



Alpha Analytical Laboratories Inc.

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

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

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

24 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16H0815

Enclosed are the results of analyses for samples received by the laboratory on 08/08/16 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: [none]

Reported:  
08/24/16 16:31

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13223 Grab 080416-1300	16H0815-01	Water	08/04/16 13:00	08/08/16 21:00



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08/24/16 16:31

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 Grab 080416-1300 (16H0815-01)								
Conventional Chemistry Parameters by APHA/EPA Methods			Sample Type: Water		Sampled: 08/04/16 13:00			
Hydrogen sulfide	0.0854 mg/L	0.0200	1	AH63977	08/23/16 12:59	08/23/16 12:59	SM4500-S2 H	
pH	7.14 pH Units	1.68	1	AH63523	08/09/16 16:00	08/09/16 17:00	SM4500-H+ B	T-14
Sulfide, dissolved	0.39 mg/L	0.20	2	AH63919	08/09/16 15:00	08/22/16 14:30	SM4500SD	T-13
Volatile Organic Compounds by EPA Method 624								
Acetone	49 ug/L	5.0	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Benzene	ND ug/L	0.30	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Bromodichloromethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Bromoform	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Bromomethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Carbon tetrachloride	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Chlorobenzene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Chloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Chloroform	3.5 ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Chloromethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Dibromochloromethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,2-Dibromoethane (EDB)	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,2-Dichlorobenzene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,3-Dichlorobenzene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,4-Dichlorobenzene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,1-Dichloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,2-Dichloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,1-Dichloroethene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
cis-1,2-Dichloroethene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
trans-1,2-Dichloroethene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,2-Dichloropropane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
cis-1,3-Dichloropropene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
trans-1,3-Dichloropropene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,3-Dichloropropene (total)	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Ethylbenzene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Methyl ethyl ketone	4.4 ug/L	1.0	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Methyl isobutyl ketone	ND ug/L	1.0	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Methylene chloride	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Styrene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,1,2,2-Tetrachloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Tetrachloroethene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Toluene	1.5 ug/L	0.30	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
1,1,1-Trichloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	

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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: [none]

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08/24/16 16:31

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13223 Grab 080416-1300 (16H0815-01)</b>								
	<b>Sample Type: Water</b>			<b>Sampled: 08/04/16 13:00</b>				
<b>Volatile Organic Compounds by EPA Method 624 (cont'd)</b>								
1,1,2-Trichloroethane	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Trichloroethene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Vinyl chloride	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
o-Xylene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
m,p-Xylene	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Xylenes (total)	ND ug/L	0.50	1	AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Surrogate: Bromofluorobenzene	99.8 %	81-135		AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Surrogate: Dibromofluoromethane	85.2 %	46-130		AH63801	08/18/16 09:00	08/18/16 13:50	EPA 624	
Surrogate: Toluene-d8	85.0 %	59-132		AH63801	08/18/16 09:00	08/18/16 13:50	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 AH63919 - General Preparation</b>										
<b>Blank (AH63919-BLK1)</b>				Prepared: 08/08/16 Analyzed: 08/22/16						
Sulfide, dissolved	ND	0.10	mg/L							
<b>LCS (AH63919-BS1)</b>				Prepared & Analyzed: 08/22/16						
Sulfide, dissolved	0.515	0.10	mg/L	0.500		103	80-120			
<b>Duplicate (AH63919-DUP1)</b>				<b>Source: 16H1571-01</b>		Prepared & Analyzed: 08/22/16				
Sulfide, dissolved	ND	0.10	mg/L		ND				15	
<b>Matrix Spike (AH63919-MS1)</b>				<b>Source: 16H1571-01</b>		Prepared & Analyzed: 08/22/16				
Sulfide, dissolved	0.291	0.10	mg/L	0.500	ND	58.2	80-120			QM-05
<b>Matrix Spike Dup (AH63919-MSD1)</b>				<b>Source: 16H1571-01</b>		Prepared & Analyzed: 08/22/16				
Sulfide, dissolved	0.288	0.10	mg/L	0.500	ND	57.6	80-120	1.04	15	QM-05



