DW-04A

Hydro Logs

COMP	Greene Environmental
WELL	DW-04A
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-04A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

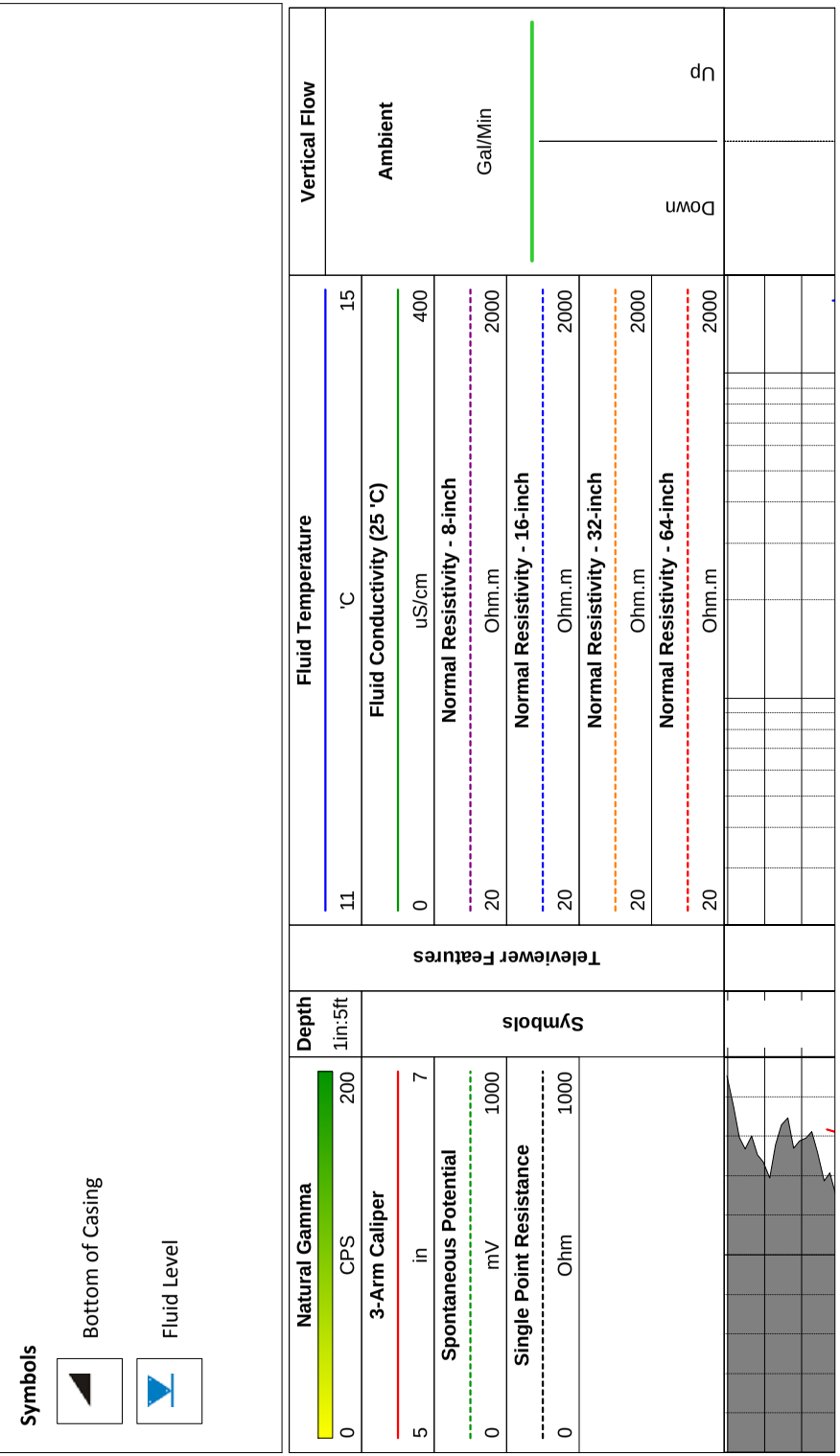
LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

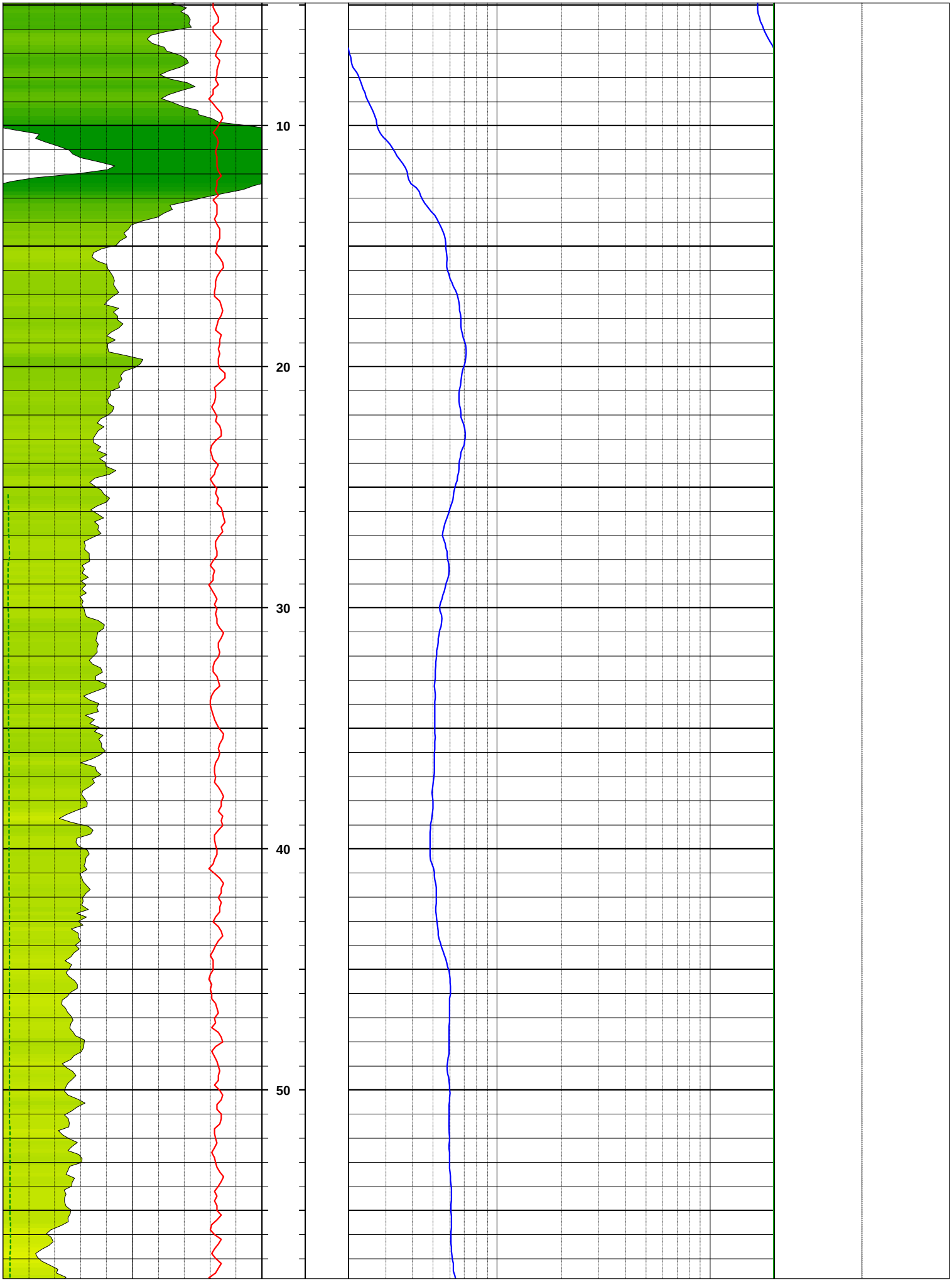
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.6 G.L.

LOGGING DATE	11.28.2017	11.28.2017	11.28.2017	11.28.2017	
RUN NO	1	3	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)	200.0	200.0	200.0	200.0	
ARM DEPTH (FT)	164.5	165.7	165.0	N/A	
BTM LOGGED INTERVAL (FT)	164.7	165.7	165.0	161.0	
TOP LOGGED INTERVAL (FT)	4.8	5.4	31.4	84.0	
CASING SIZE (IN)/DEPTH (FT)	6.0/87.0	6.0/87.0	6.0/87.0	6.0/87.0	
CASING ARM (FT)	86.4	86.4	86.4	86.4	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	61.7	61.7	61.7	61.7	
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

REMARKS:

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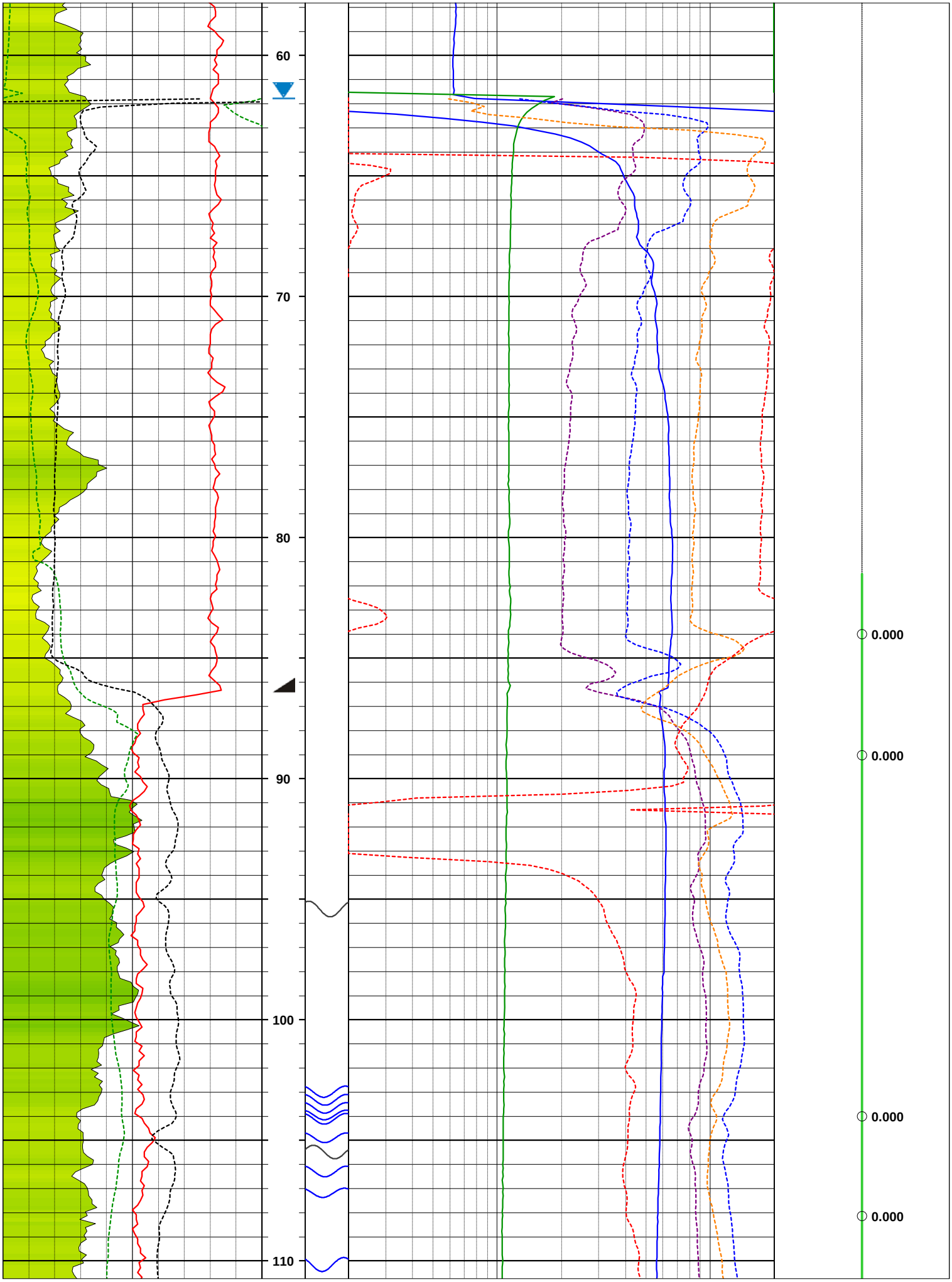
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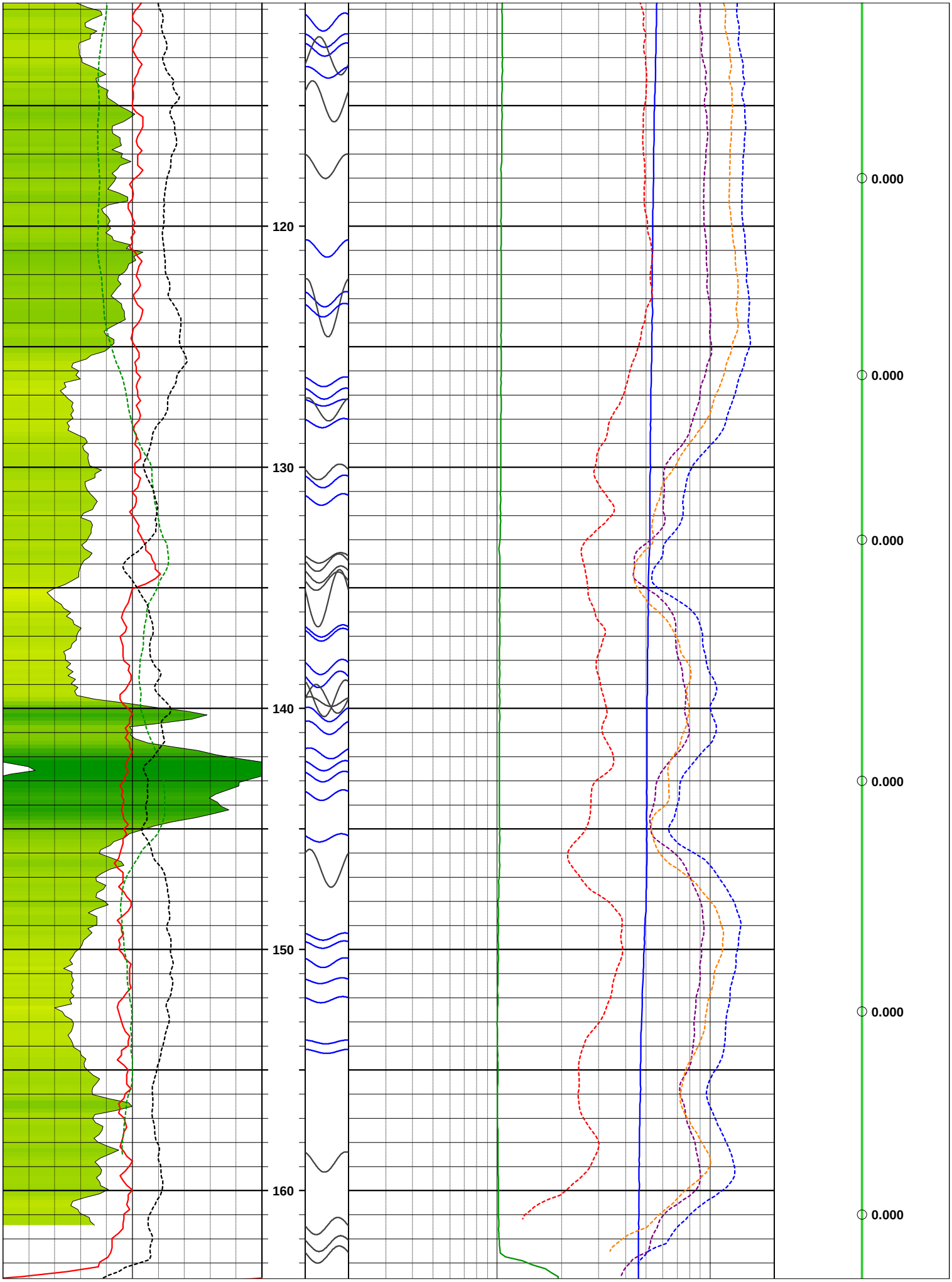
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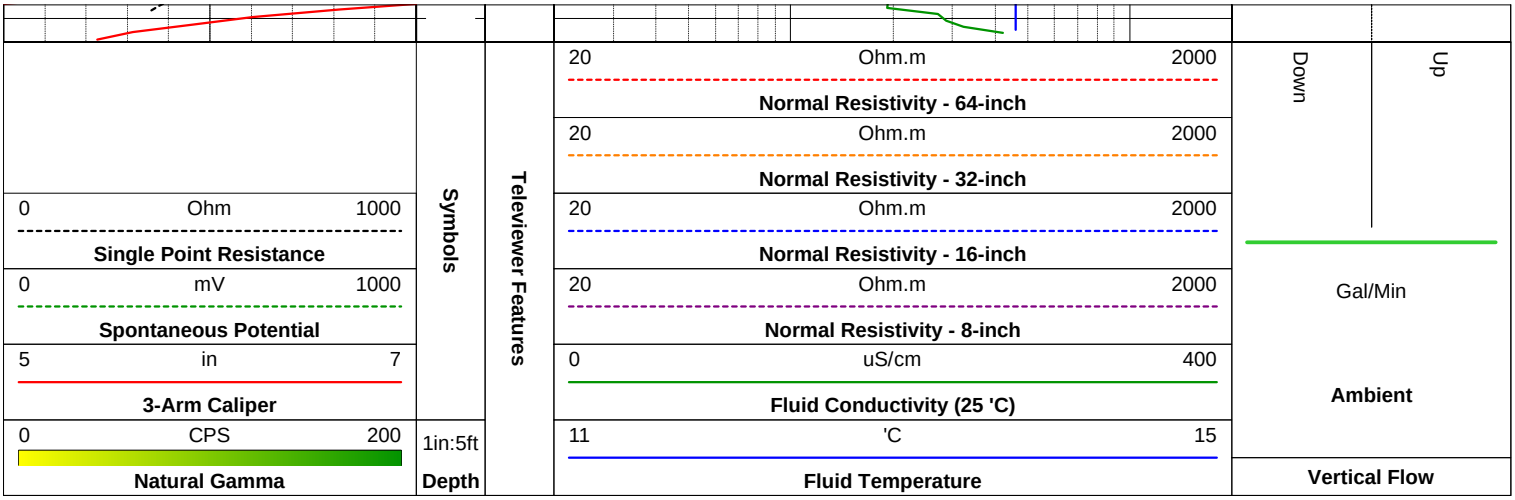
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Single Point Resistance
0 mV 1000
Spontaneous Potential
5 in 7
3-Arm Caliper
0 CPS 200
Natural Gamma
Symbols
1in:5ft
Depth
Televiewer Features
20 Ohm.m 2000
Normal Resistivity - 64-inch
20 Ohm.m 2000
Normal Resistivity - 32-inch
20 Ohm.m 2000
Normal Resistivity - 16-inch
20 Ohm.m 2000
Normal Resistivity - 8-inch
0 uS/cm 400
Fluid Conductivity (25 'C)
11 'C 15
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

DW-04B

Hydro Log

ARM GEOPHYSICS
Surface & Borehole Services

COMP	Greene Environmental	COMPANY:	Greene Environmental
WELL	DW-04B	WELL ID:	DW-04B
FLD	Vinton	FIELD/SITE:	Vinton
CNTY	Roanoke	COUNTY:	Roanoke
STAT	VA	STATE:	VA
ARM	170612	ARM NO.:	170612
API	N/A	API NO.:	N/A

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

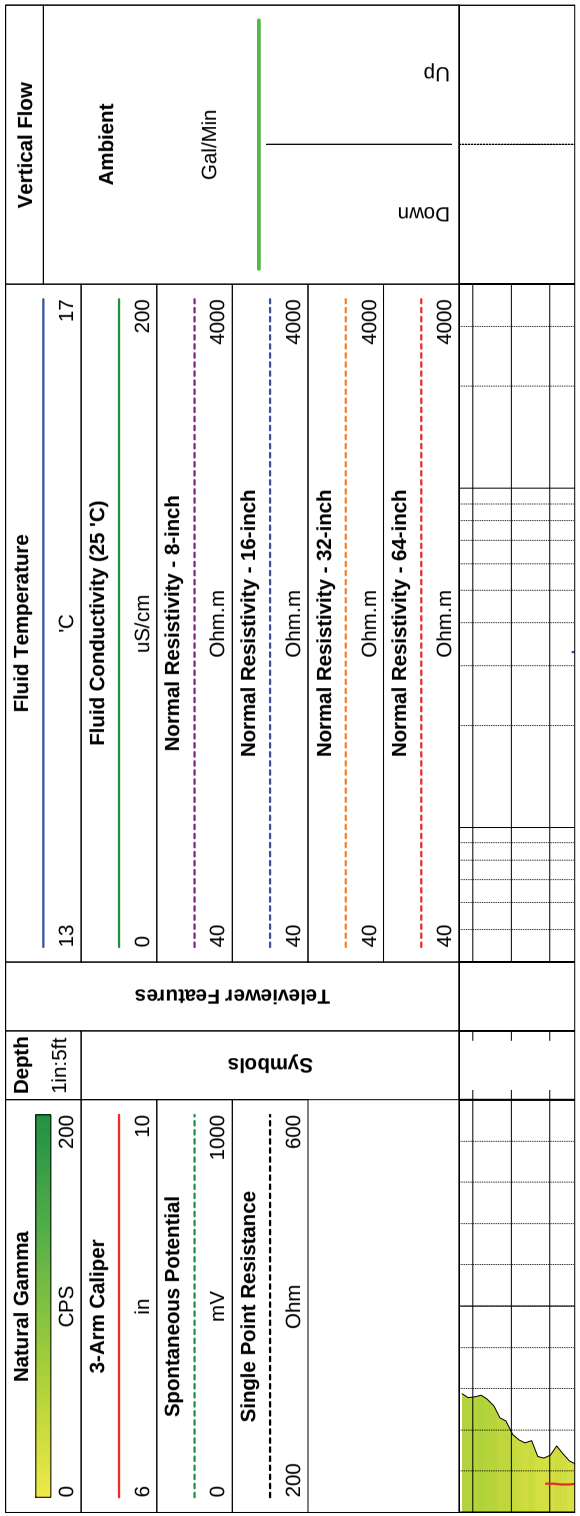
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.57 G.L.

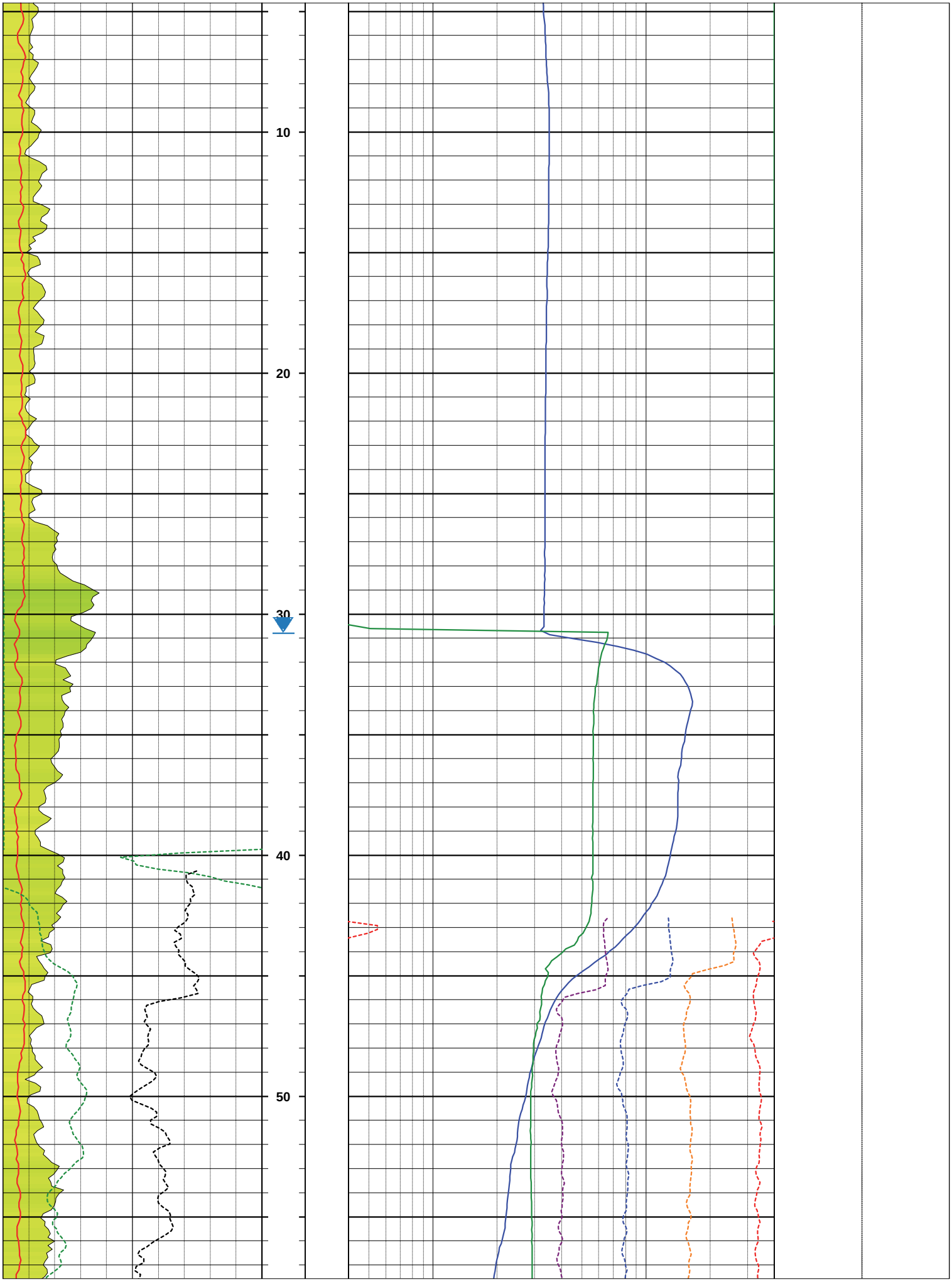
LOGGING DATE	11.01.2017	11.01.2017	11.01.2017	11.01.2017	
RUN NO	1	4	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	82	82	82	N/A	
BTM LOGGED INTERVAL (FT)	82	82	82	81.01	
TOP LOGGED INTERVAL (FT)	4.56	5.11	32.15	68	
CASING SIZE (IN)/DEPTH (FT)	5/	5/	5/	5/	
CASING ARM (FT)	68.73	68.73	68.73	68.73	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	30.72*				
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

REMARKS:
*Water entered the borehole after the pitless adapter was removed, raising the water level. The water level continued to drop during logging activities.

