



Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

17 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16H0121

Enclosed are the results of analyses for samples received by the laboratory on 08/01/16 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



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West Bay Sanitary District  
500 Laurel Street  
Menlo Park, CA 94025

Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: -

Reported:  
08/17/16 09:19

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13223 Grab 080116	16H0121-01	Water	08/01/16 11:00	08/01/16 21:00



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08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 Grab 080116 (16H0121-01)								
Conventional Chemistry Parameters by APHA/EPA Methods			Sample Type: Water		Sampled: 08/01/16 11:00			
Hydrogen sulfide	ND mg/L	0.0200	1	AH63653	08/15/16 10:47	08/15/16 10:48	SM4500-S2 H	
pH	7.30 pH Units	1.68	1	AH63286	08/02/16 16:00	08/02/16 17:00	SM4500-H+ B	T-14
Sulfide, dissolved	ND mg/L	0.20	2	AH63259	08/02/16 11:45	08/03/16 15:00	SM4500SD	T-13
Volatile Organic Compounds by EPA Method 624								
Acetone	48 ug/L	5.0	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Benzene	ND ug/L	0.30	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Bromodichloromethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Bromoform	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Bromomethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Carbon tetrachloride	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Chlorobenzene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Chloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Chloroform	3.8 ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Chloromethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Dibromochloromethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,2-Dibromoethane (EDB)	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,2-Dichlorobenzene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,3-Dichlorobenzene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,4-Dichlorobenzene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,1-Dichloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,2-Dichloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,1-Dichloroethene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
cis-1,2-Dichloroethene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
trans-1,2-Dichloroethene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,2-Dichloropropane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
cis-1,3-Dichloropropene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
trans-1,3-Dichloropropene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,3-Dichloropropene (total)	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Ethylbenzene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Methyl ethyl ketone	4.9 ug/L	1.0	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Methyl isobutyl ketone	ND ug/L	1.0	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Methylene chloride	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Styrene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,1,2,2-Tetrachloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Tetrachloroethene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Toluene	1.7 ug/L	0.30	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
1,1,1-Trichloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	

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Project: WQ Monitoring  
Project Number: -

Reported:  
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 Grab 080116 (16H0121-01)		Sample Type: Water			Sampled: 08/01/16 11:00			
Volatile Organic Compounds by EPA Method 624 (cont'd)								
1,1,2-Trichloroethane	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Trichloroethene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Vinyl chloride	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
o-Xylene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
m,p-Xylene	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Xylenes (total)	ND ug/L	0.50	1	AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Surrogate: Bromofluorobenzene	97.7 %	81-135		AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Surrogate: Dibromofluoromethane	84.6 %	46-130		AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	
Surrogate: Toluene-d8	90.7 %	59-132		AH63415	08/08/16 11:00	08/09/16 04:53	EPA 624	



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### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63259 - General Preparation</b>										
<b>Blank (AH63259-BLK1)</b>				Prepared & Analyzed: 08/03/16						
Sulfide, dissolved	ND	0.10	mg/L							
<b>LCS (AH63259-BS1)</b>				Prepared & Analyzed: 08/03/16						
Sulfide, dissolved	0.401	0.10	mg/L	0.444		90.3	80-120			
<b>Duplicate (AH63259-DUP1)</b>				<b>Source: 16G2281-01</b>		Prepared & Analyzed: 08/03/16				
Sulfide, dissolved	ND	0.10	mg/L		ND				15	
<b>Matrix Spike (AH63259-MS1)</b>				<b>Source: 16G2281-01</b>		Prepared & Analyzed: 08/03/16				
Sulfide, dissolved	0.245	0.10	mg/L	0.444	ND	55.2	80-120			QM-05
<b>Matrix Spike Dup (AH63259-MSD1)</b>				<b>Source: 16G2281-01</b>		Prepared & Analyzed: 08/03/16				
Sulfide, dissolved	0.247	0.10	mg/L	0.444	ND	55.6	80-120	0.813	15	QM-05
<b>Batch AH63286 - General Preparation</b>										
<b>Duplicate (AH63286-DUP1)</b>				<b>Source: 16H0179-01</b>		Prepared & Analyzed: 08/02/16				
pH	7.72	1.68	pH Units		7.50			2.89	20	T-14