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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 AH63801 - VOAs in Water GCMS

##### Blank (AH63801-BLK1)

Prepared & Analyzed: 08/18/16

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
1,3-Dichloropropene (total)	ND	0.50	ug/L
Ethylbenzene	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 AH63801 - VOAs in Water GCMS</b>										
<b>Blank (AH63801-BLK1)</b>				Prepared & Analyzed: 08/18/16						
1,1,2-Trichloroethane	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Vinyl chloride	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	24.0		ug/L	25.0		96.1	81-135			
Surrogate: Dibromofluoromethane	20.7		ug/L	25.0		82.9	46-130			
Surrogate: Toluene-d8	21.0		ug/L	25.0		84.1	59-132			
<b>LCS (AH63801-BS1)</b>				Prepared & Analyzed: 08/18/16						
Acetone	79.5	5.0	ug/L	80.0		99.4	48-124			
Benzene	18.7	0.30	ug/L	20.0		93.3	82-122			
Bromodichloromethane	19.3	0.50	ug/L	20.0		96.4	86-135			
Bromoform	20.3	0.50	ug/L	20.0		102	76-144			
Bromomethane	20.8	0.50	ug/L	20.0		104	69-145			
Carbon tetrachloride	19.9	0.50	ug/L	20.0		99.5	77-134			
Chlorobenzene	20.3	0.50	ug/L	20.0		102	84-119			
Chloroethane	19.9	0.50	ug/L	20.0		99.4	68-133			
Chloroform	19.2	0.50	ug/L	20.0		95.8	81-122			
Chloromethane	18.1	0.50	ug/L	20.0		90.3	63-129			
Dibromochloromethane	19.8	0.50	ug/L	20.0		98.8	83-135			
1,2-Dibromoethane (EDB)	19.2	0.50	ug/L	20.0		96.0	80-120			
1,2-Dichlorobenzene	18.9	0.50	ug/L	20.0		94.7	84-121			
1,3-Dichlorobenzene	18.7	0.50	ug/L	20.0		93.5	80-120			
1,4-Dichlorobenzene	19.0	0.50	ug/L	20.0		94.8	84-120			
1,1-Dichloroethane	18.3	0.50	ug/L	20.0		91.4	81-126			
1,2-Dichloroethane	18.7	0.50	ug/L	20.0		93.6	77-117			
1,1-Dichloroethene	18.6	0.50	ug/L	20.0		93.2	71-151			
cis-1,2-Dichloroethene	18.4	0.50	ug/L	20.0		91.9	84-131			
trans-1,2-Dichloroethene	17.6	0.50	ug/L	20.0		88.2	79-128			
1,2-Dichloropropane	19.3	0.50	ug/L	20.0		96.5	82-125			
cis-1,3-Dichloropropene	20.6	0.50	ug/L	20.0		103	83-128			