Symbols

Bottom of Casing | Producing Zone | Up Flow
Fluid Level | Down Flow

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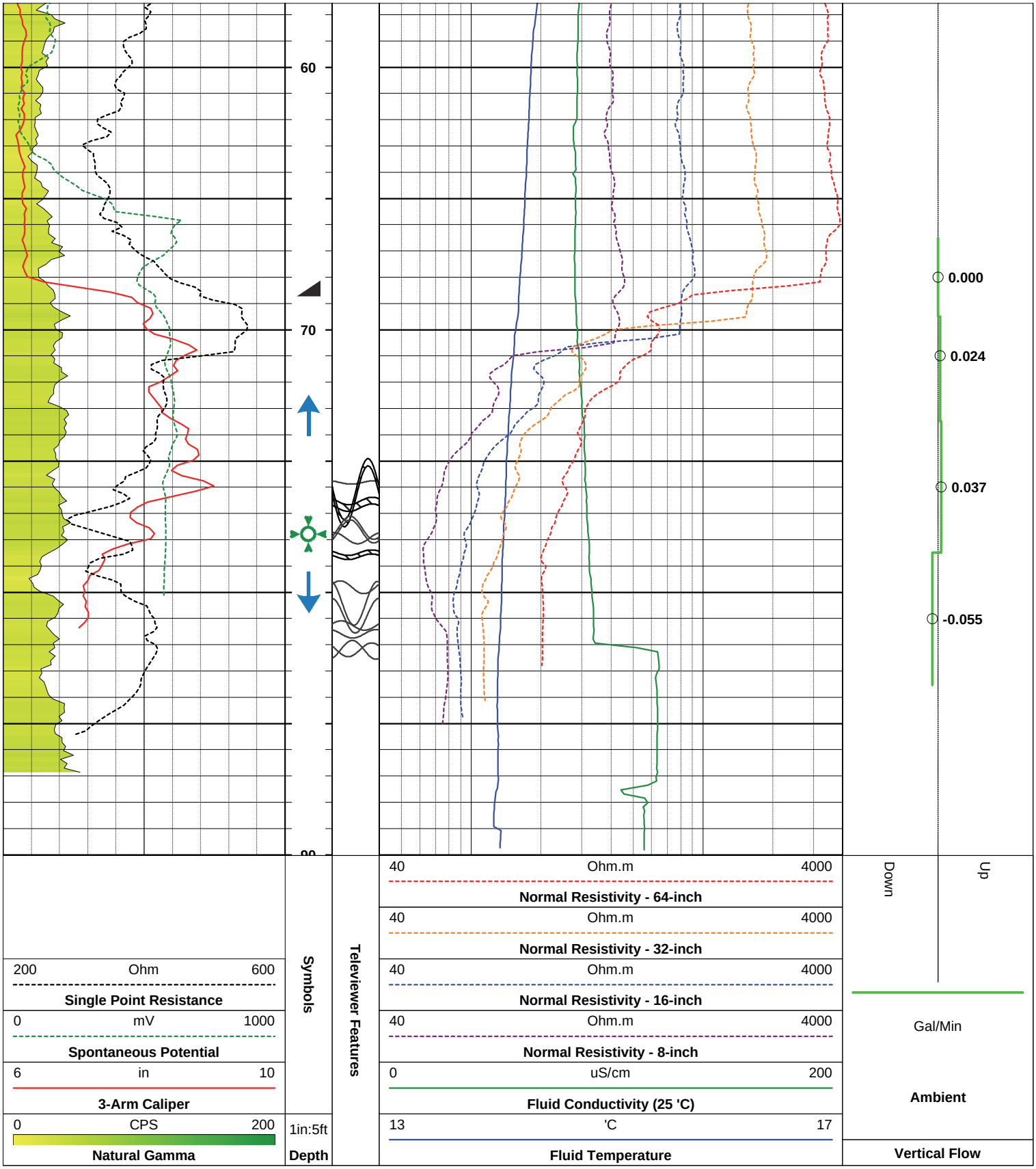
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200 Ohm 600
Single Point Resistance
0 mV 1000
Spontaneous Potential
6 in 10
3-Arm Caliper
0 CPS 200
Natural Gamma
Symbols
1in:5ft
Depth
Televiewer Features
40 Ohm.m 4000
Normal Resistivity - 64-inch
40 Ohm.m 4000
Normal Resistivity - 32-inch
40 Ohm.m 4000
Normal Resistivity - 16-inch
40 Ohm.m 4000
Normal Resistivity - 8-inch
0 uS/cm 200
Fluid Conductivity (25 'C)
13 'C 17
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

ATTACHMENT C
TABULATED LISTING OF PLANE ORIENTATIONS

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-01A	94.28	142.51	34.19	0	Foliation	N53E/34SE
DW-01A	95.56	152.32	31.92	0	Part. Open Fract	N62E/32SE
DW-01A	96.56	136.65	37.23	0	Foliation	N47E/37SE
DW-01A	96.87	148.78	36.29	0	Foliation	N59E/36SE
DW-01A	99.69	144.67	37.22	0	Foliation	N55E/37SE
DW-01A	100.54	135.14	39.57	0	Part. Open Fract	N45E/40SE
DW-01A	102.37	146.88	35.66	0	Foliation	N57E/36SE
DW-01A	103.07	144.99	30.16	0	Foliation	N55E/30SE
DW-01A	103.33	142.09	33.61	0	Part. Open Fract	N52E/34SE
DW-01A	103.83	148.04	33.25	0	Foliation	N58E/33SE
DW-01A	105.75	154.64	32.32	0	Foliation	N65E/32SE
DW-01A	105.96	149.52	35.87	0	Foliation	N60E/36SE
DW-01A	106.23	152.07	24.72	0	Foliation	N62E/25SE
DW-01A	106.44	150.43	24.89	0	Foliation	N60E/25SE
DW-01A	106.64	152.72	27.92	0	Foliation	N63E/28SE
DW-01A	106.96	153.21	26.01	0	Foliation	N63E/26SE
DW-01A	107.61	158.94	32.93	0	Foliation	N69E/33SE
DW-01A	108.13	156.62	28.86	0	Foliation	N67E/29SE
DW-01A	108.31	147.88	31.58	0	Foliation	N58E/32SE
DW-01A	109.21	178.61	45.5	0	Foliation	N89E/46SE
DW-01A	109.48	171.45	53.79	0	Part. Open Fract	N81E/54SE
DW-01A	110.16	149.79	40.42	0	Foliation	N60E/40SE
DW-01A	110.44	151.99	43.73	0	Foliation	N62E/44SE
DW-01A	110.55	156.16	38.83	0	Foliation	N66E/39SE
DW-01A	110.75	147.61	31.41	0	Foliation	N58E/31SE
DW-01A	112.5	155.63	58.51	0	Foliation	N66E/59SE
DW-01A	112.72	133.99	49.82	0	Foliation	N44E/50SE
DW-01A	114.17	122.24	40.88	0	Foliation	N32E/41SE
DW-01A	114.7	116.25	47.54	0	Foliation	N26E/48SE
DW-01A	115.17	120.89	42.13	0	Foliation	N31E/42SE
DW-01A	115.44	115.42	42.69	0	Foliation	N25E/43SE
DW-01A	116.35	117.7	38.23	0	Foliation	N28E/38SE
DW-01A	117.12	149.05	47.2	0	Foliation	N59E/47SE
DW-01A	125.9	146.41	58.85	0	Part. Open Fract	N56E/59SE
DW-01A	126.72	342.05	55.88	0	Part. Open Fract	N72E/56NW
DW-01A	128.8	151.23	64.25	0	Part. Open Fract	N61E/64SE
DW-01A	137.3	170.19	67.02	0	Part. Open Fract	N80E/67SE
DW-01A	139.03	177.94	68.92	0	Part. Open Fract	N88E/69SE
DW-01A	141.46	153.39	46.68	0	Foliation	N63E/47SE
DW-01A	142.9	2.3	65.51	29.29	Open Fracture	N88W/66NE
DW-01A	147.75	165.47	29.86	0	Foliation	N75E/30SE
DW-01A	148.02	186.37	79.82	0	Part. Open Fract	N84W/80SW
DW-01A	149.66	127.13	45.35	0	Part. Open Fract	N37E/45SE
DW-01A	151.11	143.43	35.66	0	Foliation	N53E/36SE
DW-01A	151.41	154.44	34.96	0	Part. Open Fract	N64E/35SE
DW-01A	151.72	159.85	47.09	0	Foliation	N70E/47SE
DW-01A	152.53	129.53	72.12	0	Part. Open Fract	N40E/72SE
DW-01A	152.68	156.84	53.24	0	Part. Open Fract	N67E/53SE
DW-01A	154.86	172.7	48.29	0	Foliation	N83E/48SE
DW-01A	155.26	153.95	49.51	0	Foliation	N64E/50SE
DW-01A	156	133.45	54.33	0	Part. Open Fract	N43E/54SE
DW-01A	158.86	123.84	28.56	0	Part. Open Fract	N34E/29SE
DW-01A	159.77	148.97	37.54	0	Part. Open Fract	N59E/38SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-01A	160.01	161.09	50.2	0	Part. Open Fract	N71E/50SE
DW-01A	161.86	170.31	54.45	0	Part. Open Fract	N80E/54SE
DW-01A	174.81	144.88	52.44	0	Part. Open Fract	N55E/52SE
DW-01A	175.34	177.06	62.69	0	Part. Open Fract	N87E/63SE
DW-01A	178.18	170.03	63.03	0	Part. Open Fract	N80E/63SE
DW-01A	179.2	167.99	36.59	0	Part. Open Fract	N78E/37SE
DW-01A	179.7	163.83	72.73	0	Part. Open Fract	N74E/73SE
DW-01A	182.19	88.63	72.3	0	Part. Open Fract	N1W/72NE
DW-01A	184.26	197.63	74.31	0	Part. Open Fract	N72W/74SW
DW-01A	186.97	112.55	84.29	0	Part. Open Fract	N23E/84SE
DW-01A	187.08	199.66	48.59	0	Foliation	N70W/49SW
DW-01A	194.48	146.03	48.04	0	Part. Open Fract	N56E/48SE
DW-01A	195.54	162.57	42.28	0	Part. Open Fract	N73E/42SE
DW-01A	196.21	159	38.87	0	Part. Open Fract	N69E/39SE
DW-01A	197.86	209.8	55.56	0	Part. Open Fract	N60W/56SW
DW-01A	202.54	230.09	73.38	0	Part. Open Fract	N40W/73SW
DW-01A	207.17	239.56	62.89	0	Part. Open Fract	N30W/63SW
DW-01A	210.91	101.06	51.34	0	Part. Open Fract	N11E/51SE
DW-01A	213.94	114.97	42.49	0	Part. Open Fract	N25E/42SE
DW-01A	214.14	116.44	52.9	0	Part. Open Fract	N26E/53SE
DW-01A	216.09	198.5	47.38	0	Part. Open Fract	N72W/47SW
DW-01A	216.43	76.16	5.4	0	Part. Open Fract	N14W/5NE
DW-01A	220.33	220.15	41.28	0	Part. Open Fract	N50W/41SW
DW-01A	224.66	142.48	63.91	0	Part. Open Fract	N52E/64SE
DW-01A	227.16	208.34	39.94	0	Foliation	N62W/40SW
DW-01A	229.22	192.77	35.79	0	Foliation	N77W/36SW
DW-01A	229.52	189.14	38.17	0	Foliation	N81W/38SW
DW-01A	230.05	117.85	58.94	0	Part. Open Fract	N28E/59SE
DW-01A	234.93	145.54	41.53	0	Part. Open Fract	N56E/42SE
DW-01A	252.13	117.26	57.37	0	Part. Open Fract	N27E/57SE
DW-01A	255.3	137.24	63.48	0	Part. Open Fract	N47E/63SE
DW-01A	257.18	124.34	52.98	0	Part. Open Fract	N34E/53SE
DW-01A	257.77	139.33	55.29	0	Part. Open Fract	N49E/55SE
DW-01A	263.85	139.1	44.61	0	Foliation	N49E/45SE
DW-01A	264.39	122.42	49.24	0	Foliation	N32E/49SE
DW-01A	265.33	145.13	24.85	0	Foliation	N55E/25SE
DW-01A	266.03	139.01	37.31	0	Foliation	N49E/37SE
DW-01A	267.27	131.83	41.92	0	Foliation	N42E/42SE
DW-01A	268.02	129.41	46.85	0	Foliation	N39E/47SE
DW-01A	270.73	133.38	50.88	0	Foliation	N43E/51SE
DW-01A	270.8	290.69	56.7	0	Part. Open Fract	N21E/57NW
DW-01A	271.89	122.46	50.73	0	Foliation	N32E/51SE
DW-01A	272.33	124.37	55.97	0	Foliation	N34E/56SE
DW-01A	272.8	132.42	58.41	0	Foliation	N42E/58SE
DW-01A	273.52	134.72	61.18	0	Part. Open Fract	N45E/61SE
DW-01A	274.86	141.34	66.52	0	Foliation	N51E/67SE
DW-01A	275.7	130.44	65.13	0	Foliation	N40E/65SE
DW-01A	276.14	124.57	65.89	0	Foliation	N35E/66SE
DW-01A	278.86	95.97	61.65	0	Part. Open Fract	N6E/62SE
DW-01A	279.93	100.18	70.54	0	Part. Open Fract	N10E/71SE
DW-01A	282.04	122.39	35.18	0	Part. Open Fract	N32E/35SE
DW-01A	282.93	122.67	42.28	0	Part. Open Fract	N33E/42SE
DW-01A	286.43	138.73	32.22	0	Part. Open Fract	N49E/32SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	92.25	110.27	41.09	0	Foliation	N20E/41SE
DW-02A	93.36	105.73	43.17	0	Foliation	N16E/43SE
DW-02A	94.28	121.27	44.11	0	Foliation	N31E/44SE
DW-02A	95.16	137.59	44.64	0	Foliation	N48E/45SE
DW-02A	95.57	130.79	43.99	0	Foliation	N41E/44SE
DW-02A	97.44	122.06	48.9	0	Foliation	N32E/49SE
DW-02A	98.19	122.29	52.8	0	Foliation	N32E/53SE
DW-02A	98.98	122.09	44.81	0	Foliation	N32E/45SE
DW-02A	99.3	121.05	44.76	0	Foliation	N31E/45SE
DW-02A	99.95	122.09	43.1	0	Foliation	N32E/43SE
DW-02A	103.05	99.14	42.88	0	Foliation	N9E/43SE
DW-02A	103.69	114.35	42.01	0	Foliation	N24E/42SE
DW-02A	106.77	119.81	69.79	15.44	Filled Fracture	N30E/70SE
DW-02A	108.18	97.41	77.55	0	Filled Fracture	N7E/78SE
DW-02A	109.43	3.18	85.1	0	Part. Open Fract	N87W/85NE
DW-02A	109.89	99.18	67.08	0	Filled Fracture	N9E/67SE
DW-02A	110.01	358.25	85.63	0	Part. Open Fract	N88E/86NW
DW-02A	110.77	96.31	66.72	0	Filled Fracture	N6E/67SE
DW-02A	113.33	117.6	43.18	0	Foliation	N28E/43SE
DW-02A	113.95	127.46	42.79	0	Foliation	N37E/43SE
DW-02A	114.78	144.84	43.69	0	Foliation	N55E/44SE
DW-02A	115.54	125.72	45.02	0	Part. Open Fract	N36E/45SE
DW-02A	118.19	139.12	38.76	0	Foliation	N49E/39SE
DW-02A	120.93	97.52	79.52	0	Part. Open Fract	N8E/80SE
DW-02A	121.01	212.16	78	0	Part. Open Fract	N58W/78SW
DW-02A	121.15	144.03	62.04	0	Part. Open Fract	N54E/62SE
DW-02A	121.9	141.09	62.88	0	Part. Open Fract	N51E/63SE
DW-02A	122.51	150.58	34.8	0	Part. Open Fract	N61E/35SE
DW-02A	123.99	94.58	74.96	0	Filled Fracture	N5E/75SE
DW-02A	125.46	99.48	79.76	0	Filled Fracture	N9E/80SE
DW-02A	126.25	141.77	38.85	0	Foliation	N52E/39SE
DW-02A	126.51	109.2	78.49	0	Filled Fracture	N19E/78SE
DW-02A	127.88	115.1	37.31	0	Foliation	N25E/37SE
DW-02A	130.11	116.44	44.4	0	Foliation	N26E/44SE
DW-02A	130.45	127.14	46.4	0	Foliation	N37E/46SE
DW-02A	131.26	136.5	45.97	0	Foliation	N47E/46SE
DW-02A	131.75	127.92	45.31	0	Foliation	N38E/45SE
DW-02A	132.08	120.21	44.24	0	Foliation	N30E/44SE
DW-02A	132.67	122.01	43.7	0	Foliation	N32E/44SE
DW-02A	133.38	121.85	49.65	0	Part. Open Fract	N32E/50SE
DW-02A	134.19	144.67	50.78	0	Foliation	N55E/51SE
DW-02A	134.86	134.1	53.23	0	Foliation	N44E/53SE
DW-02A	135.41	129.27	47.17	0	Foliation	N39E/47SE
DW-02A	136.23	121.3	46.12	0	Foliation	N31E/46SE
DW-02A	136.56	110.82	44.5	0	Foliation	N21E/45SE
DW-02A	138.11	117.61	49.05	0	Foliation	N28E/49SE
DW-02A	138.71	129.03	46.49	0	Foliation	N39E/46SE
DW-02A	140.6	211.12	76.46	0	Part. Open Fract	N59W/76SW
DW-02A	142.21	116.51	44.38	0	Part. Open Fract	N27E/44SE
DW-02A	143.09	169.34	65.92	0	Part. Open Fract	N79E/66SE
DW-02A	144.08	108.02	47.09	0	Foliation	N18E/47SE
DW-02A	144.33	112.8	51.86	0	Foliation	N23E/52SE
DW-02A	145.06	108.39	51.9	0	Foliation	N18E/52SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	145.55	126.82	43.58	0	Foliation	N37E/44SE
DW-02A	146.31	127.19	47.96	0	Foliation	N37E/48SE
DW-02A	147.62	116.94	51.49	0	Part. Open Fract	N27E/51SE
DW-02A	148.03	122.53	47.21	0	Foliation	N33E/47SE
DW-02A	148.54	127.47	49.79	0	Foliation	N37E/50SE
DW-02A	148.99	153.64	57.53	0	Part. Open Fract	N64E/58SE
DW-02A	151.15	192.75	64.25	0	Part. Open Fract	N77W/64SW
DW-02A	152.09	176.28	62.63	0	Part. Open Fract	N86E/63SE
DW-02A	152.64	163.7	68.83	0	Part. Open Fract	N74E/69SE
DW-02A	153.47	89.72	56.82	0	Part. Open Fract	N0W/57NE
DW-02A	153.54	201.45	56.93	0	Part. Open Fract	N69W/57SW
DW-02A	154.67	198.47	50	0	Part. Open Fract	N72W/50SW
DW-02A	155.99	121.4	41.52	0	Part. Open Fract	N31E/42SE
DW-02A	158.29	135.8	42.75	0	Foliation	N46E/43SE
DW-02A	161.72	129.29	39.55	0	Foliation	N39E/40SE
DW-02A	162.39	122.93	45.94	0	Foliation	N33E/46SE
DW-02A	162.76	137.88	43.47	0	Foliation	N48E/43SE
DW-02A	163.18	102	60.31	0	Part. Open Fract	N12E/60SE
DW-02A	163.58	100.09	62.12	0	Part. Open Fract	N10E/62SE
DW-02A	164.76	12.05	67.19	0	Part. Open Fract	N78W/67NE
DW-02A	165.44	127.9	45.11	0	Foliation	N38E/45SE
DW-02A	166.12	138.25	41.09	0	Foliation	N48E/41SE
DW-02A	166.61	139.35	40.04	0	Foliation	N49E/40SE
DW-02A	167.91	122.07	36.84	0	Part. Open Fract	N32E/37SE
DW-02A	169.25	172.79	76.71	0	Part. Open Fract	N83E/77SE
DW-02A	172.55	127.63	41.62	0	Foliation	N38E/42SE
DW-02A	173.3	131.05	41.36	0	Foliation	N41E/41SE
DW-02A	173.73	119.82	46.68	0	Foliation	N30E/47SE
DW-02A	174.64	121.98	48	0	Foliation	N32E/48SE
DW-02A	175.2	88.57	56.68	0	Part. Open Fract	N1W/57NE
DW-02A	176.15	83.4	66.65	0	Part. Open Fract	N7W/67NE
DW-02A	176.96	104.74	68.27	0	Part. Open Fract	N15E/68SE
DW-02A	179.3	123.86	43.48	0	Foliation	N34E/43SE
DW-02A	180.02	198.83	54.04	0	Filled Fracture	N71W/54SW
DW-02A	180.98	196.7	58.12	0	Filled Fracture	N73W/58SW
DW-02A	182.1	131.73	43.77	0	Foliation	N42E/44SE
DW-02A	182.91	210.92	57.02	0	Filled Fracture	N59W/57SW
DW-02A	183.67	167.58	54.15	0	Filled Fracture	N78E/54SE
DW-02A	184.19	193.54	54.12	0	Filled Fracture	N76W/54SW
DW-02A	186.56	179.02	60.46	0	Filled Fracture	N89E/60SE
DW-02A	188.28	148.45	82.21	0	Part. Open Fract	N58E/82SE
DW-02A	190.29	172.83	59.12	0	Filled Fracture	N83E/59SE
DW-02A	190.88	129.08	40.61	0	Foliation	N39E/41SE
DW-02A	191.67	125.1	38.04	0	Foliation	N35E/38SE
DW-02A	193.64	100.25	67.97	0	Part. Open Fract	N10E/68SE
DW-02A	195.21	138.59	38.33	0	Foliation	N49E/38SE
DW-02A	197.18	151.05	34.36	0	Foliation	N61E/34SE
DW-02A	197.43	141.24	38.39	0	Foliation	N51E/38SE
DW-02A	197.78	145	40.54	0	Foliation	N55E/41SE
DW-02A	198.27	134.45	40.39	0	Part. Open Fract	N44E/40SE
DW-02A	198.95	147.17	35.31	0	Foliation	N57E/35SE
DW-02A	199.56	151.23	38.19	0	Foliation	N61E/38SE
DW-02A	200.38	154.16	42.29	0	Foliation	N64E/42SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	200.95	142.57	35.31	0	Foliation	N53E/35SE
DW-02A	201.27	141.13	47.05	0	Foliation	N51E/47SE
DW-02A	202.21	145.67	42.68	0	Foliation	N56E/43SE
DW-02A	202.69	145.69	41.48	0	Foliation	N56E/41SE
DW-02A	203	134.8	41.74	0	Foliation	N45E/42SE
DW-02A	203.25	138.44	41.01	0	Foliation	N48E/41SE
DW-02A	203.77	138.53	43.13	0	Foliation	N49E/43SE
DW-02A	203.98	141.09	39.91	0	Foliation	N51E/40SE
DW-02A	204.31	141.32	42.65	0	Foliation	N51E/43SE
DW-02A	204.54	127.55	41.03	0	Foliation	N38E/41SE
DW-02A	205.51	134.23	44.72	0	Part. Open Fract	N44E/45SE
DW-02A	205.64	93.02	64.46	0	Filled Fracture	N3E/64SE
DW-02A	208.58	338.37	17.8	0	Part. Open Fract	N68E/18NW
DW-02A	209.96	139.14	41.99	0	Foliation	N49E/42SE
DW-02A	211.88	120.43	49.1	0	Part. Open Fract	N30E/49SE
DW-02A	214.83	131.6	42.47	0	Foliation	N42E/42SE
DW-02A	215.36	133.14	37.65	0	Foliation	N43E/38SE
DW-02A	215.74	134.24	40.37	0	Foliation	N44E/40SE
DW-02A	216.29	142.75	40.96	0	Foliation	N53E/41SE
DW-02A	216.54	139.03	41.35	0	Foliation	N49E/41SE
DW-02A	217.68	125.6	55.47	0	Filled Fracture	N36E/55SE
DW-02A	218.68	180.12	66.98	0	Part. Open Fract	N90W/67SW
DW-02A	219.75	178.06	62.24	0	Part. Open Fract	N88E/62SE
DW-02A	220.49	128.27	37.44	0	Foliation	N38E/37SE
DW-02A	220.88	117.18	36.18	0	Foliation	N27E/36SE
DW-02A	221.39	133.91	40.94	0	Foliation	N44E/41SE
DW-02A	221.64	113.96	48.96	0	Filled Fracture	N24E/49SE
DW-02A	221.91	122.69	40.01	0	Foliation	N33E/40SE
DW-02A	222.33	130.2	38.25	0	Part. Open Fract	N40E/38SE
DW-02A	223.7	138.75	38.08	0	Foliation	N49E/38SE
DW-02A	226.89	104.05	55.75	0	Filled Fracture	N14E/56SE
DW-02A	227.41	137.33	33.98	0	Foliation	N47E/34SE
DW-02A	228.23	132.56	39.08	0	Foliation	N43E/39SE
DW-02A	228.55	141.43	36.49	0	Foliation	N51E/36SE
DW-02A	230.14	127.79	33.96	0	Foliation	N38E/34SE
DW-02A	230.79	128.53	30.6	0	Foliation	N39E/31SE
DW-02A	231.18	137.75	71.8	0	Part. Open Fract	N48E/72SE
DW-02A	232.02	93.55	44.8	0	Foliation	N4E/45SE
DW-02A	232.96	99.41	36.7	0	Foliation	N9E/37SE
DW-02A	233.39	90.75	41.35	0	Foliation	N1E/41SE
DW-02A	233.7	105.9	46.37	0	Foliation	N16E/46SE
DW-02A	236.86	69.28	47.35	11.78	Open Fracture	N21W/47NE
DW-02A	237.75	86.42	46.57	0	Foliation	N4W/47NE
DW-02A	238.19	97.27	46.31	0	Foliation	N7E/46SE
DW-02A	238.79	80.73	36.83	0	Foliation	N9W/37NE
DW-02A	239.94	133.81	39.4	0	Foliation	N44E/39SE
DW-02A	240.12	134.4	33.17	0	Foliation	N44E/33SE
DW-02A	240.4	241.37	67.72	0	Part. Open Fract	N29W/68SW
DW-02A	240.92	133.11	33.93	0	Foliation	N43E/34SE
DW-02A	241.22	137.32	40.63	0	Foliation	N47E/41SE
DW-02A	241.37	89.35	63.9	0	Part. Open Fract	N1W/64NE
DW-02A	242.06	132.73	39.03	0	Foliation	N43E/39SE
DW-02A	242.55	130.92	32.64	0	Foliation	N41E/33SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	243.27	130.9	38.74	0	Foliation	N41E/39SE
DW-02A	243.73	126.39	40.4	0	Foliation	N36E/40SE
DW-02A	243.91	137.29	40.36	0	Foliation	N47E/40SE
DW-02A	244.2	132.68	37.83	0	Foliation	N43E/38SE
DW-02A	244.81	125.27	38.09	0	Foliation	N35E/38SE
DW-02A	245.11	122.46	40.81	0	Foliation	N32E/41SE
DW-02A	245.56	294.79	54.84	15.02	Open Fracture	N25E/55NW
DW-02A	247.96	131.61	36.19	0	Foliation	N42E/36SE
DW-02A	248.68	111.04	35.55	0	Foliation	N21E/36SE
DW-02A	250.24	223.26	63.93	4.2	Open Fracture	N47W/64SW
DW-02A	251.79	201.99	67.85	0	Part. Open Fract	N68W/68SW
DW-02A	255.4	110.52	44.41	27.06	Open Fracture	N21E/44SE
DW-02A	256.15	74.98	32.48	0	Filled Fracture	N15W/32NE
DW-02A	258.05	225.16	18.09	0	Filled Fracture	N45W/18SW
DW-02A	258.41	123.61	34.4	0	Foliation	N34E/34SE
DW-03A	101.14	83.72	40.13	0	Foliation	N6W/40NE
DW-03A	102.36	60.15	36.27	0	Foliation	N30W/36NE
DW-03A	103.38	56.18	36.57	0	Foliation	N34W/37NE
DW-03A	104.05	37.64	40.14	0	Foliation	N52W/40NE
DW-03A	105.78	149.14	33.95	0	Foliation	N59E/34SE
DW-03A	107	152.96	41.93	0	Foliation	N63E/42SE
DW-03A	107.54	163.9	39.83	0	Foliation	N74E/40SE
DW-03A	107.79	172.54	47.55	0	Open Fracture	N83E/48SE
DW-03A	108.65	163.37	34.57	0	Foliation	N73E/35SE
DW-03A	110.13	170.98	63.32	0	Part. Open Fract	N81E/63SE
DW-03A	112.05	178.02	36.18	0	Foliation	N88E/36SE
DW-03A	112.82	175.46	31.13	0	Foliation	N85E/31SE
DW-03A	112.97	176.7	22.41	0	Filled Fracture	N87E/22SE
DW-03A	113.48	215.04	36.66	0	Filled Fracture	N55W/37SW
DW-03A	115.24	152.61	70.34	0	Part. Open Fract	N63E/70SE
DW-03A	116.15	168.08	60.69	0	Part. Open Fract	N78E/61SE
DW-03A	116.97	180.31	32.74	0	Part. Open Fract	N90W/33SW
DW-03A	117.18	172.11	47.42	0	Part. Open Fract	N82E/47SE
DW-03A	118.86	171.65	70.72	0	Part. Open Fract	N82E/71SE
DW-03A	119.81	176.53	51.12	0	Part. Open Fract	N87E/51SE
DW-03A	122.09	174.6	55.77	0	Part. Open Fract	N85E/56SE
DW-03A	129.85	304.16	61.29	0	Part. Open Fract	N34E/61NW
DW-03A	130.46	313.25	63.63	0	Part. Open Fract	N43E/64NW
DW-03A	132.16	117.96	31.76	0	Part. Open Fract	N28E/32SE
DW-03A	135.98	353.35	66.23	0	Part. Open Fract	N83E/66NW
DW-03A	138.13	333.04	47.88	9.55	Open Fracture	N63E/48NW
DW-03A	138.98	176.85	19.76	0	Foliation	N87E/20SE
DW-03A	139.18	163.46	22.19	0	Foliation	N73E/22SE
DW-03A	139.75	163.76	25.96	0	Foliation	N74E/26SE
DW-03A	140	164.95	19.71	0	Foliation	N75E/20SE
DW-03A	140.42	174.8	33.16	0	Part. Open Fract	N85E/33SE
DW-03A	142.65	165.98	37.23	0	Foliation	N76E/37SE
DW-03A	150.43	154.75	17.96	0	Part. Open Fract	N65E/18SE
DW-03A	151.93	195.09	43.32	0	Part. Open Fract	N75W/43SW
DW-03A	169.18	206.43	38.99	0	Foliation	N64W/39SW
DW-03A	169.54	218.06	37.8	0	Foliation	N52W/38SW
DW-03A	169.92	204.5	36.56	0	Foliation	N66W/37SW
DW-03A	172.77	179.08	49.98	0	Foliation	N89E/50SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-03A	173.41	172.41	52.16	0	Foliation	N82E/52SE
DW-03A	174.77	157.84	56.07	0	Foliation	N68E/56SE
DW-03A	176.55	184.48	54.16	0	Part. Open Fract	N86W/54SW
DW-03A	177.19	170.18	42.92	0	Part. Open Fract	N80E/43SE
DW-03A	177.89	244.92	21.31	0	Foliation	N25W/21SW
DW-03A	178.27	277.78	23.96	0	Part. Open Fract	N8E/24NW
DW-03A	178.81	136.44	47.22	0	Foliation	N46E/47SE
DW-03A	179.27	140	47.61	0	Foliation	N50E/48SE
DW-03A	180.26	117.74	35.66	0	Foliation	N28E/36SE
DW-03A	180.88	126.98	38.71	0	Foliation	N37E/39SE
DW-03A	181.15	136.64	36.54	0	Foliation	N47E/37SE
DW-03A	181.43	114.87	36.78	0	Foliation	N25E/37SE
DW-03A	182.33	110.95	45.58	0	Foliation	N21E/46SE
DW-03A	184.03	121.14	40.12	0	Part. Open Fract	N31E/40SE
DW-03A	184.3	122.79	40.48	0	Part. Open Fract	N33E/40SE
DW-03A	184.41	122.55	43.22	0	Foliation	N33E/43SE
DW-03A	184.83	119.06	41.24	0	Foliation	N29E/41SE
DW-03A	185.56	157.49	49.97	0	Part. Open Fract	N67E/50SE
DW-03A	186.04	319.32	24.08	0	Part. Open Fract	N49E/24NW
DW-03A	186.72	115.8	46.1	0	Part. Open Fract	N26E/46SE
DW-03A	188.04	149.69	76.15	0	Part. Open Fract	N60E/76SE
DW-03A	189.64	204.2	55.42	0	Part. Open Fract	N66W/55SW
DW-03A	190.38	289.15	8.3	0	Part. Open Fract	N19E/8NW
DW-03A	190.98	131.88	47.78	0	Foliation	N42E/48SE
DW-03A	191.43	114.95	47.85	0	Foliation	N25E/48SE
DW-03A	191.79	150.51	6.53	0	Foliation	N61E/7SE
DW-04A	95.41	208.82	52.04	0	Part. Open Fract	N61W/52SW
DW-04A	102.98	154.23	42.16	0	Foliation	N64E/42SE
DW-04A	103.32	164.9	41.28	0	Foliation	N75E/41SE
DW-04A	103.65	162.68	41.13	0	Foliation	N73E/41SE
DW-04A	103.94	159.07	38.26	0	Foliation	N69E/38SE
DW-04A	104.1	158.28	41.09	0	Foliation	N68E/41SE
DW-04A	104.9	162.78	38.23	0	Foliation	N73E/38SE
DW-04A	105.48	248.08	48.16	0	Part. Open Fract	N22W/48SW
DW-04A	106.28	164.63	41.05	0	Foliation	N75E/41SE
DW-04A	107.17	146.42	37	0	Foliation	N56E/37SE
DW-04A	110.14	140.45	48.46	0	Foliation	N50E/48SE
DW-04A	111.53	149.24	56.16	0	Foliation	N59E/56SE
DW-04A	112.29	165.98	48.28	0	Foliation	N76E/48SE
DW-04A	112.68	162.3	47.08	0	Foliation	N72E/47SE
DW-04A	112.92	296.01	72.51	0	Part. Open Fract	N26E/73NW
DW-04A	113.61	192.87	43.2	0	Foliation	N77W/43SW
DW-04A	114.81	240.91	73.61	0	Part. Open Fract	N29W/74SW
DW-04A	117.5	168.86	63.28	0	Part. Open Fract	N79E/63SE
DW-04A	120.92	183.78	55.36	0	Foliation	N86W/55SW
DW-04A	123.02	161.41	51.72	0	Foliation	N71E/52SE
DW-04A	123.39	188.85	78.21	0	Part. Open Fract	N81W/78SW
DW-04A	123.48	147.16	48.26	0	Foliation	N57E/48SE
DW-04A	126.45	153.66	38.93	0	Foliation	N64E/39SE
DW-04A	126.93	158.61	42.37	0	Foliation	N69E/42SE
DW-04A	127.31	152.58	29.21	0	Foliation	N63E/29SE
DW-04A	127.59	196.61	62.58	0	Part. Open Fract	N73W/63SW
DW-04A	128.17	142.01	37.36	0	Foliation	N52E/37SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-04A	130.19	108.06	52.26	0	Part. Open Fract	N18E/52SE
DW-04A	130.58	147.47	45.82	0	Foliation	N57E/46SE
DW-04A	131.33	135.74	43.68	0	Foliation	N46E/44SE
DW-04A	133.75	113.93	39.61	0	Part. Open Fract	N24E/40SE
DW-04A	133.94	100.58	54.81	0	Part. Open Fract	N11E/55SE
DW-04A	134.44	116	53.37	0	Part. Open Fract	N26E/53SE
DW-04A	134.71	91.82	55.67	0	Part. Open Fract	N2E/56SE
DW-04A	135.43	106.31	78.11	0	Part. Open Fract	N16E/78SE
DW-04A	136.78	134.16	45.17	0	Foliation	N44E/45SE
DW-04A	136.94	134.05	47.41	0	Foliation	N44E/47SE
DW-04A	138.28	128.13	51.78	0	Foliation	N38E/52SE
DW-04A	138.78	110.81	53.67	0	Foliation	N21E/54SE
DW-04A	139.57	157.22	72.11	0	Part. Open Fract	N67E/72SE
DW-04A	139.61	269.43	67.66	0	Part. Open Fract	N1W/68SW
DW-04A	139.71	215.56	39.24	0	Part. Open Fract	N54W/39SW
DW-04A	140.25	201.7	50.06	0	Foliation	N68W/50SW
DW-04A	140.8	201.2	47.67	0	Foliation	N69W/48SW
DW-04A	141.86	214.16	42.17	0	Foliation	N56W/42SW
DW-04A	142.37	154.23	40.11	0	Foliation	N64E/40SE
DW-04A	142.83	146.84	41.09	0	Foliation	N57E/41SE
DW-04A	143.6	136.49	41.36	0	Foliation	N46E/41SE
DW-04A	145.36	119.69	34.13	0	Foliation	N30E/34SE
DW-04A	146.63	216.11	72.67	0	Part. Open Fract	N54W/73SW
DW-04A	149.47	148.86	31.37	0	Foliation	N59E/31SE
DW-04A	149.8	145.15	31.67	0	Foliation	N55E/32SE
DW-04A	150.54	148.67	39.46	0	Foliation	N59E/39SE
DW-04A	151.29	125.84	25.36	0	Foliation	N36E/25SE
DW-04A	152.08	131.18	27.61	0	Foliation	N41E/28SE
DW-04A	153.83	171.44	17.63	0	Foliation	N81E/18SE
DW-04A	154.22	177.48	18.37	0	Foliation	N87E/18SE
DW-04A	158.81	159.62	59.39	0	Part. Open Fract	N70E/59SE
DW-04A	161.48	91.22	55.21	0	Part. Open Fract	N1E/55SE
DW-04A	162.2	114.99	53.55	0	Part. Open Fract	N25E/54SE
DW-04A	162.65	103.46	55.3	0	Part. Open Fract	N13E/55SE
DW-04B	75.82	145.64	9.88	0	Part. Open Fract	N56E/10SE
DW-04B	76.2	94.49	72.4	10.1	Broken/Void/Soft Zone	N4E/72SE
DW-04B	76.65	126.85	23.08	27.85	Broken/Void/Soft Zone	N37E/23SE
DW-04B	77.61	318.28	52.9	9.69	Part. Open Fract	N48E/53NW
DW-04B	77.95	195.5	32.16	0	Part. Open Fract	N75W/32SW
DW-04B	78.57	121.26	19.09	18.75	Broken/Void/Soft Zone	N31E/19SE
DW-04B	79.8	241.71	39.35	0	Part. Open Fract	N28W/39SW
DW-04B	80.42	167.19	70.4	0	Part. Open Fract	N77E/70SE
DW-04B	80.88	177.32	65.43	0	Part. Open Fract	N87E/65SE
DW-04B	81.28	248.42	31.49	0	Part. Open Fract	N22W/31SW
DW-04B	81.57	156.94	2.22	0	Part. Open Fract	N67E/2SE
DW-04B	82.19	334.53	4.88	0	Part. Open Fract	N65E/5NW
DW-04B	82.2	122.68	3.6	0	Part. Open Fract	N33E/4SE

