		<b>Analyst:</b> ars		
<b>Prep Method:</b> Microextraction on 01/30/19 10:33		<b>Instr:</b> GC09		<b>Final:</b> 30 ml				
Isopropyl alcohol	ND			540	mg/kg	1	01/30/19 19:24	M-02
Methanol	ND			540	mg/kg	1	01/30/19 19:24	M-02
<b>Metals (Non-Aqueous) by EPA 6000/7000 Series Methods</b>								
<b>Analysis Method:</b> EPA 6010B		<b>Batch ID:</b> W9B0027		<b>Initial:</b> 1.014 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:25		<b>Instr:</b> ICP03		<b>Final:</b> 50 ml				
Lithium, Total	ND			5.0	mg/kg	1	02/21/19 14:28	
<b>Analysis Method:</b> EPA 6020		<b>Batch ID:</b> W9B0026		<b>Initial:</b> 1.014 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:10		<b>Instr:</b> ICPMS02		<b>Final:</b> 1000 ml				
<b>Antimony, Total</b>	<b>0.55</b>			0.50	mg/kg	1	02/20/19 18:53	
Arsenic, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Barium, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Beryllium, Total	ND			0.30	mg/kg	1	02/20/19 18:53	
Cadmium, Total	ND			0.20	mg/kg	1	02/20/19 18:53	
Chromium, Total	ND			1.0	mg/kg	1	02/20/19 18:53	
Cobalt, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
<b>Copper, Total</b>	<b>2.5</b>			0.50	mg/kg	1	02/20/19 18:53	
Lead, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Molybdenum, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Nickel, Total	ND			1.0	mg/kg	1	02/20/19 18:53	
Selenium, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Silver, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
<b>Strontium, Total</b>	<b>0.81</b>			0.50	mg/kg	1	02/20/19 18:53	
Thallium, Total	ND			0.50	mg/kg	1	02/20/19 18:53	
Vanadium, Total	ND			1.0	mg/kg	1	02/20/19 18:53	
<b>Zinc, Total</b>	<b>10</b>			5.0	mg/kg	1	02/20/19 18:53	
<b>Semivolatile Organic Compounds by GC/MS</b>								
<b>Analysis Method:</b> EPA 8270C		<b>Batch ID:</b> W9A1613		<b>Initial:</b> 0.52 g		<b>Analyst:</b> rmr		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:32		<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml				
2-Naphthylamine	ND			19	mg/kg	1	03/10/19 10:02	M-02



WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: B-G31-20180712-0955  
8G13045-08 (Solid)

Sampled: 07/12/18 9:55 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

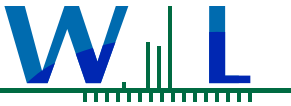
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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### Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method:	EPA 8270C (Continued)	Batch ID:	W9A1613	Initial:	0.52 g	Analyst:	rmr	
Prep Method:	EPA 3545/ASE-PFE on 01/29/19 13:32	Instr:	GCMS06	Final:	1 ml			
Bis(2-chloroethyl)ether	ND			1.9	mg/kg	1	03/10/19 10:02	M-02
Bis(2-ethylhexyl)phthalate	ND			1.9	mg/kg	1	03/10/19 10:02	M-02
Carbazole	ND			1.9	mg/kg	1	03/10/19 10:02	M-02
Phenol	ND			1.9	mg/kg	1	03/10/19 10:02	M-02
Pyridine	ND			3.8	mg/kg	1	03/10/19 10:02	M-02
<i>Surrogate(s)</i>								
2,4,6-Tribromophenol	94%	Conc: 18.1		32-103			03/10/19 10:02	M-02
2-Fluorobiphenyl	48%	Conc: 4.66		36-107			03/10/19 10:02	M-02
2-Fluorophenol	71%	Conc: 13.7		33-119			03/10/19 10:02	M-02
Nitrobenzene-d5	70%	Conc: 6.71		36-114			03/10/19 10:02	M-02
Phenol-d5	62%	Conc: 11.9		40-118			03/10/19 10:02	M-02
Terphenyl-d14	102%	Conc: 9.80		40-121			03/10/19 10:02	M-02

### Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method:	EPA 8270C SIM	Batch ID:	W9A1615	Initial:	0.52 g	Analyst:	rmr	
Prep Method:	EPA 3545/ASE-PFE on 01/29/19 13:37	Instr:	GCMS06	Final:	1 ml			
1-Methylnaphthalene	ND			290	ug/kg	1	03/01/19 20:37	M-02
2-Methylnaphthalene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Acenaphthene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Acenaphthylene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Anthracene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Benzo (a) anthracene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Benzo (a) pyrene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Benzo (b) fluoranthene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Benzo (g,h,i) perylene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Benzo (k) fluoranthene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Chrysene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Dibenzo (a,h) anthracene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Fluoranthene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Fluorene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Indeno (1,2,3-cd) pyrene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Naphthalene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Phenanthrene	ND			290	ug/kg	1	03/01/19 20:37	M-02
Pyrene	ND			290	ug/kg	1	03/01/19 20:37	M-02
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	52%	Conc: 4980		0.1-109			03/01/19 20:37	M-02
Nitrobenzene-d5	58%	Conc: 5580		0.1-107			03/01/19 20:37	M-02



WECK LABORATORIES, INC.

Law Offices of McMurtrey, Hartssock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: B-G31-20180712-0955
8G13045-08 (Solid)

Sampled: 07/12/18 9:55 by April Saceaux

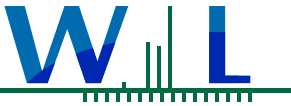
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Row for Terphenyl-d14 with result 97% and qualifier M-02.

Volatile Organic Compounds by P&T and GC/MS

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Lists various organic compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., with results mostly ND and qualifiers M-02, M-04.



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Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

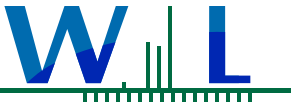
(Continued)

Sample: B-G31-20180712-0955
8G13045-08 (Solid)

Sampled: 07/12/18 9:55 by April Saceaux
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains list of Volatile Organic Compounds by P&T and GC/MS (Continued) with results for various compounds like Acrolein, Acrylonitrile, Benzene, etc.



WECK LABORATORIES, INC.

Law Offices of McMurtrey, Hartssock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: B-G31-20180712-0955  
8G13045-08 (Solid)

Sampled: 07/12/18 9:55 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.462 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
o-Xylene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
p-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
p-Isopropyltoluene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
sec-Butylbenzene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Styrene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
tert-Butylbenzene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Tetrachloroethene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Toluene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
trans-1,2-Dichloroethene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
trans-1,3-Dichloropropene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Trichloroethene	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Trichlorofluoromethane	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
Vinyl chloride	ND			2000	ug/kg	100	02/07/19 00:05	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	116%	Conc: 235		78-140			02/07/19 00:05	
4-Bromofluorobenzene	108%	Conc: 220		85-116			02/07/19 00:05	
Dibromofluoromethane	117%	Conc: 237		84-120			02/07/19 00:05	
Toluene-d8	104%	Conc: 211		82-120			02/07/19 00:05	

Sample: B-G31-20180712-0955  
8G13045-08RE1 (Solid)

Sampled: 07/12/18 9:55 by April Saceaux

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.462 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	1300			1000	ug/kg	50	02/07/19 15:28	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	112%	Conc: 227		78-140			02/07/19 15:28	
4-Bromofluorobenzene	125%	Conc: 253		85-116			02/07/19 15:28	S-11
Dibromofluoromethane	111%	Conc: 225		84-120			02/07/19 15:28	
Toluene-d8	98%	Conc: 199		82-120			02/07/19 15:28	





# Certificate of Analysis

FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth  
2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

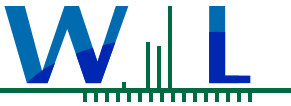
Sample: A-G21-20180712-1045

Sampled: 07/12/18 10:45 by April Saceaux

8G13045-10 (Solid)

Comments: Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>1,4-Dioxane Low Level by isotopic dilution GC/MS</b>								
<b>Analysis Method:</b> EPA 8270M		<b>Batch ID:</b> W9A1611		<b>Initial:</b> 0.51 g		<b>Analyst:</b> mld		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:28		<b>Instr:</b> GCMS20		<b>Final:</b> 1 ml				
1,4-Dioxane	ND			980	ug/kg	1	02/19/19 21:03	M-02
<b>Acrylamide by LC/MS/MS</b>								
<b>Analysis Method:</b> EPA 8316M		<b>Batch ID:</b> W9B0410		<b>Initial:</b> 1.01 g		<b>Analyst:</b> kan		
<b>Prep Method:</b> QuEChERS on 02/07/19 12:33		<b>Instr:</b> LCMS02		<b>Final:</b> 10 ml				
Acrylamide	ND			100	ug/kg	1	02/11/19 21:28	
<b>Alcohols by GC/FID</b>								
<b>Analysis Method:</b> EPA 8015B		<b>Batch ID:</b> W9A1668		<b>Initial:</b> 0.509 g		<b>Analyst:</b> ars		
<b>Prep Method:</b> Microextraction on 01/30/19 10:33		<b>Instr:</b> GC09		<b>Final:</b> 30 ml				
Isopropyl alcohol	ND			590	mg/kg	1	01/30/19 19:54	M-02
Methanol	ND			590	mg/kg	1	01/30/19 19:54	M-02
<b>Metals (Non-Aqueous) by EPA 6000/7000 Series Methods</b>								
<b>Analysis Method:</b> EPA 6010B		<b>Batch ID:</b> W9B0027		<b>Initial:</b> 1.016 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:25		<b>Instr:</b> ICP03		<b>Final:</b> 50 ml				
Lithium, Total	ND			5.0	mg/kg	1	02/21/19 14:31	
<b>Analysis Method:</b> EPA 6020		<b>Batch ID:</b> W9B0026		<b>Initial:</b> 1.016 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:10		<b>Instr:</b> ICPMS02		<b>Final:</b> 1000 ml				
<b>Antimony, Total</b>	<b>0.61</b>			0.50	mg/kg	1	02/20/19 19:00	
Arsenic, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Barium, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Beryllium, Total	ND			0.30	mg/kg	1	02/20/19 19:00	
Cadmium, Total	ND			0.20	mg/kg	1	02/20/19 19:00	
Chromium, Total	ND			1.0	mg/kg	1	02/20/19 19:00	
Cobalt, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
<b>Copper, Total</b>	<b>2.4</b>			0.50	mg/kg	1	02/20/19 19:00	
Lead, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Molybdenum, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Nickel, Total	ND			1.0	mg/kg	1	02/20/19 19:00	
Selenium, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Silver, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
<b>Strontium, Total</b>	<b>1.8</b>			0.50	mg/kg	1	02/20/19 19:00	
Thallium, Total	ND			0.50	mg/kg	1	02/20/19 19:00	
Vanadium, Total	ND			1.0	mg/kg	1	02/20/19 19:00	
<b>Zinc, Total</b>	<b>13</b>			5.0	mg/kg	1	02/20/19 19:00	
<b>Semivolatile Organic Compounds by GC/MS</b>								
<b>Analysis Method:</b> EPA 8270C		<b>Batch ID:</b> W9A1613		<b>Initial:</b> 0.51 g		<b>Analyst:</b> rmr		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:32		<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml				
2-Naphthylamine	ND			20	mg/kg	1	03/10/19 10:32	M-02



WECK LABORATORIES, INC.