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### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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#### Batch AH63415 - VOAs in Water GCMS

##### Blank (AH63415-BLK1)

Prepared & Analyzed: 08/08/16

Acetone	ND	5.0	ug/L
Benzene	ND	0.30	ug/L
Bromodichloromethane	ND	0.50	ug/L
Bromoform	ND	0.50	ug/L
Bromomethane	ND	0.50	ug/L
Carbon tetrachloride	ND	0.50	ug/L
Chlorobenzene	ND	0.50	ug/L
Chloroethane	ND	0.50	ug/L
Chloroform	ND	0.50	ug/L
Chloromethane	ND	0.50	ug/L
Dibromochloromethane	ND	0.50	ug/L
1,2-Dibromoethane (EDB)	ND	0.50	ug/L
1,2-Dichlorobenzene	ND	0.50	ug/L
1,3-Dichlorobenzene	ND	0.50	ug/L
1,4-Dichlorobenzene	ND	0.50	ug/L
1,1-Dichloroethane	ND	0.50	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	0.50	ug/L
cis-1,2-Dichloroethene	ND	0.50	ug/L
trans-1,2-Dichloroethene	ND	0.50	ug/L
1,2-Dichloropropane	ND	0.50	ug/L
cis-1,3-Dichloropropene	ND	0.50	ug/L
trans-1,3-Dichloropropene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
1,3-Dichloropropene (total)	ND	0.50	ug/L
Methyl ethyl ketone	ND	1.0	ug/L
Methyl isobutyl ketone	ND	1.0	ug/L
Methylene chloride	ND	0.50	ug/L
Styrene	ND	0.50	ug/L
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L
Tetrachloroethene	ND	0.50	ug/L
Toluene	ND	0.30	ug/L
1,1,1-Trichloroethane	ND	0.50	ug/L

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### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>Blank (AH63415-BLK1)</b>				Prepared & Analyzed: 08/08/16						
1,1,2-Trichloroethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
m,p-Xylene	ND	0.50	ug/L							
Xylenes (total)	ND	0.50	ug/L							
Surrogate: Bromofluorobenzene	24.1		ug/L	25.0		96.4	81-135			
Surrogate: Dibromofluoromethane	20.6		ug/L	25.0		82.6	46-130			
Surrogate: Toluene-d8	23.2		ug/L	25.0		92.6	59-132			
<b>LCS (AH63415-BS1)</b>				Prepared & Analyzed: 08/08/16						
Acetone	62.9	5.0	ug/L	80.0		78.6	48-124			
Benzene	20.5	0.30	ug/L	20.0		102	82-122			
Bromodichloromethane	19.4	0.50	ug/L	20.0		97.2	86-135			
Bromoform	19.4	0.50	ug/L	20.0		97.0	76-144			
Bromomethane	19.9	0.50	ug/L	20.0		99.4	69-145			
Carbon tetrachloride	20.4	0.50	ug/L	20.0		102	77-134			
Chlorobenzene	19.8	0.50	ug/L	20.0		98.8	84-119			
Chloroethane	19.2	0.50	ug/L	20.0		96.0	68-133			
Chloroform	19.2	0.50	ug/L	20.0		96.0	81-122			
Chloromethane	18.6	0.50	ug/L	20.0		93.0	63-129			
Dibromochloromethane	19.9	0.50	ug/L	20.0		99.6	83-135			
1,2-Dibromoethane (EDB)	20.0	0.50	ug/L	20.0		100	80-120			
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.0		100	84-121			
1,3-Dichlorobenzene	20.5	0.50	ug/L	20.0		103	80-120			
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.0		98.3	84-120			
1,1-Dichloroethane	19.6	0.50	ug/L	20.0		98.0	81-126			
1,2-Dichloroethane	18.9	0.50	ug/L	20.0		94.4	77-117			
1,1-Dichloroethene	19.7	0.50	ug/L	20.0		98.3	71-151			
cis-1,2-Dichloroethene	19.5	0.50	ug/L	20.0		97.4	84-131			
trans-1,2-Dichloroethene	19.3	0.50	ug/L	20.0		96.4	79-128			
1,2-Dichloropropane	20.1	0.50	ug/L	20.0		100	82-125			
cis-1,3-Dichloropropene	21.1	0.50	ug/L	20.0		105	83-128			