APPENDIX D

Laboratory Data

Laboratory Test Results
Chain of Custody Documentation

Pace Analytical Services
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

782 North Lee Highway
Lexington, VA 24450
TEL: 540.464.1880

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

Tuesday, January 22, 2019

TEL: (540) 483-3311
FAX:

RE: CSVI

Work Order #: 19010874

Dear Mr. Trev Greene:

Pace Analytical Services received 20 sample(s) on 1/8/2019 for the analyses presented in the following report.

Sincerely,

Scott Gross
Project Manager
(304) 250-6220

Pace Analytical Services - Case Narrative

WO#: 19010874

Date Reported: 1/22/2019
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by the Lexington and Morgantown Service Centers are designated by an annotation on the test code. All other tests were performed by Pace Analytical Services, LLC Laboratory in Beaver, WV. Subcontracted results are attached to the end of the report.

This report may not be reproduced, except in full, without the written approval of Pace Analytical Services, LLC.

All samples are stored for a minimum of 14 days after the date of the final report. All records are stored for a minimum of 5 years. If longer sample or records retention is required, please contact your project manager for details.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Lexington, VA: VADCLS(VELAP) 460150
Morgantown, WV: WVDHHR 003112M, WVDEP 387

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 11:30:00 AM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-01A	**Matrix:**	Soil
Client Sample ID:	GS01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	26	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	2,520	25.0	50.0	NA		mg/Kg	01/09/19 8:15AM	01/09/19 5:03PM	PA/VA
Surr: 2,5-Dibromotoluene	99.9	NA	41.8-138	NA		%Rec	01/09/19 8:15AM	01/09/19 5:03PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: DTC**	
Benzene	ND	1.28	4.00	NA		mg/Kg	01/09/19 8:15AM	01/14/19 8:07PM	PA/VA
Ethylbenzene	19.5	1.75	4.00	NA		mg/Kg	01/09/19 8:15AM	01/14/19 8:07PM	PA/VA
m,p-Xylene	212	10.0	20.0	NA		mg/Kg	01/09/19 8:15AM	01/15/19 10:48PM	PA/VA
Methyl tert-butyl ether	ND	8.34	20.0	NA		mg/Kg	01/09/19 8:15AM	01/14/19 8:07PM	PA/VA
Naphthalene	47.0	5.00	10.0	NA		mg/Kg	01/09/19 8:15AM	01/15/19 10:48PM	PA/VA
o-Xylene	70.3	5.00	10.0	NA		mg/Kg	01/09/19 8:15AM	01/15/19 10:48PM	PA/VA
Toluene	3.83	1.74	4.00	NA	J	mg/Kg	01/09/19 8:15AM	01/14/19 8:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	102	NA	79.9-120	NA		%Rec	01/09/19 8:15AM	01/14/19 8:07PM	
Surr: 4-Bromofluorobenzene	114	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/14/19 8:07PM	
Surr: Dibromofluoromethane	90.2	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/14/19 8:07PM	
Surr: Toluene-d8	101	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/14/19 8:07PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 5:30:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-02A	**Matrix:**	Soil
Client Sample ID:	GS02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	5,260	58.3	79.8	NA		mg/Kg	01/14/19 8:51AM	01/18/19 12:01PM	PA/VA
Surr: o-Terphenyl	181	NA	49.2-135	NA	S	%Rec	01/14/19 8:51AM	01/18/19 12:01PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
Ethylbenzene	0.0407	0.00175	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
m,p-Xylene	0.0588	0.00339	0.00800	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
Naphthalene	0.152	0.0250	0.0500	NA		mg/Kg	01/09/19 8:16AM	01/15/19 11:18AM	PA/VA
o-Xylene	0.0244	0.00160	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
Toluene	0.00439	0.00174	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 1:30AM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.9	NA	79.9-120	NA		%Rec	01/09/19 8:16AM	01/17/19 1:30AM	
Surr: 4-Bromofluorobenzene	246	NA	77-148	NA	S	%Rec	01/09/19 8:16AM	01/17/19 1:30AM	
Surr: Dibromofluoromethane	94.8	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/17/19 1:30AM	
Surr: Toluene-d8	89.1	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/17/19 1:30AM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 9:40:00 AM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-03A	**Matrix:**	Soil
Client Sample ID:	DIESEL DISPENSER	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	27	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	888	58.4	80.0	NA		mg/Kg	01/14/19 8:51AM	01/18/19 12:28PM	PA/VA
Surr: o-Terphenyl	91.9	NA	49.2-135	NA		%Rec	01/14/19 8:51AM	01/18/19 12:28PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
Ethylbenzene	0.0275	0.00175	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
m,p-Xylene	0.00674	0.00339	0.00800	NA	J	mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA		mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
Naphthalene	0.350	0.0500	0.100	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:23AM	PA/VA
o-Xylene	0.00512	0.00160	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
Toluene	0.0429	0.00174	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/17/19 2:04AM	PA/VA
Surr: 1,2-Dichloroethane-d4	76.6	NA	79.9-120	NA	S	%Rec	01/09/19 8:16AM	01/17/19 2:04AM	
Surr: 4-Bromofluorobenzene	157	NA	77-148	NA	S	%Rec	01/09/19 8:16AM	01/17/19 2:04AM	
Surr: Dibromofluoromethane	87.9	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/17/19 2:04AM	
Surr: Toluene-d8	94.3	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/17/19 2:04AM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 9:45:00 AM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-04A	**Matrix:**	Soil
Client Sample ID:	KAROSENE DISPENSER	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	1,040	57.9	79.4	NA		mg/Kg	01/14/19 8:51AM	01/18/19 1:00PM	PA/VA
Surr: o-Terphenyl	97.4	NA	49.2-135	NA		%Rec	01/14/19 8:51AM	01/18/19 1:00PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: ES**	
Benzene	ND	0.0125	0.0250	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
Ethylbenzene	0.0402	0.0125	0.0250	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
m,p-Xylene	ND	0.0250	0.0500	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
Methyl tert-butyl ether	ND	0.0625	0.125	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
Naphthalene	0.0375	0.0125	0.0250	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
o-Xylene	0.0200	0.0125	0.0250	NA	J	mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
Toluene	ND	0.0125	0.0250	NA		mg/Kg	01/09/19 8:16AM	01/21/19 10:56AM	PA/VA
Surr: 1,2-Dichloroethane-d4	83.3	NA	79.9-120	NA		%Rec	01/09/19 8:16AM	01/21/19 10:56AM	
Surr: 4-Bromofluorobenzene	111	NA	77-148	NA		%Rec	01/09/19 8:16AM	01/21/19 10:56AM	
Surr: Dibromofluoromethane	88.2	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/21/19 10:56AM	
Surr: Toluene-d8	94.4	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/21/19 10:56AM	

Notes:

The reporting limit is elevated as a result of dilutions required due to matrix interference.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 3:20:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-05A	**Matrix:**	Soil
Client Sample ID:	UST #1 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	22	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	215	5.82	7.98	NA		mg/Kg	01/14/19 8:51AM	01/18/19 5:26AM	PA/VA
Surr: o-Terphenyl	90.0	NA	49.2-135	NA		%Rec	01/14/19 8:51AM	01/18/19 5:26AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
Naphthalene	0.0575	0.00200	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
Toluene	0.00215	0.00200	0.00400	NA	J	mg/Kg	01/09/19 8:16AM	01/10/19 6:40PM	PA/VA
Surr: 1,2-Dichloroethane-d4	78.2	NA	79.9-120	NA	S	%Rec	01/09/19 8:16AM	01/10/19 6:40PM	
Surr: 4-Bromofluorobenzene	108	NA	77-148	NA		%Rec	01/09/19 8:16AM	01/10/19 6:40PM	
Surr: Dibromofluoromethane	88.7	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/10/19 6:40PM	
Surr: Toluene-d8	91.1	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/10/19 6:40PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 3:25:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-06A	**Matrix:**	Soil
Client Sample ID:	UST #1 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	40.4	5.81	7.96	NA		mg/Kg	01/14/19 8:51AM	01/18/19 5:57AM	PA/VA
Surr: o-Terphenyl	97.8	NA	49.2-135	NA		%Rec	01/14/19 8:51AM	01/18/19 5:57AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00127	0.00396	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
Ethylbenzene	0.00246	0.00174	0.00396	NA	J	mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
m,p-Xylene	0.00488	0.00336	0.00792	NA	J	mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
Methyl tert-butyl ether	ND	0.00825	0.0198	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
Naphthalene	ND	0.00198	0.00396	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
o-Xylene	0.00323	0.00158	0.00396	NA	J	mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
Toluene	0.00259	0.00173	0.00396	NA	J	mg/Kg	01/09/19 8:16AM	01/16/19 3:17PM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	79.9-120	NA		%Rec	01/09/19 8:16AM	01/16/19 3:17PM	
Surr: 4-Bromofluorobenzene	106	NA	77-148	NA		%Rec	01/09/19 8:16AM	01/16/19 3:17PM	
Surr: Dibromofluoromethane	98.2	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/16/19 3:17PM	
Surr: Toluene-d8	91.2	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/16/19 3:17PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 3:05:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-07A	**Matrix:**	Soil
Client Sample ID:	UST #2 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA		wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	ND	5.82	7.97	NA		mg/Kg	01/14/19 8:51AM	01/18/19 6:28AM	PA/VA
Surr: o-Terphenyl	80.4	NA	49.2-135	NA		%Rec	01/14/19 8:51AM	01/18/19 6:28AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
Ethylbenzene	ND	0.00175	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
m,p-Xylene	0.00442	0.00339	0.00800	NA	J	mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
o-Xylene	ND	0.00160	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
Toluene	ND	0.00174	0.00400	NA		mg/Kg	01/09/19 8:16AM	01/16/19 3:51PM	PA/VA
Surr: 1,2-Dichloroethane-d4	107	NA	79.9-120	NA		%Rec	01/09/19 8:16AM	01/16/19 3:51PM	
Surr: 4-Bromofluorobenzene	108	NA	77-148	NA		%Rec	01/09/19 8:16AM	01/16/19 3:51PM	
Surr: Dibromofluoromethane	101	NA	43.2-154	NA		%Rec	01/09/19 8:16AM	01/16/19 3:51PM	
Surr: Toluene-d8	91.6	NA	64.1-129	NA		%Rec	01/09/19 8:16AM	01/16/19 3:51PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 3:10:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-08A	**Matrix:**	Soil
Client Sample ID:	UST #2 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	19	NA	1.0	NA	wt%		01/18/19 11:07AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	ND	5.83	7.98	NA	mg/Kg	01/14/19 8:51AM	01/18/19 6:59AM	PA/VA
Surr: o-Terphenyl	80.3	NA	49.2-135	NA	%Rec	01/14/19 8:51AM	01/18/19 6:59AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
Ethylbenzene	ND	0.00175	0.00400	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
m,p-Xylene	ND	0.00339	0.00800	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
o-Xylene	ND	0.00160	0.00400	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
Toluene	ND	0.00174	0.00400	NA	mg/Kg	01/09/19 8:16AM	01/16/19 4:25PM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	79.9-120	NA	%Rec	01/09/19 8:16AM	01/16/19 4:25PM	
Surr: 4-Bromofluorobenzene	102	NA	77-148	NA	%Rec	01/09/19 8:16AM	01/16/19 4:25PM	
Surr: Dibromofluoromethane	104	NA	43.2-154	NA	%Rec	01/09/19 8:16AM	01/16/19 4:25PM	
Surr: Toluene-d8	88.6	NA	64.1-129	NA	%Rec	01/09/19 8:16AM	01/16/19 4:25PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:11:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-09A	**Matrix:**	Soil
Client Sample ID:	UST #3 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	23	NA	1.0	NA	wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA	mg/Kg	01/09/19 8:15AM	01/09/19 2:15PM	PA/VA
Surr: 2,5-Dibromotoluene	102	NA	51.3-138	NA	%Rec	01/09/19 8:15AM	01/09/19 2:15PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
Toluene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 9:25PM	PA/VA
Surr: 1,2-Dichloroethane-d4	108	NA	79.9-120	NA	%Rec	01/09/19 8:15AM	01/09/19 9:25PM	
Surr: 4-Bromofluorobenzene	107	NA	77-148	NA	%Rec	01/09/19 8:15AM	01/09/19 9:25PM	
Surr: Dibromofluoromethane	100	NA	43.2-154	NA	%Rec	01/09/19 8:15AM	01/09/19 9:25PM	
Surr: Toluene-d8	94.8	NA	64.1-129	NA	%Rec	01/09/19 8:15AM	01/09/19 9:25PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:12:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-10A	**Matrix:**	Soil
Client Sample ID:	UST #3 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	25	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 2:47PM	PA/VA
Surr: 2,5-Dibromotoluene	59.9	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 2:47PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	0.00285	0.00200	0.00400	NA	J	mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
Ethylbenzene	0.00718	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
m,p-Xylene	0.00832	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
Naphthalene	0.0129	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
o-Xylene	0.00461	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
Toluene	0.00704	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:59PM	PA/VA
Surr: 1,2-Dichloroethane-d4	130	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/09/19 9:59PM	
Surr: 4-Bromofluorobenzene	120	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/09/19 9:59PM	
Surr: Dibromofluoromethane	107	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/09/19 9:59PM	
Surr: Toluene-d8	91.8	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/09/19 9:59PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:13:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-11A	**Matrix:**	Soil
Client Sample ID:	UST #3 F03	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	25	NA	1.0	NA	wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	2,800	25.0	50.0	NA	mg/Kg	01/09/19 8:15AM	01/09/19 6:06PM	PA/VA
Surr: 2,5-Dibromotoluene	113	NA	41.8-138	NA	%Rec	01/09/19 8:15AM	01/09/19 6:06PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: DTC**	
Benzene	ND	1.28	4.00	NA	mg/Kg	01/09/19 8:15AM	01/14/19 7:35PM	PA/VA
Ethylbenzene	14.7	1.75	4.00	NA	mg/Kg	01/09/19 8:15AM	01/14/19 7:35PM	PA/VA
m,p-Xylene	165	10.0	20.0	NA	mg/Kg	01/09/19 8:15AM	01/15/19 11:21PM	PA/VA
Methyl tert-butyl ether	ND	8.34	20.0	NA	mg/Kg	01/09/19 8:15AM	01/14/19 7:35PM	PA/VA
Naphthalene	120	5.00	10.0	NA	mg/Kg	01/09/19 8:15AM	01/15/19 11:21PM	PA/VA
o-Xylene	90.7	5.00	10.0	NA	mg/Kg	01/09/19 8:15AM	01/15/19 11:21PM	PA/VA
Toluene	36.1	5.00	10.0	NA	mg/Kg	01/09/19 8:15AM	01/15/19 11:21PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.2	NA	79.9-120	NA	%Rec	01/09/19 8:15AM	01/14/19 7:35PM	
Surr: 4-Bromofluorobenzene	113	NA	77-148	NA	%Rec	01/09/19 8:15AM	01/14/19 7:35PM	
Surr: Dibromofluoromethane	97.1	NA	43.2-154	NA	%Rec	01/09/19 8:15AM	01/14/19 7:35PM	
Surr: Toluene-d8	99.3	NA	64.1-129	NA	%Rec	01/09/19 8:15AM	01/14/19 7:35PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:34:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-12A	**Matrix:**	Soil
Client Sample ID:	UST #4 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	17	NA	1.0	NA	wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA	mg/Kg	01/09/19 8:15AM	01/09/19 5:27PM	PA/VA
Surr: 2,5-Dibromotoluene	98.8	NA	51.3-138	NA	%Rec	01/09/19 8:15AM	01/09/19 5:27PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
Toluene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/09/19 10:33PM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	79.9-120	NA	%Rec	01/09/19 8:15AM	01/09/19 10:33PM	
Surr: 4-Bromofluorobenzene	103	NA	77-148	NA	%Rec	01/09/19 8:15AM	01/09/19 10:33PM	
Surr: Dibromofluoromethane	108	NA	43.2-154	NA	%Rec	01/09/19 8:15AM	01/09/19 10:33PM	
Surr: Toluene-d8	97.7	NA	64.1-129	NA	%Rec	01/09/19 8:15AM	01/09/19 10:33PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:35:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-13A	**Matrix:**	Soil
Client Sample ID:	UST #4 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	16	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 4:23PM	PA/VA
Surr: 2,5-Dibromotoluene	103	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 4:23PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	123	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/09/19 11:07PM	
Surr: 4-Bromofluorobenzene	97.2	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/09/19 11:07PM	
Surr: Dibromofluoromethane	112	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/09/19 11:07PM	
Surr: Toluene-d8	93.8	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/09/19 11:07PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:36:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-14A	**Matrix:**	Soil
Client Sample ID:	UST #4 F03	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	14	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 4:55PM	PA/VA
Surr: 2,5-Dibromotoluene	103	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 4:55PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:41PM	PA/VA
Surr: 1,2-Dichloroethane-d4	127	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/09/19 11:41PM	
Surr: 4-Bromofluorobenzene	106	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/09/19 11:41PM	
Surr: Dibromofluoromethane	113	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/09/19 11:41PM	
Surr: Toluene-d8	94.7	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/09/19 11:41PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:36:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-15A	**Matrix:**	Soil
Client Sample ID:	UST #5 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 9:42PM	PA/VA
Surr: 2,5-Dibromotoluene	82.8	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 9:42PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 12:15AM	PA/VA
Surr: 1,2-Dichloroethane-d4	129	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/10/19 12:15AM	
Surr: 4-Bromofluorobenzene	106	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/10/19 12:15AM	
Surr: Dibromofluoromethane	109	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/10/19 12:15AM	
Surr: Toluene-d8	97.4	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/10/19 12:15AM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:37:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-16A	**Matrix:**	Soil
Client Sample ID:	UST #5 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	17	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 10:14PM	PA/VA
Surr: 2,5-Dibromotoluene	156	NA	51.3-138	NA	S	%Rec	01/09/19 8:15AM	01/09/19 10:14PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	134	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/10/19 2:07PM	
Surr: 4-Bromofluorobenzene	109	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/10/19 2:07PM	
Surr: Dibromofluoromethane	109	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/10/19 2:07PM	
Surr: Toluene-d8	91.4	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/10/19 2:07PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 12:38:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-17A	**Matrix:**	Soil
Client Sample ID:	UST #5 F03	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 10:46PM	PA/VA
Surr: 2,5-Dibromotoluene	182	NA	51.3-138	NA	S	%Rec	01/09/19 8:15AM	01/09/19 10:46PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
Naphthalene	0.00228	0.00200	0.00400	NA	J	mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 2:41PM	PA/VA
Surr: 1,2-Dichloroethane-d4	129	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/10/19 2:41PM	
Surr: 4-Bromofluorobenzene	117	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/10/19 2:41PM	
Surr: Dibromofluoromethane	107	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/10/19 2:41PM	
Surr: Toluene-d8	92.8	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/10/19 2:41PM	

Pace Analytical Services - Analytical Report

WO#: **19010874**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:13:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-18A	**Matrix:**	Soil
Client Sample ID:	UST #6 F01	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	15	NA	1.0	NA	wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA	mg/Kg	01/09/19 8:15AM	01/09/19 8:39PM	PA/VA
Surr: 2,5-Dibromotoluene	100	NA	51.3-138	NA	%Rec	01/09/19 8:15AM	01/09/19 8:39PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
Toluene	ND	0.00200	0.00400	NA	mg/Kg	01/09/19 8:15AM	01/10/19 3:15PM	PA/VA
Surr: 1,2-Dichloroethane-d4	119	NA	79.9-120	NA	%Rec	01/09/19 8:15AM	01/10/19 3:15PM	
Surr: 4-Bromofluorobenzene	99.5	NA	77-148	NA	%Rec	01/09/19 8:15AM	01/10/19 3:15PM	
Surr: Dibromofluoromethane	108	NA	43.2-154	NA	%Rec	01/09/19 8:15AM	01/10/19 3:15PM	
Surr: Toluene-d8	95.2	NA	64.1-129	NA	%Rec	01/09/19 8:15AM	01/10/19 3:15PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:14:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-19A	**Matrix:**	Soil
Client Sample ID:	UST #6 F02	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	18	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 11:18PM	PA/VA
Surr: 2,5-Dibromotoluene	112	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 11:18PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 3:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	131	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/10/19 3:49PM	
Surr: 4-Bromofluorobenzene	102	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/10/19 3:49PM	
Surr: Dibromofluoromethane	108	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/10/19 3:49PM	
Surr: Toluene-d8	92.8	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/10/19 3:49PM	

Pace Analytical Services - Analytical Report

WO#: 19010874

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/7/2019 2:15:00 PM
Project:	CSVI	**Date Received:**	1/8/2019
Lab ID:	19010874-20A	**Matrix:**	Soil
Client Sample ID:	UST #6 F03	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	13	NA	1.0	NA		wt%		01/18/19 11:07AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	2.50	5.00	NA		mg/Kg	01/09/19 8:15AM	01/09/19 3:19PM	PA/VA
Surr: 2,5-Dibromotoluene	102	NA	51.3-138	NA		%Rec	01/09/19 8:15AM	01/09/19 3:19PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
Ethylbenzene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
m,p-Xylene	ND	0.00400	0.00800	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
Methyl tert-butyl ether	ND	0.0100	0.0200	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
o-Xylene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
Toluene	ND	0.00200	0.00400	NA		mg/Kg	01/09/19 8:15AM	01/10/19 4:24PM	PA/VA
Surr: 1,2-Dichloroethane-d4	126	NA	79.9-120	NA	S	%Rec	01/09/19 8:15AM	01/10/19 4:24PM	
Surr: 4-Bromofluorobenzene	98.0	NA	77-148	NA		%Rec	01/09/19 8:15AM	01/10/19 4:24PM	
Surr: Dibromofluoromethane	109	NA	43.2-154	NA		%Rec	01/09/19 8:15AM	01/10/19 4:24PM	
Surr: Toluene-d8	96.4	NA	64.1-129	NA		%Rec	01/09/19 8:15AM	01/10/19 4:24PM	

Pace Analytical Services, LLC.
PO Box 684056
Chicago, IL 60695-4056
TEL: (304)255-2500
Website: www.reiclabs.com

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**19010874**
RCPNo:	**1**	Date and Time Received:	**1/8/2019 6:30:00 PM**	Received by:	**Randy Rose**
Completed By:	**Kim Pack**		Reviewed By:	**Billy Shirley**	
Completed Date:	**1/9/2019 6:51:33 AM**		Reviewed Date:	**1/10/2019 10:02 AM**	

Carrier Name: Pace

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 0.6 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [ ]	No [ ]	No Vials [x]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [ ]	No [x]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **19010874**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Numbe

19010874

GRE096
GREENE ENVIRONMENTAL SE
Billy Shirley

ALL SHADED AREAS are fo

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: 540-483-3311 Email: As above	Site/Facility ID #: Chamblissburg Supply Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): AF, TG, BM, AR	Purchase Order # : Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 | U | 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, Nap via 8021
GS01	SL	Comp	1/7/2019	1130				1	X		X
GS02	SL	Comp	1/7/2019	1730				1		X	X
Diesel Dispenser	SL	Grab	1/7/2019	940				1		X	X
Kerosene Dispenser	SL	Grab	1/7/2019	945				1		X	X
UST #1 F01	SL	Grab	1/7/2019	1520				1		X	X
UST #1 F02	SL	Grab	1/7/2019	1525				1		X	X
UST #2 F01	SL	Grab	1/7/2019	1505				1		X	X
UST #2 F02	SL	Grab	1/7/2019	1510				1		X	X
UST #3 F01	SL	Grab	1/7/2019	1211				1	X		X
UST #3 F02	SL	Grab	1/7/2019	1212				1	X		X

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
PAGE 1 of 2

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 16
Cooler 1 Temp Upon Receipt: 0.8 oC
Cooler 1 Therm Corr. Factor: -0.2 oC
Cooler 1 Corrected Temp: 0.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	1-8-19/0945	[signature]	1-8-19 1120
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
		[signature]	1-8-19 1630
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
			1-8-19 1830

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: / County/City: Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: 540-483-3311 Email: As above	Site/Facility ID #: Chamblissburg Supply Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): AF, TG, BM, AR	Purchase Order # : Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: 3 | U | 3

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, Nap via 8021
UST #3 F03	SL	Comp	1/7/2019	1213				1	X		X
UST #4 F01	SL	Comp	1/7/2019	1434				1	X		X
UST #4 F02	SL	Grab	1/7/2019	1435				1	X		X
UST #4 F03	SL	Grab	1/7/2019	1436				1	X		X
UST #5 F01	SL	Grab	1/7/2019	1236				1	X		X
UST #5 F02	SL	Grab	1/7/2019	1237				1	X		X
UST #5 F03	SL	Grab	1/7/2019	1238				1	X		X
UST #6 F01	SL	Grab	1/7/2019	1413				1	X		X
UST #6 F02	SL	Grab	1/7/2019	1414				1	X		X
UST #6 F03	SL	Grab	1/7/2019	1415				1	X		X

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
PAGE 2 of 2

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	1-8-19 / 0945	[signature]	1-8-19 1120
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 1-8-19 1630
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 1-8-19 1830

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Pace Analytical Services
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

782 North Lee Highway
Lexington, VA 24450
TEL: 540.464.1880

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

Tuesday, January 22, 2019

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 19011467

Dear Mr. Trev Greene:

Pace Analytical Services received 14 sample(s) on 1/11/2019 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

Pace Analytical Services - Case Narrative

WO#: 19011467

Date Reported: 1/22/2019
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by the Lexington and Morgantown Service Centers are designated by an annotation on the test code. All other tests were performed by Pace Analytical Services, LLC Laboratory in Beaver, WV. Subcontracted results are attached to the end of the report.