Law Offices of McMurtrey, Hartssock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: A-G21-20180712-1045
8G13045-10 (Solid)

Sampled: 07/12/18 10:45 by April Saceaux
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

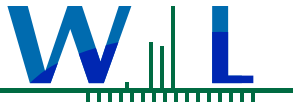
Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Semivolatile Organic Compounds by GC/MS (Continued)

Table containing analysis method (EPA 8270C), prep method (EPA 3545/ASE-PFE), batch ID (W9A1613), and results for various compounds like Bis(2-chloroethyl)ether, Carbazole, Phenol, Pyridine, and Surrogate(s) like 2,4,6-Tribromophenol.

Semivolatile Organics - Low Level by GC/MS SIM Mode

Table containing analysis method (EPA 8270C SIM), prep method (EPA 3545/ASE-PFE), batch ID (W9A1615), and results for various compounds like 1-Methylnaphthalene, Benzo (a) anthracene, Fluorene, and Surrogate(s) like 2-Fluorobiphenyl.



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

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Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: A-G21-20180712-1045
8G13045-10 (Solid)

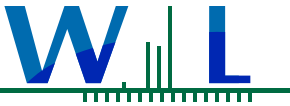
Sampled: 07/12/18 10:45 by April Saceaux
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Row: Terphenyl-d14, 92%, Conc: 8980, 28-128, 03/01/19 21:12, M-02

Volatile Organic Compounds by P&T and GC/MS

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Lists various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., with results mostly ND and qualifiers M-02, M-04.



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

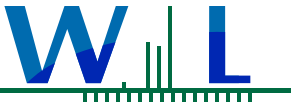
(Continued)

Sample: A-G21-20180712-1045  
8G13045-10 (Solid)

Sampled: 07/12/18 10:45 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.724 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Acrolein	4500			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Acrylonitrile	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Benzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Bromobenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Bromochloromethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Bromodichloromethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Bromoform	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Bromomethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Carbon tetrachloride	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Chlorobenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Chloroethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Chloroform	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Chloromethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
cis-1,2-Dichloroethene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
cis-1,3-Dichloropropene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Dibromochloromethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Dibromomethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Ethylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Hexachlorobutadiene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Isopropylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
m,p-Xylene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
m-Dichlorobenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Methylene chloride	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Naphthalene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
n-Butylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
n-Propylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: A-G21-20180712-1045  
8G13045-10 (Solid)

Sampled: 07/12/18 10:45 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.724 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
o-Xylene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
p-Dichlorobenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
p-Isopropyltoluene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
sec-Butylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Styrene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
tert-Butylbenzene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Tetrachloroethene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Toluene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
trans-1,2-Dichloroethene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
trans-1,3-Dichloropropene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Trichloroethene	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Trichlorofluoromethane	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04
Vinyl chloride	ND			1800	ug/kg	100	02/07/19 01:14	M-02, M-04

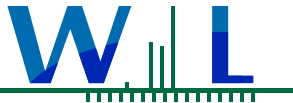
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	119%	Conc: 218		78-140			02/07/19 01:14	
4-Bromofluorobenzene	108%	Conc: 199		85-116			02/07/19 01:14	
Dibromofluoromethane	120%	Conc: 220		84-120			02/07/19 01:14	
Toluene-d8	108%	Conc: 198		82-120			02/07/19 01:14	

Sample: A-G21-20180712-1045  
8G13045-10RE1 (Solid)

Sampled: 07/12/18 10:45 by April Saceaux

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.724 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	ND			920	ug/kg	50	02/07/19 16:20	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	110%	Conc: 201		78-140			02/07/19 16:20	
4-Bromofluorobenzene	111%	Conc: 204		85-116			02/07/19 16:20	
Dibromofluoromethane	109%	Conc: 200		84-120			02/07/19 16:20	
Toluene-d8	96%	Conc: 176		82-120			02/07/19 16:20	



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

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Reported: 03/13/2019 12:53

Sample Results

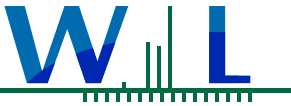
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Sample: A-G30-20180712-1050
8G13045-11 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux

Comments: Sample Homogenized on 1/24/19 at 17:36

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



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Work Order(s): 8G13045

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Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: A-G30-20180712-1050
8G13045-11 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux
(Continued)

Comments: Sample Homogenized on 1/24/19 at 17:36

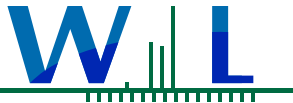
Table header with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Semivolatile Organic Compounds by GC/MS (Continued)

Table containing analysis method (EPA 8270C), prep method (EPA 3545/ASE-PFE), batch ID (W9A1613), initial (0.54 g), final (1 ml), and analyst (rmr) for various compounds like Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Carbazole, Phenol, Pyridine, and Surrogate(s) like 2,4,6-Tribromophenol.

Semivolatile Organics - Low Level by GC/MS SIM Mode

Table containing analysis method (EPA 8270C SIM), prep method (EPA 3545/ASE-PFE), batch ID (W9A1615), initial (0.54 g), final (1 ml), and analyst (rmr) for various compounds like 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Fluoranthene, Fluorene, Indeno (1,2,3-cd) pyrene, Naphthalene, Phenanthrene, Pyrene, and Surrogate(s) like 2-Fluorobiphenyl and Nitrobenzene-d5.



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Work Order(s): 8G13045

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Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: A-G30-20180712-1050
8G13045-11 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux
(Continued)

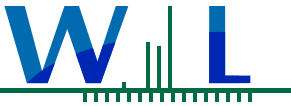
Comments: Sample Homogenized on 1/24/19 at 17:36

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Row: Terphenyl-d14, 90%, Conc: 8370, 28-128, 03/01/19 21:47, M-02

Volatile Organic Compounds by P&T and GC/MS

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Lists various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., all with ND results and M-02, M-04 qualifiers.





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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

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**Reported:**  
03/13/2019 12:53

## Sample Results

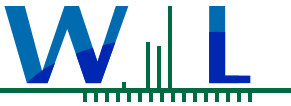
(Continued)

Sample: A-G30-20180712-1050  
8G13045-11 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.455 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Acrolein	6500			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Acrylonitrile	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Benzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Bromobenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Bromochloromethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Bromodichloromethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Bromoform	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Bromomethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Carbon tetrachloride	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Chlorobenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Chloroethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Chloroform	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Chloromethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
cis-1,2-Dichloroethene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
cis-1,3-Dichloropropene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Dibromochloromethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Dibromomethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Ethylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Hexachlorobutadiene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Isopropylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
m,p-Xylene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
m-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Methylene chloride	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Naphthalene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
n-Butylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
n-Propylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

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**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: A-G30-20180712-1050  
8G13045-11 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.455 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
o-Xylene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
p-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
p-Isopropyltoluene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
sec-Butylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Styrene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
tert-Butylbenzene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Tetrachloroethene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Toluene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
trans-1,2-Dichloroethene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
trans-1,3-Dichloropropene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Trichloroethene	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Trichlorofluoromethane	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
Vinyl chloride	ND			2000	ug/kg	100	02/07/19 02:24	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	115%	Conc: 234		78-140			02/07/19 02:24	
4-Bromofluorobenzene	106%	Conc: 215		85-116			02/07/19 02:24	
Dibromofluoromethane	116%	Conc: 237		84-120			02/07/19 02:24	
Toluene-d8	103%	Conc: 210		82-120			02/07/19 02:24	

Sample: A-G30-20180712-1050  
8G13045-11RE1 (Solid)

Sampled: 07/12/18 10:50 by April Saceaux

**Comments:** Sample Homogenized on 1/24/19 at 17:36

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.455 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	ND			1000	ug/kg	50	02/07/19 16:55	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	107%	Conc: 218		78-140			02/07/19 16:55	
4-Bromofluorobenzene	110%	Conc: 223		85-116			02/07/19 16:55	
Dibromofluoromethane	107%	Conc: 218		84-120			02/07/19 16:55	
Toluene-d8	94%	Conc: 191		82-120			02/07/19 16:55	



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FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth  
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Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

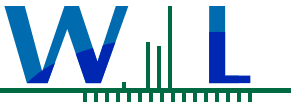
(Continued)

Sample: A-G22-20180712-1210  
8G13045-12 (Solid)

Sampled: 07/12/18 12:10 by April Saceaux

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>1,4-Dioxane Low Level by isotopic dilution GC/MS</b>								
<b>Analysis Method:</b> EPA 8270M		<b>Batch ID:</b> W9A1611		<b>Initial:</b> 0.54 g		<b>Analyst:</b> mld		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:28		<b>Instr:</b> GCMS20		<b>Final:</b> 1 ml				
1,4-Dioxane	ND			930	ug/kg	1	02/19/19 21:32	M-02
<b>Acrylamide by LC/MS/MS</b>								
<b>Analysis Method:</b> EPA 8316M		<b>Batch ID:</b> W9B0410		<b>Initial:</b> 0.99 g		<b>Analyst:</b> kan		
<b>Prep Method:</b> QuEChERS on 02/07/19 12:33		<b>Instr:</b> LCMS02		<b>Final:</b> 10 ml				
Acrylamide	ND			100	ug/kg	1	02/11/19 21:46	
<b>Alcohols by GC/FID</b>								
<b>Analysis Method:</b> EPA 8015B		<b>Batch ID:</b> W9A1668		<b>Initial:</b> 0.52 g		<b>Analyst:</b> ars		
<b>Prep Method:</b> Microextraction on 01/30/19 10:33		<b>Instr:</b> GC09		<b>Final:</b> 30 ml				
Isopropyl alcohol	ND			580	mg/kg	1	01/30/19 20:53	M-02
Methanol	ND			580	mg/kg	1	01/30/19 20:53	M-02
<b>Metals (Non-Aqueous) by EPA 6000/7000 Series Methods</b>								
<b>Analysis Method:</b> EPA 6010B		<b>Batch ID:</b> W9B0027		<b>Initial:</b> 1.017 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:25		<b>Instr:</b> ICP03		<b>Final:</b> 50 ml				
Lithium, Total	ND			5.0	mg/kg	1	02/21/19 14:37	
<b>Analysis Method:</b> EPA 6020		<b>Batch ID:</b> W9B0026		<b>Initial:</b> 1.017 g		<b>Analyst:</b> mtt		
<b>Prep Method:</b> EPA 3050M-SCL on 02/01/19 11:10		<b>Instr:</b> ICPMS02		<b>Final:</b> 1000 ml				
Antimony, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Arsenic, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Barium, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Beryllium, Total	ND			0.30	mg/kg	1	02/20/19 19:14	
Cadmium, Total	ND			0.20	mg/kg	1	02/20/19 19:14	
Chromium, Total	ND			1.0	mg/kg	1	02/20/19 19:14	
Cobalt, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
<b>Copper, Total</b>	<b>2.2</b>			0.50	mg/kg	1	02/20/19 19:14	
Lead, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Molybdenum, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Nickel, Total	ND			1.0	mg/kg	1	03/01/19 21:30	
Selenium, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Silver, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
<b>Strontium, Total</b>	<b>3.0</b>			0.50	mg/kg	1	02/20/19 19:14	
Thallium, Total	ND			0.50	mg/kg	1	02/20/19 19:14	
Vanadium, Total	ND			1.0	mg/kg	1	02/20/19 19:14	
<b>Zinc, Total</b>	<b>11</b>			5.0	mg/kg	1	02/20/19 19:14	
<b>Semivolatile Organic Compounds by GC/MS</b>								
<b>Analysis Method:</b> EPA 8270C		<b>Batch ID:</b> W9A1613		<b>Initial:</b> 0.54 g		<b>Analyst:</b> rmr		
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:32		<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml				
2-Naphthylamine	ND			19	mg/kg	1	03/10/19 11:32	M-02