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08/17/16 09:19

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>LCS (AH63415-BS1)</b>				Prepared & Analyzed: 08/08/16						
trans-1,3-Dichloropropene	20.1	0.50	ug/L	20.0		101	67-129			
Ethylbenzene	21.2	0.50	ug/L	20.0		106	84-124			
Methyl ethyl ketone	33.7	1.0	ug/L	40.0		84.4	58-157			
Methyl isobutyl ketone	37.9	1.0	ug/L	40.0		94.8	70-130			
Methylene chloride	20.3	0.50	ug/L	20.0		101	72-132			
Styrene	22.9	0.50	ug/L	20.0		114	80-125			
1,1,2,2-Tetrachloroethane	18.6	0.50	ug/L	20.0		93.0	84-115			
Tetrachloroethene	21.0	0.50	ug/L	20.0		105	56-156			
Toluene	21.3	0.30	ug/L	20.0		107	76-137			
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.0		103	70-130			
1,1,2-Trichloroethane	19.5	0.50	ug/L	20.0		97.7	83-122			
Vinyl chloride	19.6	0.50	ug/L	20.0		97.8	70-130			
Trichloroethene	20.7	0.50	ug/L	20.0		104	84-123			
o-Xylene	21.9	0.50	ug/L	20.0		110	80-126			
m,p-Xylene	44.4	0.50	ug/L	40.0		111	81-124			
Xylenes (total)	66.3	0.50	ug/L	60.0		111	81-126			
Surrogate: Bromofluorobenzene	24.9		ug/L	25.0		99.8	81-135			
Surrogate: Dibromofluoromethane	20.7		ug/L	25.0		82.8	46-130			
Surrogate: Toluene-d8	22.5		ug/L	25.0		90.2	59-132			
<b>LCS Dup (AH63415-BS1)</b>				Prepared & Analyzed: 08/08/16						
Acetone	66.8	5.0	ug/L	80.0		83.5	48-124	6.08	25	
Benzene	20.1	0.30	ug/L	20.0		101	82-122	1.87	25	
Bromodichloromethane	20.0	0.50	ug/L	20.0		99.8	86-135	2.54	25	
Bromoform	20.0	0.50	ug/L	20.0		99.8	76-144	2.85	25	
Bromomethane	20.5	0.50	ug/L	20.0		103	69-145	3.17	25	
Carbon tetrachloride	20.3	0.50	ug/L	20.0		101	77-134	0.737	25	
Chlorobenzene	19.4	0.50	ug/L	20.0		97.2	84-119	1.73	25	
Chloroethane	18.8	0.50	ug/L	20.0		93.8	68-133	2.42	25	
Chloroform	19.3	0.50	ug/L	20.0		96.6	81-122	0.519	25	
Chloromethane	18.1	0.50	ug/L	20.0		90.3	63-129	3.00	25	
Dibromochloromethane	19.7	0.50	ug/L	20.0		98.7	83-135	0.908	25	
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20.0		101	80-120	1.14	25	