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Reported:  
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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 AH63801 - VOAs in Water GCMS</b>										
<b>LCS (AH63801-BS1)</b>				Prepared & Analyzed: 08/18/16						
trans-1,3-Dichloropropene	21.6	0.50	ug/L	20.0		108	67-129			
Ethylbenzene	20.1	0.50	ug/L	20.0		101	84-124			
Methyl ethyl ketone	33.4	1.0	ug/L	40.0		83.6	58-157			
Methyl isobutyl ketone	39.3	1.0	ug/L	40.0		98.3	70-130			
Methylene chloride	20.7	0.50	ug/L	20.0		104	72-132			
Styrene	21.3	0.50	ug/L	20.0		106	80-125			
1,1,2,2-Tetrachloroethane	18.6	0.50	ug/L	20.0		92.8	84-115			
Tetrachloroethene	18.7	0.50	ug/L	20.0		93.4	56-156			
Toluene	20.1	0.30	ug/L	20.0		101	76-137			
1,1,1-Trichloroethane	19.3	0.50	ug/L	20.0		96.6	70-130			
1,1,2-Trichloroethane	18.6	0.50	ug/L	20.0		93.1	83-122			
Trichloroethene	20.2	0.50	ug/L	20.0		101	84-123			
Vinyl chloride	21.4	0.50	ug/L	20.0		107	70-130			
o-Xylene	19.7	0.50	ug/L	20.0		98.6	80-126			
m,p-Xylene	40.4	0.50	ug/L	40.0		101	81-124			
Xylenes (total)	60.1	0.50	ug/L	60.0		100	81-126			
Surrogate: Bromofluorobenzene	26.0		ug/L	25.0		104	81-135			
Surrogate: Dibromofluoromethane	20.8		ug/L	25.0		83.1	46-130			
Surrogate: Toluene-d8	21.2		ug/L	25.0		84.8	59-132			
<b>LCS Dup (AH63801-BS1)</b>				Prepared & Analyzed: 08/18/16						
Acetone	77.7	5.0	ug/L	80.0		97.1	48-124	2.33	25	
Benzene	17.8	0.30	ug/L	20.0		89.0	82-122	4.72	25	
Bromodichloromethane	18.3	0.50	ug/L	20.0		91.6	86-135	5.00	25	
Bromoform	19.8	0.50	ug/L	20.0		98.8	76-144	2.80	25	
Bromomethane	21.4	0.50	ug/L	20.0		107	69-145	3.22	25	
Carbon tetrachloride	19.3	0.50	ug/L	20.0		96.6	77-134	3.01	25	
Chlorobenzene	19.5	0.50	ug/L	20.0		97.4	84-119	4.32	25	
Chloroethane	20.0	0.50	ug/L	20.0		100	68-133	0.852	25	
Chloroform	19.0	0.50	ug/L	20.0		95.0	81-122	0.839	25	
Chloromethane	18.3	0.50	ug/L	20.0		91.4	63-129	1.21	25	
Dibromochloromethane	19.9	0.50	ug/L	20.0		99.4	83-135	0.555	25	
1,2-Dibromoethane (EDB)	18.3	0.50	ug/L	20.0		91.6	80-120	4.58	25	

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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: [none]

Reported:  
08/24/16 16:31

### 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 AH63801 - VOAs in Water GCMS</b>										
<b>LCS Dup (AH63801-BSD1)</b>				Prepared & Analyzed: 08/18/16						
1,2-Dichlorobenzene	19.5	0.50	ug/L	20.0		97.6	84-121	2.96	25	
1,3-Dichlorobenzene	18.5	0.50	ug/L	20.0		92.4	80-120	1.13	25	
1,4-Dichlorobenzene	19.2	0.50	ug/L	20.0		95.9	84-120	1.15	25	
1,1-Dichloroethane	18.0	0.50	ug/L	20.0		90.2	81-126	1.32	25	
1,2-Dichloroethane	17.8	0.50	ug/L	20.0		89.0	77-117	4.93	25	
1,1-Dichloroethene	18.6	0.50	ug/L	20.0		93.0	71-151	0.161	25	
cis-1,2-Dichloroethene	18.1	0.50	ug/L	20.0		90.5	84-131	1.54	25	
trans-1,2-Dichloroethene	17.6	0.50	ug/L	20.0		88.0	79-128	0.284	25	
1,2-Dichloropropane	19.2	0.50	ug/L	20.0		96.0	82-125	0.519	25	
cis-1,3-Dichloropropene	21.2	0.50	ug/L	20.0		106	83-128	3.11	25	
trans-1,3-Dichloropropene	21.4	0.50	ug/L	20.0		107	67-129	0.886	25	
Ethylbenzene	19.7	0.50	ug/L	20.0		98.6	84-124	2.01	25	
Methyl ethyl ketone	33.6	1.0	ug/L	40.0		84.1	58-157	0.656	25	
Methyl isobutyl ketone	39.9	1.0	ug/L	40.0		99.8	70-130	1.44	25	
Methylene chloride	20.2	0.50	ug/L	20.0		101	72-132	2.49	25	
Styrene	20.9	0.50	ug/L	20.0		105	80-125	1.56	25	
1,1,2,2-Tetrachloroethane	18.2	0.50	ug/L	20.0		91.2	84-115	1.63	25	
Tetrachloroethene	18.5	0.50	ug/L	20.0		92.6	56-156	0.860	25	
Toluene	19.6	0.30	ug/L	20.0		98.2	76-137	2.42	25	
1,1,2-Trichloroethane	18.6	0.50	ug/L	20.0		92.8	83-122	0.323	25	
1,1,1-Trichloroethane	19.2	0.50	ug/L	20.0		95.9	70-130	0.779	25	
Trichloroethene	19.5	0.50	ug/L	20.0		97.6	84-123	3.57	25	
Vinyl chloride	21.7	0.50	ug/L	20.0		108	70-130	1.63	25	
o-Xylene	19.8	0.50	ug/L	20.0		99.2	80-126	0.556	25	
m,p-Xylene	39.7	0.50	ug/L	40.0		99.2	81-124	1.72	25	
Xylenes (total)	59.5	0.50	ug/L	60.0		99.2	81-126	0.969	25	
Surrogate: Bromofluorobenzene	25.2		ug/L	25.0		101	81-135			
Surrogate: Dibromofluoromethane	19.9		ug/L	25.0		79.8	46-130			
Surrogate: Toluene-d8	20.4		ug/L	25.0		81.7	59-132			