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2001 22nd Street, Suite 100  
Bakersfield, CA 93301

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

**Reported:**

03/13/2019 12:53

## Sample Results

(Continued)

Sample: A-G22-20180712-1210  
8G13045-12 (Solid)

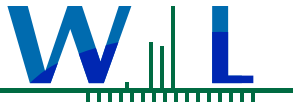
Sampled: 07/12/18 12:10 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Semivolatile Organic Compounds by GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8270C (Continued)			<b>Batch ID:</b> W9A1613		<b>Initial:</b> 0.54 g		<b>Analyst:</b> rmr	
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:32			<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml			
Bis(2-chloroethyl)ether	ND			1.9	mg/kg	1	03/10/19 11:32	M-02
Bis(2-ethylhexyl)phthalate	ND			1.9	mg/kg	1	03/10/19 11:32	M-02
Carbazole	ND			1.9	mg/kg	1	03/10/19 11:32	M-02
Phenol	ND			1.9	mg/kg	1	03/10/19 11:32	M-02
Pyridine	ND			3.7	mg/kg	1	03/10/19 11:32	M-02
<i>Surrogate(s)</i>								
2,4,6-Tribromophenol	83%	Conc: 15.4		32-103			03/10/19 11:32	M-02
2-Fluorobiphenyl	46%	Conc: 4.30		36-107			03/10/19 11:32	M-02
2-Fluorophenol	63%	Conc: 11.6		33-119			03/10/19 11:32	M-02
Nitrobenzene-d5	61%	Conc: 5.68		36-114			03/10/19 11:32	M-02
Phenol-d5	75%	Conc: 13.8		40-118			03/10/19 11:32	M-02
Terphenyl-d14	92%	Conc: 8.55		40-121			03/10/19 11:32	M-02

### Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Analysis Method:</b> EPA 8270C SIM			<b>Batch ID:</b> W9A1615		<b>Initial:</b> 0.54 g		<b>Analyst:</b> rmr	
<b>Prep Method:</b> EPA 3545/ASE-PFE on 01/29/19 13:37			<b>Instr:</b> GCMS06		<b>Final:</b> 1 ml			
1-Methylnaphthalene	ND			280	ug/kg	1	03/01/19 22:22	M-02
2-Methylnaphthalene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Acenaphthene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Acenaphthylene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Anthracene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Benzo (a) anthracene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Benzo (a) pyrene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Benzo (b) fluoranthene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Benzo (g,h,i) perylene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Benzo (k) fluoranthene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Chrysene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Dibenzo (a,h) anthracene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Fluoranthene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Fluorene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Indeno (1,2,3-cd) pyrene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Naphthalene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Phenanthrene	ND			280	ug/kg	1	03/01/19 22:22	M-02
Pyrene	ND			280	ug/kg	1	03/01/19 22:22	M-02
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	48%	Conc: 4420		0.1-109			03/01/19 22:22	M-02
Nitrobenzene-d5	51%	Conc: 4690		0.1-107			03/01/19 22:22	M-02



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: A-G22-20180712-1210
8G13045-12 (Solid)

Sampled: 07/12/18 12:10 by April Saceaux

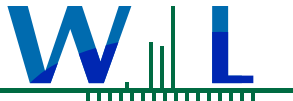
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Row: Terphenyl-d14, 88%, Conc: 8150, 28-128, 03/01/19 22:22, M-02

Volatile Organic Compounds by P&T and GC/MS

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Lists various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., with results mostly ND and qualifiers M-02, M-04.



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FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth  
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**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

**Reported:**  
03/13/2019 12:53

## Sample Results

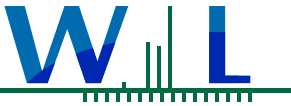
(Continued)

Sample: A-G22-20180712-1210  
8G13045-12 (Solid)

Sampled: 07/12/18 12:10 by April Saceaux  
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.61 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Acrolein	3700			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Acrylonitrile	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Benzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Bromobenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Bromochloromethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Bromodichloromethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Bromoform	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Bromomethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Carbon tetrachloride	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Chlorobenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Chloroethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Chloroform	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Chloromethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
cis-1,2-Dichloroethene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
cis-1,3-Dichloropropene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Dibromochloromethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Dibromomethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Ethylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Hexachlorobutadiene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Isopropylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
m,p-Xylene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
m-Dichlorobenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Methylene chloride	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Naphthalene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
n-Butylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
n-Propylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04



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**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: A-G22-20180712-1210  
8G13045-12 (Solid)

Sampled: 07/12/18 12:10 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

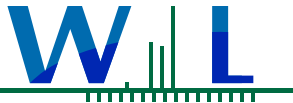
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.61 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
o-Xylene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
p-Dichlorobenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
p-Isopropyltoluene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
sec-Butylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Styrene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
tert-Butylbenzene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Tetrachloroethene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Toluene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
trans-1,2-Dichloroethene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
trans-1,3-Dichloropropene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Trichloroethene	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Trichlorofluoromethane	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
Vinyl chloride	ND			1900	ug/kg	100	02/07/19 03:33	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	111%	Conc: 212		78-140			02/07/19 03:33	
4-Bromofluorobenzene	112%	Conc: 215		85-116			02/07/19 03:33	
Dibromofluoromethane	115%	Conc: 221		84-120			02/07/19 03:33	
Toluene-d8	111%	Conc: 212		82-120			02/07/19 03:33	

Sample: A-G22-20180712-1210  
8G13045-12RE1 (Solid)

Sampled: 07/12/18 12:10 by April Saceaux

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.61 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	ND			960	ug/kg	50	02/07/19 17:29	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	109%	Conc: 208		78-140			02/07/19 17:29	
4-Bromofluorobenzene	106%	Conc: 203		85-116			02/07/19 17:29	
Dibromofluoromethane	109%	Conc: 208		84-120			02/07/19 17:29	
Toluene-d8	94%	Conc: 180		82-120			02/07/19 17:29	



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

(Continued)

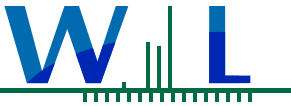
Sample: B-G24-20180712-1305
8G13045-13 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.





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**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

**Reported:**  
03/13/2019 12:53

## Sample Results

(Continued)

Sample: B-G24-20180712-1305  
8G13045-13 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

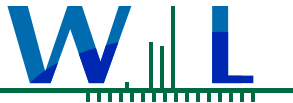
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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### Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)		Batch ID: W9A1613		Initial: 0.52 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 01/29/19 13:32		Instr: GCMS06		Final: 1 ml				
Bis(2-chloroethyl)ether	ND			1.9	mg/kg	1	03/10/19 12:02	M-02
Bis(2-ethylhexyl)phthalate	ND			1.9	mg/kg	1	03/10/19 12:02	M-02
Carbazole	ND			1.9	mg/kg	1	03/10/19 12:02	M-02
Phenol	ND			1.9	mg/kg	1	03/10/19 12:02	M-02
Pyridine	ND			3.8	mg/kg	1	03/10/19 12:02	M-02
<i>Surrogate(s)</i>								
2,4,6-Tribromophenol	87%	Conc: 16.7		32-103			03/10/19 12:02	M-02
2-Fluorobiphenyl	47%	Conc: 4.51		36-107			03/10/19 12:02	M-02
2-Fluorophenol	68%	Conc: 13.1		33-119			03/10/19 12:02	M-02
Nitrobenzene-d5	65%	Conc: 6.26		36-114			03/10/19 12:02	M-02
Phenol-d5	60%	Conc: 11.5		40-118			03/10/19 12:02	M-02
Terphenyl-d14	93%	Conc: 8.98		40-121			03/10/19 12:02	M-02

### Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM		Batch ID: W9A1615		Initial: 0.52 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 01/29/19 13:37		Instr: GCMS06		Final: 1 ml				
1-Methylnaphthalene	ND			290	ug/kg	1	03/01/19 22:57	M-02
2-Methylnaphthalene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Acenaphthene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Acenaphthylene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Anthracene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Benzo (a) anthracene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Benzo (a) pyrene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Benzo (b) fluoranthene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Benzo (g,h,i) perylene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Benzo (k) fluoranthene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Chrysene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Dibenzo (a,h) anthracene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Fluoranthene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Fluorene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Indeno (1,2,3-cd) pyrene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Naphthalene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Phenanthrene	ND			290	ug/kg	1	03/01/19 22:57	M-02
Pyrene	ND			290	ug/kg	1	03/01/19 22:57	M-02
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	51%	Conc: 4880		0.1-109			03/01/19 22:57	M-02
Nitrobenzene-d5	55%	Conc: 5310		0.1-107			03/01/19 22:57	M-02



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

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FINAL REPORT

Reported: 03/13/2019 12:53

Sample Results

(Continued)

Sample: B-G24-20180712-1305
8G13045-13 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux

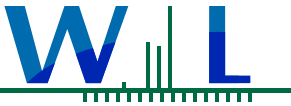
(Continued)

Comments: Sample Homogenized on 1/25/19 at 17:10

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Row: Terphenyl-d14, 89%, Conc: 8540, 28-128, 03/01/19 22:57, M-02

Volatile Organic Compounds by P&T and GC/MS

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Lists various compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc., all with ND results and M-02, M-04 qualifiers.



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

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**Reported:**  
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## Sample Results

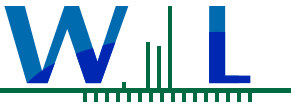
(Continued)

Sample: B-G24-20180712-1305  
8G13045-13 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.528 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Acrolein	17000			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Acrylonitrile	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Benzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Bromobenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Bromochloromethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Bromodichloromethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Bromoform	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Bromomethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Carbon tetrachloride	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Chlorobenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Chloroethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Chloroform	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Chloromethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
cis-1,2-Dichloroethene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
cis-1,3-Dichloropropene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Dibromochloromethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Dibromomethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Ethylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Hexachlorobutadiene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Isopropylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
m,p-Xylene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
m-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Methylene chloride	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Naphthalene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
n-Butylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
n-Propylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

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03/13/2019 12:53

## Sample Results

(Continued)

Sample: B-G24-20180712-1305  
8G13045-13 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux  
(Continued)

**Comments:** Sample Homogenized on 1/25/19 at 17:10

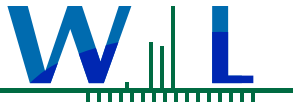
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS (Continued)</b>								
<b>Analysis Method:</b> EPA 8260B (Continued)			<b>Batch ID:</b> W9A1647		<b>Initial:</b> 2.528 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/19 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
o-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
o-Xylene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
p-Dichlorobenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
p-Isopropyltoluene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
sec-Butylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Styrene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
tert-Butylbenzene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Tetrachloroethene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Toluene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
trans-1,2-Dichloroethene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
trans-1,3-Dichloropropene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Trichloroethene	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Trichlorofluoromethane	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
Vinyl chloride	ND			2000	ug/kg	100	02/07/19 04:42	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	112%	Conc: 221		78-140			02/07/19 04:42	
4-Bromofluorobenzene	109%	Conc: 216		85-116			02/07/19 04:42	
Dibromofluoromethane	114%	Conc: 225		84-120			02/07/19 04:42	
Toluene-d8	102%	Conc: 201		82-120			02/07/19 04:42	

Sample: B-G24-20180712-1305  
8G13045-13RE1 (Solid)