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Project Number: -

Reported:  
08/17/16 09:19

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>LCS Dup (AH63415-BSD1)</b>				Prepared & Analyzed: 08/08/16						
1,2-Dichlorobenzene	20.3	0.50	ug/L	20.0		101	84-121	1.34	25	
1,3-Dichlorobenzene	20.5	0.50	ug/L	20.0		102	80-120	0.0975	25	
1,4-Dichlorobenzene	19.3	0.50	ug/L	20.0		96.6	84-120	1.80	25	
1,1-Dichloroethane	19.8	0.50	ug/L	20.0		98.8	81-126	0.864	25	
1,2-Dichloroethane	19.1	0.50	ug/L	20.0		95.4	77-117	1.05	25	
1,1-Dichloroethene	19.7	0.50	ug/L	20.0		98.3	71-151	0.00	25	
cis-1,2-Dichloroethene	19.6	0.50	ug/L	20.0		97.9	84-131	0.461	25	
trans-1,2-Dichloroethene	19.6	0.50	ug/L	20.0		98.2	79-128	1.80	25	
1,2-Dichloropropane	20.1	0.50	ug/L	20.0		100	82-125	0.0498	25	
cis-1,3-Dichloropropene	21.2	0.50	ug/L	20.0		106	83-128	0.473	25	
trans-1,3-Dichloropropene	20.4	0.50	ug/L	20.0		102	67-129	1.48	25	
Ethylbenzene	21.1	0.50	ug/L	20.0		105	84-124	0.662	25	
Methyl ethyl ketone	36.4	1.0	ug/L	40.0		91.0	58-157	7.53	25	
Methyl isobutyl ketone	40.7	1.0	ug/L	40.0		102	70-130	7.02	25	
Methylene chloride	19.8	0.50	ug/L	20.0		99.2	72-132	2.15	25	
Styrene	22.7	0.50	ug/L	20.0		113	80-125	0.922	25	
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.0		99.1	84-115	6.30	25	
Tetrachloroethene	20.6	0.50	ug/L	20.0		103	56-156	2.36	25	
Toluene	21.1	0.30	ug/L	20.0		106	76-137	1.04	25	
1,1,2-Trichloroethane	20.0	0.50	ug/L	20.0		100	83-122	2.43	25	
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.0		103	70-130	0.0483	25	
Vinyl chloride	18.5	0.50	ug/L	20.0		92.4	70-130	5.78	25	
Trichloroethene	20.2	0.50	ug/L	20.0		101	84-123	2.39	25	
o-Xylene	22.0	0.50	ug/L	20.0		110	80-126	0.410	25	
m,p-Xylene	43.7	0.50	ug/L	40.0		109	81-124	1.63	25	
Xylenes (total)	65.7	0.50	ug/L	60.0		110	81-126	0.954	25	
Surrogate: Bromofluorobenzene	24.9		ug/L	25.0		99.7	81-135			
Surrogate: Dibromofluoromethane	20.6		ug/L	25.0		82.6	46-130			
Surrogate: Toluene-d8	22.5		ug/L	25.0		90.1	59-132			

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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: -