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West Bay Sanitary District  
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Menlo Park, CA 94025

Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: [none]

Reported:  
08/24/16 16:31

### 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 AH63801 - VOAs in Water GCMS</b>										
<b>Matrix Spike (AH63801-MS1)</b>	<b>Source: 16H0762-01</b>			Prepared & Analyzed: 08/18/16						
Acetone	84.3	5.0	ug/L	80.0	ND	105	32-164			
Benzene	19.7	0.30	ug/L	20.0	ND	98.3	58-139			
Bromodichloromethane	25.1	0.50	ug/L	20.0	4.95	101	62-140			
Bromoform	21.8	0.50	ug/L	20.0	ND	109	47-165			
Bromomethane	21.3	0.50	ug/L	20.0	ND	107	30-163			
Carbon tetrachloride	22.0	0.50	ug/L	20.0	ND	110	65-153			
Chlorobenzene	20.9	0.50	ug/L	20.0	ND	105	58-137			
Chloroethane	21.3	0.50	ug/L	20.0	ND	106	59-141			
Chloroform	71.9	0.50	ug/L	20.0	50.8	106	36-151			
Chloromethane	21.5	0.50	ug/L	20.0	ND	107	69-149			
Dibromochloromethane	20.9	0.50	ug/L	20.0	ND	105	54-157			
1,2-Dibromoethane (EDB)	19.6	0.50	ug/L	20.0	ND	98.0	40-147			
1,2-Dichlorobenzene	20.3	0.50	ug/L	20.0	ND	101	57-137			
1,3-Dichlorobenzene	19.4	0.50	ug/L	20.0	ND	96.9	54-137			
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.0	ND	102	61-131			
1,1-Dichloroethane	19.6	0.50	ug/L	20.0	ND	98.2	64-136			
1,2-Dichloroethane	18.9	0.50	ug/L	20.0	ND	94.4	58-133			
1,1-Dichloroethene	20.9	0.50	ug/L	20.0	ND	105	45-178			
cis-1,2-Dichloroethene	19.7	0.50	ug/L	20.0	ND	98.6	66-141			
trans-1,2-Dichloroethene	19.0	0.50	ug/L	20.0	ND	95.2	59-151			
1,2-Dichloropropane	20.1	0.50	ug/L	20.0	ND	101	62-128			
cis-1,3-Dichloropropene	21.7	0.50	ug/L	20.0	ND	109	50-140			
trans-1,3-Dichloropropene	22.4	0.50	ug/L	20.0	ND	112	40-144			
Ethylbenzene	21.4	0.50	ug/L	20.0	ND	107	59-147			
Methyl ethyl ketone	36.7	1.0	ug/L	40.0	ND	91.7	62-126			
Methyl isobutyl ketone	43.2	1.0	ug/L	40.0	ND	108	66-127			
Methylene chloride	20.1	0.50	ug/L	20.0	ND	101	43-143			
Styrene	22.2	0.50	ug/L	20.0	ND	111	51-157			
1,1,2,2-Tetrachloroethane	20.0	0.50	ug/L	20.0	ND	99.9	73-127			
Tetrachloroethene	20.4	0.50	ug/L	20.0	ND	102	49-148			
Toluene	21.4	0.30	ug/L	20.0	ND	107	59-147			
1,1,1-Trichloroethane	20.8	0.50	ug/L	20.0	ND	104	62-144			
1,1,2-Trichloroethane	19.6	0.50	ug/L	20.0	ND	98.2	62-129			