Sampled: 07/12/18 13:05 by April Saceaux

**Comments:** Sample Homogenized on 1/25/19 at 17:10

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
<b>Volatile Organic Compounds by P&amp;T and GC/MS</b>								
<b>Analysis Method:</b> EPA 8260B			<b>Batch ID:</b> W9B1577		<b>Initial:</b> 2.528 g		<b>Analyst:</b> cam	
<b>Prep Method:</b> EPA 5000/P&T on 01/29/09 18:44			<b>Instr:</b> GCMS17		<b>Final:</b> 10 ml			
Ethyl acetate	1100			990	ug/kg	50	02/07/19 18:04	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	107%	Conc: 212		78-140			02/07/19 18:04	
4-Bromofluorobenzene	124%	Conc: 245		85-116			02/07/19 18:04	S-11
Dibromofluoromethane	106%	Conc: 209		84-120			02/07/19 18:04	
Toluene-d8	93%	Conc: 185		82-120			02/07/19 18:04	



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

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FINAL REPORT

**Reported:**

03/13/2019 12:53

## Quality Control Results

1,4-Dioxane Low Level by isotopic dilution GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1611 - EPA 8270M</b>						Initial: 20 g	Final: 1 ml					
<b>Blank (W9A1611-BLK1)</b>												
1,4-Dioxane	ND			25	ug/kg							
<b>LCS (W9A1611-BS1)</b>												
1,4-Dioxane	450			25	ug/kg	500		90	76-130			
<b>Matrix Spike (W9A1611-MS1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared: 01/29/19 Analyzed: 02/19/19</b>							
1,4-Dioxane	18500			980	ug/kg	19600	ND	94	84-128			M-02
<b>Matrix Spike Dup (W9A1611-MSD1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared: 01/29/19 Analyzed: 02/19/19</b>							
1,4-Dioxane	17900			940	ug/kg	18900	ND	95	84-128	4	30	M-02

## Quality Control Results

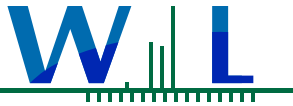
Acrylamide by LC/MS/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9B0410 - EPA 8316M</b>						Initial: 1 g	Final: 10 ml					
<b>Blank (W9B0410-BLK1)</b>												
Acrylamide	ND	100		100	ug/kg							
<b>LCS (W9B0410-BS1)</b>												
Acrylamide	114	100		100	ug/kg	100		114	80-120			
<b>Matrix Spike (W9B0410-MS1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared: 02/07/19 Analyzed: 02/11/19</b>							
Acrylamide	121	100		100	ug/kg	102	ND	119	80-120			
<b>Matrix Spike Dup (W9B0410-MSD1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared: 02/07/19 Analyzed: 02/11/19</b>							
Acrylamide	87.9	71		71	ug/kg	71.4	ND	123	80-120	32	20	MS-05

## Quality Control Results

Alcohols by GC/FID

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1668 - EPA 8015B</b>						Initial: 5 g	Final: 5 ml					
<b>Blank (W9A1668-BLK1)</b>												
Isopropyl alcohol	ND	1.7		10	mg/kg							
Methanol	ND	2.7		10	mg/kg							
<b>LCS (W9A1668-BS1)</b>												
Isopropyl alcohol	48.6	1.7		10	mg/kg	40.0		121	43-144			
Methanol	45.4	2.7		10	mg/kg	40.0		113	54-139			
<b>Matrix Spike (W9A1668-MS1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared &amp; Analyzed: 01/30/19</b>							
Isopropyl alcohol	341	98		590	mg/kg	784	149	25	4-156			M-02
Methanol	1500	160		590	mg/kg	784	306	152	16-166			M-02
<b>Matrix Spike Dup (W9A1668-MSD1)</b>												
		<b>Source: 8G13045-07</b>			<b>Prepared &amp; Analyzed: 01/30/19</b>							
Isopropyl alcohol	317	100		610	mg/kg	810	149	21	4-156	7	25	M-02
Methanol	1320	160		610	mg/kg	810	306	125	16-166	12	25	M-02



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**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

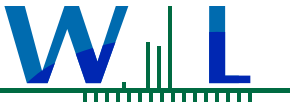
**Reported:**  
03/13/2019 12:53

## Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9B0026 - EPA 6020</b>						Initial: 1 g	Final: 1000 ml					
<b>Blank (W9B0026-BLK1)</b>						<b>Prepared: 02/01/19 Analyzed: 02/20/19</b>						
Antimony, Total	ND	0.20		0.50	mg/kg							
Arsenic, Total	ND	0.20		0.50	mg/kg							
Barium, Total	ND	0.10		0.50	mg/kg							
Beryllium, Total	ND	0.20		0.30	mg/kg							
Cadmium, Total	ND	0.060		0.20	mg/kg							
Chromium, Total	ND	0.23		1.0	mg/kg							
Cobalt, Total	ND	0.31		0.50	mg/kg							
Copper, Total	ND	0.29		0.50	mg/kg							
Lead, Total	ND	0.21		0.50	mg/kg							
Molybdenum, Total	ND	0.30		0.50	mg/kg							
Nickel, Total	ND	0.45		1.0	mg/kg							
Selenium, Total	ND	0.46		0.50	mg/kg							
Silver, Total	ND	0.30		0.50	mg/kg							
Strontium, Total	ND	0.25		0.50	mg/kg							
Thallium, Total	ND	0.18		0.50	mg/kg							
Vanadium, Total	ND	0.73		1.0	mg/kg							
Zinc, Total	ND	2.3		5.0	mg/kg							
<b>Blank (W9B0026-BLK2)</b>						<b>Prepared: 02/01/19 Analyzed: 03/01/19</b>						
Nickel, Total	ND	0.45		1.0	mg/kg							
<b>LCS (W9B0026-BS1)</b>						<b>Prepared: 02/01/19 Analyzed: 02/20/19</b>						
Antimony, Total	52.9	0.20		0.50	mg/kg	50.0		106	80-120			
Arsenic, Total	52.6	0.20		0.50	mg/kg	50.0		105	80-120			
Barium, Total	49.0	0.10		0.50	mg/kg	50.0		98	80-120			
Beryllium, Total	49.8	0.20		0.30	mg/kg	50.0		100	80-120			
Cadmium, Total	50.2	0.060		0.20	mg/kg	50.0		101	80-120			
Chromium, Total	51.1	0.23		1.0	mg/kg	50.0		102	80-120			
Cobalt, Total	50.4	0.31		0.50	mg/kg	50.0		101	80-120			
Copper, Total	52.1	0.29		0.50	mg/kg	50.0		104	80-120			
Lead, Total	52.0	0.21		0.50	mg/kg	50.0		104	80-120			
Molybdenum, Total	49.4	0.30		0.50	mg/kg	50.0		99	80-120			
Nickel, Total	52.3	0.45		1.0	mg/kg	50.0		105	80-120			
Selenium, Total	53.8	0.46		0.50	mg/kg	50.0		108	80-120			
Silver, Total	52.4	0.30		0.50	mg/kg	50.0		105	80-120			
Strontium, Total	99.6	0.25		0.50	mg/kg	100		100	80-120			
Thallium, Total	51.7	0.18		0.50	mg/kg	50.0		103	80-120			
Vanadium, Total	50.2	0.73		1.0	mg/kg	50.0		100	80-120			
Zinc, Total	54.2	2.3		5.0	mg/kg	50.0		108	80-120			
<b>LCS (W9B0026-BS2)</b>						<b>Prepared: 02/01/19 Analyzed: 03/01/19</b>						
Nickel, Total	51.1	0.45		1.0	mg/kg	50.0		102	80-120			
<b>Duplicate (W9B0026-DUP1)</b>						<b>Source: 8G13045-07 Prepared: 02/01/19 Analyzed: 02/20/19</b>						



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FINAL REPORT

**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

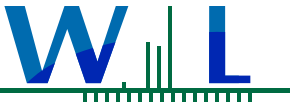
**Reported:**  
03/13/2019 12:53

## Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9B0026 - EPA 6020 (Continued)</b>			Initial: 1.044 g			Final: 1000 ml					
<b>Duplicate (W9B0026-DUP1)</b>			<b>Source: 8G13045-07</b>			<b>Prepared: 02/01/19 Analyzed: 02/20/19</b>					
Antimony, Total	0.785	0.20		0.50	mg/kg		0.608		26	20	R-03
Arsenic, Total	ND	0.20		0.50	mg/kg		ND			20	
Barium, Total	0.805	0.10		0.50	mg/kg		1.08		29	20	R-03
Beryllium, Total	ND	0.20		0.30	mg/kg		ND			20	
Cadmium, Total	ND	0.060		0.20	mg/kg		0.110		200	20	R-03
Chromium, Total	1.04	0.23		1.0	mg/kg		1.11		6	20	
Cobalt, Total	ND	0.31		0.50	mg/kg		ND			20	
Copper, Total	2.45	0.29		0.50	mg/kg		2.62		7	20	
Lead, Total	ND	0.21		0.50	mg/kg		ND			20	
Molybdenum, Total	ND	0.30		0.50	mg/kg		ND			20	
Nickel, Total	0.469	0.45		1.0	mg/kg		0.458		2	20	
Selenium, Total	ND	0.46		0.50	mg/kg		ND			20	
Silver, Total	ND	0.30		0.50	mg/kg		ND			20	
Strontium, Total	1.91	0.25		0.50	mg/kg		2.47		26	20	R-03
Thallium, Total	ND	0.18		0.50	mg/kg		ND			20	
Vanadium, Total	ND	0.73		1.0	mg/kg		ND			20	
Zinc, Total	9.48	2.3		5.0	mg/kg		10.4		9	20	
<b>Duplicate (W9B0026-DUP2)</b>			<b>Source: 8G27020-02</b>			<b>Prepared: 02/01/19 Analyzed: 02/20/19</b>					
Antimony, Total	0.586	0.20		0.50	mg/kg		0.475		21	20	R-03
Arsenic, Total	ND	0.20		0.50	mg/kg		ND			20	
Barium, Total	0.268	0.10		0.50	mg/kg		0.277		3	20	
Beryllium, Total	ND	0.20		0.30	mg/kg		ND			20	
Cadmium, Total	ND	0.060		0.20	mg/kg		ND			20	
Chromium, Total	ND	0.23		1.0	mg/kg		ND			20	
Cobalt, Total	ND	0.31		0.50	mg/kg		ND			20	
Copper, Total	8.15	0.29		0.50	mg/kg		8.40		3	20	
Lead, Total	ND	0.21		0.50	mg/kg		ND			20	
Molybdenum, Total	ND	0.30		0.50	mg/kg		ND			20	
Nickel, Total	0.556	0.45		1.0	mg/kg		0.554		0.3	20	
Selenium, Total	ND	0.46		0.50	mg/kg		ND			20	
Silver, Total	ND	0.30		0.50	mg/kg		ND			20	
Strontium, Total	3.13	0.25		0.50	mg/kg		3.12		0.3	20	
Thallium, Total	ND	0.18		0.50	mg/kg		ND			20	
Vanadium, Total	ND	0.73		1.0	mg/kg		ND			20	
Zinc, Total	18.8	2.3		5.0	mg/kg		19.7		5	20	
<b>Duplicate (W9B0026-DUP3)</b>			<b>Source: 8G13045-07</b>			<b>Prepared: 02/01/19 Analyzed: 03/01/19</b>					
Nickel, Total	0.450	0.45		1.0	mg/kg		0.458		2	20	
<b>Duplicate (W9B0026-DUP4)</b>			<b>Source: 8G27020-02</b>			<b>Prepared: 02/01/19 Analyzed: 03/01/19</b>					
Nickel, Total	0.467	0.45		1.0	mg/kg		0.554		17	20	
<b>Matrix Spike (W9B0026-MS1)</b>			<b>Source: 8G13045-07</b>			<b>Prepared: 02/01/19 Analyzed: 02/20/19</b>					



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Project Manager: Robert Hartssock
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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Qualifier. Includes sections for Matrix Spike (W9B0026-MS1), Matrix Spike (W9B0026-MS2), Matrix Spike Dup (W9B0026-MSD1), and Matrix Spike Dup (W9B0026-MSD2).