Reported:  
08/17/16 09:19

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>Matrix Spike (AH63415-MS1)</b>		<b>Source: 16H0424-12</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
Acetone	64.3	5.0	ug/L	80.0	ND	80.4	32-164			
Benzene	21.3	0.30	ug/L	20.0	ND	107	58-139			
Bromodichloromethane	20.7	0.50	ug/L	20.0	ND	103	62-140			
Bromoform	21.1	0.50	ug/L	20.0	ND	106	47-165			
Bromomethane	2.42	0.50	ug/L	20.0	ND	12.1	30-163			QM-05
Carbon tetrachloride	21.9	0.50	ug/L	20.0	ND	110	65-153			
Chlorobenzene	20.7	0.50	ug/L	20.0	ND	104	58-137			
Chloroethane	19.0	0.50	ug/L	20.0	ND	95.2	59-141			
Chloroform	23.6	0.50	ug/L	20.0	3.22	102	36-151			
Chloromethane	16.5	0.50	ug/L	20.0	ND	82.7	69-149			
Dibromochloromethane	21.0	0.50	ug/L	20.0	ND	105	54-157			
1,2-Dibromoethane (EDB)	20.6	0.50	ug/L	20.0	ND	103	40-147			
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.0	ND	100	57-137			
1,3-Dichlorobenzene	21.6	0.50	ug/L	20.0	ND	108	54-137			
1,4-Dichlorobenzene	19.5	0.50	ug/L	20.0	ND	97.3	61-131			
1,1-Dichloroethane	20.6	0.50	ug/L	20.0	ND	103	64-136			
1,2-Dichloroethane	19.4	0.50	ug/L	20.0	ND	97.0	58-133			
1,1-Dichloroethene	20.8	0.50	ug/L	20.0	ND	104	45-178			
cis-1,2-Dichloroethene	20.8	0.50	ug/L	20.0	ND	104	66-141			
trans-1,2-Dichloroethene	20.6	0.50	ug/L	20.0	ND	103	59-151			
1,2-Dichloropropane	20.6	0.50	ug/L	20.0	ND	103	62-128			
cis-1,3-Dichloropropene	18.1	0.50	ug/L	20.0	ND	90.4	50-140			
trans-1,3-Dichloropropene	19.1	0.50	ug/L	20.0	ND	95.4	40-144			
Ethylbenzene	22.1	0.50	ug/L	20.0	ND	111	59-147			
Methyl ethyl ketone	35.2	1.0	ug/L	40.0	ND	88.1	62-126			
Methyl isobutyl ketone	42.1	1.0	ug/L	40.0	ND	105	66-127			
Methylene chloride	19.5	0.50	ug/L	20.0	ND	97.6	43-143			
Styrene	23.9	0.50	ug/L	20.0	ND	119	51-157			
1,1,2,2-Tetrachloroethane	20.3	0.50	ug/L	20.0	ND	101	73-127			
Tetrachloroethene	22.3	0.50	ug/L	20.0	ND	111	49-148			
Toluene	23.0	0.30	ug/L	20.0	0.600	112	59-147			
1,1,2-Trichloroethane	20.6	0.50	ug/L	20.0	ND	103	62-129			
1,1,1-Trichloroethane	21.5	0.50	ug/L	20.0	ND	107	62-144			

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08/17/16 09:19

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>Matrix Spike (AH63415-MS1)</b>		<b>Source: 16H0424-12</b>		Prepared: 08/08/16		Analyzed: 08/09/16				
Trichloroethene	21.4	0.50	ug/L	20.0	ND	107	58-140			
Vinyl chloride	17.2	0.50	ug/L	20.0	ND	86.0	53-160			
o-Xylene	23.0	0.50	ug/L	20.0	ND	115	55-148			
m,p-Xylene	46.5	0.50	ug/L	40.0	ND	116	53-147			
Xylenes (total)	69.5	0.50	ug/L	60.0	ND	116	49-153			
Surrogate: Bromofluorobenzene	25.6		ug/L	25.0		103	81-135			
Surrogate: Dibromofluoromethane	20.5		ug/L	25.0		82.1	46-130			
Surrogate: Toluene-d8	22.4		ug/L	25.0		89.6	59-132			
<b>Matrix Spike Dup (AH63415-MSD1)</b>		<b>Source: 16H0424-12</b>		Prepared: 08/08/16		Analyzed: 08/09/16				
Acetone	69.2	5.0	ug/L	80.0	ND	86.5	32-164	7.32	25	
Benzene	21.9	0.30	ug/L	20.0	ND	109	58-139	2.45	25	
Bromodichloromethane	20.9	0.50	ug/L	20.0	ND	105	62-140	1.20	25	
Bromoform	21.3	0.50	ug/L	20.0	ND	106	47-165	0.755	25	
Bromomethane	4.18	0.50	ug/L	20.0	ND	20.9	30-163	53.3	25	QM-05, QM-08
Carbon tetrachloride	22.2	0.50	ug/L	20.0	ND	111	65-153	1.31	25	
Chlorobenzene	21.0	0.50	ug/L	20.0	ND	105	58-137	1.01	25	
Chloroethane	18.1	0.50	ug/L	20.0	ND	90.6	59-141	4.95	25	
Chloroform	23.8	0.50	ug/L	20.0	3.22	103	36-151	1.06	25	
Chloromethane	16.0	0.50	ug/L	20.0	ND	80.1	69-149	3.19	25	
Dibromochloromethane	21.1	0.50	ug/L	20.0	ND	106	54-157	0.475	25	
1,2-Dibromoethane (EDB)	20.2	0.50	ug/L	20.0	ND	101	40-147	1.76	25	
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.0	ND	105	57-137	4.59	25	
1,3-Dichlorobenzene	22.2	0.50	ug/L	20.0	ND	111	54-137	2.64	25	
1,4-Dichlorobenzene	20.1	0.50	ug/L	20.0	ND	101	61-131	3.29	25	
1,1-Dichloroethane	21.3	0.50	ug/L	20.0	ND	107	64-136	3.63	25	
1,2-Dichloroethane	19.6	0.50	ug/L	20.0	ND	98.2	58-133	1.23	25	
1,1-Dichloroethene	21.4	0.50	ug/L	20.0	ND	107	45-178	2.75	25	
cis-1,2-Dichloroethene	21.2	0.50	ug/L	20.0	ND	106	66-141	1.95	25	
trans-1,2-Dichloroethene	21.6	0.50	ug/L	20.0	ND	108	59-151	4.69	25	
1,2-Dichloropropane	21.6	0.50	ug/L	20.0	ND	108	62-128	5.17	25	
cis-1,3-Dichloropropene	18.4	0.50	ug/L	20.0	ND	92.0	50-140	1.70	25	