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All samples are stored for a minimum of 14 days after the date of the final report. All records are stored for a minimum of 5 years. If longer sample or records retention is required, please contact your project manager for details.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Lexington, VA: VADCLS(VELAP) 460150
Morgantown, WV: WVDHHR 003112M, WVDEP 387

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/9/2019 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-01A	**Matrix:**	Solid
Client Sample ID:	GS03	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	20	NA	1.0	NA		wt%		01/16/19 3:13PM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	794	5.83	7.99	NA		mg/Kg	01/16/19 9:36AM	01/18/19 12:46AM	PA/VA
Surr: o-Terphenyl	92.7	NA	49.2-135	NA		%Rec	01/16/19 9:36AM	01/18/19 12:46AM	

Notes:

Calculation of the percent recovery on the matrix spike for [analyte] was not applicable since the spike added was <30% of the parent sample's background concentration.

The matrix spike/matrix spike duplicate is outside laboratory control limits.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: ES**	
Benzene	ND	0.0125	0.0250	NA		mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
Ethylbenzene	0.0235	0.0125	0.0250	NA	J	mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
m,p-Xylene	0.0315	0.0250	0.0500	NA	J	mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
Methyl tert-butyl ether	ND	0.0625	0.125	NA		mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
Naphthalene	0.239	0.0125	0.0250	NA		mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
o-Xylene	ND	0.0125	0.0250	NA		mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
Toluene	ND	0.0125	0.0250	NA		mg/Kg	01/12/19 9:28AM	01/18/19 4:16AM	PA/VA
Surr: 1,2-Dichloroethane-d4	107	NA	79.9-120	NA		%Rec	01/12/19 9:28AM	01/18/19 4:16AM	
Surr: 4-Bromofluorobenzene	108	NA	77-148	NA		%Rec	01/12/19 9:28AM	01/18/19 4:16AM	
Surr: Dibromofluoromethane	103	NA	43.2-154	NA		%Rec	01/12/19 9:28AM	01/18/19 4:16AM	
Surr: Toluene-d8	98.2	NA	64.1-129	NA		%Rec	01/12/19 9:28AM	01/18/19 4:16AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/9/2019 11:02:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-02A	**Matrix:**	Solid
Client Sample ID:	GS04	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA		wt%		01/16/19 3:13PM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	2,460	58.3	79.9	NA		mg/Kg	01/16/19 9:36AM	01/18/19 1:32PM	PA/VA
Surr: o-Terphenyl	225	NA	49.2-135	NA	S	%Rec	01/16/19 9:36AM	01/18/19 1:32PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
Ethylbenzene	0.0129	0.00175	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
m,p-Xylene	0.0306	0.00339	0.00800	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
Naphthalene	0.0592	0.0125	0.0250	NA		mg/Kg	01/12/19 9:28AM	01/21/19 8:48PM	PA/VA
o-Xylene	0.0297	0.00160	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
Toluene	ND	0.00174	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 4:59PM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	79.9-120	NA		%Rec	01/12/19 9:28AM	01/16/19 4:59PM	
Surr: 4-Bromofluorobenzene	118	NA	77-148	NA		%Rec	01/12/19 9:28AM	01/16/19 4:59PM	
Surr: Dibromofluoromethane	99.0	NA	43.2-154	NA		%Rec	01/12/19 9:28AM	01/16/19 4:59PM	
Surr: Toluene-d8	88.8	NA	64.1-129	NA		%Rec	01/12/19 9:28AM	01/16/19 4:59PM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/9/2019 11:04:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-03A	**Matrix:**	Solid
Client Sample ID:	GS05	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA	wt%		01/16/19 3:13PM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	329	5.82	7.97	NA	mg/Kg	01/16/19 9:36AM	01/18/19 12:10PM	PA/VA
Surr: o-Terphenyl	85.0	NA	49.2-135	NA	%Rec	01/16/19 9:36AM	01/18/19 12:10PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: TKC**	
Benzene	ND	0.00128	0.00400	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
Ethylbenzene	ND	0.00175	0.00400	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
m,p-Xylene	ND	0.00339	0.00800	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
Methyl tert-butyl ether	ND	0.00834	0.0200	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
o-Xylene	ND	0.00160	0.00400	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
Toluene	ND	0.00174	0.00400	NA	mg/Kg	01/12/19 9:28AM	01/16/19 5:33PM	PA/VA
Surr: 1,2-Dichloroethane-d4	84.0	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/16/19 5:33PM	
Surr: 4-Bromofluorobenzene	101	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/16/19 5:33PM	
Surr: Dibromofluoromethane	90.9	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/16/19 5:33PM	
Surr: Toluene-d8	93.7	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/16/19 5:33PM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/9/2019 11:06:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-04A	**Matrix:**	Solid
Client Sample ID:	GS06	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA		wt%		01/16/19 3:13PM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: MF**	
TPH (Diesel Range: C10 - C28)	16,000	582	797	NA		mg/Kg	01/16/19 9:36AM	01/21/19 4:00PM	PA/VA
Notes:									
The surrogate recovery is < 1% for o-Terphenyl.									
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: TKC**	
Benzene	0.00380	0.00128	0.00400	NA	J	mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
Ethylbenzene	ND	0.00175	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
m,p-Xylene	ND	0.00339	0.00800	NA		mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
Methyl tert-butyl ether	0.0115	0.00834	0.0200	NA	J	mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
Naphthalene	ND	0.00200	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
o-Xylene	ND	0.00160	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
Toluene	ND	0.00174	0.00400	NA		mg/Kg	01/12/19 9:28AM	01/16/19 6:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	87.9	NA	79.9-120	NA		%Rec	01/12/19 9:28AM	01/16/19 6:07PM	
Surr: 4-Bromofluorobenzene	111	NA	77-148	NA		%Rec	01/12/19 9:28AM	01/16/19 6:07PM	
Surr: Dibromofluoromethane	92.7	NA	43.2-154	NA		%Rec	01/12/19 9:28AM	01/16/19 6:07PM	
Surr: Toluene-d8	90.0	NA	64.1-129	NA		%Rec	01/12/19 9:28AM	01/16/19 6:07PM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-05A	**Matrix:**	Solid
Client Sample ID:	GS07	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: ES**	
TPH (Gasoline Range: C6 - C10)	1,520	91.3	500	NA	mg/Kg	01/12/19 9:28AM	01/18/19 12:43PM	PA/VA
Surr: 2,5-Dibromotoluene	113	NA	51.3-138	NA	%Rec	01/12/19 9:28AM	01/18/19 12:43PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	3.98	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 4:08AM	PA/VA
Ethylbenzene	24.2	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:19AM	PA/VA
m,p-Xylene	85.9	2.00	4.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:19AM	PA/VA
Methyl tert-butyl ether	0.623	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 4:08AM	PA/VA
Naphthalene	3.25	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 4:08AM	PA/VA
o-Xylene	39.5	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:19AM	PA/VA
Toluene	57.6	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:19AM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/18/19 5:19AM	
Surr: 4-Bromofluorobenzene	96.2	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/18/19 5:19AM	
Surr: Dibromofluoromethane	114	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 4:08AM	
Surr: Toluene-d8	109	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 4:08AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-06A	**Matrix:**	Solid
Client Sample ID:	F01	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	20	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	835	5.51	12.5	NA	mg/Kg	01/12/19 9:28AM	01/16/19 1:18PM	PA/VA
Surr: 2,5-Dibromotoluene	109	NA	41.8-138	NA	%Rec	01/12/19 9:28AM	01/16/19 1:18PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	1.30	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 4:42AM	PA/VA
Ethylbenzene	13.6	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:50AM	PA/VA
m,p-Xylene	51.5	2.00	4.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:50AM	PA/VA
Methyl tert-butyl ether	ND	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 4:42AM	PA/VA
Naphthalene	10.5	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:50AM	PA/VA
o-Xylene	23.1	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:50AM	PA/VA
Toluene	27.4	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 5:50AM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.9	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/18/19 5:50AM	
Surr: 4-Bromofluorobenzene	137	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/17/19 4:42AM	
Surr: Dibromofluoromethane	94.9	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 4:42AM	
Surr: Toluene-d8	98.5	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 4:42AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:46:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-07A	**Matrix:**	Solid
Client Sample ID:	F02	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	21	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	1,070	5.51	12.5	NA	mg/Kg	01/12/19 9:28AM	01/16/19 1:49PM	PA/VA
Surr: 2,5-Dibromotoluene	120	NA	41.8-138	NA	%Rec	01/12/19 9:28AM	01/16/19 1:49PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	1.38	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:15AM	PA/VA
Ethylbenzene	5.89	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:15AM	PA/VA
m,p-Xylene	47.6	2.00	4.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 6:53AM	PA/VA
Methyl tert-butyl ether	0.251	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:15AM	PA/VA
Naphthalene	5.58	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:15AM	PA/VA
o-Xylene	21.2	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 6:53AM	PA/VA
Toluene	33.2	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 6:53AM	PA/VA
Surr: 1,2-Dichloroethane-d4		NA		NA	%Rec	01/12/19 9:28AM	01/18/19 6:53AM	
Surr: 4-Bromofluorobenzene	125	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/17/19 5:15AM	
Surr: Dibromofluoromethane	95.7	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 5:15AM	
Surr: Toluene-d8	98.8	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 5:15AM	

Pace Analytical Services - Analytical Report

WO#: **19011467**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:47:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-08A	**Matrix:**	Solid
Client Sample ID:	F03	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	15	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	431	5.51	12.5	NA	mg/Kg	01/12/19 9:28AM	01/16/19 2:21PM	PA/VA
Surr: 2,5-Dibromotoluene	93.6	NA	41.8-138	NA	%Rec	01/12/19 9:28AM	01/16/19 2:21PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	0.552	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:48AM	PA/VA
Ethylbenzene	4.89	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:48AM	PA/VA
m,p-Xylene	11.5	0.100		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:48AM	PA/VA
Methyl tert-butyl ether	0.509	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:48AM	PA/VA
Naphthalene	4.43	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 5:48AM	PA/VA
o-Xylene	12.0	0.500	1.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 9:29AM	PA/VA
Toluene	16.9	0.500	1.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 9:29AM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/18/19 9:29AM	
Surr: 4-Bromofluorobenzene	125	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/17/19 5:48AM	
Surr: Dibromofluoromethane	99.1	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 5:48AM	
Surr: Toluene-d8	91.4	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 5:48AM	

Pace Analytical Services - Analytical Report

WO#: **19011467**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:50:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-09A	**Matrix:**	Solid
Client Sample ID:	SW01	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	11	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	936	5.51	12.5	NA	mg/Kg	01/12/19 9:28AM	01/16/19 2:52PM	PA/VA
Surr: 2,5-Dibromotoluene	83.8	NA	41.8-138	NA	%Rec	01/12/19 9:28AM	01/16/19 2:52PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	1.03	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 6:21AM	PA/VA
Ethylbenzene	22.1	0.500	1.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:02AM	PA/VA
m,p-Xylene	81.2	10.0	20.0	NA	mg/Kg	01/12/19 9:28AM	01/19/19 12:36AM	PA/VA
Methyl tert-butyl ether	0.486	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 6:21AM	PA/VA
Naphthalene	5.28	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 6:21AM	PA/VA
o-Xylene	37.3	5.00	10.0	NA	mg/Kg	01/12/19 9:28AM	01/19/19 12:36AM	PA/VA
Toluene	41.8	5.00	10.0	NA	mg/Kg	01/12/19 9:28AM	01/19/19 12:36AM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/18/19 10:02AM	
Surr: 4-Bromofluorobenzene	137	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/17/19 6:21AM	
Surr: Dibromofluoromethane	99.9	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 6:21AM	
Surr: Toluene-d8	98.9	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 6:21AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:51:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-10A	**Matrix:**	Solid
Client Sample ID:	SW02	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	16	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	974	5.51	12.5	NA	mg/Kg	01/12/19 9:28AM	01/16/19 3:24PM	PA/VA
Surr: 2,5-Dibromotoluene	87.8	NA	41.8-138	NA	%Rec	01/12/19 9:28AM	01/16/19 3:24PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	0.788	0.0500		NA	mg/Kg	01/12/19 9:28AM	01/17/19 6:55AM	PA/VA
Ethylbenzene	22.2	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:35AM	PA/VA
m,p-Xylene	93.8	2.00	4.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:35AM	PA/VA
Methyl tert-butyl ether	0.403	0.250		NA	mg/Kg	01/12/19 9:28AM	01/17/19 6:55AM	PA/VA
Naphthalene	29.3	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:35AM	PA/VA
o-Xylene	43.3	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:35AM	PA/VA
Toluene	38.8	1.00	2.00	NA	mg/Kg	01/12/19 9:28AM	01/18/19 10:35AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.9	NA	79.9-120	NA	%Rec	01/12/19 9:28AM	01/18/19 10:35AM	
Surr: 4-Bromofluorobenzene	142	NA	77-148	NA	%Rec	01/12/19 9:28AM	01/17/19 6:55AM	
Surr: Dibromofluoromethane	98.2	NA	43.2-154	NA	%Rec	01/12/19 9:28AM	01/17/19 6:55AM	
Surr: Toluene-d8	97.2	NA	64.1-129	NA	%Rec	01/12/19 9:28AM	01/17/19 6:55AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-11A	**Matrix:**	Solid
Client Sample ID:	SW03	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	1,240	5.51	12.5	NA	mg/Kg	01/15/19 7:22AM	01/16/19 3:55PM	PA/VA
Surr: 2,5-Dibromotoluene	85.6	NA	41.8-138	NA	%Rec	01/15/19 7:22AM	01/16/19 3:55PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	1.12	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 7:28AM	PA/VA
Ethylbenzene	19.0	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:08AM	PA/VA
m,p-Xylene	99.8	2.00	4.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:08AM	PA/VA
Methyl tert-butyl ether	ND	0.250		NA	mg/Kg	01/15/19 7:22AM	01/17/19 7:28AM	PA/VA
Naphthalene	22.7	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:08AM	PA/VA
o-Xylene	44.4	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:08AM	PA/VA
Toluene	38.2	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:08AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.7	NA	79.9-120	NA	%Rec	01/15/19 7:22AM	01/18/19 11:08AM	
Surr: 4-Bromofluorobenzene	109	NA	77-148	NA	%Rec	01/15/19 7:22AM	01/18/19 11:08AM	
Surr: Dibromofluoromethane	94.2	NA	43.2-154	NA	%Rec	01/15/19 7:22AM	01/17/19 7:28AM	
Surr: Toluene-d8	99.9	NA	64.1-129	NA	%Rec	01/15/19 7:22AM	01/17/19 7:28AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:53:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-12A	**Matrix:**	Solid
Client Sample ID:	SW04	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	19	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: ES**	
TPH (Gasoline Range: C6 - C10)	131	22.8	125	NA	mg/Kg	01/15/19 7:22AM	01/18/19 12:11PM	PA/VA
Surr: 2,5-Dibromotoluene	126	NA	51.3-138	NA	%Rec	01/15/19 7:22AM	01/18/19 12:11PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	ND	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
Ethylbenzene	0.485	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
m,p-Xylene	2.97	0.100		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
Methyl tert-butyl ether	ND	0.250		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
Naphthalene	9.35	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 11:41AM	PA/VA
o-Xylene	1.91	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
Toluene	0.624	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:01AM	PA/VA
Surr: 1,2-Dichloroethane-d4	93.9	NA	79.9-120	NA	%Rec	01/15/19 7:22AM	01/17/19 8:01AM	
Surr: 4-Bromofluorobenzene	128	NA	77-148	NA	%Rec	01/15/19 7:22AM	01/17/19 8:01AM	
Surr: Dibromofluoromethane	99.2	NA	43.2-154	NA	%Rec	01/15/19 7:22AM	01/17/19 8:01AM	
Surr: Toluene-d8	86.0	NA	64.1-129	NA	%Rec	01/15/19 7:22AM	01/17/19 8:01AM	

Pace Analytical Services - Analytical Report

WO#: **19011467**

Date Reported: **1/22/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:54:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-13A	**Matrix:**	Solid
Client Sample ID:	SW05	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: VW**	
Percent Moisture	24	NA	1.0	NA	wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	567	5.51	12.5	NA	mg/Kg	01/15/19 7:22AM	01/16/19 4:57PM	PA/VA
Surr: 2,5-Dibromotoluene	95.6	NA	41.8-138	NA	%Rec	01/15/19 7:22AM	01/16/19 4:57PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: ES**	
Benzene	0.260	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:34AM	PA/VA
Ethylbenzene	2.28	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:34AM	PA/VA
m,p-Xylene	35.0	1.00	2.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 12:14PM	PA/VA
Methyl tert-butyl ether	ND	0.250		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:34AM	PA/VA
Naphthalene	4.44	0.0500		NA	mg/Kg	01/15/19 7:22AM	01/17/19 8:34AM	PA/VA
o-Xylene	16.7	0.500	1.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 12:14PM	PA/VA
Toluene	6.12	0.500	1.00	NA	mg/Kg	01/15/19 7:22AM	01/18/19 12:14PM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	79.9-120	NA	%Rec	01/15/19 7:22AM	01/18/19 12:14PM	
Surr: 4-Bromofluorobenzene	139	NA	77-148	NA	%Rec	01/15/19 7:22AM	01/17/19 8:34AM	
Surr: Dibromofluoromethane	97.2	NA	43.2-154	NA	%Rec	01/15/19 7:22AM	01/17/19 8:34AM	
Surr: Toluene-d8	87.2	NA	64.1-129	NA	%Rec	01/15/19 7:22AM	01/17/19 8:34AM	

Pace Analytical Services - Analytical Report

WO#: 19011467

Date Reported: 1/22/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	1/10/2019 1:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	1/11/2019
Lab ID:	19011467-14A	**Matrix:**	Solid
Client Sample ID:	SW06	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: VW**	
Percent Moisture	16	NA	1.0	NA		wt%		01/18/19 11:15AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	932	5.51	12.5	NA		mg/Kg	01/15/19 7:22AM	01/16/19 5:28PM	PA/VA
Surr: 2,5-Dibromotoluene	79.6	NA	41.8-138	NA		%Rec	01/15/19 7:22AM	01/16/19 5:28PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: ES**	
Benzene	1.38	0.0500		NA		mg/Kg	01/15/19 7:22AM	01/17/19 9:07AM	PA/VA
Ethylbenzene	19.6	0.500	1.00	NA		mg/Kg	01/15/19 7:22AM	01/18/19 12:47PM	PA/VA
m,p-Xylene	73.6	33.9	80.0	NA	J	mg/Kg	01/15/19 7:22AM	01/19/19 1:09AM	PA/VA
Methyl tert-butyl ether	0.619	0.250		NA		mg/Kg	01/15/19 7:22AM	01/17/19 9:07AM	PA/VA
Naphthalene	15.6	0.500	1.00	NA		mg/Kg	01/15/19 7:22AM	01/18/19 12:47PM	PA/VA
o-Xylene	34.0	16.0	40.0	NA	J	mg/Kg	01/15/19 7:22AM	01/19/19 1:09AM	PA/VA
Toluene	43.5	17.4	40.0	NA		mg/Kg	01/15/19 7:22AM	01/19/19 1:09AM	PA/VA
Surr: 1,2-Dichloroethane-d4	107	NA	79.9-120	NA		%Rec	01/15/19 7:22AM	01/18/19 12:47PM	
Surr: 4-Bromofluorobenzene	141	NA	77-148	NA		%Rec	01/15/19 7:22AM	01/17/19 9:07AM	
Surr: Dibromofluoromethane	98.3	NA	43.2-154	NA		%Rec	01/15/19 7:22AM	01/17/19 9:07AM	
Surr: Toluene-d8	96.5	NA	64.1-129	NA		%Rec	01/15/19 7:22AM	01/17/19 9:07AM	

Pace Analytical Services, LLC.
PO Box 684056
Chicago, IL 60695-4056
TEL: (304)255-2500
Website: www.reiclabs.com

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**19011467**
RCPNo:	**1**	Date and Time Received:	**1/11/2019 6:30:00 PM**	Received by:	**Christian Vess**
Completed By:	**Zach Cook**		Reviewed By:	**Billy Shirley**	
Completed Date:	**1/12/2019 12:46:58 AM**		Reviewed Date:	**1/14/2019 10:31 AM**	

Carrier Name: Pace

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [ ]	No [x]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1.8 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [ ]	No [ ]	No Vials [x]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **19011467**

Comment: ON THE COC, THE ANALYTICAL FOR THE LAST 4 SAMPLES ON THE COC IS LEFT BLANK

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix ... orkorder Number or ... ALL SI ... ONLY

19011467

GRE096
GREENE ENVIRONMENTAL SE
Billy Shirley

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET

Phone: 540-483-3311 Email: As above	Site/Facility ID #: Chamblissburg Supply	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): AF, TG	Purchase Order # : Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required:	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: U U U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, Nap via 8021	Lab Sample # / Comments
GS03	SL	Grab	1/9/2019	1100				1		X	X	
GS04	SL	Grab	1/9/2019	1102				1		X	X	
GS05	SL	Grab	1/9/2019	1104				1		X	X	
GS06	SL	Grab	1/9/2019	1106				1		X	X	
GS07	SL	Grab	1/10/2019	1130				1	X		X	
F01	SL	Grab	1/10/2019	1345				1	X		X	
F02	SL	Grab	1/10/2019	1346				1	X		X	
F03	SL	Grab	1/10/2019	1347				1	X		X	
SW01	SL	Grab	1/10/2019	1350				1	X		X	
SW02	SL	Grab	1/10/2019	1351				1	X		X	

ICED [✓] Y [ ] N 13
CORRECTED IR #
CONTAINERS [✓] REIC [ ] CLIENT
DEL. BY [✓] REIC [ ] CLIENT [ ] OTHER
CUSTODY SEALS [ ] Y [✓] N

Customer Remarks / Special Conditions / Possible Hazards:
PAGE 1 of 2

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 1-11-19/ 1005	Received by/Company: (Signature)	Date/Time: 1/11/19 1011	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 1-11-19 1670	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 1-11-19 1830	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: 540-483-3311 Email: As above	Site/Facility ID #: Chamblissburg Supply Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): AF, TG	Purchase Order # : Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: U U U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses: TPH-GRO via 8015; TPH-DRO via 8015; BTEX, MTBE, Nap via 8021

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, Nap via 8021
SW03	SL	Grab	1/10/2019	1352				1			
SW04	SL	Grab	1/10/2019	1353				1			
SW05	SL	Grab	1/10/2019	1354				1			
SW06	SL	Grab	1/10/2019	1355				1			

CED [✓] Y [ ] N 13
CORRECTED IR #
CONTAINERS [✓] REIC [ ] CLIENT
DEL BY [✓] REIC [ ] CLIENT [ ] OTHER
CUSTODY SEALS [ ] Y [✓] N

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:
PAGE 2 of 2

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: 4.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	1-11-19 / 1005	[signature]	1/11/19 1011
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
		[signature]	1-11-19 1670
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
			1-11-19 1830

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO
Page: _____
of: _____

Pace Analytical Services
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

782 North Lee Highway
Lexington, VA 24450
TEL: 540.464.1880

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

Friday, February 22, 2019

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 19021102

Dear Mr. Trev Greene:

This is an amended or revised report for the subject Work Order. This report contains supplemental information or results revisions and should be used in place of any prior report for the Work Order. The specific amendments are listed in the narrative of this report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

Pace Analytical Services - Case Narrative

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by the Lexington and Morgantown Service Centers are designated by an annotation on the test code. All other tests were performed by Pace Analytical Services, LLC Laboratory in Beaver, WV. Subcontracted results are attached to the end of the report.

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All samples are stored for a minimum of 14 days after the date of the final report. All records are stored for a minimum of 5 years. If longer sample or records retention is required, please contact your project manager for details.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Lexington, VA: VADCLS(VELAP) 460150
Morgantown, WV: WVDHHR 003112M, WVDEP 387

AMENDMENTS: Reran MTBE

Pace Analytical Services - Analytical Report

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/7/2019 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	2/8/2019
Lab ID:	19021102-01B	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	02/12/19 1:45PM	02/13/19 4:11PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/7/2019 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	2/8/2019
Lab ID:	19021102-01A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**	
Lead	1.50	0.200	1.00	15.0		µg/L	02/12/19 1:45PM	02/13/19 4:05PM	
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: NC**	
DBCP	ND	0.00627	0.0165	0.200		µg/L	02/14/19 12:26PM	02/14/19 4:21PM	PA/VA
EDB	ND	0.00322	0.0165	0.050		µg/L	02/14/19 12:26PM	02/14/19 4:21PM	PA/VA
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)				**Method: SW8270D SIM**				**Analyst: CLS**	
Acenaphthene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Acenaphthylene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Anthracene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Benzo(a)anthracene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Benzo(a)pyrene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Benzo(b)fluoranthene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Benzo(g,h,i)perylene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Benzo(k)fluoranthene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Chrysene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Dibenzo(a,h)anthracene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Fluoranthene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Fluorene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Naphthalene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Phenanthrene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Pyrene	ND	0.0520	0.104	NA		µg/L	02/13/19 2:31PM	02/15/19 11:34AM	PA/VA
Surr: Nitrobenzene-d5	73.0	NA	8.9-167	NA		%Rec	02/13/19 2:31PM	02/15/19 11:34AM	
Surr: 2-Fluorobiphenyl	69.0	NA	27.8-119	NA		%Rec	02/13/19 2:31PM	02/15/19 11:34AM	
Surr: 4-Terphenyl-d14	75.0	NA	37.5-112	NA		%Rec	02/13/19 2:31PM	02/15/19 11:34AM	
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: CLS**	
2-Methylnaphthalene	ND	2.12	10.6	NA		µg/L	02/11/19 8:18AM	02/12/19 2:35PM	PA/VA
Surr: Nitrobenzene-d5	70.4	NA	37.7-120	NA		%Rec	02/11/19 8:18AM	02/12/19 2:35PM	
Surr: 2-Fluorobiphenyl	79.2	NA	50.8-123	NA		%Rec	02/11/19 8:18AM	02/12/19 2:35PM	
Surr: 4-Terphenyl-d14	72.8	NA	56.5-125	NA		%Rec	02/11/19 8:18AM	02/12/19 2:35PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Gasoline Range: C6 - C10)	ND	220	500	NA		µg/L	02/11/19 5:38AM	02/14/19 2:14PM	PA/VA
Surr: 2,5-Dibromotoluene	56.5	NA	41.8-138	NA		%Rec	02/11/19 5:38AM	02/14/19 2:14PM	

Pace Analytical Services - Analytical Report

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/7/2019 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	2/8/2019
Lab ID:	19021102-01A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: ES**	
Xylenes, Total	ND	NA	0	NA	µg/L		02/14/19 2:57PM	PA/VA
Acetone	ND	5.00	10.0	NA	µg/L		02/14/19 2:57PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/14/19 2:57PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/14/19 2:57PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		02/14/19 2:57PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/7/2019 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	2/8/2019
Lab ID:	19021102-01A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		02/14/19 2:57PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		02/14/19 2:57PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		02/14/19 2:57PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Methyl tert-butyl ether	1.59	1.00	5.00	NA	J	µg/L		02/20/19 7:06PM	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		02/14/19 2:57PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	75.9-132	NA		%Rec		02/14/19 2:57PM	
Surr: 4-Bromofluorobenzene	112	NA	73.6-132	NA		%Rec		02/14/19 2:57PM	
Surr: Dibromofluoromethane	90.1	NA	80.1-127	NA		%Rec		02/14/19 2:57PM	
Surr: Toluene-d8	93.1	NA	72.4-119	NA		%Rec		02/14/19 2:57PM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: ES**

tert-Amyl alcohol	ND	0.361	1.00	NA		µg/L		02/14/19 2:57PM	
tert-Amyl Ethyl Ether	ND	0.368	1.00	NA		µg/L		02/14/19 2:57PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		02/14/19 2:57PM	
tert-Butyl alcohol	ND	50.0	200	NA		µg/L		02/14/19 2:57PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19021102

Date Reported: 2/22/2019
Revision v2

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/7/2019 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	2/8/2019
Lab ID:	19021102-01A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	CHAMBLISSBURG SUPPLY

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		02/14/19 2:57PM	
Ethanol	ND	100	200	NA	µg/L		02/14/19 2:57PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		02/14/19 2:57PM	PA/VA
Surr: 1,2-Dichloroethane-d4	107	NA	72.3-120	NA	%Rec		02/14/19 2:57PM	
Surr: 4-Bromofluorobenzene	104	NA	72.5-134	NA	%Rec		02/14/19 2:57PM	
Surr: Dibromofluoromethane	97.3	NA	75.9-141	NA	%Rec		02/14/19 2:57PM	
Surr: Toluene-d8	94.7	NA	72.6-119	NA	%Rec		02/14/19 2:57PM	

Pace Analytical Services, LLC.
PO Box 684056
Chicago, IL 60695-4056
TEL: (304)255-2500
Website: www.reiclabs.com

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**19021102**
RCPNo:	**1**	Date and Time Received:	**2/8/2019 6:20:00 PM**	Received by:	**Christian Vess**
Completed By:	**Zach Cook**		Reviewed By:		
Completed Date:	**2/9/2019 3:55:31 AM**		Reviewed Date:		

Carrier Name: Pace

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 3.8 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **19021102**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Lab
MTJL Log-in

19021102

GRE096
GREENE ENVIRONMENTAL SE
Billy Shirley

ALL SHADED AREAS a

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: County/City: Time Zone Collected: / [ ]PT [ ]MT [ ]CT [X]ET

Phone: 540-483-3311 Email: As above	Site/Facility ID #: Chamblissburg Supply	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): TG	Purchase Order # : Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required:	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

3	3	Ice	Ice	1	1				

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	VOCs via 8260 including oxygenates	SVOCs via 8270	EDB/DBCP via 8011	Total Lead via 200.8	Dissovled Leed via 200.8				
DW06C	GW	Grab	2/7/2019	955				15	X	X	X	X	X	X				

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 13
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: __oC
Cooler 1 Corrected Temp: 3.8 oC
Comments:
containers by Pace

Relinquished by/Company: (Signature)	Date/Time: 2-8-19/1200	Received by/Company: (Signature)	Date/Time: 2-8-19 1200	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2-8-19 1620	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2-8-19 1820	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____
of: _____

Page

Pace Analytical Services
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.pacelabs.com

782 North Lee Highway
Lexington, VA 24450
TEL: 540.464.1880

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

Thursday, April 11, 2019

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY-CSVI

Work Order #: 19040804

Dear Mr. Trev Greene:

Pace Analytical Services received 3 sample(s) on 4/4/2019 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

Pace Analytical Services - Case Narrative

WO#: 19040804

Date Reported: 4/11/2019
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY-CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by the Lexington and Morgantown Service Centers are designated by an annotation on the test code. All other tests were performed by Pace Analytical Services, LLC Laboratory in Beaver, WV. Subcontracted results are attached to the end of the report.