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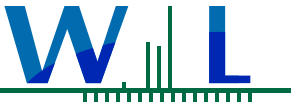
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## Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9B0027 - EPA 6010B (Continued)</b>				Initial: 1 g			Final: 50 ml					
<b>Blank (W9B0027-BLK1)</b>						<b>Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	ND	0.23		5.0	mg/kg							
<b>LCS (W9B0027-BS1)</b>						<b>Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	51.8	0.23		5.0	mg/kg	50.0		104	80-120			
<b>Duplicate (W9B0027-DUP1)</b>						<b>Source: 8G13045-07 Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	ND	0.23		5.0	mg/kg		ND				20	
<b>Duplicate (W9B0027-DUP2)</b>						<b>Source: 8G27020-02 Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	ND	0.23		5.0	mg/kg		ND				20	
<b>Matrix Spike (W9B0027-MS1)</b>						<b>Source: 8G13045-08 Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	57.0	0.23		5.0	mg/kg	49.8	ND	114	75-125			
<b>Matrix Spike Dup (W9B0027-MSD1)</b>						<b>Source: 8G13045-08 Prepared: 02/01/19 Analyzed: 02/21/19</b>						
Lithium, Total	58.3	0.23		5.0	mg/kg	50.4	ND	116	75-125	2	20	



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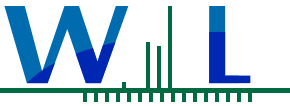
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## Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1613 - EPA 8270C</b>						Initial: 20 g			Final: 1 ml			
<b>Blank (W9A1613-BLK1)</b>						<b>Prepared: 01/29/19 Analyzed: 03/10/19</b>						
2-Naphthylamine	ND	0.50		0.50	mg/kg							
Bis(2-chloroethyl)ether	ND	0.011		0.050	mg/kg							
Bis(2-ethylhexyl)phthalate	ND	0.012		0.050	mg/kg							
Carbazole	ND	0.0090		0.050	mg/kg							
Phenol	ND	0.015		0.050	mg/kg							
Pyridine	ND	0.0050		0.10	mg/kg							
<i>Surrogate(s)</i>												
2,4,6-Tribromophenol	0.313				mg/kg	0.500		63	32-103			
2,4,6-Tribromophenol	0.313				mg/kg	0.500		63	32-103			
2-Fluorobiphenyl	0.201				mg/kg	0.250		80	36-107			
2-Fluorobiphenyl	0.201				mg/kg	0.250		80	36-107			
2-Fluorophenol	0.370				mg/kg	0.500		74	33-119			
2-Fluorophenol	0.370				mg/kg	0.500		74	33-119			
Nitrobenzene-d5	0.198				mg/kg	0.250		79	36-114			
Nitrobenzene-d5	0.198				mg/kg	0.250		79	36-114			
Phenol-d5	0.419				mg/kg	0.500		84	40-118			
Phenol-d5	0.419				mg/kg	0.500		84	40-118			
Terphenyl-d14	0.236				mg/kg	0.250		95	40-121			
Terphenyl-d14	0.236				mg/kg	0.250		95	40-121			
<b>LCS (W9A1613-BS1)</b>						<b>Prepared: 01/29/19 Analyzed: 03/10/19</b>						
Phenol	0.771	0.015		0.050	mg/kg	1.25		62	33-106			
<i>Surrogate(s)</i>												
2,4,6-Tribromophenol	1.51				mg/kg	2.50		60	32-103			
2,4,6-Tribromophenol	1.51				mg/kg	2.50		60	32-103			
2-Fluorobiphenyl	0.774				mg/kg	1.25		62	36-107			
2-Fluorobiphenyl	0.774				mg/kg	1.25		62	36-107			
2-Fluorophenol	1.54				mg/kg	2.50		62	33-119			
2-Fluorophenol	1.54				mg/kg	2.50		62	33-119			
Nitrobenzene-d5	0.796				mg/kg	1.25		64	36-114			
Nitrobenzene-d5	0.796				mg/kg	1.25		64	36-114			
Phenol-d5	1.84				mg/kg	2.50		73	40-118			
Phenol-d5	1.84				mg/kg	2.50		73	40-118			
Terphenyl-d14	1.10				mg/kg	1.25		88	40-121			
Terphenyl-d14	1.10				mg/kg	1.25		88	40-121			
<b>Matrix Spike (W9A1613-MS1)</b>						<b>Source: 8G13045-07 Prepared: 01/29/19 Analyzed: 03/10/19</b>						
Phenol	31.0	0.56		1.9	mg/kg	46.3	ND	67	31-102			M-02
<i>Surrogate(s)</i>												
2,4,6-Tribromophenol	64.4				mg/kg	92.6		70	32-103			M-02
2,4,6-Tribromophenol	64.4				mg/kg	92.6		70	32-103			M-02
2-Fluorobiphenyl	27.2				mg/kg	46.3		59	36-107			M-02
2-Fluorobiphenyl	27.2				mg/kg	46.3		59	36-107			M-02



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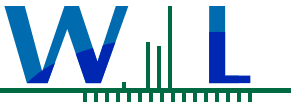
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## Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1613 - EPA 8270C (Continued)</b>					Initial: 0.54 g			Final: 1 ml				
<b>Matrix Spike (W9A1613-MS1)</b>		<b>Source: 8G13045-07</b>			<b>Prepared: 01/29/19</b>		<b>Analyzed: 03/10/19</b>					
<i>Surrogate(s)</i>												
2-Fluorophenol	56.3				mg/kg	92.6		61	33-119			M-02
2-Fluorophenol	56.3				mg/kg	92.6		61	33-119			M-02
Nitrobenzene-d5	29.6				mg/kg	46.3		64	36-114			M-02
Nitrobenzene-d5	29.6				mg/kg	46.3		64	36-114			M-02
Phenol-d5	72.2				mg/kg	92.6		78	40-118			M-02
Phenol-d5	72.2				mg/kg	92.6		78	40-118			M-02
Terphenyl-d14	41.5				mg/kg	46.3		90	40-121			M-02
Terphenyl-d14	41.5				mg/kg	46.3		90	40-121			M-02
<b>Matrix Spike Dup (W9A1613-MSD1)</b>		<b>Source: 8G13045-07</b>			<b>Prepared: 01/29/19</b>		<b>Analyzed: 03/10/19</b>					
Phenol	37.8	0.55		1.8	mg/kg	45.5	ND	83	31-102	20	30	M-02
<i>Surrogate(s)</i>												
2,4,6-Tribromophenol	77.0				mg/kg	90.9		85	32-103			M-02
2,4,6-Tribromophenol	77.0				mg/kg	90.9		85	32-103			M-02
2-Fluorobiphenyl	32.2				mg/kg	45.5		71	36-107			M-02
2-Fluorobiphenyl	32.2				mg/kg	45.5		71	36-107			M-02
2-Fluorophenol	73.1				mg/kg	90.9		80	33-119			M-02
2-Fluorophenol	73.1				mg/kg	90.9		80	33-119			M-02
Nitrobenzene-d5	38.5				mg/kg	45.5		85	36-114			M-02
Nitrobenzene-d5	38.5				mg/kg	45.5		85	36-114			M-02
Phenol-d5	102				mg/kg	90.9		112	40-118			M-02
Phenol-d5	102				mg/kg	90.9		112	40-118			M-02
Terphenyl-d14	44.3				mg/kg	45.5		97	40-121			M-02
Terphenyl-d14	44.3				mg/kg	45.5		97	40-121			M-02



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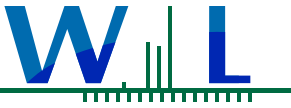
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## Quality Control Results

(Continued)

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1615 - EPA 8270C SIM</b>						Initial: 30 g					Final: 1 ml	
<b>Blank (W9A1615-BLK1)</b>						<b>Prepared: 01/29/19 Analyzed: 03/01/19</b>						
1-Methylnaphthalene	ND	1.0		5.0	ug/kg							
2-Methylnaphthalene	ND	1.0		5.0	ug/kg							
Acenaphthene	ND	1.0		5.0	ug/kg							
Acenaphthylene	ND	1.0		5.0	ug/kg							
Anthracene	ND	1.0		5.0	ug/kg							
Benzo (a) anthracene	ND	1.0		5.0	ug/kg							
Benzo (a) pyrene	ND	1.0		5.0	ug/kg							
Benzo (b) fluoranthene	ND	1.0		5.0	ug/kg							
Benzo (g,h,i) perylene	ND	1.0		5.0	ug/kg							
Benzo (k) fluoranthene	ND	1.0		5.0	ug/kg							
Chrysene	ND	1.0		5.0	ug/kg							
Dibenzo (a,h) anthracene	ND	1.0		5.0	ug/kg							
Fluoranthene	ND	1.0		5.0	ug/kg							
Fluorene	ND	1.0		5.0	ug/kg							
Indeno (1,2,3-cd) pyrene	ND	1.0		5.0	ug/kg							
Naphthalene	ND	1.0		5.0	ug/kg							
Phenanthrene	ND	1.0		5.0	ug/kg							
Pyrene	ND	1.0		5.0	ug/kg							
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	134				ug/kg	167		80	0.1-109			
Nitrobenzene-d5	94.3				ug/kg	167		57	0.1-107			
Terphenyl-d14	147				ug/kg	167		88	28-128			
<b>LCS (W9A1615-BS1)</b>						<b>Prepared: 01/29/19 Analyzed: 03/01/19</b>						
Acenaphthene	253	1.0		5.0	ug/kg	333		76	27-103			
Acenaphthylene	302	1.0		5.0	ug/kg	333		91	29-112			
Anthracene	305	1.0		5.0	ug/kg	333		92	31-119			
Benzo (a) anthracene	325	1.0		5.0	ug/kg	333		98	26-132			
Benzo (a) pyrene	316	1.0		5.0	ug/kg	333		95	19-146			
Benzo (b) fluoranthene	326	1.0		5.0	ug/kg	333		98	40-120			
Benzo (g,h,i) perylene	310	1.0		5.0	ug/kg	333		93	18-135			
Benzo (k) fluoranthene	325	1.0		5.0	ug/kg	333		98	40-120			
Chrysene	358	1.0		5.0	ug/kg	333		107	40-120			
Dibenzo (a,h) anthracene	329	1.0		5.0	ug/kg	333		99	20-137			
Fluoranthene	320	1.0		5.0	ug/kg	333		96	33-123			
Fluorene	276	1.0		5.0	ug/kg	333		83	33-106			
Indeno (1,2,3-cd) pyrene	312	1.0		5.0	ug/kg	333		94	16-136			
Naphthalene	256	1.0		5.0	ug/kg	333		77	22-98			
Phenanthrene	313	1.0		5.0	ug/kg	333		94	32-110			
Pyrene	321	1.0		5.0	ug/kg	333		96	34-122			
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	138				ug/kg	167		83	0.1-109			



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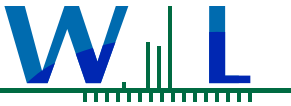
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Quality Control Results

(Continued)

Semivolatle Organics - Low Level by GC/MS SIM Mode (Continued)

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Qualifier. Includes sections for LCS (W9A1615-BS1), Matrix Spike (W9A1615-MS1), and Matrix Spike Dup (W9A1615-MSD1).