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Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AH63415 - VOAs in Water GCMS</b>										
<b>Matrix Spike Dup (AH63415-MSD1)</b>		<b>Source: 16H0424-12</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
trans-1,3-Dichloropropene	19.5	0.50	ug/L	20.0	ND	97.5	40-144	2.12	25	
Ethylbenzene	22.7	0.50	ug/L	20.0	ND	114	59-147	2.68	25	
Methyl ethyl ketone	36.6	1.0	ug/L	40.0	ND	91.5	62-126	3.76	25	
Methyl isobutyl ketone	42.8	1.0	ug/L	40.0	ND	107	66-127	1.62	25	
Methylene chloride	21.6	0.50	ug/L	20.0	ND	108	43-143	9.88	25	
Styrene	24.2	0.50	ug/L	20.0	ND	121	51-157	1.29	25	
1,1,2,2-Tetrachloroethane	19.7	0.50	ug/L	20.0	ND	98.6	73-127	2.75	25	
Tetrachloroethene	22.4	0.50	ug/L	20.0	ND	112	49-148	0.805	25	
Toluene	22.9	0.30	ug/L	20.0	0.600	111	59-147	0.567	25	
1,1,1-Trichloroethane	22.3	0.50	ug/L	20.0	ND	111	62-144	3.70	25	
1,1,2-Trichloroethane	20.3	0.50	ug/L	20.0	ND	101	62-129	1.71	25	
Trichloroethene	21.9	0.50	ug/L	20.0	ND	109	58-140	2.03	25	
Vinyl chloride	16.3	0.50	ug/L	20.0	ND	81.4	53-160	5.56	25	
o-Xylene	23.5	0.50	ug/L	20.0	ND	117	55-148	2.11	25	
m,p-Xylene	47.6	0.50	ug/L	40.0	ND	119	53-147	2.28	25	
Xylenes (total)	71.0	0.50	ug/L	60.0	ND	118	49-153	2.22	25	
Surrogate: Bromofluorobenzene	25.1		ug/L	25.0		100	81-135			
Surrogate: Dibromofluoromethane	20.5		ug/L	25.0		82.0	46-130			
Surrogate: Toluene-d8	22.3		ug/L	25.0		89.1	59-132			



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#### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-08 The RPD was outside acceptance limits for MS/MSD, possibly due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- T-13 Hold time not specified in method.
- T-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

[illegible]