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Menlo Park, CA 94025

Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: [none]

Reported:  
08/24/16 16:31

### 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 AH63801 - VOAs in Water GCMS</b>										
<b>Matrix Spike (AH63801-MS1)</b>		<b>Source: 16H0762-01</b>			Prepared & Analyzed: 08/18/16					
Trichloroethene	21.1	0.50	ug/L	20.0	ND	106	58-140			
Vinyl chloride	23.9	0.50	ug/L	20.0	ND	119	53-160			
o-Xylene	20.9	0.50	ug/L	20.0	ND	105	55-148			
m,p-Xylene	42.6	0.50	ug/L	40.0	ND	106	53-147			
Xylenes (total)	63.5	0.50	ug/L	60.0	ND	106	49-153			
Surrogate: Bromofluorobenzene	25.3		ug/L	25.0		101	81-135			
Surrogate: Dibromofluoromethane	20.9		ug/L	25.0		83.5	46-130			
Surrogate: Toluene-d8	20.7		ug/L	25.0		82.8	59-132			
<b>Matrix Spike Dup (AH63801-MSD1)</b>		<b>Source: 16H0762-01</b>			Prepared & Analyzed: 08/18/16					
Acetone	84.8	5.0	ug/L	80.0	ND	106	32-164	0.520	25	
Benzene	19.2	0.30	ug/L	20.0	ND	95.8	58-139	2.52	25	
Bromodichloromethane	25.1	0.50	ug/L	20.0	4.95	101	62-140	0.120	25	
Bromoform	21.3	0.50	ug/L	20.0	ND	106	47-165	2.51	25	
Bromomethane	22.2	0.50	ug/L	20.0	ND	111	30-163	3.82	25	
Carbon tetrachloride	21.7	0.50	ug/L	20.0	ND	108	65-153	1.51	25	
Chlorobenzene	20.3	0.50	ug/L	20.0	ND	102	58-137	2.76	25	
Chloroethane	21.6	0.50	ug/L	20.0	ND	108	59-141	1.17	25	
Chloroform	71.4	0.50	ug/L	20.0	50.8	103	36-151	0.754	25	
Chloromethane	20.9	0.50	ug/L	20.0	ND	104	69-149	2.83	25	
Dibromochloromethane	21.0	0.50	ug/L	20.0	ND	105	54-157	0.0955	25	
1,2-Dibromoethane (EDB)	19.2	0.50	ug/L	20.0	ND	96.0	40-147	2.11	25	
1,2-Dichlorobenzene	18.8	0.50	ug/L	20.0	ND	94.2	57-137	7.46	25	
1,3-Dichlorobenzene	18.7	0.50	ug/L	20.0	ND	93.3	54-137	3.79	25	
1,4-Dichlorobenzene	18.9	0.50	ug/L	20.0	ND	94.5	61-131	8.02	25	
1,1-Dichloroethane	19.0	0.50	ug/L	20.0	ND	95.0	64-136	3.31	25	
1,2-Dichloroethane	18.5	0.50	ug/L	20.0	ND	92.4	58-133	2.09	25	
1,1-Dichloroethene	20.0	0.50	ug/L	20.0	ND	100	45-178	4.45	25	
cis-1,2-Dichloroethene	19.4	0.50	ug/L	20.0	ND	97.0	66-141	1.64	25	
trans-1,2-Dichloroethene	19.4	0.50	ug/L	20.0	ND	97.1	59-151	1.92	25	
1,2-Dichloropropane	20.2	0.50	ug/L	20.0	ND	101	62-128	0.446	25	
cis-1,3-Dichloropropene	21.8	0.50	ug/L	20.0	ND	109	50-140	0.551	25	
trans-1,3-Dichloropropene	22.3	0.50	ug/L	20.0	ND	111	40-144	0.448	25	