This report may not be reproduced, except in full, without the written approval of Pace Analytical Services, LLC.

All samples are stored for a minimum of 14 days after the date of the final report. All records are stored for a minimum of 5 years. If longer sample or records retention is required, please contact your project manager for details.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Lexington, VA: VADCLS(VELAP) 460150
Morgantown, WV: WVDHHR 003112M, WVDEP 387

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01A	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	1.81	0.200	1.00	NA	µg/L	04/09/19 4:15PM	04/10/19 11:47PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: NC**
DBCP	ND	0.00764	0.0201	0.200	µg/L	04/09/19 8:14AM	04/09/19 3:16PM	PA/VA
EDB	ND	0.00392	0.0201	0.050	µg/L	04/09/19 8:14AM	04/09/19 3:16PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: NC**
Acenaphthene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Acenaphthylene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Anthracene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzidine	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzo(a)anthracene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzo(a)pyrene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzo(b)fluoranthene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzo(g,h,i)perylene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Benzo(k)fluoranthene	ND	3.28	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Butyl benzyl phthalate	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
4-Chloro-3-methylphenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2-Chloronaphthalene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2-Chlorophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Chrysene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
o-Cresol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
m,p-Cresol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Di-n-butyl phthalate	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
1,2-Dichlorobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
1,3-Dichlorobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
1,4-Dichlorobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4-Dichlorophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Diethyl phthalate	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Dimethyl phthalate	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4-Dimethylphenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01A	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
4,6-Dinitro-2-methylphenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4-Dinitrophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4-Dinitrotoluene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,6-Dinitrotoluene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Di-n-octyl phthalate	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
1,2-Diphenylhydrazine	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Fluoranthene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Fluorene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Hexachlorobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Hexachlorobutadiene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Hexachlorocyclopentadiene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Hexachloroethane	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Isophorone	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Naphthalene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Nitrobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2-Nitrophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
4-Nitrophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
N-Nitrosodimethylamine	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
N-Nitrosodiphenylamine	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Pentachlorophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Phenanthrene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Phenol	ND	5.47	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Pyrene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4,5-Trichlorophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
2,4,6-Trichlorophenol	ND	2.19	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:33PM	PA/VA
Surr: 2-Fluorophenol	56.7	NA	17.6-120	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
Surr: Phenol-d5	37.7	NA	11.4-120	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
Surr: 2,4,6-Tribromophenol	88.1	NA	18-129	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
Surr: Nitrobenzene-d5	95.4	NA	21.5-122	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
Surr: 2-Fluorobiphenyl	88.7	NA	23.7-127	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
Surr: 4-Terphenyl-d14	82.4	NA	39.9-124	NA	%Rec	04/09/19 3:23PM	04/10/19 6:33PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	220	500	NA	µg/L	04/08/19 7:37AM	04/08/19 2:27PM	PA/VA
Surr: 2,5-Dibromotoluene	120	NA	49.3-147	NA	%Rec	04/08/19 7:37AM	04/08/19 2:27PM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: ES**	
Xylenes, Total	ND	NA	0	NA	µg/L		04/10/19 1:47PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01A	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Acetone	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01A	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		04/10/19 1:47PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Surr: 1,2-Dichloroethane-d4	98.0	NA	75.2-127	NA	%Rec		04/10/19 1:47PM	
Surr: 4-Bromofluorobenzene	99.4	NA	84.5-142	NA	%Rec		04/10/19 1:47PM	
Surr: Dibromofluoromethane	106	NA	69.2-124	NA	%Rec		04/10/19 1:47PM	
Surr: Toluene-d8	97.8	NA	77.6-120	NA	%Rec		04/10/19 1:47PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: ES**	
tert-Amyl alcohol	ND	0.361	1.00	NA	µg/L		04/10/19 1:47PM	
tert-Amyl Ethyl Ether	ND	0.368	1.00	NA	µg/L		04/10/19 1:47PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	
tert-Butyl alcohol	ND	50.0	200	NA	µg/L		04/10/19 1:47PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 1:47PM	
Ethanol	ND	100	200	NA	µg/L		04/10/19 1:47PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		04/10/19 1:47PM	PA/VA
Surr: 1,2-Dichloroethane-d4	102	NA	72.3-120	NA	%Rec		04/10/19 1:47PM	
Surr: 4-Bromofluorobenzene	101	NA	72.5-134	NA	%Rec		04/10/19 1:47PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01A	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	109	NA	75.9-141	NA	%Rec		04/10/19 1:47PM	
Surr: Toluene-d8	99.4	NA	72.6-119	NA	%Rec		04/10/19 1:47PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-01B	**Matrix:**	Groundwater
Client Sample ID:	MW12	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	04/09/19 4:15PM	04/10/19 11:53PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02A	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**					**Analyst: CGW**
Lead	0.380	0.200	1.00	NA	J	µg/L	04/09/19 4:15PM	04/11/19 12:00AM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**					**Analyst: NC**
DBCP	ND	0.00754	0.0198	0.200		µg/L	04/09/19 8:14AM	04/09/19 3:32PM	PA/VA
EDB	ND	0.00387	0.0198	0.050		µg/L	04/09/19 8:14AM	04/09/19 3:32PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**					**Analyst: NC**
Acenaphthene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Acenaphthylene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Anthracene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzidine	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzo(a)anthracene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzo(a)pyrene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzo(b)fluoranthene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzo(g,h,i)perylene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Benzo(k)fluoranthene	ND	3.26	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Butyl benzyl phthalate	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
4-Chloro-3-methylphenol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2-Chloronaphthalene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2-Chlorophenol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Chrysene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
o-Cresol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
m,p-Cresol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Di-n-butyl phthalate	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
1,2-Dichlorobenzene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
1,3-Dichlorobenzene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
1,4-Dichlorobenzene	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4-Dichlorophenol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Diethyl phthalate	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Dimethyl phthalate	ND	5.43	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4-Dimethylphenol	ND	2.17	10.9	NA		µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02A	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
4,6-Dinitro-2-methylphenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4-Dinitrophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4-Dinitrotoluene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,6-Dinitrotoluene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Di-n-octyl phthalate	ND	5.43	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
1,2-Diphenylhydrazine	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Fluoranthene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Fluorene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Hexachlorobenzene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Hexachlorobutadiene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Hexachlorocyclopentadiene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Hexachloroethane	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Isophorone	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Naphthalene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Nitrobenzene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2-Nitrophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
4-Nitrophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
N-Nitrosodimethylamine	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
N-Nitrosodiphenylamine	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Pentachlorophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Phenanthrene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Phenol	ND	5.43	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Pyrene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4,5-Trichlorophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
2,4,6-Trichlorophenol	ND	2.17	10.9	NA	µg/L	04/09/19 3:23PM	04/10/19 6:56PM	PA/VA
Surr: 2-Fluorophenol	53.6	NA	17.6-120	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
Surr: Phenol-d5	34.8	NA	11.4-120	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
Surr: 2,4,6-Tribromophenol	80.7	NA	18-129	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
Surr: Nitrobenzene-d5	87.9	NA	21.5-122	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
Surr: 2-Fluorobiphenyl	82.4	NA	23.7-127	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
Surr: 4-Terphenyl-d14	79.1	NA	39.9-124	NA	%Rec	04/09/19 3:23PM	04/10/19 6:56PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	220	500	NA	µg/L	04/08/19 7:37AM	04/08/19 2:58PM	PA/VA
Surr: 2,5-Dibromotoluene	108	NA	49.3-147	NA	%Rec	04/08/19 7:37AM	04/08/19 2:58PM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: ES**	
Xylenes, Total	ND	NA	0	NA	µg/L		04/10/19 2:18PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02A	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Acetone	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02A	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		04/10/19 2:18PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.1	NA	75.2-127	NA	%Rec		04/10/19 2:18PM	
Surr: 4-Bromofluorobenzene	98.0	NA	84.5-142	NA	%Rec		04/10/19 2:18PM	
Surr: Dibromofluoromethane	102	NA	69.2-124	NA	%Rec		04/10/19 2:18PM	
Surr: Toluene-d8	97.3	NA	77.6-120	NA	%Rec		04/10/19 2:18PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: ES**	
tert-Amyl alcohol	ND	0.361	1.00	NA	µg/L		04/10/19 2:18PM	
tert-Amyl Ethyl Ether	ND	0.368	1.00	NA	µg/L		04/10/19 2:18PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	
tert-Butyl alcohol	ND	50.0	200	NA	µg/L		04/10/19 2:18PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 2:18PM	
Ethanol	ND	100	200	NA	µg/L		04/10/19 2:18PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		04/10/19 2:18PM	PA/VA
Surr: 1,2-Dichloroethane-d4	102	NA	72.3-120	NA	%Rec		04/10/19 2:18PM	
Surr: 4-Bromofluorobenzene	101	NA	72.5-134	NA	%Rec		04/10/19 2:18PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02A	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	108	NA	75.9-141	NA	%Rec		04/10/19 2:18PM	
Surr: Toluene-d8	98.3	NA	72.6-119	NA	%Rec		04/10/19 2:18PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-02B	**Matrix:**	Groundwater
Client Sample ID:	MW13	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	04/09/19 4:15PM	04/11/19 12:06AM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03A	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**	
Lead	1.68	0.200	1.00	NA		µg/L	04/09/19 4:15PM	04/11/19 12:12AM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: NC**	
DBCP	ND	0.00762	0.0201	0.200		µg/L	04/08/19 8:19AM	04/08/19 7:32PM	PA/VA
EDB	ND	0.00391	0.0201	0.050		µg/L	04/08/19 8:19AM	04/08/19 7:32PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: CLS**	
Acenaphthene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Acenaphthylene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Anthracene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzidine	ND	5.34	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzo(a)anthracene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzo(a)pyrene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzo(b)fluoranthene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzo(g,h,i)perylene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Benzo(k)fluoranthene	ND	3.20	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.34	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Butyl benzyl phthalate	ND	5.34	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
4-Chloro-3-methylphenol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2-Chloronaphthalene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2-Chlorophenol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Chrysene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
o-Cresol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
m,p-Cresol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Di-n-butyl phthalate	ND	5.34	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
1,2-Dichlorobenzene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
1,3-Dichlorobenzene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
1,4-Dichlorobenzene	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.34	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4-Dichlorophenol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Diethyl phthalate	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Dimethyl phthalate	7.14	5.34	10.7	NA	J	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4-Dimethylphenol	ND	2.13	10.7	NA		µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA

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WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03A	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
4,6-Dinitro-2-methylphenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4-Dinitrophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4-Dinitrotoluene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,6-Dinitrotoluene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Di-n-octyl phthalate	ND	5.34	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
1,2-Diphenylhydrazine	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Fluoranthene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Fluorene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Hexachlorobenzene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Hexachlorobutadiene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Hexachlorocyclopentadiene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Hexachloroethane	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Isophorone	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Naphthalene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Nitrobenzene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2-Nitrophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
4-Nitrophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
N-Nitrosodimethylamine	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
N-Nitrosodiphenylamine	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Pentachlorophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Phenanthrene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Phenol	ND	5.34	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Pyrene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4,5-Trichlorophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
2,4,6-Trichlorophenol	ND	2.13	10.7	NA	µg/L	04/09/19 9:20AM	04/09/19 4:45PM	PA/VA
Surr: 2-Fluorophenol	53.0	NA	17.6-120	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
Surr: Phenol-d5	37.0	NA	11.4-120	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
Surr: 2,4,6-Tribromophenol	75.7	NA	18-129	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
Surr: Nitrobenzene-d5	79.8	NA	21.5-122	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
Surr: 2-Fluorobiphenyl	80.1	NA	23.7-127	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
Surr: 4-Terphenyl-d14	77.3	NA	39.9-124	NA	%Rec	04/09/19 9:20AM	04/09/19 4:45PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	220	500	NA	µg/L	04/08/19 7:37AM	04/08/19 3:28PM	PA/VA
Surr: 2,5-Dibromotoluene	111	NA	49.3-147	NA	%Rec	04/08/19 7:37AM	04/08/19 3:28PM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: ES**	
Xylenes, Total	ND	NA	0	NA	µg/L		04/10/19 2:49PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03A	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Acetone	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA

Pace Analytical Services - Analytical Report

WO#: 19040804

Date Reported: 4/11/2019
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03A	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		04/10/19 2:49PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	98.9	NA	75.2-127	NA	%Rec		04/10/19 2:49PM	
Surr: 4-Bromofluorobenzene	97.1	NA	84.5-142	NA	%Rec		04/10/19 2:49PM	
Surr: Dibromofluoromethane	105	NA	69.2-124	NA	%Rec		04/10/19 2:49PM	
Surr: Toluene-d8	96.7	NA	77.6-120	NA	%Rec		04/10/19 2:49PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: ES**	
tert-Amyl alcohol	ND	0.361	1.00	NA	µg/L		04/10/19 2:49PM	
tert-Amyl Ethyl Ether	ND	0.368	1.00	NA	µg/L		04/10/19 2:49PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	
tert-Butyl alcohol	ND	50.0	200	NA	µg/L		04/10/19 2:49PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		04/10/19 2:49PM	
Ethanol	ND	100	200	NA	µg/L		04/10/19 2:49PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		04/10/19 2:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	72.3-120	NA	%Rec		04/10/19 2:49PM	
Surr: 4-Bromofluorobenzene	101	NA	72.5-134	NA	%Rec		04/10/19 2:49PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03A	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	111	NA	75.9-141	NA	%Rec		04/10/19 2:49PM	
Surr: Toluene-d8	98.1	NA	72.6-119	NA	%Rec		04/10/19 2:49PM	

Pace Analytical Services - Analytical Report

WO#: **19040804**

Date Reported: **4/11/2019**
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	4/3/2019 11:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	4/4/2019
Lab ID:	19040804-03B	**Matrix:**	Groundwater
Client Sample ID:	MW14	**Site ID:**	

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	04/09/19 4:15PM	04/11/19 12:18AM	PA/VA

Pace Analytical Services, LLC.
PO Box 684056
Chicago, IL 60695-4056
TEL: (304)255-2500
Website: www.reiclabs.com

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**19040804**
RCPNo:	**1**	Date and Time Received:	**4/4/2019 10:40:00 AM**	Received by:	**Randy Rose**
Completed By:	**Crystal Sturgill**		Reviewed By:	**Billy Shirley**	
Completed Date:	**4/5/2019 3:46:25 PM**		Reviewed Date:	**4/8/2019 9:50 AM**	

Carrier Name: Pace

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1.7 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [ ]	No [ ]	No Vials [x]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **19040804**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number He

19040804

GRE096
GREENE ENVIRONMENTAL SE
Billy Shirley

ALL SHADED AREAS are for

Company: Greene Environmental Services, LLC	Billing Information: Mr. Trev Greene 570 Redbud Hill Road Rocky Mount, VA 24151
Address: 129 Bunny Ridge Lane Rocky Mount, VA 24015	
Report To: Mr. Trev Greene	Email To: tgreene@greene-environmental.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Chamblissburg Supply - CSVI	State: County/City: / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: 540-483-3311 Email: As above	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): BM	Purchase Order # : Quote #: / DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: ____

Container Preservative Type **: 3 3 U U 1 1

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TPH-GRO via 8015	VOCs via 8260 including oxygenates	SVOCs via 8270	EDB/DBCP via 8011	Total Lead via 200.8	Dissovled Leed via 200.8
MW12	GW	Grab	4/3/2019	1300				11	X	X	X	X	X	X
MW13	GW	Grab	4/3/2019	1430				11	X	X	X	X	X	X
MW14	GW	Grab	4/3/2019	1120				11	X	X	X	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ____
Sample pH Acceptable Y N NA
pH Strips: ____
Sulfide Present Y N NA
Lead Acetate Strips: ____

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 13
Cooler 1 Temp Upon Receipt: 2.0 oC
Cooler 1 Therm Corr. Factor: -0.3 oC
Cooler 1 Corrected Temp: 1.7 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	4-4-19 / 1030	[signature]	4-4-19 1040
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 4-4-19 1630
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 4-4-19 1850

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

29 October 2019

Adam Flora
Greene Environmental Services LLC
570 Redbud Hill Rd
Rocky Mount, VA 24151
RE: CHAMBLISSBURG SUPPLY

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 16:21.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01		9101713-01	Nonpotable Water	10/14/19 10:15	10/17/19 16:21
MW02		9101713-02	Nonpotable Water	10/14/19 10:40	10/17/19 16:21
MW03		9101713-03	Nonpotable Water	10/14/19 11:45	10/17/19 16:21
MW04		9101713-04	Nonpotable Water	10/14/19 11:45	10/17/19 16:21
MW05		9101713-05	Nonpotable Water	10/14/19 08:30	10/17/19 16:21
MW06		9101713-06	Nonpotable Water	10/14/19 08:55	10/17/19 16:21
MW07		9101713-07	Nonpotable Water	10/14/19 09:30	10/17/19 16:21
MW08		9101713-08	Nonpotable Water	10/14/19 09:40	10/17/19 16:21
MW09		9101713-09	Nonpotable Water	10/14/19 09:55	10/17/19 16:21
MW10		9101713-10	Nonpotable Water	10/14/19 11:25	10/17/19 16:21
MW11		9101713-11	Nonpotable Water	10/14/19 11:05	10/17/19 16:21
DW01A		9101713-12	Nonpotable Water	10/14/19 16:05	10/17/19 16:21
DW01B		9101713-13	Nonpotable Water	10/14/19 16:30	10/17/19 16:21
DW02A		9101713-14	Nonpotable Water	10/14/19 09:16	10/17/19 16:21
DW02C		9101713-15	Nonpotable Water	10/14/19 09:45	10/17/19 16:21
DW03A		9101713-16	Nonpotable Water	10/14/19 08:30	10/17/19 16:21
DW03C		9101713-17	Nonpotable Water	10/14/19 08:15	10/17/19 16:21
DW04A		9101713-18	Nonpotable Water	10/14/19 10:25	10/17/19 16:21
DW04B		9101713-19	Nonpotable Water	10/14/19 10:50	10/17/19 16:21
DW05A		9101713-20	Nonpotable Water	10/14/19 14:40	10/17/19 16:21
DW06B		9101713-21	Nonpotable Water	10/14/19 14:00	10/17/19 16:21
DW06C		9101713-22	Nonpotable Water	10/14/19 13:50	10/17/19 16:21
DW07A		9101713-23	Nonpotable Water	10/14/19 14:25	10/17/19 16:21
DW09A		9101713-24	Nonpotable Water	10/14/19 11:47	10/17/19 16:21
DW09B		9101713-25	Nonpotable Water	10/14/19 11:45	10/17/19 16:21
DW10A		9101713-26	Nonpotable Water	10/14/19 15:05	10/17/19 16:21

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DW11A		9101713-27	Nonpotable Water	10/14/19 15:20	10/17/19 16:21
DW33A		9101713-28	Nonpotable Water	10/14/19 14:10	10/17/19 16:21
DW33B		9101713-29	Nonpotable Water	10/14/19 14:25	10/17/19 16:21
ST01		9101713-30	Nonpotable Water	10/14/19 15:40	10/17/19 16:21
POND01		9101713-31	Nonpotable Water	10/14/19 15:50	10/17/19 16:21

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

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Maryland spectral Services

Analytical Chemistry Services

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Baltimore MD 21227
410-247-7600
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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW01

9101713-01 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
Methyl tert-butyl ether (MTBE)	**30.3**		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
Naphthalene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
Toluene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
o-Xylene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 19:37	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*105 %*	*10/21/19*		*10/21/19 19:37*		
Surrogate: Toluene-d8			*84-110*	*92 %*	*10/21/19*		*10/21/19 19:37*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*96 %*	*10/21/19*		*10/21/19 19:37*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**194**		ug/L	100	100	1	10/25/19	10/25/19 16:43	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**8.90**		mg/L	0.43	0.43	2	10/23/19	10/24/19 19:56	SJA
Surrogate: o-Terphenyl			*60-120*	*126 %*	*10/23/19*		*10/24/19 19:56*		*S-FAIL*

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW02

9101713-02 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**38.6**	J	ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
Ethylbenzene	**35.8**	J	ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
Methyl tert-butyl ether (MTBE)	**1260**		ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
Naphthalene	**154**		ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
Toluene	**60.6**		ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
o-Xylene	**622**		ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
m- & p-Xylenes	**269**		ug/L	50.0	20.0	10	10/21/19	10/21/19 20:03	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*102 %*	*10/21/19*		*10/21/19 20:03*		
Surrogate: Toluene-d8			*84-110*	*92 %*	*10/21/19*		*10/21/19 20:03*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*98 %*	*10/21/19*		*10/21/19 20:03*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**3650**		ug/L	500	500	5	10/25/19	10/25/19 19:49	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**20.6**		mg/L	0.66	0.66	3	10/23/19	10/24/19 20:23	SJA
Surrogate: o-Terphenyl			*60-120*	*70 %*	*10/23/19*		*10/24/19 20:23*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW03

9101713-03 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**124000**		ug/L	25000	25000	250	10/25/19	10/25/19 20:26	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**189**		mg/L	21.5	21.5	100	10/23/19	10/24/19 20:50	SJA
Surrogate: o-Terphenyl			*60-120*	*%*		*10/23/19*	*10/24/19 20:50*		*S-01*

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW03

9101713-03RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**10600**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
Ethylbenzene	**3260**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
Methyl tert-butyl ether (MTBE)	**23400**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
Naphthalene	ND		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
Toluene	**43200**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
o-Xylene	**5480**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
m- & p-Xylenes	**11900**		ug/L	2500	1000	500	10/25/19	10/25/19 20:54	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*10/25/19*		*10/25/19 20:54*		
Surrogate: Toluene-d8			*84-110*	*104 %*	*10/25/19*		*10/25/19 20:54*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*95 %*	*10/25/19*		*10/25/19 20:54*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW04

9101713-04 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**173000**		ug/L	25000	25000	250	10/25/19	10/25/19 21:03	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**139**		mg/L	20.9	20.9	100	10/23/19	10/24/19 21:17	SJA
Surrogate: o-Terphenyl			*60-120*	*%*		*10/23/19*	*10/24/19 21:17*		*S-01*

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW04

9101713-04RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**17300**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
Ethylbenzene	**3230**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
Methyl tert-butyl ether (MTBE)	**42900**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
Naphthalene	ND		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
Toluene	**51200**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
o-Xylene	**4970**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
m- & p-Xylenes	**10800**		ug/L	2500	1000	500	10/25/19	10/25/19 21:19	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*107 %*		*10/25/19*	*10/25/19 21:19*		
Surrogate: Toluene-d8			*84-110*	*103 %*		*10/25/19*	*10/25/19 21:19*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*		*10/25/19*	*10/25/19 21:19*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW05

9101713-05 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
Naphthalene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
Toluene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
o-Xylene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:19	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*104 %*		*10/21/19*		*10/21/19 21:19*	
Surrogate: Toluene-d8			*84-110*	*92 %*		*10/21/19*		*10/21/19 21:19*	
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*		*10/21/19*		*10/21/19 21:19*	
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/25/19	10/25/19 17:20	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.25	0.25	1	10/23/19	10/24/19 22:11	SJA
Surrogate: o-Terphenyl			*60-120*	*102 %*		*10/23/19*		*10/24/19 22:11*	

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW06

9101713-06 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
Naphthalene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
Toluene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
o-Xylene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 21:45	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*103 %*	*10/21/19*		*10/21/19 21:45*		
Surrogate: Toluene-d8			*84-110*	*91 %*	*10/21/19*		*10/21/19 21:45*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*95 %*	*10/21/19*		*10/21/19 21:45*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/25/19	10/25/19 17:58	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	10/23/19	10/24/19 22:37	SJA
Surrogate: o-Terphenyl			*60-120*	*97 %*	*10/23/19*		*10/24/19 22:37*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW07

9101713-07 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
Naphthalene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
Toluene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
o-Xylene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:11	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*105 %*	*10/21/19*		*10/21/19 22:11*		
Surrogate: Toluene-d8			*84-110*	*92 %*	*10/21/19*		*10/21/19 22:11*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*	*10/21/19*		*10/21/19 22:11*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/25/19	10/25/19 18:35	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.21	0.21	1	10/23/19	10/24/19 23:04	SJA
Surrogate: o-Terphenyl			*60-120*	*93 %*	*10/23/19*		*10/24/19 23:04*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW08

9101713-08 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
Ethylbenzene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
Naphthalene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
Toluene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
o-Xylene	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
m- & p-Xylenes	ND		ug/L	5.0	2.0	1	10/21/19	10/21/19 22:36	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*105 %*	*10/21/19*		*10/21/19 22:36*		
Surrogate: Toluene-d8			*84-110*	*93 %*	*10/21/19*		*10/21/19 22:36*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*95 %*	*10/21/19*		*10/21/19 22:36*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	10/25/19	10/25/19 19:12	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.20	0.20	1	10/23/19	10/24/19 23:31	SJA
Surrogate: o-Terphenyl			*60-120*	*94 %*	*10/23/19*		*10/24/19 23:31*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW09

9101713-09 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**40.2**	J	ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
Ethylbenzene	**24.6**	J	ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
Methyl tert-butyl ether (MTBE)	**1810**		ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
Naphthalene	ND		ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
Toluene	**143**		ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
o-Xylene	**41.5**	J	ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
m- & p-Xylenes	**60.1**		ug/L	50.0	20.0	10	10/21/19	10/21/19 23:02	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*103 %*	*10/21/19*		*10/21/19 23:02*		
Surrogate: Toluene-d8			*84-110*	*93 %*	*10/21/19*		*10/21/19 23:02*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*96 %*	*10/21/19*		*10/21/19 23:02*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**2940**		ug/L	500	500	5	10/25/19	10/25/19 21:41	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**60.8**		mg/L	4.40	4.40	20	10/23/19	10/24/19 23:58	SJA
Surrogate: o-Terphenyl			*60-120*	*%*	*10/23/19*		*10/24/19 23:58*		*S-01*

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW10

9101713-10 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**50100**		ug/L	10000	10000	100	10/25/19	10/25/19 22:18	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**27.7**		mg/L	1.08	1.08	5	10/23/19	10/25/19 00:25	SJA
Surrogate: o-Terphenyl			*60-120*	*112 %*		*10/23/19*		*10/25/19 00:25*	

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW10

9101713-10RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**3750**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
Ethylbenzene	**833**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
Methyl tert-butyl ether (MTBE)	**26600**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
Naphthalene	**737**	J	ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
Toluene	**4450**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
o-Xylene	**4850**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
m- & p-Xylenes	**1860**		ug/L	750	300	150	10/25/19	10/25/19 21:45	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*107 %*		*10/25/19*	*10/25/19 21:45*		
Surrogate: Toluene-d8			*84-110*	*103 %*		*10/25/19*	*10/25/19 21:45*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*96 %*		*10/25/19*	*10/25/19 21:45*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

MW11

9101713-11 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS (MBTEXN+) BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLA									
Benzene	**649**		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
Ethylbenzene	ND		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
Methyl tert-butyl ether (MTBE)	**8600**		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
Naphthalene	ND		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
Toluene	ND		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
o-Xylene	**660**		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
m- & p-Xylenes	ND		ug/L	500	200	100	10/21/19	10/21/19 23:53	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*102 %*	*10/21/19*		*10/21/19 23:53*		
Surrogate: Toluene-d8			*84-110*	*90 %*	*10/21/19*		*10/21/19 23:53*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*95 %*	*10/21/19*		*10/21/19 23:53*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	**15800**		ug/L	5000	5000	50	10/25/19	10/25/19 22:55	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	**20.0**		mg/L	1.05	1.05	5	10/23/19	10/25/19 00:52	SJA
Surrogate: o-Terphenyl			*60-120*	*111 %*	*10/23/19*		*10/25/19 00:52*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01A

9101713-12 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 14:55	GM
1,2-Dibromoethane (EDB)	**0.592**		ug/L	0.019	0.019	1	10/25/19	10/25/19 14:55	GM

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Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01A

9101713-12RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									**QC-6**
Acetone	ND		ug/L	50.0	50.0	5	10/29/19	10/29/19 15:14	GM
tert-Amyl alcohol (TAA)	**971**		ug/L	100	100	5	10/29/19	10/29/19 15:14	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Benzene	**662**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Bromobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Bromochloromethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Bromodichloromethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Bromoform	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Bromomethane	ND		ug/L	25.0	25.0	5	10/29/19	10/29/19 15:14	GM
tert-Butanol (TBA)	**187**		ug/L	75.0	75.0	5	10/29/19	10/29/19 15:14	GM
2-Butanone (MEK)	ND		ug/L	50.0	50.0	5	10/29/19	10/29/19 15:14	GM
n-Butylbenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
sec-Butylbenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
tert-Butylbenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Carbon disulfide	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Carbon tetrachloride	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Chlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Chloroethane	ND		ug/L	25.0	25.0	5	10/29/19	10/29/19 15:14	GM
Chloroform	**6.7**	J	ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Chloromethane	ND		ug/L	25.0	25.0	5	10/29/19	10/29/19 15:14	GM
2-Chlorotoluene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
4-Chlorotoluene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Dibromochloromethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2-Dibromoethane (EDB)	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Dibromomethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2-Dichlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,3-Dichlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,4-Dichlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Dichlorodifluoromethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1-Dichloroethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2-Dichloroethane	**35.1**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1-Dichloroethene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01A