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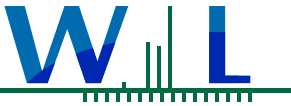
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## Quality Control Results

(Continued)

Semivolatiles Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
<b>Batch: W9A1615 - EPA 8270C SIM (Continued)</b>				<b>Initial: 0.52 g</b>				<b>Final: 1 ml</b>				
<b>Matrix Spike Dup (W9A1615-MSD1)</b>		<b>Source: 8G13045-07</b>			<b>Prepared: 01/29/19 Analyzed: 03/01/19</b>							
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	6130				ug/kg	9620		64	0.1-109			M-02
Nitrobenzene-d5	4770				ug/kg	9620		50	0.1-107			M-02
Terphenyl-d14	8190				ug/kg	9620		85	28-128			M-02



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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1647 - EPA 8260B</b>				<b>Initial: 5 g</b>			<b>Final: 5 ml</b>					
<b>Blank (W9A1647-BLK1)</b>				<b>Prepared: 01/29/19 Analyzed: 02/06/19</b>								
1,1,1,2-Tetrachloroethane	ND	0.60		5.0	ug/kg							
1,1,1-Trichloroethane	ND	1.4		5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	0.92		5.0	ug/kg							
1,1,2-Trichloroethane	ND	1.4		5.0	ug/kg							
1,1-Dichloroethane	ND	0.86		5.0	ug/kg							
1,1-Dichloroethene	ND	1.0		5.0	ug/kg							
1,1-Dichloropropene	ND	1.9		5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	1.0		5.0	ug/kg							
1,2,3-Trichloropropane	ND	1.1		5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	0.94		5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	0.48		5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	1.5		5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	1.6		5.0	ug/kg							
1,2-Dichloroethane	ND	1.2		5.0	ug/kg							
1,2-Dichloropropane	ND	0.94		5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	0.50		5.0	ug/kg							
1,3-Dichloropropane	ND	0.78		5.0	ug/kg							
2,2-Dichloropropane	ND	0.91		5.0	ug/kg							
2-Butanone	ND	1.5		5.0	ug/kg							
2-Chloroethyl vinyl ether	ND	1.0		5.0	ug/kg							
2-Chlorotoluene	ND	0.73		5.0	ug/kg							
2-Hexanone	ND	1.2		5.0	ug/kg							
4-Chlorotoluene	ND	0.70		5.0	ug/kg							
4-Methyl-2-pentanone	ND	1.4		5.0	ug/kg							
Acetone	ND	2.5		5.0	ug/kg							
Acrolein	ND	1.8		5.0	ug/kg							
Acrylonitrile	ND	1.7		5.0	ug/kg							
Benzene	ND	1.4		5.0	ug/kg							
Bromobenzene	ND	0.79		5.0	ug/kg							
Bromochloromethane	ND	0.49		5.0	ug/kg							
Bromodichloromethane	ND	0.72		5.0	ug/kg							
Bromoform	ND	0.81		5.0	ug/kg							
Bromomethane	ND	1.2		5.0	ug/kg							
Carbon tetrachloride	ND	1.6		5.0	ug/kg							
Chlorobenzene	ND	0.59		5.0	ug/kg							
Chloroethane	ND	1.9		5.0	ug/kg							
Chloroform	ND	0.90		5.0	ug/kg							
Chloromethane	ND	0.56		5.0	ug/kg							
cis-1,2-Dichloroethene	ND	1.0		5.0	ug/kg							
cis-1,3-Dichloropropene	ND	0.84		5.0	ug/kg							



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**Reported:**  
 03/13/2019 12:53

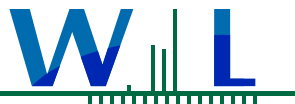
## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1647 - EPA 8260B (Continued)</b>						Initial: 5 g	Final: 5 ml					
<b>Blank (W9A1647-BLK1)</b>						<b>Prepared: 01/29/19 Analyzed: 02/06/19</b>						
Dibromochloromethane	ND	1.6		5.0	ug/kg							
Dibromomethane	ND	1.1		5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	0.82		5.0	ug/kg							
Ethylbenzene	ND	0.36		5.0	ug/kg							
Hexachlorobutadiene	ND	1.1		5.0	ug/kg							
Isopropylbenzene	ND	0.57		5.0	ug/kg							
m,p-Xylene	ND	1.4		5.0	ug/kg							
m-Dichlorobenzene	ND	0.70		5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	1.0		5.0	ug/kg							
Methylene chloride	ND	0.68		5.0	ug/kg							
Naphthalene	ND	1.3		5.0	ug/kg							
n-Butylbenzene	ND	0.64		5.0	ug/kg							
n-Propylbenzene	ND	0.51		5.0	ug/kg							
o-Dichlorobenzene	ND	0.60		5.0	ug/kg							
o-Xylene	ND	0.52		5.0	ug/kg							
p-Dichlorobenzene	ND	0.70		5.0	ug/kg							
p-Isopropyltoluene	ND	0.55		5.0	ug/kg							
sec-Butylbenzene	ND	0.46		5.0	ug/kg							
Styrene	ND	0.78		5.0	ug/kg							
tert-Butylbenzene	ND	0.61		5.0	ug/kg							
Tetrachloroethene	ND	1.5		5.0	ug/kg							
Toluene	ND	1.1		5.0	ug/kg							
trans-1,2-Dichloroethene	ND	1.2		5.0	ug/kg							
trans-1,3-Dichloropropene	ND	1.3		5.0	ug/kg							
Trichloroethene	ND	1.0		5.0	ug/kg							
Trichlorofluoromethane	ND	2.6		5.0	ug/kg							
Vinyl chloride	ND	0.95		5.0	ug/kg							
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	58.3				ug/kg	50.0		117	78-140			
4-Bromofluorobenzene	39.5				ug/kg	50.0		79	85-116			S-11
Dibromofluoromethane	59.0				ug/kg	50.0		118	84-120			
Toluene-d8	51.2				ug/kg	50.0		102	82-120			
<b>LCS (W9A1647-BS1)</b>						<b>Prepared: 01/29/19 Analyzed: 02/06/19</b>						
1,1,1,2-Tetrachloroethane	49.0	0.60		5.0	ug/kg	50.0		98	81-120			
1,1,1-Trichloroethane	49.1	1.4		5.0	ug/kg	50.0		98	78-125			
1,1,2,2-Tetrachloroethane	49.4	0.92		5.0	ug/kg	50.0		99	67-115			
1,1,2-Trichloroethane	53.3	1.4		5.0	ug/kg	50.0		107	85-121			
1,1-Dichloroethane	50.9	0.86		5.0	ug/kg	50.0		102	84-118			
1,1-Dichloroethene	53.0	1.0		5.0	ug/kg	50.0		106	80-123			
1,1-Dichloropropene	46.2	1.9		5.0	ug/kg	50.0		92	79-128			





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Law Offices of McMurtrey, Hartsock & Worth  
2001 22nd Street, Suite 100  
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**Project:** McMurtrey, Hartsock & Worth  
**Project Manager:** Robert Hartsock  
**Work Order(s):** 8G13045

# Certificate of Analysis

FINAL REPORT

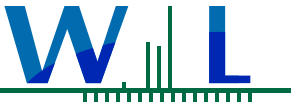
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03/13/2019 12:53

## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1647 - EPA 8260B (Continued)</b>			<b>Initial: 5 g</b>			<b>Final: 5 ml</b>					
<b>LCS (W9A1647-BS1)</b>			<b>Prepared: 01/29/19</b>			<b>Analyzed: 02/06/19</b>					
1,2,3-Trichlorobenzene	44.7	1.0		5.0	ug/kg	50.0		89		36-201	
1,2,3-Trichloropropane	47.6	1.1		5.0	ug/kg	50.0		95		65-115	
1,2,4-Trichlorobenzene	46.4	0.94		5.0	ug/kg	50.0		93		69-143	
1,2,4-Trimethylbenzene	46.6	0.48		5.0	ug/kg	50.0		93		70-119	
1,2-Dibromo-3-chloropropane	47.4	1.5		5.0	ug/kg	50.0		95		62-140	
1,2-Dibromoethane (EDB)	51.8	1.6		5.0	ug/kg	50.0		104		86-125	
1,2-Dichloroethane	53.2	1.2		5.0	ug/kg	50.0		106		74-123	
1,2-Dichloropropane	53.0	0.94		5.0	ug/kg	50.0		106		83-122	
1,3,5-Trimethylbenzene	46.3	0.50		5.0	ug/kg	50.0		93		66-122	
1,3-Dichloropropane	52.4	0.78		5.0	ug/kg	50.0		105		85-122	
2,2-Dichloropropane	52.0	0.91		5.0	ug/kg	50.0		104		78-124	
2-Butanone	54.1	1.5		5.0	ug/kg	50.0		108		65-139	
2-Chloroethyl vinyl ether	42.8	1.0		5.0	ug/kg	50.0		86		62-134	
2-Chlorotoluene	47.2	0.73		5.0	ug/kg	50.0		94		65-118	
2-Hexanone	48.4	1.2		5.0	ug/kg	50.0		97		72-138	
4-Chlorotoluene	48.2	0.70		5.0	ug/kg	50.0		96		71-116	
4-Methyl-2-pentanone	49.4	1.4		5.0	ug/kg	50.0		99		70-133	
Acetone	57.8	2.5		5.0	ug/kg	50.0		116		57-138	
Acrolein	56.6	1.8		5.0	ug/kg	50.0		113		57-139	
Acrylonitrile	48.7	1.7		5.0	ug/kg	50.0		97		78-124	
Benzene	51.1	1.4		5.0	ug/kg	50.0		102		83-121	
Bromobenzene	48.0	0.79		5.0	ug/kg	50.0		96		67-115	
Bromochloromethane	52.4	0.49		5.0	ug/kg	50.0		105		82-117	
Bromodichloromethane	51.7	0.72		5.0	ug/kg	50.0		103		78-122	
Bromoform	51.3	0.81		5.0	ug/kg	50.0		103		83-125	
Bromomethane	51.2	1.2		5.0	ug/kg	50.0		102		58-133	
Carbon tetrachloride	48.6	1.6		5.0	ug/kg	50.0		97		79-126	
Chlorobenzene	50.6	0.59		5.0	ug/kg	50.0		101		84-118	
Chloroethane	50.9	1.9		5.0	ug/kg	50.0		102		58-135	
Chloroform	50.0	0.90		5.0	ug/kg	50.0		100		80-123	
Chloromethane	49.4	0.56		5.0	ug/kg	50.0		99		58-128	
cis-1,2-Dichloroethene	53.2	1.0		5.0	ug/kg	50.0		106		83-120	
cis-1,3-Dichloropropene	49.3	0.84		5.0	ug/kg	50.0		99		88-123	
Dibromochloromethane	52.0	1.6		5.0	ug/kg	50.0		104		83-124	
Dibromomethane	52.3	1.1		5.0	ug/kg	50.0		105		84-123	
Dichlorodifluoromethane (Freon 12)	47.1	0.82		5.0	ug/kg	50.0		94		67-126	
Ethylbenzene	49.2	0.36		5.0	ug/kg	50.0		98		80-120	
Hexachlorobutadiene	40.6	1.1		5.0	ug/kg	50.0		81		70-130	
Isopropylbenzene	44.9	0.57		5.0	ug/kg	50.0		90		66-122	
m,p-Xylene	49.7	1.4		5.0	ug/kg	50.0		99		78-120	



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Work Order(s): 8G13045

Certificate of Analysis

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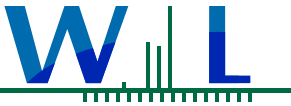
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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Qualifier. Includes sections for LCS (W9A1647-BS1) and LCS Dup (W9A1647-BSD1).