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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 AH63801 - VOAs in Water GCMS</b>										
<b>Matrix Spike Dup (AH63801-MSD1)</b>		<b>Source: 16H0762-01</b>			Prepared & Analyzed: 08/18/16					
Ethylbenzene	21.0	0.50	ug/L	20.0	ND	105	59-147	1.65	25	
Methyl ethyl ketone	33.2	1.0	ug/L	40.0	ND	83.0	62-126	10.0	25	
Methyl isobutyl ketone	42.8	1.0	ug/L	40.0	ND	107	66-127	1.02	25	
Methylene chloride	19.6	0.50	ug/L	20.0	ND	98.2	43-143	2.52	25	
Styrene	21.5	0.50	ug/L	20.0	ND	108	51-157	3.20	25	
1,1,2,2-Tetrachloroethane	19.2	0.50	ug/L	20.0	ND	96.1	73-127	3.88	25	
Tetrachloroethene	19.3	0.50	ug/L	20.0	ND	96.6	49-148	5.24	25	
Toluene	20.8	0.30	ug/L	20.0	ND	104	59-147	2.51	25	
1,1,2-Trichloroethane	18.7	0.50	ug/L	20.0	ND	93.6	62-129	4.75	25	
1,1,1-Trichloroethane	20.8	0.50	ug/L	20.0	ND	104	62-144	0.0480	25	
Trichloroethene	20.8	0.50	ug/L	20.0	ND	104	58-140	1.53	25	
Vinyl chloride	24.3	0.50	ug/L	20.0	ND	121	53-160	1.66	25	
o-Xylene	20.5	0.50	ug/L	20.0	ND	102	55-148	2.17	25	
m,p-Xylene	40.8	0.50	ug/L	40.0	ND	102	53-147	4.32	25	
Xylenes (total)	61.3	0.50	ug/L	60.0	ND	102	49-153	3.61	25	
Surrogate: Bromofluorobenzene	25.4		ug/L	25.0		102	81-135			
Surrogate: Dibromofluoromethane	20.3		ug/L	25.0		81.4	46-130			
Surrogate: Toluene-d8	20.6		ug/L	25.0		82.4	59-132			



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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: [none]

Reported:  
08/24/16 16:31

#### 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.
- 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

Company/Name:		Project ID:		Signature below authorizes work under terms stated on reverse side.																															
West Bay Sanitary District		WQ Monitoring		Analysis Request																Sample Notes		TAT													
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:																				24 hr <input type="radio"/>													
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO# 25215																				48 hr <input type="radio"/>													
Phone/Fax:		Site Contact: John Simonetti																				Lab Approval Required <input type="radio"/>													
Field Sampler - Print Name & Signature Mark Pratorlon		Sample Collection		Container		Preservative				Matrix		Hydrogen Sulfide		624 Volatiles																		1 wk <input type="radio"/>			
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other																	2 wk (standard) <input type="radio"/>		
G13104 Grab				4	1				4				1	x			x	x																	
G13220 Grab				4	1				4				1	x			x	x																	
G13223 Grab 080416-1300		8/4	13:00	4	1				4				1	x			x	x	OK to analyze Hyd. Sulf. OUT of hold per Rabbie BF																
Relinquished by: Mark Pratorlon		Received by: [Signature]							Date 8-5-16	Time 1230	CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																								
Relinquished by: [Signature]		Received by: [Signature]							Date 8/8	Time 1720	State System Number: _____																								
Relinquished by: [Signature]		Received by: [Signature]							Date 8/8	Time 1600	CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																								
Relinquished by:		Received by:							Date	Time	Sampling Company Log Code: _____																								
Relinquished by:		Received by:							Date	Time	Global ID: _____ EDF to (Email Address): _____																								
Relinquished by:		Received by:							Date	Time	Travel and Site Time:				Mileage:				Misc. Supplies:																