9101713-12RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									**QC-6**
cis-1,2-Dichloroethene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
trans-1,2-Dichloroethene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Dichlorofluoromethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2-Dichloropropane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,3-Dichloropropane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
2,2-Dichloropropane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1-Dichloropropene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
cis-1,3-Dichloropropene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
trans-1,3-Dichloropropene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Diisopropyl ether (DIPE)	**33.0**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Ethylbenzene	**41.5**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Hexachlorobutadiene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
2-Hexanone	ND		ug/L	50.0	50.0	5	10/29/19	10/29/19 15:14	GM
Isopropylbenzene (Cumene)	**5.6**	J	ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
4-Isopropyltoluene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Methyl tert-butyl ether (MTBE)	**650**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
4-Methyl-2-pentanone	ND		ug/L	50.0	50.0	5	10/29/19	10/29/19 15:14	GM
Methylene chloride	ND		ug/L	50.0	50.0	5	10/29/19	10/29/19 15:14	GM
Naphthalene	**34.4**		ug/L	10.0	10.0	5	10/29/19	10/29/19 15:14	GM
n-Propylbenzene	**6.3**	J	ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Styrene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Tetrachloroethene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Toluene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2,3-Trichlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2,4-Trichlorobenzene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1,1-Trichloroethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,1,2-Trichloroethane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Trichloroethene	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2,3-Trichloropropane	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
1,2,4-Trimethylbenzene	**206**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01A

9101713-12RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									**QC-6**
1,3,5-Trimethylbenzene	**53.6**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Vinyl chloride	ND		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
o-Xylene	**122**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
m- & p-Xylenes	**313**		ug/L	10.0	5.0	5	10/29/19	10/29/19 15:14	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*98 %*	*10/29/19*		*10/29/19 15:14*		
Surrogate: Toluene-d8			*75-120*	*95 %*	*10/29/19*		*10/29/19 15:14*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*105 %*	*10/29/19*		*10/29/19 15:14*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01B

9101713-13 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 15:23	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 15:23	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01B

9101713-13RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									**QC-6**
Acetone	ND		ug/L	10.0	10.0	1	10/29/19	10/29/19 15:37	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/29/19	10/29/19 15:37	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Benzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/29/19	10/29/19 15:37	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/29/19	10/29/19 15:37	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/29/19	10/29/19 15:37	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/29/19	10/29/19 15:37	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/29/19	10/29/19 15:37	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM

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410-247-7600
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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01B

9101713-13RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									**QC-6**
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/29/19	10/29/19 15:37	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/29/19	10/29/19 15:37	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/29/19	10/29/19 15:37	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/29/19	10/29/19 15:37	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Styrene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Toluene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW01B

9101713-13RE1 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									**QC-6**
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/29/19	10/29/19 15:37	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*102 %*	*10/29/19*		*10/29/19 15:37*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*10/29/19*		*10/29/19 15:37*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*99 %*	*10/29/19*		*10/29/19 15:37*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02A

9101713-14 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:15	GM
tert-Amyl alcohol (TAA)	**287**		ug/L	20.0	20.0	1	10/25/19	10/25/19 13:15	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Benzene	**1.9**	J	ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:15	GM
tert-Butanol (TBA)	**74.7**		ug/L	15.0	15.0	1	10/25/19	10/25/19 13:15	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:15	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:15	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:15	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2-Dichloroethane	**17.9**		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02A

9101713-14 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Diisopropyl ether (DIPE)	**10.3**		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:15	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Methyl tert-butyl ether (MTBE)	**174**		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:15	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:15	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 13:15	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02A

9101713-14 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	**7.3**		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
m- & p-Xylenes	**1.3**	J	ug/L	2.0	1.0	1	10/25/19	10/25/19 13:15	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*106 %*	*10/25/19*		*10/25/19 13:15*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 13:15*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*10/25/19*		*10/25/19 13:15*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 15:51	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 15:51	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02C

9101713-15 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:41	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 13:41	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:41	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 13:41	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:41	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:41	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 13:41	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM

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410-247-7600
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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02C

9101713-15 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:41	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:41	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 13:41	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 13:41	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW02C

9101713-15 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 13:41	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*107 %*	*10/25/19*		*10/25/19 13:41*		
Surrogate: Toluene-d8			*75-120*	*104 %*	*10/25/19*		*10/25/19 13:41*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*10/25/19*		*10/25/19 13:41*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 16:19	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 16:19	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03A

9101713-16 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:06	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 14:06	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:06	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 14:06	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:06	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:06	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:06	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03A

9101713-16 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:06	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:06	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:06	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 14:06	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03A

9101713-16 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:06	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*110 %*	*10/25/19*		*10/25/19 14:06*		
Surrogate: Toluene-d8			*75-120*	*105 %*	*10/25/19*		*10/25/19 14:06*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*10/25/19*		*10/25/19 14:06*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 16:47	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 16:47	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03C

9101713-17 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:31	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 14:31	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:31	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 14:31	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:31	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:31	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:31	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03C

9101713-17 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:31	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:31	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:31	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 14:31	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW03C

9101713-17 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:31	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*10/25/19*		*10/25/19 14:31*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 14:31*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*10/25/19*		*10/25/19 14:31*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 17:17	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 17:17	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04A

9101713-18 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:57	GM
tert-Amyl alcohol (TAA)	**64.1**		ug/L	20.0	20.0	1	10/25/19	10/25/19 14:57	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Benzene	**2.4**		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:57	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 14:57	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:57	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:57	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 14:57	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2-Dichloroethane	**3.8**		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04A

9101713-18 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Diisopropyl ether (DIPE)	**2.3**		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:57	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Methyl tert-butyl ether (MTBE)	**26.5**		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:57	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 14:57	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 14:57	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04A

9101713-18 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 14:57	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*107 %*	*10/25/19*		*10/25/19 14:57*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 14:57*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*	*10/25/19*		*10/25/19 14:57*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 17:46	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 17:46	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04B

9101713-19 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:22	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 15:22	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:22	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 15:22	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:22	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:22	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:22	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04B

9101713-19 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:22	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:22	GM
Methylene chloride	**10.3**		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:22	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 15:22	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW04B

9101713-19 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:22	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*108 %*	*10/25/19*		*10/25/19 15:22*		
Surrogate: Toluene-d8			*75-120*	*104 %*	*10/25/19*		*10/25/19 15:22*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*96 %*	*10/25/19*		*10/25/19 15:22*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 18:14	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 18:14	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW05A

9101713-20 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:48	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 15:48	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:48	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 15:48	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:48	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:48	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 15:48	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW05A

9101713-20 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:48	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Methyl tert-butyl ether (MTBE)	**3.1**		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:48	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 15:48	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 15:48	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW05A

9101713-20 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 15:48	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*108 %*	*10/25/19*		*10/25/19 15:48*		
Surrogate: Toluene-d8			*75-120*	*102 %*	*10/25/19*		*10/25/19 15:48*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*91 %*	*10/25/19*		*10/25/19 15:48*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 18:43	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 18:43	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06B

9101713-21 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:13	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 16:13	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:13	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 16:13	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:13	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:13	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:13	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM

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410-247-7600
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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06B

9101713-21 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:13	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:13	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:13	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 16:13	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06B

9101713-21 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:13	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*110 %*	*10/25/19*		*10/25/19 16:13*		
Surrogate: Toluene-d8			*75-120*	*102 %*	*10/25/19*		*10/25/19 16:13*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*92 %*	*10/25/19*		*10/25/19 16:13*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 19:13	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 19:13	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06C

9101713-22 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:39	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 16:39	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:39	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 16:39	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:39	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:39	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 16:39	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06C

9101713-22 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:39	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:39	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 16:39	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 16:39	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW06C

9101713-22 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 16:39	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*108 %*	*10/25/19*		*10/25/19 16:39*		
Surrogate: Toluene-d8			*75-120*	*105 %*	*10/25/19*		*10/25/19 16:39*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*92 %*	*10/25/19*		*10/25/19 16:39*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 19:42	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 19:42	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW07A

9101713-23 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:04	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 17:04	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:04	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 17:04	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:04	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:04	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:04	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW07A

9101713-23 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:04	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Methyl tert-butyl ether (MTBE)	**6.1**		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:04	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:04	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 17:04	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW07A

9101713-23 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:04	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*111 %*		*10/25/19*	*10/25/19 17:04*		
Surrogate: Toluene-d8			*75-120*	*102 %*		*10/25/19*	*10/25/19 17:04*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*		*10/25/19*	*10/25/19 17:04*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.046	0.046	1	10/25/19	10/25/19 20:12	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 20:12	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09A

9101713-24 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:30	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 17:30	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:30	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 17:30	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:30	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:30	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:30	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09A

9101713-24 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:30	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:30	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:30	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 17:30	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09A

9101713-24 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:30	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*108 %*	*10/25/19*		*10/25/19 17:30*		
Surrogate: Toluene-d8			*75-120*	*104 %*	*10/25/19*		*10/25/19 17:30*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*94 %*	*10/25/19*		*10/25/19 17:30*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 20:41	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 20:41	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09B

9101713-25 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:55	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 17:55	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:55	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 17:55	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:55	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:55	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 17:55	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM

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410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09B

9101713-25 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:55	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:55	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 17:55	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 17:55	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW09B

9101713-25 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 17:55	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*110 %*	*10/25/19*		*10/25/19 17:55*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 17:55*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*95 %*	*10/25/19*		*10/25/19 17:55*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 21:09	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 21:09	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW10A

9101713-26 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:21	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 18:21	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:21	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 18:21	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:21	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:21	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:21	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW10A

9101713-26 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:21	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:21	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:21	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 18:21	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW10A

9101713-26 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:21	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*10/25/19*		*10/25/19 18:21*		
Surrogate: Toluene-d8			*75-120*	*105 %*	*10/25/19*		*10/25/19 18:21*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*92 %*	*10/25/19*		*10/25/19 18:21*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 21:37	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 21:37	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW11A

9101713-27 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:46	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 18:46	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:46	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 18:46	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:46	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:46	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 18:46	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW11A

9101713-27 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:46	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:46	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 18:46	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 18:46	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM

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410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW11A

9101713-27 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 18:46	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*10/25/19*		*10/25/19 18:46*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 18:46*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*	*10/25/19*		*10/25/19 18:46*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.048	0.048	1	10/25/19	10/25/19 22:06	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 22:06	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33A

9101713-28 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:12	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 19:12	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:12	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 19:12	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:12	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:12	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:12	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM

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Analytical Results

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Baltimore MD 21227
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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33A

9101713-28 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:12	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:12	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:12	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 19:12	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33A

9101713-28 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:12	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*111 %*		*10/25/19*	*10/25/19 19:12*		
Surrogate: Toluene-d8			*75-120*	*102 %*		*10/25/19*	*10/25/19 19:12*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*		*10/25/19*	*10/25/19 19:12*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.046	0.046	1	10/25/19	10/25/19 22:35	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 22:35	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33B

9101713-29 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:37	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 19:37	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:37	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 19:37	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:37	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:37	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 19:37	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33B

9101713-29 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:37	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:37	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 19:37	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 19:37	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM

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Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33B

9101713-29 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 19:37	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*10/25/19*		*10/25/19 19:37*		
Surrogate: Toluene-d8			*75-120*	*103 %*	*10/25/19*		*10/25/19 19:37*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*	*10/25/19*		*10/25/19 19:37*		
EDB AND DBCP BY EPA 504.1 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	10/25/19	10/25/19 23:04	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	10/25/19	10/25/19 23:04	GM
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D (GC/MS) Prepared by 3510-GCMS(Auto Sep Funnel)									
Acenaphthene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Acenaphthylene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Anthracene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Benzidine	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
Benzo[a]anthracene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Benzo[b]fluoranthene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Benzo[k]fluoranthene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Benzo[ghi]perylene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Benzo[a]pyrene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
4-Bromophenyl phenyl ether	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Butyl benzyl phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Carbazole	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
4-Chloro-3-methylphenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
4-Chloroaniline	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Bis(2-chloroethoxy)methane	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Bis(2-chloroethyl) ether	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2,2'-Oxybis(1-Chloropropane)	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Chloronaphthalene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Chlorophenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
4-Chlorophenyl phenyl ether	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Chrysene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33B

9101713-29 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D (GC/MS) Prepared by 3510-GCMS(Auto Sep Funnel)									
Di-n-butyl phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Di-n-octyl phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Dibenzo[a,h]anthracene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Dibenzofuran	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
1,2-Dichlorobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
1,3-Dichlorobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
1,4-Dichlorobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
3,3-Dichlorobenzidine	ND		ug/L	10.4	10.4	1	10/18/19	10/21/19 13:35	WB
2,4-Dichlorophenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Diethyl phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Dimethyl phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2,4-Dimethylphenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Methyl-4,6-dinitrophenol	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
2,4-Dinitrophenol	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
2,4-Dinitrotoluene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2,6-Dinitrotoluene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Bis(2-ethylhexyl) phthalate	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Fluoranthene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Fluorene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Hexachlorobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Hexachlorobutadiene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Hexachlorocyclopentadiene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Hexachloroethane	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Indeno[1,2,3-cd]pyrene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Isophorone	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Methylnaphthalene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
3&4-Methylphenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Methylphenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
N-Nitroso-di-n-propylamine	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
N-Nitrosodiphenylamine	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Naphthalene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Nitroaniline	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
3-Nitroaniline	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

DW33B

9101713-29 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
SEMIVOLATILE ORGANICS BY EPA METHOD 8270D (GC/MS) Prepared by 3510-GCMS(Auto Sep Funnel)									
4-Nitroaniline	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
Nitrobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2-Nitrophenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
4-Nitrophenol	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
Pentachlorophenol	ND		ug/L	26.0	26.0	1	10/18/19	10/21/19 13:35	WB
Phenanthrene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Phenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Pyrene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Pyridine	ND		ug/L	5.2	5.2	1	10/18/19	10/21/19 13:35	WB
1,2,4-Trichlorobenzene	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2,4,5-Trichlorophenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
2,4,6-Trichlorophenol	ND		ug/L	5.2	2.1	1	10/18/19	10/21/19 13:35	WB
Surrogate: 2-Fluorophenol			*21-110*	*18 %*		*10/18/19*	*10/21/19 13:35*		*S-AC*
Surrogate: Phenol-d5			*10-110*	*14 %*		*10/18/19*	*10/21/19 13:35*		
Surrogate: Nitrobenzene-d5			*35-114*	*36 %*		*10/18/19*	*10/21/19 13:35*		
Surrogate: 2,4,6-Tribromophenol			*10-123*	*33 %*		*10/18/19*	*10/21/19 13:35*		
Surrogate: 2-Fluorobiphenyl			*43-116*	*34 %*		*10/18/19*	*10/21/19 13:35*		*S-BN*
Surrogate: Terphenyl-d14			*33-141*	*81 %*		*10/18/19*	*10/21/19 13:35*		

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

ST01

9101713-30 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:03	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 20:03	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:03	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 20:03	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:03	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:03	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:03	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

ST01

9101713-30 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:03	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:03	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:03	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 20:03	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

ST01

9101713-30 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:03	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*110 %*		*10/25/19*	*10/25/19 20:03*		
Surrogate: Toluene-d8			*75-120*	*104 %*		*10/25/19*	*10/25/19 20:03*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*92 %*		*10/25/19*	*10/25/19 20:03*		

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

POND01

9101713-31 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:28	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	10/25/19	10/25/19 20:28	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Benzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Bromoform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Bromomethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:28	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	10/25/19	10/25/19 20:28	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:28	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Chloroethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:28	GM
Chloroform	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Chloromethane	ND		ug/L	5.0	5.0	1	10/25/19	10/25/19 20:28	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

POND01

9101713-31 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:28	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:28	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	10/25/19	10/25/19 20:28	GM
Naphthalene	ND		ug/L	2.0	2.0	1	10/25/19	10/25/19 20:28	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Styrene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Toluene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

POND01

9101713-31 (Nonpotable Water)
Sample Date: 10/14/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
o-Xylene	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	10/25/19	10/25/19 20:28	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*113 %*		*10/25/19*		*10/25/19 20:28*	
Surrogate: Toluene-d8			*75-120*	*104 %*		*10/25/19*		*10/25/19 20:28*	
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*		*10/25/19*		*10/25/19 20:28*	

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

Maryland Spectral Services does not maintain certification for the following analytical parameters:

Maryland Spectral Services

Matrix , Method , Analyte	
Water | 8270 (BNA Full List) | Benzidine	Water | 8270 (BNA Full List) | Pyridine

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
10/29/19 16:34

Notes and Definitions

S-FAIL	Surrogate recovery was outside of established QC limits
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-AC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
QC-6	Sample was originally analyzed within hold time. Reanalysis was performed outside of recommended hold time and the reanalysis has been reported.
J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation

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CHAIN-OF-CUSTODY RECORD

Company Name: Greene Environmental Services

Project Manager: Adam Flora/Trev Greene

Project Name: Chamblissburg Supply

Project ID: CSVI1004

Sampler(s): AF, TG, BM, AR

P.O. Number:

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, NAP via 8260	VOCs + oxygenates via 8260	SVOCs via 8270	EDB/DBCP via 8011					Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MW01	10-14-19	1015	X			7	X	X	X								HCL, Ice		9101713-01
MW02	10-14-19	1040	X			7	X	X	X								HCL, Ice		
MW03	10-14-19	1145	X			7	X	X	X								HCL, Ice		
MW04	10-14-19	1145	X			7	X	X	X								HCL, Ice		
MW05	10-14-19	0830	X			7	X	X	X								HCL, Ice		
MW06	10-14-19	0855	X			7	X	X	X								HCL, Ice		
MW07	10-14-19	0930	X			7	X	X	X								HCL, Ice		
MW08	10-14-19	0940	X			7	X	X	X								HCL, Ice		
MW09	10-14-19	0955	X			7	X	X	X								HCL, Ice		
MW10	10-14-19	1125	X			7	X	X	X								HCL, Ice		10

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Adam Flora	10-16-19 0800	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)	10/17/19 15:02	(Printed) Cory Koons			

Turn Around Time:

- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 3.5 °C

- ☑ Received on Ice
- ☐ Received same day
- ☑ Preservation Appropriate

Delivery Method:

- Courier
- Client
- UPS
- FedEx
- USPS
- Other: _____

Special Instructions/QC Requirements & Comments:

Page 1 of 4

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

CHAIN-OF-CUSTODY RECORD

Company Name: Greene Environmental Services

Project Manager: Adam Flora/Trev Greene

Project Name: Chamblissburg Supply

Project ID: CSVI1004

Sampler(s): AF, TG, BM, AR

P.O. Number:

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, NAP via 8260	VOCs + oxygenates via 8260	SVOCs via 8270	EDB/DBCP via 8011				Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MW11	10-14-19	1105	X			7	X	X	X							HCL, Ice		9161713-11
DW01A	10-14-19	1605	X			5				X		X				HCL, Ice		
DW01B	10-14-19	1630	X			5				X		X				HCL, Ice		
DW02A	10-14-19	0916	X			5				X		X				HCL, Ice		
DW02C	10-14-19	0945	X			5				X		X				HCL, Ice		
DW03A	10-14-19	0830	X			5				X		X				HCL, Ice		
DW03C	10-14-19	0815	X			5				X		X				HCL, Ice		
DW04A	10-14-19	1025	X			5				X		X				HCL, Ice		
DW04B	10-14-19	1050	X			5				X		X				HCL, Ice		
DW05A	10-14-19	1440	X			5				X		X				HCL, Ice		20

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Adam Flora	10-16-19 0800	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time 10/17/19 15:02	Received by Lab: (Signature)			
(Printed)		(Printed) Cory Koons			

Delivery Method:
- ☐ Courier
- ☐ Client
- ☐ UPS
- X FedEx
- ☐ USPS
- ☐ Other:_____

Special Instructions/QC Requirements & Comments:

Page 2 of 4

Turn Around Time:
- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:
Temp: 3.5 °C
- ✓ Received on Ice
- ☐ Received same day
- ✓ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

CHAIN-OF-CUSTODY RECORD

Company Name: Greene Environmental Services

Project Manager: Adam Flora/Trev Greene

Project Name: Chamblissburg Supply

Project ID: CSVI1004

Sampler(s): AF, TG, BM, AR

P.O. Number:

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, NAP via 8260	VOCs + oxygenates via 8260	SVOCs via 8270	EDB/DBCP via 8011					Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
DW06B	10-14-19	1400	X			5				X		X					HCL, Ice		9101713-21
DW06C	10-14-19	1350	X			5				X		X					HCL, Ice		
DW07A	10-14-19	1425	X			5				X		X					HCL, Ice		
DW09A	10-14-19	1147	X			5				X		X					HCL, Ice		
DW09B	10-14-19	1145	X			5				X		X					HCL, Ice		
DW10A	10-14-19	1505	X			5				X		X					HCL, Ice		
DW11A	10-14-19	1520	X			5				X		X					HCL, Ice		
DW33A	10-14-19	1410	X			5				X		X					HCL, Ice		
DW33B	10-14-19	1425	X			7				X	X	X					HCL, Ice		
ST01	10-14-19	1540	X			5				X							HCL, Ice		30

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Adam Flora	10-16-19 0800	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time 10/17/19 15:02	Received by Lab: (Signature)			
(Printed)		(Printed) Cory Kearns			

Turn Around Time:

- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 3.5 °C

- ☑ Received on Ice
- ☐ Received same day
- ☑ Preservation Appropriate

Delivery Method:

- ☐ Courier
- ☐ Client
- ☐ UPS
- X FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Page 3 of 4

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

CHAIN-OF-CUSTODY RECORD

Company Name: Greene Environmental Services

Project Manager: Adam Flora/Trev Greene

Project Name: Chamblissburg Supply

Project ID: CSVI1004

Sampler(s): AF, TG, BM, AR

P.O. Number:

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, NAP via 8260	VOCs + oxygenates via 8260	SVOCs via 8270	EDB/DBCP via 8011					Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
POND01	10-14-19	1550	X			5				X							HCL, Ice		9101713-31

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Adam Flora	10-16-19 0800	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time 10/17/19 15:02	Received by Lab: (Signature)			
(Printed)		(Printed) Cory Koons			

Turn Around Time:

- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 3.5 °C

- ☑ Received on Ice
- ☑ Received same day
- ☑ Preservation Appropriate

Delivery Method:

- ☐ Courier
- ☐ Client
- ☐ UPS
- X FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Page 4 of 4

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

13 December 2019

Adam Flora
Greene Environmental Services LLC
570 Redbud Hill Rd
Rocky Mount, VA 24151
RE: CHAMBLISSBURG SUPPLY

Enclosed are the results of analyses for samples received by the laboratory on 12/05/19 10:35.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DW08A		9120504-01	Nonpotable Water	12/03/19 14:45	12/05/19 10:35
DW08B		9120504-02	Nonpotable Water	12/03/19 14:30	12/05/19 10:35

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

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Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08A

9120504-01 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 13:51	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	12/12/19	12/12/19 13:51	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Benzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Bromoform	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Bromomethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 13:51	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	12/12/19	12/12/19 13:51	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 13:51	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Chloroethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 13:51	GM
Chloroform	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Chloromethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 13:51	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM

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Will Brewington, President

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Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08A

9120504-01 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 13:51	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 13:51	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 13:51	GM
Naphthalene	ND		ug/L	2.0	2.0	1	12/12/19	12/12/19 13:51	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Styrene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Toluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM

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Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08A

9120504-01 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
o-Xylene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 13:51	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*105 %*		*12/12/19*	*12/12/19 13:51*		
Surrogate: Toluene-d8			*75-120*	*98 %*		*12/12/19*	*12/12/19 13:51*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*97 %*		*12/12/19*	*12/12/19 13:51*		
EDB AND DBCP BY EPA 8011 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.047	0.047	1	12/11/19	12/11/19 20:00	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	12/11/19	12/11/19 20:00	GM

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Will Brewington, President

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Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08B

9120504-02 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 14:16	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	12/12/19	12/12/19 14:16	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Benzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Bromoform	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Bromomethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 14:16	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	12/12/19	12/12/19 14:16	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 14:16	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Chloroethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 14:16	GM
Chloroform	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Chloromethane	ND		ug/L	5.0	5.0	1	12/12/19	12/12/19 14:16	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08B

9120504-02 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 14:16	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 14:16	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	12/12/19	12/12/19 14:16	GM
Naphthalene	ND		ug/L	2.0	2.0	1	12/12/19	12/12/19 14:16	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Styrene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Toluene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

DW08B

9120504-02 (Nonpotable Water)
Sample Date: 12/03/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
o-Xylene	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	12/12/19	12/12/19 14:16	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*101 %*		*12/12/19*	*12/12/19 14:16*		
Surrogate: Toluene-d8			*75-120*	*98 %*		*12/12/19*	*12/12/19 14:16*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*101 %*		*12/12/19*	*12/12/19 14:16*		
EDB AND DBCP BY EPA 8011 (MICROEXTRACTION/GC/ECD) Prepared by 504.1 EDB/DBCP									
1,2-Dibromo-3-chloropropane	ND		ug/L	0.046	0.046	1	12/11/19	12/11/19 20:28	GM
1,2-Dibromoethane (EDB)	ND		ug/L	0.019	0.019	1	12/11/19	12/11/19 20:28	GM

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Maryland spectral Services

Analytical Chemistry Services

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

Maryland Spectral Services does not maintain certification for the following analytical parameters:

Maryland Spectral Services

Matrix , Method , Analyte	
Water | 8011 (EDB) | 1,2-Dibromo-3-chloropropane	Water | 8011 (EDB) | 1,2-Dibromoethane (EDB)

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Analytical Results

Project: CHAMBLISSBURG SUPPLY

Project Number: CSVI1004
Project Manager: Adam Flora

Reported:
12/13/19 10:43

Notes and Definitions

J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation

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CHAIN-OF-CUSTODY RECORD

Company Name: Greene Environmental Services

Project Manager: Adam Flora/Trev Greene

Project Name: Chamblissburg Supply

Project ID: CSVI1004

Sampler(s): BM

P.O. Number:

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410–247–7600 • Fax 410–247–7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-GRO via 8015	TPH-DRO via 8015	BTEX, MTBE, NAP via 8260	VOCs + oxygenates via 8260	SVOCs via 8270	EDB/DBCP via 8011					Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
DW08A	12/03/19	1445	X			5				X		X					HCL, Ice		9120504-01A-E
DW08B	12/03/19	1430	X			5				X		X					HCL, Ice		9120504-02A-E

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Adam Flora	12-4-19 1330	(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)
(Printed)	12-5-19 10:35	(Printed) Jennifer Weber

Turn Around Time:

- X Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 2.6 °C Sealed

- ☑ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Delivery Method:

- ☐ Courier
- ☐ Client
- ☐ UPS
- X FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

APPENDIX E

Aquifer Characterization

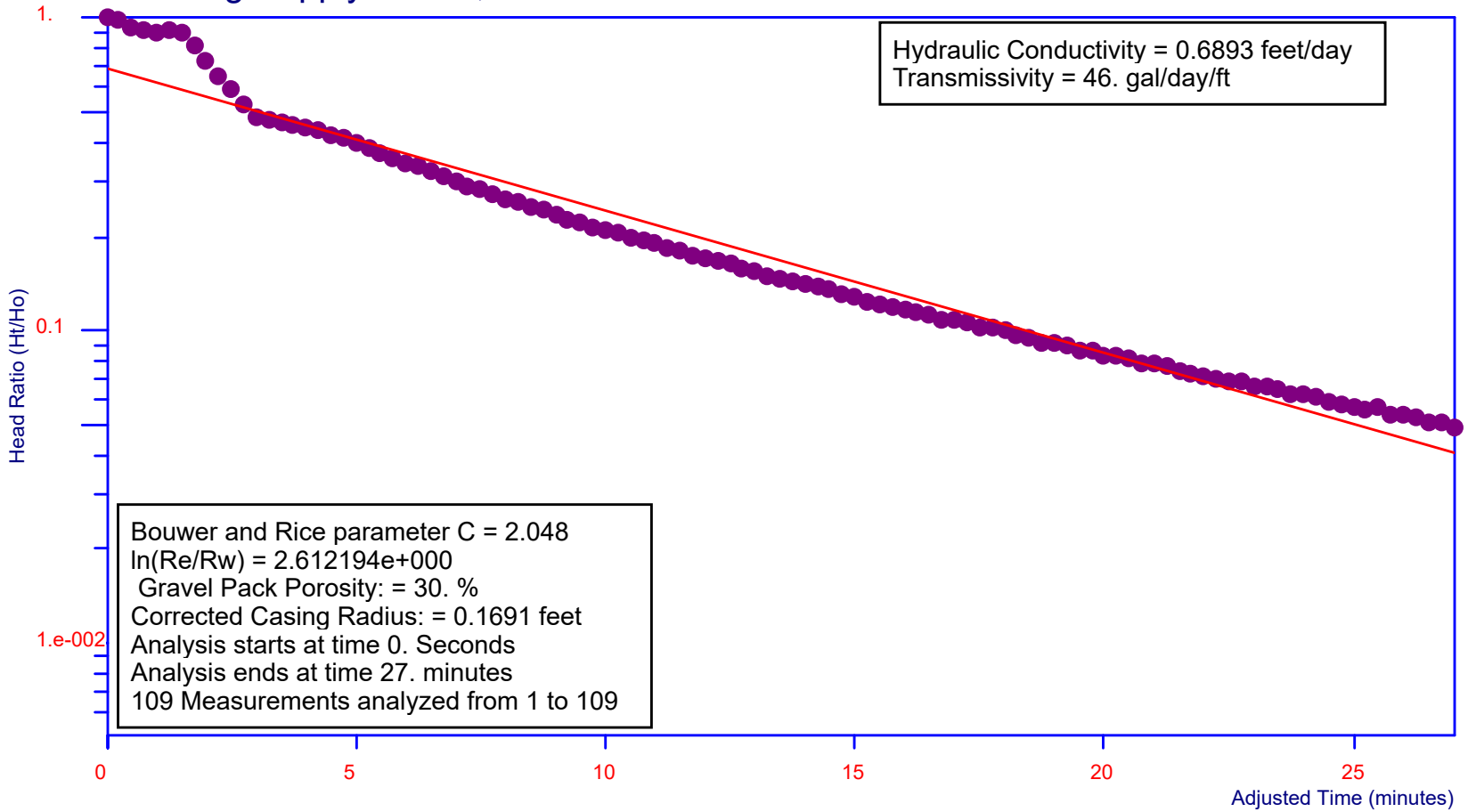
SCR Super Slug™ Pump-Down Test Data & Graphical Representations
SCRA Super Slug™ Pump-Down Test Data & Graphical Representations