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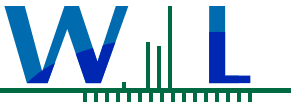
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9A1647 - EPA 8260B (Continued)</b>			<b>Initial: 5 g</b>			<b>Final: 5 ml</b>					
<b>LCS Dup (W9A1647-BSD1)</b>			<b>Prepared: 01/29/19</b>			<b>Analyzed: 02/06/19</b>					
1,2-Dichloropropane	54.6	0.94		5.0	ug/kg	50.0	109	83-122	3	25	
1,3,5-Trimethylbenzene	50.4	0.50		5.0	ug/kg	50.0	101	66-122	8	25	
1,3-Dichloropropane	52.2	0.78		5.0	ug/kg	50.0	104	85-122	0.4	25	
2,2-Dichloropropane	52.7	0.91		5.0	ug/kg	50.0	105	78-124	1	25	
2-Butanone	48.8	1.5		5.0	ug/kg	50.0	98	65-139	10	25	
2-Chloroethyl vinyl ether	46.7	1.0		5.0	ug/kg	50.0	93	62-134	9	25	Q-12
2-Chlorotoluene	51.8	0.73		5.0	ug/kg	50.0	104	65-118	9	25	
2-Hexanone	52.2	1.2		5.0	ug/kg	50.0	104	72-138	8	25	
4-Chlorotoluene	52.3	0.70		5.0	ug/kg	50.0	105	71-116	8	25	
4-Methyl-2-pentanone	51.1	1.4		5.0	ug/kg	50.0	102	70-133	3	25	
Acetone	54.6	2.5		5.0	ug/kg	50.0	109	57-138	6	25	
Acrolein	54.2	1.8		5.0	ug/kg	50.0	108	57-139	4	25	
Acrylonitrile	47.5	1.7		5.0	ug/kg	50.0	95	78-124	2	25	
Benzene	52.0	1.4		5.0	ug/kg	50.0	104	83-121	2	25	
Bromobenzene	51.5	0.79		5.0	ug/kg	50.0	103	67-115	7	25	
Bromochloromethane	52.9	0.49		5.0	ug/kg	50.0	106	82-117	1	25	
Bromodichloromethane	52.0	0.72		5.0	ug/kg	50.0	104	78-122	0.5	25	
Bromoform	51.1	0.81		5.0	ug/kg	50.0	102	83-125	0.4	25	
Bromomethane	52.0	1.2		5.0	ug/kg	50.0	104	58-133	2	25	
Carbon tetrachloride	49.0	1.6		5.0	ug/kg	50.0	98	79-126	0.9	25	
Chlorobenzene	52.2	0.59		5.0	ug/kg	50.0	104	84-118	3	25	
Chloroethane	51.1	1.9		5.0	ug/kg	50.0	102	58-135	0.5	25	
Chloroform	50.6	0.90		5.0	ug/kg	50.0	101	80-123	1	25	
Chloromethane	50.9	0.56		5.0	ug/kg	50.0	102	58-128	3	25	
cis-1,2-Dichloroethene	54.7	1.0		5.0	ug/kg	50.0	109	83-120	3	25	
cis-1,3-Dichloropropene	51.8	0.84		5.0	ug/kg	50.0	104	88-123	5	25	
Dibromochloromethane	52.1	1.6		5.0	ug/kg	50.0	104	83-124	0.2	25	
Dibromomethane	51.1	1.1		5.0	ug/kg	50.0	102	84-123	2	25	
Dichlorodifluoromethane (Freon 12)	49.7	0.82		5.0	ug/kg	50.0	99	67-126	5	25	
Ethylbenzene	51.2	0.36		5.0	ug/kg	50.0	102	80-120	4	25	
Hexachlorobutadiene	46.2	1.1		5.0	ug/kg	50.0	92	70-130	13	25	
Isopropylbenzene	49.6	0.57		5.0	ug/kg	50.0	99	66-122	10	25	
m,p-Xylene	51.8	1.4		5.0	ug/kg	50.0	104	78-120	4	25	
m-Dichlorobenzene	53.1	0.70		5.0	ug/kg	50.0	106	75-119	8	25	
Methyl tert-butyl ether (MTBE)	49.3	1.0		5.0	ug/kg	50.0	99	83-122	4	25	
Methylene chloride	50.5	0.68		5.0	ug/kg	50.0	101	76-118	1	25	
Naphthalene	54.9	1.3		5.0	ug/kg	50.0	110	42-190	39	25	Q-12
n-Butylbenzene	49.4	0.64		5.0	ug/kg	50.0	99	68-119	12	25	
n-Propylbenzene	49.9	0.51		5.0	ug/kg	50.0	100	64-120	8	25	
o-Dichlorobenzene	52.9	0.60		5.0	ug/kg	50.0	106	77-117	7	25	



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**Project:** McMurtrey, Hartssock & Worth  
**Project Manager:** Robert Hartssock  
**Work Order(s):** 8G13045

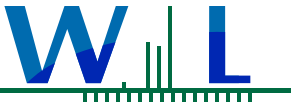
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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier	
<b>Batch: W9A1647 - EPA 8260B (Continued)</b>					Initial: 5 g			Final: 5 ml				
<b>LCS Dup (W9A1647-BSD1)</b>					Prepared: 01/29/19			Analyzed: 02/06/19				
o-Xylene	51.9	0.52		5.0	ug/kg	50.0		104 77-126	4	25		
p-Dichlorobenzene	53.5	0.70		5.0	ug/kg	50.0		107 76-119	8	25		
p-Isopropyltoluene	49.3	0.55		5.0	ug/kg	50.0		99 70-123	11	25		
sec-Butylbenzene	48.3	0.46		5.0	ug/kg	50.0		97 67-120	10	25		
Styrene	52.8	0.78		5.0	ug/kg	50.0		106 84-125	3	25		
tert-Butylbenzene	47.9	0.61		5.0	ug/kg	50.0		96 70-119	10	25		
Tetrachloroethene	49.4	1.5		5.0	ug/kg	50.0		99 80-129	2	25		
Toluene	50.7	1.1		5.0	ug/kg	50.0		101 81-126	1	25		
trans-1,2-Dichloroethene	52.2	1.2		5.0	ug/kg	50.0		104 82-123	2	25		
trans-1,3-Dichloropropene	59.0	1.3		5.0	ug/kg	50.0		118 81-131	2	25		
Trichloroethene	50.4	1.0		5.0	ug/kg	50.0		101 82-118	4	25		
Trichlorofluoromethane	51.3	2.6		5.0	ug/kg	50.0		103 72-129	0.04	25		
Vinyl chloride	49.7	0.95		5.0	ug/kg	50.0		99 63-130	4	25		
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	49.1				ug/kg	50.0		98 78-140				
4-Bromofluorobenzene	50.8				ug/kg	50.0		102 85-116				
Dibromofluoromethane	49.6				ug/kg	50.0		99 84-120				
Toluene-d8	49.6				ug/kg	50.0		99 82-120				
<b>Batch: W9B1577 - EPA 8260B</b>					Initial: 5 g			Final: 5 ml				
<b>Blank (W9B1577-BLK1)</b>					Prepared: 01/29/19			Analyzed: 02/06/19				
Ethyl acetate	ND			5.0	ug/kg					30		
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	56.8				ug/kg	50.0		114 78-140				
4-Bromofluorobenzene	46.6				ug/kg	50.0		93 85-116				
Dibromofluoromethane	56.7				ug/kg	50.0		113 84-120				
Toluene-d8	50.3				ug/kg	50.0		101 82-120				
<b>Blank (W9B1577-BLK2)</b>					Prepared: 01/29/19			Analyzed: 02/07/19				
Ethyl acetate	0.978				ug/kg						QC-2	
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	52.1				ug/kg	50.0		104 78-140				
4-Bromofluorobenzene	46.4				ug/kg	50.0		93 85-116				
Dibromofluoromethane	55.6				ug/kg	50.0		111 84-120				
Toluene-d8	50.4				ug/kg	50.0		101 82-120				
<b>LCS (W9B1577-BS1)</b>					Prepared: 01/29/19			Analyzed: 02/06/19				
Ethyl acetate	61.3			5.0	ug/kg	50.0		123 70-130		30		
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	55.3				ug/kg	50.0		111 78-140				
4-Bromofluorobenzene	47.1				ug/kg	50.0		94 85-116				
Dibromofluoromethane	55.1				ug/kg	50.0		110 84-120				
Toluene-d8	49.7				ug/kg	50.0		99 82-120				
<b>LCS (W9B1577-BS2)</b>					Prepared: 01/29/19 Analyzed: 02/07/19							



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**Project Manager:** Robert Hartsock  
**Work Order(s):** 8G13045

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## Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: W9B1577 - EPA 8260B (Continued)</b>				Initial: 5 g			Final: 5 ml				
<b>LCS (W9B1577-BS2)</b>						Prepared: 01/29/19		Analyzed: 02/07/19			
Ethyl acetate	56.6			5.0	ug/kg	50.0		113	70-130	30	QC-2
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	52.2				ug/kg	50.0		104	78-140		
4-Bromofluorobenzene	48.0				ug/kg	50.0		96	85-116		
Dibromofluoromethane	54.2				ug/kg	50.0		108	84-120		
Toluene-d8	50.5				ug/kg	50.0		101	82-120		
<b>LCS Dup (W9B1577-BSD1)</b>						Prepared: 01/29/19		Analyzed: 02/06/19			
Ethyl acetate	62.2			5.0	ug/kg	50.0		124	70-130	1	30
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	54.7				ug/kg	50.0		109	78-140		
4-Bromofluorobenzene	47.8				ug/kg	50.0		96	85-116		
Dibromofluoromethane	55.0				ug/kg	50.0		110	84-120		
Toluene-d8	49.4				ug/kg	50.0		99	82-120		



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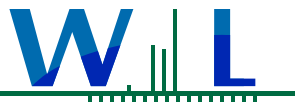
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## Analyte List