Rising Head Slug Test October 10, 2017

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW01



Project Number: CSVI1002 for Estate of Lacy Dudley

Analysis by Starpoint Software

Ho is 6.482 feet at 0. Seconds

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	October 10, 2017
Client:	Estate of Lacy Dudley
Project Number:	CSVI1002
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1002

Well Label:	MW01
Aquifer Thickness:	8.92 feet
Screen Length:	30. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.2813 feet
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	0.1691 feet
Static Water Level:	0. feet
Water Table to Screen Bottom:	8.92 feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 109 time and drawdown measurements
Maximum head is 6.482 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	6.482	6.482	1.
2	15.	15.	6.475	6.475	0.9989
3	30.	30.	6.077	6.077	0.9374
4	45.	45.	5.932	5.932	0.9152
5	60.	60.	5.798	5.798	0.8944
6	75.	75.	6.003	6.003	0.9262
7	90.	90.	5.804	5.804	0.8954
8	105.	105.	5.268	5.268	0.8128
9	120.	120.	4.755	4.755	0.7336
10	135.	135.	4.27	4.27	0.6587
11	150.	150.	3.827	3.827	0.5904
12	165.	165.	3.43	3.43	0.5291
13	180.	180.	3.142	3.142	0.4847
14	195.	195.	3.044	3.044	0.4696
15	210.	210.	2.991	2.991	0.4614
16	225.	225.	2.936	2.936	0.4529
17	240.	240.	2.893	2.893	0.4463
18	255.	255.	2.821	2.821	0.4353
19	270.	270.	2.738	2.738	0.4224
20	285.	285.	2.664	2.664	0.411
21	300.	300.	2.573	2.573	0.3969
22	315.	315.	2.478	2.478	0.3823
23	330.	330.	2.4	2.4	0.3703
24	345.	345.	2.313	2.313	0.3568
25	360.	360.	2.24	2.24	0.3455
26	375.	375.	2.167	2.167	0.3344
27	390.	390.	2.09	2.09	0.3225
28	405.	405.	2.029	2.029	0.3131
29	420.	420.	1.958	1.958	0.302
30	435.	435.	1.894	1.894	0.2922
31	450.	450.	1.828	1.828	0.2821

32	465.	465.	1.77	1.77	0.2731
33	480.	480.	1.721	1.721	0.2655
34	495.	495.	1.661	1.661	0.2562
35	510.	510.	1.615	1.615	0.2491
36	525.	525.	1.572	1.572	0.2426
37	540.	540.	1.524	1.524	0.2352
38	555.	555.	1.478	1.478	0.228
39	570.	570.	1.44	1.44	0.2221
40	585.	585.	1.395	1.395	0.2152
41	600.	600.	1.358	1.358	0.2096
42	615.	615.	1.325	1.325	0.2044
43	630.	630.	1.292	1.292	0.1993
44	645.	645.	1.254	1.254	0.1935
45	660.	660.	1.227	1.227	0.1892
46	675.	675.	1.195	1.195	0.1844
47	690.	690.	1.167	1.167	0.18
48	705.	705.	1.136	1.136	0.1753
49	720.	720.	1.111	1.111	0.1713
50	735.	735.	1.076	1.076	0.166
51	750.	750.	1.056	1.056	0.1629
52	765.	765.	1.028	1.028	0.1585
53	780.	780.	1.002	1.002	0.1546
54	795.	795.	0.9745	0.9745	0.1503
55	810.	810.	0.9459	0.9459	0.1459
56	825.	825.	0.9288	0.9288	0.1433
57	840.	840.	0.9109	0.9109	0.1405
58	855.	855.	0.8898	0.8898	0.1373
59	870.	870.	0.876	0.876	0.1351
60	885.	885.	0.8509	0.8509	0.1313
61	900.	900.	0.8285	0.8285	0.1278
62	915.	915.	0.8063	0.8063	0.1244
63	930.	930.	0.7929	0.7929	0.1223
64	945.	945.	0.7689	0.7689	0.1186
65	960.	960.	0.7514	0.7514	0.1159
66	975.	975.	0.7395	0.7395	0.1141
67	990.	990.	0.7233	0.7233	0.1116
68	1005	1005	0.7044	0.7044	0.1087
69	1020	1020	0.7013	0.7013	0.1082
70	1035	1035	0.6867	0.6867	0.1059
71	1050	1050	0.6655	0.6655	0.1027
72	1065	1065	0.6588	0.6588	0.1016
73	1080	1080	0.6506	0.6506	0.1004
74	1095	1095	0.6292	0.6292	9.707e-002
75	1110	1110	0.6144	0.6144	9.479e-002
76	1125	1125	0.5963	0.5963	9.199e-002
77	1140	1140	0.5929	0.5929	9.147e-002
78	1155	1155	0.5773	0.5773	8.906e-002
79	1170	1170	0.5638	0.5638	8.698e-002
80	1185	1185	0.5566	0.5566	8.587e-002
81	1200	1200	0.5424	0.5424	8.368e-002
82	1215	1215	0.5335	0.5335	8.23e-002
83	1230	1230	0.527	0.527	8.13e-002
84	1245	1245	0.5094	0.5094	7.859e-002
85	1260	1260	0.5066	0.5066	7.815e-002
86	1275	1275	0.4987	0.4987	7.694e-002
87	1290	1290	0.4846	0.4846	7.476e-002
88	1305	1305	0.4734	0.4734	7.303e-002

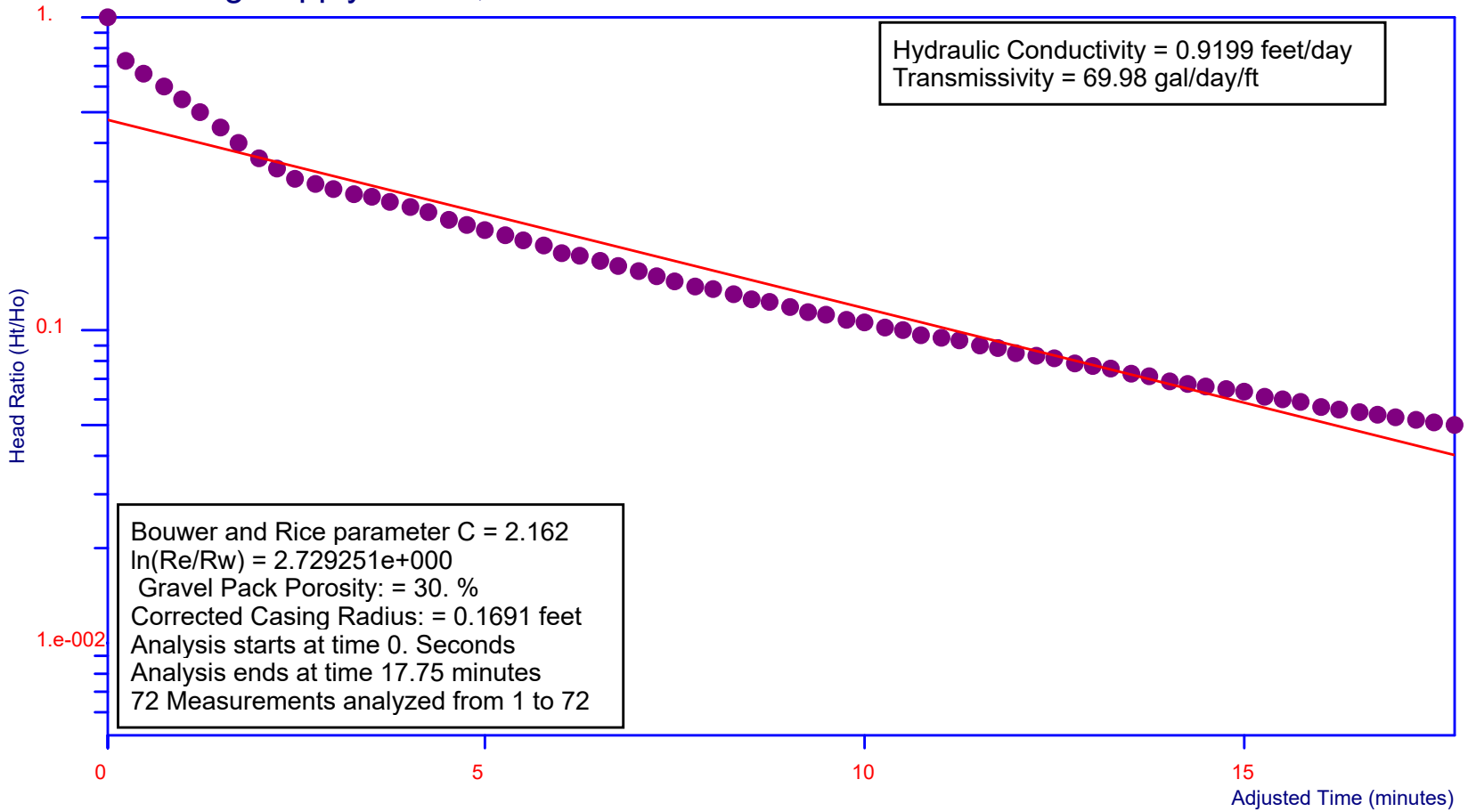
89	1320	1320	0.4591	0.4591	7.083e-002
90	1335	1335	0.4548	0.4548	7.016e-002
91	1350	1350	0.4478	0.4478	6.908e-002
92	1365	1365	0.4416	0.4416	6.813e-002
93	1380	1380	0.4299	0.4299	6.632e-002
94	1395	1395	0.4251	0.4251	6.558e-002
95	1410	1410	0.4227	0.4227	6.521e-002
96	1425	1425	0.409	0.409	6.31e-002
97	1440	1440	0.4055	0.4055	6.256e-002
98	1455	1455	0.3955	0.3955	6.102e-002
99	1470	1470	0.3859	0.3859	5.953e-002
100	1485	1485	0.3769	0.3769	5.815e-002
101	1500	1500	0.371	0.371	5.724e-002
102	1515	1515	0.3624	0.3624	5.591e-002
103	1530	1530	0.3681	0.3681	5.679e-002
104	1545	1545	0.3491	0.3491	5.386e-002
105	1560	1560	0.3467	0.3467	5.349e-002
106	1575	1575	0.3438	0.3438	5.304e-002
107	1590	1590	0.3309	0.3309	5.105e-002
108	1605	1605	0.3281	0.3281	5.062e-002
109	1620	1620	0.317	0.317	4.89e-002

Rising Head Slug Test October 10, 2017

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW11



Project Number: CSVI1002 for Estate of Lacy Dudley

Analysis by Starpoint Software

Ho is 9.391 feet at 0. Seconds

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	October 10, 2017
Client:	Estate of Lacy Dudley
Project Number:	CSVI1002
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1002

Well Label:	MW11
Aquifer Thickness:	10.17 feet
Screen Length:	30. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.2813 feet
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	0.1691 feet
Static Water Level:	0. feet
Water Table to Screen Bottom:	10.17 feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 72 time and drawdown measurements
Maximum head is 9.391 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	9.391	9.391	1.
2	15.	15.	6.882	6.882	0.7328
3	30.	30.	6.289	6.289	0.6697
4	45.	45.	5.728	5.728	0.6099
5	60.	60.	5.194	5.194	0.5531
6	75.	75.	4.689	4.689	0.4993
7	90.	90.	4.216	4.216	0.449
8	105.	105.	3.77	3.77	0.4015
9	120.	120.	3.378	3.378	0.3597
10	135.	135.	3.093	3.093	0.3293
11	150.	150.	2.88	2.88	0.3067
12	165.	165.	2.752	2.752	0.2931
13	180.	180.	2.664	2.664	0.2837
14	195.	195.	2.587	2.587	0.2755
15	210.	210.	2.505	2.505	0.2668
16	225.	225.	2.427	2.427	0.2584
17	240.	240.	2.329	2.329	0.248
18	255.	255.	2.232	2.232	0.2376
19	270.	270.	2.128	2.128	0.2266
20	285.	285.	2.046	2.046	0.2179
21	300.	300.	1.96	1.96	0.2087
22	315.	315.	1.881	1.881	0.2003
23	330.	330.	1.81	1.81	0.1928
24	345.	345.	1.743	1.743	0.1857
25	360.	360.	1.677	1.677	0.1785
26	375.	375.	1.619	1.619	0.1724
27	390.	390.	1.558	1.558	0.1659
28	405.	405.	1.506	1.506	0.1604
29	420.	420.	1.451	1.451	0.1545
30	435.	435.	1.399	1.399	0.149
31	450.	450.	1.353	1.353	0.1441

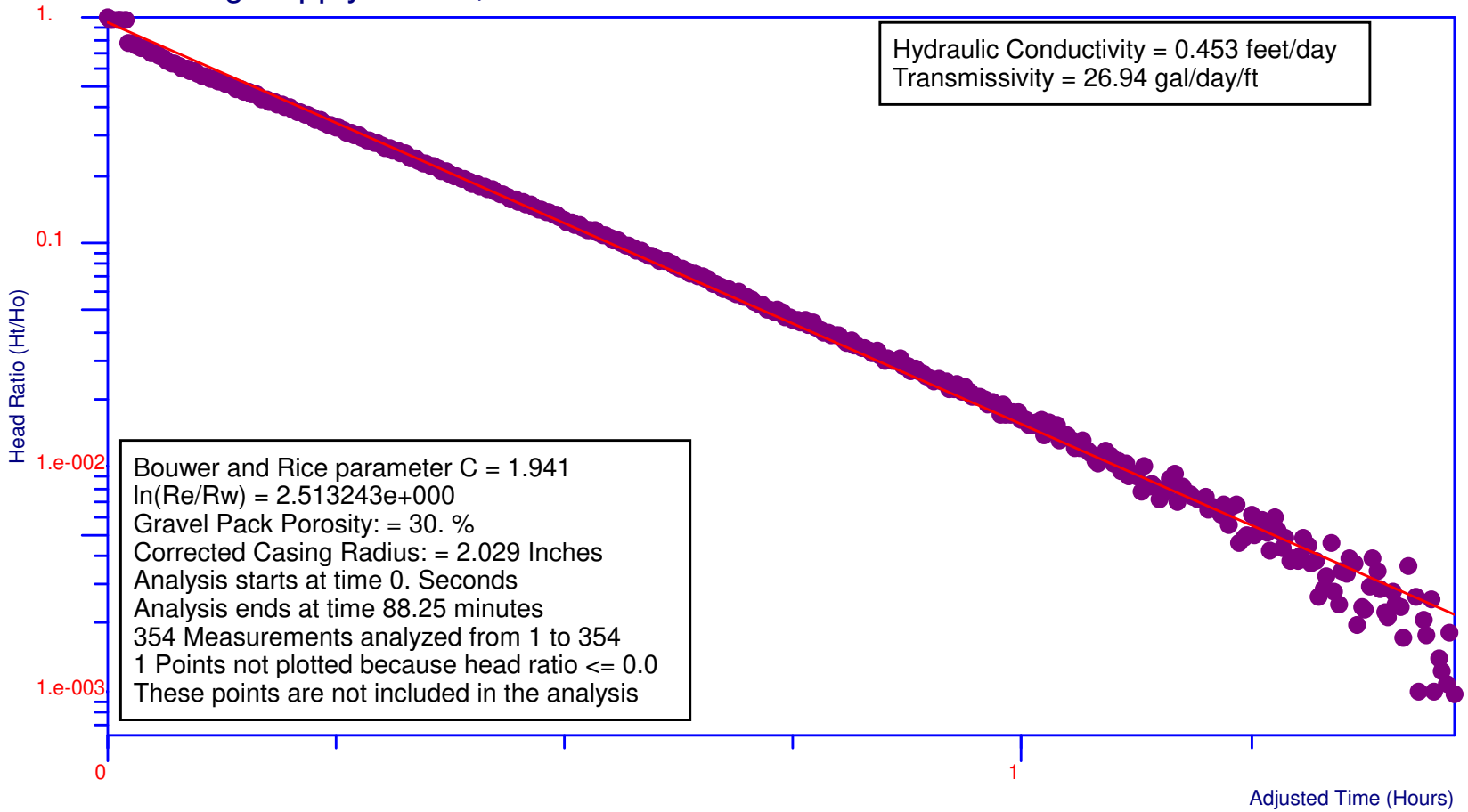
32	465.	465.	1.311	1.311	0.1396
33	480.	480.	1.265	1.265	0.1347
34	495.	495.	1.229	1.229	0.1308
35	510.	510.	1.188	1.188	0.1266
36	525.	525.	1.152	1.152	0.1227
37	540.	540.	1.116	1.116	0.1188
38	555.	555.	1.085	1.085	0.1155
39	570.	570.	1.055	1.055	0.1123
40	585.	585.	1.024	1.024	0.109
41	600.	600.	0.9933	0.9933	0.1058
42	615.	615.	0.9607	0.9607	0.1023
43	630.	630.	0.9416	0.9416	0.1003
44	645.	645.	0.9148	0.9148	9.741e-002
45	660.	660.	0.8957	0.8957	9.537e-002
46	675.	675.	0.8689	0.8689	9.252e-002
47	690.	690.	0.844	0.844	8.987e-002
48	705.	705.	0.8229	0.8229	8.763e-002
49	720.	720.	0.8019	0.8019	8.539e-002
50	735.	735.	0.7808	0.7808	8.315e-002
51	750.	750.	0.7617	0.7617	8.111e-002
52	765.	765.	0.7407	0.7407	7.887e-002
53	780.	780.	0.7196	0.7196	7.663e-002
54	795.	795.	0.7043	0.7043	7.5e-002
55	810.	810.	0.6832	0.6832	7.275e-002
56	825.	825.	0.666	0.666	7.092e-002
57	840.	840.	0.6507	0.6507	6.929e-002
58	855.	855.	0.6354	0.6354	6.766e-002
59	870.	870.	0.6201	0.6201	6.603e-002
60	885.	885.	0.6048	0.6048	6.44e-002
61	900.	900.	0.5933	0.5933	6.318e-002
62	915.	915.	0.578	0.578	6.154e-002
63	930.	930.	0.5627	0.5627	5.991e-002
64	945.	945.	0.5531	0.5531	5.889e-002
65	960.	960.	0.5378	0.5378	5.726e-002
66	975.	975.	0.5263	0.5263	5.604e-002
67	990.	990.	0.5167	0.5167	5.502e-002
68	1005	1005	0.5072	0.5072	5.4e-002
69	1020	1020	0.4957	0.4957	5.278e-002
70	1035	1035	0.4861	0.4861	5.176e-002
71	1050	1050	0.4765	0.4765	5.074e-002
72	1065	1065	0.4651	0.4651	4.952e-002

Rising Head Slug Test August 30, 2018

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW02



Ho is 6.239 feet at 0. Seconds

Project Number: CSVI1003 for Estate of Lacy Dudley

Analysis by Starpoint Software

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	August 30, 2018
Client:	Estate of Lacy Dudley
Project Number:	CSVI1003
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1003

Well Label:	MW02
Aquifer Thickness:	7.95 feet
Screen Length:	30. feet
Casing Radius:	0.9996 Inches
Effective Radius:	3.376 Inches
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	2.029 Inches
Static Water Level:	0. feet
Water Table to Screen Bottom:	7.95 feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 354 time and drawdown measurements
Maximum head is 6.239 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	6.239	6.239	1.
2	15.	15.	6.187	6.187	0.9917
3	30.	30.	6.184	6.184	0.9912
4	45.	45.	6.17	6.17	0.989
5	60.	60.	6.172	6.172	0.9893
6	75.	75.	6.161	6.161	0.9875
7	90.	90.	4.871	4.871	0.7808
8	105.	105.	4.798	4.798	0.7691
9	120.	120.	4.718	4.718	0.7561
10	135.	135.	4.638	4.638	0.7433
11	150.	150.	4.559	4.559	0.7307
12	165.	165.	4.497	4.497	0.7209
13	180.	180.	4.423	4.423	0.7089
14	195.	195.	4.356	4.356	0.6982
15	210.	210.	4.278	4.278	0.6857
16	225.	225.	4.173	4.173	0.6689
17	240.	240.	4.069	4.069	0.6522
18	255.	255.	3.979	3.979	0.6378
19	270.	270.	3.914	3.914	0.6273
20	285.	285.	3.845	3.845	0.6163
21	300.	300.	3.778	3.778	0.6055
22	315.	315.	3.712	3.712	0.5949
23	330.	330.	3.655	3.655	0.5858
24	345.	345.	3.597	3.597	0.5765
25	360.	360.	3.546	3.546	0.5684
26	375.	375.	3.492	3.492	0.5597
27	390.	390.	3.429	3.429	0.5496
28	405.	405.	3.388	3.388	0.543
29	420.	420.	3.336	3.336	0.5347
30	435.	435.	3.287	3.287	0.5268
31	450.	450.	3.24	3.24	0.5193

32	465.	465.	3.192	3.192	0.5117
33	480.	480.	3.145	3.145	0.5041
34	495.	495.	3.097	3.097	0.4963
35	510.	510.	3.056	3.056	0.4899
36	525.	525.	3.011	3.011	0.4825
37	540.	540.	2.963	2.963	0.4749
38	555.	555.	2.913	2.913	0.4668
39	570.	570.	2.876	2.876	0.461
40	585.	585.	2.839	2.839	0.4551
41	600.	600.	2.798	2.798	0.4484
42	615.	615.	2.753	2.753	0.4412
43	630.	630.	2.716	2.716	0.4353
44	645.	645.	2.674	2.674	0.4285
45	660.	660.	2.632	2.632	0.4218
46	675.	675.	2.595	2.595	0.4159
47	690.	690.	2.557	2.557	0.4098
48	705.	705.	2.522	2.522	0.4043
49	720.	720.	2.485	2.485	0.3983
50	735.	735.	2.446	2.446	0.392
51	750.	750.	2.406	2.406	0.3856
52	765.	765.	2.361	2.361	0.3785
53	780.	780.	2.323	2.323	0.3723
54	795.	795.	2.298	2.298	0.3683
55	810.	810.	2.246	2.246	0.3601
56	825.	825.	2.218	2.218	0.3554
57	840.	840.	2.183	2.183	0.3499
58	855.	855.	2.151	2.151	0.3447
59	870.	870.	2.118	2.118	0.3394
60	885.	885.	2.077	2.077	0.3329
61	900.	900.	2.053	2.053	0.329
62	915.	915.	2.016	2.016	0.3231
63	930.	930.	1.99	1.99	0.3189
64	945.	945.	1.952	1.952	0.3129
65	960.	960.	1.917	1.917	0.3073
66	975.	975.	1.885	1.885	0.3021
67	990.	990.	1.867	1.867	0.2992
68	1005	1005	1.832	1.832	0.2936
69	1020	1020	1.804	1.804	0.2892
70	1035	1035	1.78	1.78	0.2852
71	1050	1050	1.748	1.748	0.2802
72	1065	1065	1.722	1.722	0.276
73	1080	1080	1.689	1.689	0.2707
74	1095	1095	1.661	1.661	0.2663
75	1110	1110	1.643	1.643	0.2633
76	1125	1125	1.615	1.615	0.2589
77	1140	1140	1.59	1.59	0.2549
78	1155	1155	1.562	1.562	0.2503
79	1170	1170	1.546	1.546	0.2479
80	1185	1185	1.514	1.514	0.2427
81	1200	1200	1.494	1.494	0.2395
82	1215	1215	1.476	1.476	0.2366
83	1230	1230	1.444	1.444	0.2314
84	1245	1245	1.425	1.425	0.2284
85	1260	1260	1.396	1.396	0.2238
86	1275	1275	1.372	1.372	0.2199
87	1290	1290	1.354	1.354	0.217
88	1305	1305	1.326	1.326	0.2126

89	1320	1320	1.313	1.313	0.2105
90	1335	1335	1.292	1.292	0.2071
91	1350	1350	1.268	1.268	0.2032
92	1365	1365	1.249	1.249	0.2002
93	1380	1380	1.23	1.23	0.1972
94	1395	1395	1.207	1.207	0.1934
95	1410	1410	1.196	1.196	0.1917
96	1425	1425	1.17	1.17	0.1875
97	1440	1440	1.152	1.152	0.1846
98	1455	1455	1.138	1.138	0.1824
99	1470	1470	1.116	1.116	0.1789
100	1485	1485	1.098	1.098	0.176
101	1500	1500	1.081	1.081	0.1733
102	1515	1515	1.07	1.07	0.1715
103	1530	1530	1.052	1.052	0.1686
104	1545	1545	1.031	1.031	0.1652
105	1560	1560	1.014	1.014	0.1625
106	1575	1575	1.002	1.002	0.1605
107	1590	1590	0.9833	0.9833	0.1576
108	1605	1605	0.9643	0.9643	0.1546
109	1620	1620	0.9554	0.9554	0.1531
110	1635	1635	0.941	0.941	0.1508
111	1650	1650	0.9161	0.9161	0.1468
112	1665	1665	0.914	0.914	0.1465
113	1680	1680	0.8908	0.8908	0.1428
114	1695	1695	0.8808	0.8808	0.1412
115	1710	1710	0.8721	0.8721	0.1398
116	1725	1725	0.8581	0.8581	0.1375
117	1740	1740	0.8439	0.8439	0.1353
118	1755	1755	0.8271	0.8271	0.1326
119	1770	1770	0.8219	0.8219	0.1317
120	1785	1785	0.8094	0.8094	0.1297
121	1800	1800	0.7901	0.7901	0.1266
122	1815	1815	0.7778	0.7778	0.1247
123	1830	1830	0.7671	0.7671	0.123
124	1845	1845	0.755	0.755	0.121
125	1860	1860	0.7464	0.7464	0.1196
126	1875	1875	0.7351	0.7351	0.1178
127	1890	1890	0.7172	0.7172	0.115
128	1905	1905	0.7104	0.7104	0.1139
129	1920	1920	0.7061	0.7061	0.1132
130	1935	1935	0.6916	0.6916	0.1109
131	1950	1950	0.6779	0.6779	0.1087
132	1965	1965	0.6662	0.6662	0.1068
133	1980	1980	0.6515	0.6515	0.1044
134	1995	1995	0.6425	0.6425	0.103
135	2010	2010	0.635	0.635	0.1018
136	2025	2025	0.616	0.616	9.874e-002
137	2040	2040	0.6122	0.6122	9.813e-002
138	2055	2055	0.6006	0.6006	9.627e-002
139	2070	2070	0.5882	0.5882	9.428e-002
140	2085	2085	0.5801	0.5801	9.298e-002
141	2100	2100	0.5705	0.5705	9.144e-002
142	2115	2115	0.5594	0.5594	8.966e-002
143	2130	2130	0.5493	0.5493	8.804e-002
144	2145	2145	0.5458	0.5458	8.748e-002
145	2160	2160	0.5293	0.5293	8.484e-002

146	2175	2175	0.5237	0.5237	8.394e-002
147	2190	2190	0.5221	0.5221	8.368e-002
148	2205	2205	0.5121	0.5121	8.208e-002
149	2220	2220	0.5026	0.5026	8.056e-002
150	2235	2235	0.4958	0.4958	7.947e-002
151	2250	2250	0.4815	0.4815	7.718e-002
152	2265	2265	0.4761	0.4761	7.631e-002
153	2280	2280	0.4632	0.4632	7.424e-002
154	2295	2295	0.4567	0.4567	7.32e-002
155	2310	2310	0.4535	0.4535	7.269e-002
156	2325	2325	0.4394	0.4394	7.043e-002
157	2340	2340	0.4408	0.4408	7.065e-002
158	2355	2355	0.4307	0.4307	6.903e-002
159	2370	2370	0.4255	0.4255	6.82e-002
160	2385	2385	0.4118	0.4118	6.601e-002
161	2400	2400	0.4087	0.4087	6.551e-002
162	2415	2415	0.3968	0.3968	6.36e-002
163	2430	2430	0.3919	0.3919	6.282e-002
164	2445	2445	0.3846	0.3846	6.165e-002
165	2460	2460	0.3782	0.3782	6.062e-002
166	2475	2475	0.3703	0.3703	5.935e-002
167	2490	2490	0.3754	0.3754	6.017e-002
168	2505	2505	0.3612	0.3612	5.789e-002
169	2520	2520	0.3532	0.3532	5.661e-002
170	2535	2535	0.3489	0.3489	5.592e-002
171	2550	2550	0.3389	0.3389	5.432e-002
172	2565	2565	0.3344	0.3344	5.36e-002
173	2580	2580	0.3324	0.3324	5.328e-002
174	2595	2595	0.3135	0.3135	5.025e-002
175	2610	2610	0.3137	0.3137	5.028e-002
176	2625	2625	0.3083	0.3083	4.942e-002
177	2640	2640	0.3107	0.3107	4.98e-002
178	2655	2655	0.303	0.303	4.857e-002
179	2670	2670	0.2935	0.2935	4.704e-002
180	2685	2685	0.2925	0.2925	4.688e-002
181	2700	2700	0.2842	0.2842	4.555e-002
182	2715	2715	0.2816	0.2816	4.514e-002
183	2730	2730	0.2765	0.2765	4.432e-002
184	2745	2745	0.2793	0.2793	4.477e-002
185	2760	2760	0.2696	0.2696	4.321e-002
186	2775	2775	0.2739	0.2739	4.39e-002
187	2790	2790	0.2576	0.2576	4.129e-002
188	2805	2805	0.2572	0.2572	4.123e-002
189	2820	2820	0.2455	0.2455	3.935e-002
190	2835	2835	0.25	0.25	4.007e-002
191	2850	2850	0.2407	0.2407	3.858e-002
192	2865	2865	0.2386	0.2386	3.824e-002
193	2880	2880	0.2407	0.2407	3.858e-002
194	2895	2895	0.2293	0.2293	3.675e-002
195	2910	2910	0.2236	0.2236	3.584e-002
196	2925	2925	0.226	0.226	3.622e-002
197	2940	2940	0.216	0.216	3.462e-002
198	2955	2955	0.2197	0.2197	3.521e-002
199	2970	2970	0.2126	0.2126	3.408e-002
200	2985	2985	0.2121	0.2121	3.4e-002
201	3000	3000	0.2076	0.2076	3.328e-002
202	3015	3015	0.1987	0.1987	3.185e-002