Analyte	CAS Number	TIC	Surrogate
1,1,1,2-Tetrachloroethane	630-20-6		
1,1,1-Trichloroethane	71-55-6		
1,1,2,2-Tetrachloroethane	79-34-5		
1,1,2-Trichloroethane	79-00-5		
1,1-Dichloroethane	75-34-3		
1,1-Dichloroethene	75-35-4		
1,1-Dichloropropene	563-58-6		
1,2,3-Trichlorobenzene	87-61-6		
1,2,3-Trichloropropane	96-18-4		
1,2,4,5-Tetrachlorobenzene	95-94-3		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trimethylbenzene	95-63-6		
1,2-Dibromo-3-chloropropane	96-12-8		
1,2-Dibromoethane (EDB)	106-93-4		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichloroethane	107-06-2		
1,2-Dichloroethane-d4	17060-07-0		✓
1,2-Dichloropropane	78-87-5		
1,2-Diphenylhydrazine/Azobenzene	122-66-7		
1,3,5-Trimethylbenzene	108-67-8		
1,3,5-Trinitrobenzene	99-35-4		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichloropropane	142-28-9		
1,3-Dichloropropene, Total	542-75-6		
1,3-Dinitrobenzene	99-65-0		
1,4-Dichlorobenzene	106-46-7		
1,4-Dichlorobenzene	106-46-7		
1,4-Dioxane	123-91-1		
1,4-Naphthoquinone	130-15-4		
1,4-Phenylenediamine	106-50-3		
1-Methylnaphthalene	90-12-0		
1-Methylnaphthalene	90-12-0		
1-Methylphenanthrene	832-69-9		
1-Naphthylamine	134-32-7		
2,2-Dichloropropane	594-20-7		
2,3,4,6-Tetrachlorophenol	58-90-2		
2,4,5-Trichlorophenol	95-95-4		
2,4,5-Trichlorophenol	95-95-4		
2,4,6-Tribromophenol	118-79-6		✓
2,4,6-Tribromophenol	118-79-6		✓
2,4,6-Trichlorophenol	88-06-2		
2,4,6-Trichlorophenol	88-06-2		
2,4-Dichlorophenol	120-83-2		



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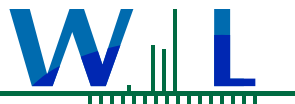
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## Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
2,4-Dichlorophenol	120-83-2		
2,4-Dimethylphenol	105-67-9		
2,4-Dimethylphenol	105-67-9		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,6-Dichlorophenol	87-65-0		
2,6-Dimethylnaphthalene	581-42-0		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2-Acetylaminofluorene	53-96-3		
2-Butanone	78-93-3		
2-Chloroethyl vinyl ether	110-75-8		
2-Chloronaphthalene	91-58-7		
2-Chloronaphthalene	91-58-7		
2-Chlorophenol	95-57-8		
2-Chlorophenol	95-57-8		
2-Chlorotoluene	95-49-8		
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorophenol	367-12-4		✓
2-Fluorophenol	367-12-4		✓
2-Hexanone	591-78-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylphenol	95-48-7		
2-Methylphenol	95-48-7		
2-Naphthylamine	91-59-8		
2-Nitroaniline	88-74-4		
2-Nitroaniline	88-74-4		
2-Nitrophenol	88-75-5		
2-Nitrophenol	88-75-5		
2-Picoline	109-06-8		
3 & 4-Methylphenol	NA		
3 & 4-Methylphenol	NA		
3,3'- Dimethylbenzidine	119-93-7		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dichlorobenzidine	91-94-1		
3-Methylcholanthrene	56-49-5		
3-Nitroaniline	99-09-2		
3-Nitroaniline	99-09-2		
4,4'-DDD	72-54-8		
4,4'-DDE	72-55-9		
4,4'-DDT	50-29-3		



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## Analyte List

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Analyte	CAS Number	TIC	Surrogate
4,6-Dinitro-2-methylphenol	534-52-1		
4,6-Dinitro-2-methylphenol	534-52-1		
4-Aminobiphenyl	92-67-1		
4-Bromofluorobenzene	460-00-4		✓
4-Bromophenyl phenyl ether	101-55-3		
4-Bromophenyl phenyl ether	101-55-3		
4-Chloro-3-methylphenol	59-50-7		
4-Chloro-3-methylphenol	59-50-7		
4-Chloroaniline	106-47-8		
4-Chloroaniline	106-47-8		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorotoluene	106-43-4		
4-Methyl-2-pentanone	108-10-1		
4-Nitroaniline	100-01-6		
4-Nitroaniline	100-01-6		
4-Nitrophenol	100-02-7		
4-Nitrophenol	100-02-7		
4-Nitroquinoline-n-oxide	56-57-5		
5-Nitro-o-toluidine	99-55-8		
7,12-Dimethylbenz (a) anthracene	57-97-6		
a,a-Dimethylphenethylamine	122-09-8		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acetone	67-64-1		
Acetophenone	98-86-2		
Acrolein	107-02-8		
Acrylamide	79-06-1		
Acrylonitrile	107-13-1		
Aldrin	309-00-2		
alpha-BHC	319-84-6		
Aniline	62-53-3		
Aniline	62-53-3		
Anthracene	120-12-7		
Anthracene	120-12-7		
Anthracene	120-12-7		
Antimony, Total	7440-36-0		
Aramite	140-57-8		
Arsenic, Total	7440-38-2		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Barium, Total	7440-39-3		
Benzene	71-43-2		





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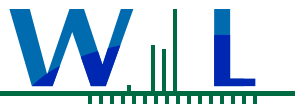
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## Analyte List

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Analyte	CAS Number	TIC	Surrogate
Benzidine	92-87-5		
Benzidine	92-87-5		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (e) pyrene	192-97-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzoic acid	65-85-0		
Benzoic acid	65-85-0		
Benzyl alcohol	100-51-6		
Benzyl alcohol	100-51-6		
Beryllium, Total	7440-41-7		
beta-BHC	319-85-7		
Biphenyl	92-52-4		
Bis(2-chloroethoxy)methane	111-91-1		
Bis(2-chloroethoxy)methane	111-91-1		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bromobenzene	108-86-1		
Bromochloromethane	74-97-5		
Bromodichloromethane	75-27-4		
Bromoform	75-25-2		
Bromomethane	74-83-9		
Butyl benzyl phthalate	85-68-7		
Butyl benzyl phthalate	85-68-7		
Cadmium, Total	7440-43-9		
Carbazole	86-74-8		
Carbon tetrachloride	56-23-5		
Chlorobenzene	108-90-7		
Chlorobenzilate	510-15-6		
Chloroethane	75-00-3		
Chloroform	67-66-3		



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## Analyte List

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Analyte	CAS Number	TIC	Surrogate
Chloromethane	74-87-3		
Chromium, Total	7440-47-3		
Chrysene	218-01-9		
Chrysene	218-01-9		
Chrysene	218-01-9		
cis-1,2-Dichloroethene	156-59-2		
cis-1,3-Dichloropropene	10061-01-5		
Cobalt, Total	7440-48-4		
Copper, Total	7440-50-8		
delta-BHC	319-86-8		
Diallate (cis or trans)	2303-16-4		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzofuran	132-64-9		
Dibenzofuran	132-64-9		
Dibromochloromethane	124-48-1		
Dibromofluoromethane	1868-53-7		✓
Dibromomethane	74-95-3		
Dichlorodifluoromethane (Freon 12)	75-71-8		
Dieldrin	60-57-1		
Diethyl phthalate	84-66-2		
Diethyl phthalate	84-66-2		
Dimethoate	60-51-5		
Dimethyl phthalate	131-11-3		
Dimethyl phthalate	131-11-3		
Dimethylaminoazobenzene	60-11-7		
Di-n-butyl phthalate	84-74-2		
Di-n-butyl phthalate	84-74-2		
Di-n-octyl phthalate	117-84-0		
Di-n-octyl phthalate	117-84-0		
Diphenylamine	122-39-4		
Diphenylamine/N-Nitrosodiphenylamine	122-39-4		
Disulfoton	298-04-4		
Endosulfan I	959-98-8		
Endosulfan II	33213-65-9		
Endosulfan sulfate	1031-07-8		
Endrin	72-20-8		
Endrin aldehyde	7421-93-4		
Ethanol	64-17-5		
Ethyl acetate	141-78-6		
Ethyl methanesulfonate	62-50-0		
Ethylbenzene	100-41-4		
Famphur	52-85-7		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		



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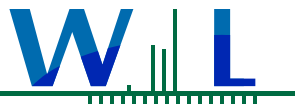
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## Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
gamma-BHC (Lindane)	58-89-9		
Heptachlor	76-44-8		
Heptachlor epoxide	1024-57-3		
Hexachlorobenzene	118-74-1		
Hexachlorobenzene	118-74-1		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorocyclopentadiene	77-47-4		
Hexachlorocyclopentadiene	77-47-4		
Hexachloroethane	67-72-1		
Hexachloroethane	67-72-1		
Hexachlorophene	70-30-4		
Hexachloropropene	1888-71-7		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Isodrin	465-73-6		
Isophorone	78-59-1		
Isophorone	78-59-1		
Isopropyl alcohol	67-63-0		
Isopropylbenzene	98-82-8		
Isosafrole	120-58-1		
Kepone	143-50-0		
Lead, Total	7439-92-1		
Lithium, Total	7439-93-2		
m,p-Xylene	179601-23-1		
m-Dichlorobenzene	541-73-1		
Methanol	67-56-1		
Methapyrilene	91-80-5		
Methoxychlor	72-43-5		
Methyl methanesulfonate	66-27-3		
Methyl parathion	298-00-0		
Methyl tert-butyl ether (MTBE)	1634-04-4		
Methylene chloride	75-09-2		
Molybdenum, Total	7439-98-7		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
n-Butylbenzene	104-51-8		
Nickel, Total	7440-02-0		
Nitrobenzene	98-95-3		
Nitrobenzene	98-95-3		



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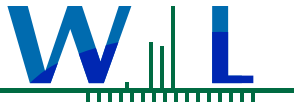
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## Analyte List

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Analyte	CAS Number	TIC	Surrogate
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
N-Nitrosodiethylamine	55-18-5		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodi-n-butylamine	924-16-3		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodiphenylamine	86-30-6		
N-Nitrosomethylethylamine	10595-95-6		
N-Nitrosomorpholine	59-89-2		
N-Nitrosopiperidine	100-75-4		
N-Nitrosopyrrolidine	930-55-2		
n-Propylbenzene	103-65-1		
o,o,o-Triethyl phosphorothioate	126-68-1		
o,o-Diethyl o-2-pyrazinylphosphorothioate	297-97-2		
o-Dichlorobenzene	95-50-1		
o-Toluidine	95-53-4		
o-Xylene	95-47-6		
Parathion	56-38-2		
p-Dichlorobenzene	106-46-7		
Pentachlorobenzene	608-93-5		
Pentachloroethane	76-01-7		
Pentachloronitrobenzene (PCNB)	82-68-8		
Pentachlorophenol	87-86-5		
Pentachlorophenol	87-86-5		
Perylene	198-55-0		
Phenacetin	62-44-2		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenol	108-95-2		
Phenol	108-95-2		
Phenol-d5	4165-62-2		✓
Phenol-d5	4165-62-2		✓
Phorate	298-02-2		
p-Isopropyltoluene	99-87-6		
Pronamide	23950-58-5		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyridine	110-86-1		
Pyridine	110-86-1		
Safrole	94-59-7		
sec-Butylbenzene	135-98-8		
Selenium, Total	7782-49-2		



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## Analyte List

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Analyte	CAS Number	TIC	Surrogate
Silver, Total	7440-22-4		
Strontium, Total	7440-24-6		
Styrene	100-42-5		
Sulfotep	3689-24-5		
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
tert-Butylbenzene	98-06-6		
Tetrachloroethene	127-18-4		
Thallium, Total	7440-28-0		
Toluene	108-88-3		
Toluene-d8	2037-26-5		✓
trans-1,2-Dichloroethene	156-60-5		
trans-1,3-Dichloropropene	10061-02-6		
Trichloroethene	79-01-6		
Trichlorofluoromethane	75-69-4		
Vanadium, Total	7440-62-2		
Vinyl chloride	75-01-4		
Zinc, Total	7440-66-6		



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## Notes and Definitions

Item	Definition
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.  
 An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)  
 All results are expressed on wet weight basis unless otherwise specified.  
 All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

## Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	By ANAB
<b>EPA 8316M in Solid</b> Acrylamide	79-06-1	✓	