203	3030	3030	0.2054	0.2054	3.292e-002
204	3045	3045	0.1943	0.1943	3.114e-002
205	3060	3060	0.1866	0.1866	2.991e-002
206	3075	3075	0.1922	0.1922	3.081e-002
207	3090	3090	0.1846	0.1846	2.959e-002
208	3105	3105	0.1853	0.1853	2.97e-002
209	3120	3120	0.189	0.189	3.029e-002
210	3135	3135	0.1761	0.1761	2.823e-002
211	3150	3150	0.1747	0.1747	2.8e-002
212	3165	3165	0.1668	0.1668	2.674e-002
213	3180	3180	0.1694	0.1694	2.715e-002
214	3195	3195	0.1668	0.1668	2.674e-002
215	3210	3210	0.1632	0.1632	2.616e-002
216	3225	3225	0.1572	0.1572	2.52e-002
217	3240	3240	0.1525	0.1525	2.444e-002
218	3255	3255	0.151	0.151	2.42e-002
219	3270	3270	0.154	0.154	2.468e-002
220	3285	3285	0.1496	0.1496	2.398e-002
221	3300	3300	0.1482	0.1482	2.375e-002
222	3315	3315	0.1391	0.1391	2.23e-002
223	3330	3330	0.1396	0.1396	2.238e-002
224	3345	3345	0.1464	0.1464	2.347e-002
225	3360	3360	0.135	0.135	2.164e-002
226	3375	3375	0.141	0.141	2.26e-002
227	3390	3390	0.1337	0.1337	2.143e-002
228	3405	3405	0.1286	0.1286	2.061e-002
229	3420	3420	0.1268	0.1268	2.032e-002
230	3435	3435	0.1265	0.1265	2.028e-002
231	3450	3450	0.1243	0.1243	1.992e-002
232	3465	3465	0.1183	0.1183	1.896e-002
233	3480	3480	0.1224	0.1224	1.962e-002
234	3495	3495	0.1168	0.1168	1.872e-002
235	3510	3510	0.1076	0.1076	1.725e-002
236	3525	3525	0.1186	0.1186	1.901e-002
237	3540	3540	0.1075	0.1075	1.723e-002
238	3555	3555	0.1051	0.1051	1.685e-002
239	3570	3570	0.1105	0.1105	1.771e-002
240	3585	3585	0.1089	0.1089	1.746e-002
241	3600	3600	0.1012	0.1012	1.622e-002
242	3615	3615	9.97e-002	9.97e-002	1.598e-002
243	3630	3630	9.51e-002	9.51e-002	1.524e-002
244	3645	3645	9.5e-002	9.5e-002	1.523e-002
245	3660	3660	9.72e-002	9.72e-002	1.558e-002
246	3675	3675	0.1014	0.1014	1.625e-002
247	3690	3690	8.69e-002	8.69e-002	1.393e-002
248	3705	3705	9.83e-002	9.83e-002	1.576e-002
249	3720	3720	9.5e-002	9.5e-002	1.523e-002
250	3735	3735	9.51e-002	9.51e-002	1.524e-002
251	3750	3750	8.21e-002	8.21e-002	1.316e-002
252	3765	3765	8.62e-002	8.62e-002	1.382e-002
253	3780	3780	8.61e-002	8.61e-002	1.38e-002
254	3795	3795	8.11e-002	8.11e-002	1.3e-002
255	3810	3810	7.54e-002	7.54e-002	1.209e-002
256	3825	3825	7.58e-002	7.58e-002	1.215e-002
257	3840	3840	8.14e-002	8.14e-002	1.305e-002
258	3855	3855	7.42e-002	7.42e-002	1.189e-002
259	3870	3870	7.21e-002	7.21e-002	1.156e-002

260	3885	3885	6.69e-002	6.69e-002	1.072e-002
261	3900	3900	6.42e-002	6.42e-002	1.029e-002
262	3915	3915	6.72e-002	6.72e-002	1.077e-002
263	3930	3930	7.33e-002	7.33e-002	1.175e-002
264	3945	3945	7.04e-002	7.04e-002	1.128e-002
265	3960	3960	6.42e-002	6.42e-002	1.029e-002
266	3975	3975	6.55e-002	6.55e-002	1.05e-002
267	3990	3990	5.9e-002	5.9e-002	9.457e-003
268	4005	4005	6.49e-002	6.49e-002	1.04e-002
269	4020	4020	5.62e-002	5.62e-002	9.008e-003
270	4035	4035	5.82e-002	5.82e-002	9.329e-003
271	4050	4050	5.62e-002	5.62e-002	9.008e-003
272	4065	4065	4.89e-002	4.89e-002	7.838e-003
273	4080	4080	6.25e-002	6.25e-002	1.002e-002
274	4095	4095	5.14e-002	5.14e-002	8.239e-003
275	4110	4110	5.16e-002	5.16e-002	8.271e-003
276	4125	4125	5.04e-002	5.04e-002	8.078e-003
277	4140	4140	4.51e-002	4.51e-002	7.229e-003
278	4155	4155	4.72e-002	4.72e-002	7.565e-003
279	4170	4170	4.93e-002	4.93e-002	7.902e-003
280	4185	4185	5.44e-002	5.44e-002	8.719e-003
281	4200	4200	5.82e-002	5.82e-002	9.329e-003
282	4215	4215	4.39e-002	4.39e-002	7.036e-003
283	4230	4230	5.04e-002	5.04e-002	8.078e-003
284	4245	4245	4.79e-002	4.79e-002	7.678e-003
285	4260	4260	4.76e-002	4.76e-002	7.63e-003
286	4275	4275	4.62e-002	4.62e-002	7.405e-003
287	4290	4290	4.48e-002	4.48e-002	7.181e-003
288	4305	4305	4.46e-002	4.46e-002	7.149e-003
289	4320	4320	4.54e-002	4.54e-002	7.277e-003
290	4335	4335	4.01e-002	4.01e-002	6.427e-003
291	4350	4350	4.15e-002	4.15e-002	6.652e-003
292	4365	4365	4.01e-002	4.01e-002	6.427e-003
293	4380	4380	3.83e-002	3.83e-002	6.139e-003
294	4395	4395	4.23e-002	4.23e-002	6.78e-003
295	4410	4410	3.46e-002	3.46e-002	5.546e-003
296	4425	4425	4.08e-002	4.08e-002	6.54e-003
297	4440	4440	4.28e-002	4.28e-002	6.86e-003
298	4455	4455	2.82e-002	2.82e-002	4.52e-003
299	4470	4470	2.97e-002	2.97e-002	4.76e-003
300	4485	4485	3.08e-002	3.08e-002	4.937e-003
301	4500	4500	3.76e-002	3.76e-002	6.027e-003
302	4515	4515	3.11e-002	3.11e-002	4.985e-003
303	4530	4530	3.48e-002	3.48e-002	5.578e-003
304	4545	4545	3.65e-002	3.65e-002	5.85e-003
305	4560	4560	3.21e-002	3.21e-002	5.145e-003
306	4575	4575	2.65e-002	2.65e-002	4.248e-003
307	4590	4590	3.68e-002	3.68e-002	5.898e-003
308	4605	4605	3.22e-002	3.22e-002	5.161e-003
309	4620	4620	2.69e-002	2.69e-002	4.312e-003
310	4635	4635	3.04e-002	3.04e-002	4.873e-003
311	4650	4650	2.34e-002	2.34e-002	3.751e-003
312	4665	4665	2.44e-002	2.44e-002	3.911e-003
313	4680	4680	2.37e-002	2.37e-002	3.799e-003
314	4695	4695	2.51e-002	2.51e-002	4.023e-003
315	4710	4710	2.97e-002	2.97e-002	4.76e-003
316	4725	4725	2.75e-002	2.75e-002	4.408e-003

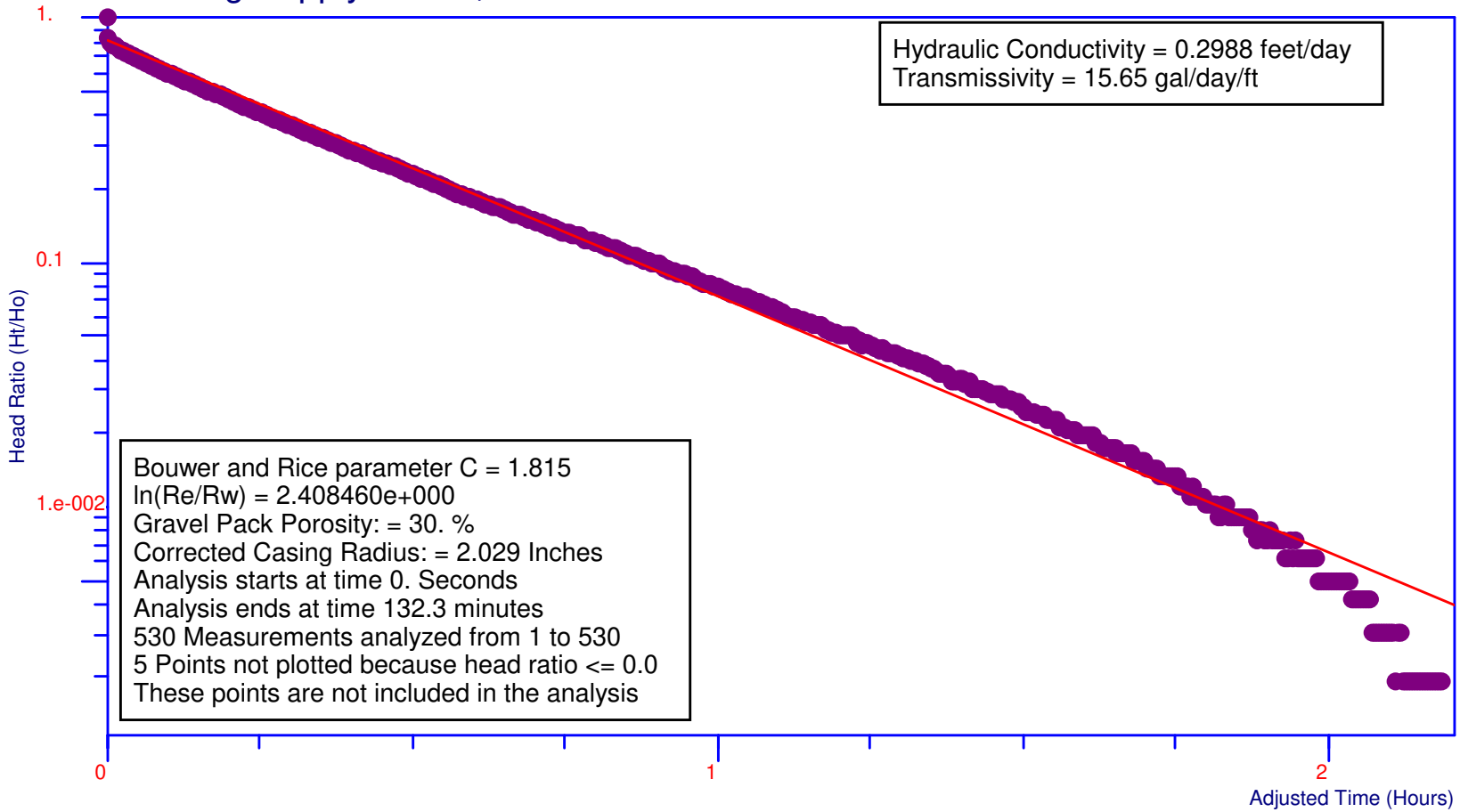
317	4740	4740	2.29e-002	2.29e-002	3.671e-003
318	4755	4755	2.37e-002	2.37e-002	3.799e-003
319	4770	4770	1.62e-002	1.62e-002	2.597e-003
320	4785	4785	1.76e-002	1.76e-002	2.821e-003
321	4800	4800	2.04e-002	2.04e-002	3.27e-003
322	4815	4815	2.87e-002	2.87e-002	4.6e-003
323	4830	4830	1.72e-002	1.72e-002	2.757e-003
324	4845	4845	1.53e-002	1.53e-002	2.452e-003
325	4860	4860	2.14e-002	2.14e-002	3.43e-003
326	4875	4875	2.07e-002	2.07e-002	3.318e-003
327	4890	4890	2.46e-002	2.46e-002	3.943e-003
328	4905	4905	2.32e-002	2.32e-002	3.719e-003
329	4920	4920	1.22e-002	1.22e-002	1.955e-003
330	4935	4935	1.48e-002	1.48e-002	2.372e-003
331	4950	4950	1.44e-002	1.44e-002	2.308e-003
332	4965	4965	1.8e-002	1.8e-002	2.885e-003
333	4980	4980	2.41e-002	2.41e-002	3.863e-003
334	4995	4995	2.11e-002	2.11e-002	3.382e-003
335	5010	5010	1.76e-002	1.76e-002	2.821e-003
336	5025	5025	1.39e-002	1.39e-002	2.228e-003
337	5040	5040	1.34e-002	1.34e-002	2.148e-003
338	5055	5055	1.75e-002	1.75e-002	2.805e-003
339	5070	5070	1.51e-002	1.51e-002	2.42e-003
340	5085	5085	1.48e-002	1.48e-002	2.372e-003
341	5100	5100	1.08e-002	1.08e-002	1.731e-003
342	5115	5115	2.25e-002	2.25e-002	3.606e-003
343	5130	5130	3.9e-003	3.9e-003	6.251e-004
344	5145	5145	1.62e-002	1.62e-002	2.597e-003
345	5160	5160	6.2e-003	6.2e-003	9.938e-004
346	5175	5175	1.29e-002	1.29e-002	2.068e-003
347	5190	5190	1.11e-002	1.11e-002	1.779e-003
348	5205	5205	1.58e-002	1.58e-002	2.532e-003
349	5220	5220	6.2e-003	6.2e-003	9.938e-004
350	5235	5235	8.7e-003	8.7e-003	1.394e-003
351	5250	5250	7.6e-003	7.6e-003	1.218e-003
352	5265	5265	6.7e-003	6.7e-003	1.074e-003
353	5280	5280	1.14e-002	1.14e-002	1.827e-003
354	5295	5295	6.e-003	6.e-003	9.617e-004

Rising Head Slug Test August 30, 2018

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW08



Ho is 5.022 feet at 0. Seconds

Project Number: CSVI1003 for Estate of Lacy Dudley

Analysis by Starpoint Software

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	August 30, 2018
Client:	Estate of Lacy Dudley
Project Number:	CSVI1003
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1003

Well Label:	MW08
Aquifer Thickness:	7. feet
Screen Length:	30. feet
Casing Radius:	0.9996 Inches
Effective Radius:	3.376 Inches
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	2.029 Inches
Static Water Level:	0. feet
Water Table to Screen Bottom:	7. feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 530 time and drawdown measurements
Maximum head is 5.022 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	5.022	5.022	1.
2	15.	15.	4.216	4.216	0.8396
3	30.	30.	4.021	4.021	0.8007
4	45.	45.	3.939	3.939	0.7843
5	60.	60.	3.864	3.864	0.7694
6	75.	75.	3.803	3.803	0.7572
7	90.	90.	3.747	3.747	0.7462
8	105.	105.	3.69	3.69	0.7348
9	120.	120.	3.644	3.644	0.7256
10	135.	135.	3.598	3.598	0.7165
11	150.	150.	3.552	3.552	0.7073
12	165.	165.	3.502	3.502	0.6974
13	180.	180.	3.46	3.46	0.689
14	195.	195.	3.414	3.414	0.6799
15	210.	210.	3.368	3.368	0.6707
16	225.	225.	3.334	3.334	0.6639
17	240.	240.	3.292	3.292	0.6555
18	255.	255.	3.261	3.261	0.6494
19	270.	270.	3.215	3.215	0.6402
20	285.	285.	3.185	3.185	0.6341
21	300.	300.	3.144	3.144	0.6261
22	315.	315.	3.114	3.114	0.62
23	330.	330.	3.083	3.083	0.6139
24	345.	345.	3.043	3.043	0.6059
25	360.	360.	3.016	3.016	0.6006
26	375.	375.	2.982	2.982	0.5938
27	390.	390.	2.955	2.955	0.5884
28	405.	405.	2.924	2.924	0.5823
29	420.	420.	2.899	2.899	0.5774
30	435.	435.	2.869	2.869	0.5713
31	450.	450.	2.838	2.838	0.5652

32	465.	465.	2.802	2.802	0.5579
33	480.	480.	2.783	2.783	0.5541
34	495.	495.	2.752	2.752	0.548
35	510.	510.	2.721	2.721	0.5419
36	525.	525.	2.691	2.691	0.5358
37	540.	540.	2.664	2.664	0.5305
38	555.	555.	2.639	2.639	0.5255
39	570.	570.	2.609	2.609	0.5194
40	585.	585.	2.584	2.584	0.5145
41	600.	600.	2.547	2.547	0.5072
42	615.	615.	2.522	2.522	0.5023
43	630.	630.	2.496	2.496	0.497
44	645.	645.	2.471	2.471	0.492
45	660.	660.	2.45	2.45	0.4878
46	675.	675.	2.431	2.431	0.484
47	690.	690.	2.4	2.4	0.4779
48	705.	705.	2.373	2.373	0.4726
49	720.	720.	2.348	2.348	0.4676
50	735.	735.	2.327	2.327	0.4634
51	750.	750.	2.297	2.297	0.4573
52	765.	765.	2.277	2.277	0.4535
53	780.	780.	2.247	2.247	0.4474
54	795.	795.	2.226	2.226	0.4432
55	810.	810.	2.199	2.199	0.4379
56	825.	825.	2.184	2.184	0.4348
57	840.	840.	2.165	2.165	0.431
58	855.	855.	2.138	2.138	0.4257
59	870.	870.	2.117	2.117	0.4215
60	885.	885.	2.098	2.098	0.4177
61	900.	900.	2.076	2.076	0.4135
62	915.	915.	2.055	2.055	0.4093
63	930.	930.	2.034	2.034	0.4051
64	945.	945.	2.015	2.015	0.4013
65	960.	960.	1.994	1.994	0.3971
66	975.	975.	1.973	1.973	0.3929
67	990.	990.	1.952	1.952	0.3887
68	1005	1005	1.933	1.933	0.3849
69	1020	1020	1.912	1.912	0.3807
70	1035	1035	1.891	1.891	0.3765
71	1050	1050	1.881	1.881	0.3746
72	1065	1065	1.86	1.86	0.3704
73	1080	1080	1.839	1.839	0.3662
74	1095	1095	1.824	1.824	0.3632
75	1110	1110	1.799	1.799	0.3582
76	1125	1125	1.784	1.784	0.3552
77	1140	1140	1.768	1.768	0.3521
78	1155	1155	1.747	1.747	0.3479
79	1170	1170	1.732	1.732	0.3449
80	1185	1185	1.711	1.711	0.3407
81	1200	1200	1.696	1.696	0.3377
82	1215	1215	1.68	1.68	0.3346
83	1230	1230	1.659	1.659	0.3304
84	1245	1245	1.644	1.644	0.3274
85	1260	1260	1.629	1.629	0.3243
86	1275	1275	1.619	1.619	0.3224
87	1290	1290	1.598	1.598	0.3182
88	1305	1305	1.583	1.583	0.3152

89	1320	1320	1.567	1.567	0.3121
90	1335	1335	1.552	1.552	0.3091
91	1350	1350	1.537	1.537	0.306
92	1365	1365	1.521	1.521	0.303
93	1380	1380	1.5	1.5	0.2988
94	1395	1395	1.485	1.485	0.2957
95	1410	1410	1.476	1.476	0.2938
96	1425	1425	1.46	1.46	0.2908
97	1440	1440	1.445	1.445	0.2877
98	1455	1455	1.433	1.433	0.2854
99	1470	1470	1.418	1.418	0.2824
100	1485	1485	1.409	1.409	0.2805
101	1500	1500	1.393	1.393	0.2774
102	1515	1515	1.378	1.378	0.2744
103	1530	1530	1.366	1.366	0.2721
104	1545	1545	1.351	1.351	0.2691
105	1560	1560	1.342	1.342	0.2671
106	1575	1575	1.326	1.326	0.2641
107	1590	1590	1.315	1.315	0.2618
108	1605	1605	1.299	1.299	0.2588
109	1620	1620	1.29	1.29	0.2569
110	1635	1635	1.28	1.28	0.255
111	1650	1650	1.269	1.269	0.2527
112	1665	1665	1.259	1.259	0.2508
113	1680	1680	1.248	1.248	0.2485
114	1695	1695	1.238	1.238	0.2466
115	1710	1710	1.223	1.223	0.2435
116	1725	1725	1.211	1.211	0.2412
117	1740	1740	1.198	1.198	0.2386
118	1755	1755	1.187	1.187	0.2363
119	1770	1770	1.171	1.171	0.2332
120	1785	1785	1.162	1.162	0.2313
121	1800	1800	1.152	1.152	0.2294
122	1815	1815	1.141	1.141	0.2271
123	1830	1830	1.131	1.131	0.2252
124	1845	1845	1.12	1.12	0.2229
125	1860	1860	1.11	1.11	0.221
126	1875	1875	1.1	1.1	0.2191
127	1890	1890	1.085	1.085	0.2161
128	1905	1905	1.074	1.074	0.2138
129	1920	1920	1.064	1.064	0.2119
130	1935	1935	1.053	1.053	0.2096
131	1950	1950	1.043	1.043	0.2077
132	1965	1965	1.033	1.033	0.2058
133	1980	1980	1.028	1.028	0.2047
134	1995	1995	1.018	1.018	0.2027
135	2010	2010	1.003	1.003	0.1997
136	2025	2025	0.9971	0.9971	0.1986
137	2040	2040	0.9875	0.9875	0.1966
138	2055	2055	0.9818	0.9818	0.1955
139	2070	2070	0.9665	0.9665	0.1925
140	2085	2085	0.9607	0.9607	0.1913
141	2100	2100	0.9493	0.9493	0.189
142	2115	2115	0.9454	0.9454	0.1883
143	2130	2130	0.9339	0.9339	0.186
144	2145	2145	0.9301	0.9301	0.1852
145	2160	2160	0.9186	0.9186	0.1829

146	2175	2175	0.9091	0.9091	0.181
147	2190	2190	0.9033	0.9033	0.1799
148	2205	2205	0.8995	0.8995	0.1791
149	2220	2220	0.8842	0.8842	0.1761
150	2235	2235	0.8784	0.8784	0.1749
151	2250	2250	0.8689	0.8689	0.173
152	2265	2265	0.8631	0.8631	0.1719
153	2280	2280	0.8536	0.8536	0.17
154	2295	2295	0.8478	0.8478	0.1688
155	2310	2310	0.8383	0.8383	0.1669
156	2325	2325	0.8383	0.8383	0.1669
157	2340	2340	0.8268	0.8268	0.1646
158	2355	2355	0.8229	0.8229	0.1639
159	2370	2370	0.8172	0.8172	0.1627
160	2385	2385	0.8076	0.8076	0.1608
161	2400	2400	0.7962	0.7962	0.1585
162	2415	2415	0.7923	0.7923	0.1578
163	2430	2430	0.7808	0.7808	0.1555
164	2445	2445	0.7808	0.7808	0.1555
165	2460	2460	0.7713	0.7713	0.1536
166	2475	2475	0.7655	0.7655	0.1524
167	2490	2490	0.7598	0.7598	0.1513
168	2505	2505	0.7502	0.7502	0.1494
169	2520	2520	0.7445	0.7445	0.1482
170	2535	2535	0.7407	0.7407	0.1475
171	2550	2550	0.7292	0.7292	0.1452
172	2565	2565	0.7253	0.7253	0.1444
173	2580	2580	0.7196	0.7196	0.1433
174	2595	2595	0.7139	0.7139	0.1422
175	2610	2610	0.7043	0.7043	0.1402
176	2625	2625	0.7043	0.7043	0.1402
177	2640	2640	0.6928	0.6928	0.138
178	2655	2655	0.689	0.689	0.1372
179	2670	2670	0.6832	0.6832	0.1361
180	2685	2685	0.6737	0.6737	0.1341
181	2700	2700	0.6737	0.6737	0.1341
182	2715	2715	0.6679	0.6679	0.133
183	2730	2730	0.6622	0.6622	0.1319
184	2745	2745	0.6526	0.6526	0.13
185	2760	2760	0.6469	0.6469	0.1288
186	2775	2775	0.6431	0.6431	0.128
187	2790	2790	0.6469	0.6469	0.1288
188	2805	2805	0.6373	0.6373	0.1269
189	2820	2820	0.6258	0.6258	0.1246
190	2835	2835	0.6258	0.6258	0.1246
191	2850	2850	0.6201	0.6201	0.1235
192	2865	2865	0.6162	0.6162	0.1227
193	2880	2880	0.6105	0.6105	0.1216
194	2895	2895	0.6048	0.6048	0.1204
195	2910	2910	0.6009	0.6009	0.1197
196	2925	2925	0.5952	0.5952	0.1185
197	2940	2940	0.5856	0.5856	0.1166
198	2955	2955	0.5799	0.5799	0.1155
199	2970	2970	0.5742	0.5742	0.1143
200	2985	2985	0.5742	0.5742	0.1143
201	3000	3000	0.5703	0.5703	0.1136
202	3015	3015	0.5646	0.5646	0.1124

203	3030	3030	0.5588	0.5588	0.1113
204	3045	3045	0.555	0.555	0.1105
205	3060	3060	0.5493	0.5493	0.1094
206	3075	3075	0.5397	0.5397	0.1075
207	3090	3090	0.5397	0.5397	0.1075
208	3105	3105	0.5301	0.5301	0.1056
209	3120	3120	0.5301	0.5301	0.1056
210	3135	3135	0.5187	0.5187	0.1033
211	3150	3150	0.5187	0.5187	0.1033
212	3165	3165	0.5129	0.5129	0.1021
213	3180	3180	0.5091	0.5091	0.1014
214	3195	3195	0.5091	0.5091	0.1014
215	3210	3210	0.4976	0.4976	9.909e-002
216	3225	3225	0.4976	0.4976	9.909e-002
217	3240	3240	0.4938	0.4938	9.832e-002
218	3255	3255	0.4938	0.4938	9.832e-002
219	3270	3270	0.4823	0.4823	9.604e-002
220	3285	3285	0.4785	0.4785	9.528e-002
221	3300	3300	0.4727	0.4727	9.413e-002
222	3315	3315	0.467	0.467	9.299e-002
223	3330	3330	0.4631	0.4631	9.223e-002
224	3345	3345	0.4631	0.4631	9.223e-002
225	3360	3360	0.4574	0.4574	9.108e-002
226	3375	3375	0.4517	0.4517	8.994e-002
227	3390	3390	0.4517	0.4517	8.994e-002
228	3405	3405	0.4478	0.4478	8.918e-002
229	3420	3420	0.4421	0.4421	8.803e-002
230	3435	3435	0.4364	0.4364	8.689e-002
231	3450	3450	0.4364	0.4364	8.689e-002
232	3465	3465	0.4325	0.4325	8.613e-002
233	3480	3480	0.421	0.421	8.384e-002
234	3495	3495	0.421	0.421	8.384e-002
235	3510	3510	0.4153	0.4153	8.27e-002
236	3525	3525	0.4115	0.4115	8.194e-002
237	3540	3540	0.4057	0.4057	8.079e-002
238	3555	3555	0.4057	0.4057	8.079e-002
239	3570	3570	0.4	0.4	7.965e-002
240	3585	3585	0.4	0.4	7.965e-002
241	3600	3600	0.3962	0.3962	7.889e-002
242	3615	3615	0.3904	0.3904	7.774e-002
243	3630	3630	0.3904	0.3904	7.774e-002
244	3645	3645	0.3847	0.3847	7.66e-002
245	3660	3660	0.3809	0.3809	7.584e-002
246	3675	3675	0.3751	0.3751	7.47e-002
247	3690	3690	0.3694	0.3694	7.355e-002
248	3705	3705	0.3694	0.3694	7.355e-002
249	3720	3720	0.3655	0.3655	7.279e-002
250	3735	3735	0.3655	0.3655	7.279e-002
251	3750	3750	0.3598	0.3598	7.165e-002
252	3765	3765	0.3598	0.3598	7.165e-002
253	3780	3780	0.3541	0.3541	7.05e-002
254	3795	3795	0.3541	0.3541	7.05e-002
255	3810	3810	0.3502	0.3502	6.974e-002
256	3825	3825	0.3445	0.3445	6.86e-002
257	3840	3840	0.3445	0.3445	6.86e-002
258	3855	3855	0.3388	0.3388	6.745e-002
259	3870	3870	0.3388	0.3388	6.745e-002

260	3885	3885	0.333	0.333	6.631e-002
261	3900	3900	0.333	0.333	6.631e-002
262	3915	3915	0.3292	0.3292	6.555e-002
263	3930	3930	0.3234	0.3234	6.441e-002
264	3945	3945	0.3234	0.3234	6.441e-002
265	3960	3960	0.3177	0.3177	6.326e-002
266	3975	3975	0.3139	0.3139	6.25e-002
267	3990	3990	0.3139	0.3139	6.25e-002
268	4005	4005	0.3081	0.3081	6.136e-002
269	4020	4020	0.3024	0.3024	6.021e-002
270	4035	4035	0.3024	0.3024	6.021e-002
271	4050	4050	0.2986	0.2986	5.945e-002
272	4065	4065	0.2986	0.2986	5.945e-002
273	4080	4080	0.2928	0.2928	5.831e-002
274	4095	4095	0.2928	0.2928	5.831e-002
275	4110	4110	0.2928	0.2928	5.831e-002
276	4125	4125	0.2871	0.2871	5.717e-002
277	4140	4140	0.2871	0.2871	5.717e-002
278	4155	4155	0.2833	0.2833	5.64e-002
279	4170	4170	0.2775	0.2775	5.526e-002
280	4185	4185	0.2775	0.2775	5.526e-002
281	4200	4200	0.2775	0.2775	5.526e-002
282	4215	4215	0.2775	0.2775	5.526e-002
283	4230	4230	0.2718	0.2718	5.412e-002
284	4245	4245	0.2679	0.2679	5.335e-002
285	4260	4260	0.2679	0.2679	5.335e-002
286	4275	4275	0.2622	0.2622	5.221e-002
287	4290	4290	0.2622	0.2622	5.221e-002
288	4305	4305	0.2622	0.2622	5.221e-002
289	4320	4320	0.2526	0.2526	5.031e-002
290	4335	4335	0.2526	0.2526	5.031e-002
291	4350	4350	0.2526	0.2526	5.031e-002
292	4365	4365	0.2507	0.2507	4.992e-002
293	4380	4380	0.2507	0.2507	4.992e-002
294	4395	4395	0.2507	0.2507	4.992e-002
295	4410	4410	0.245	0.245	4.878e-002
296	4425	4425	0.2354	0.2354	4.687e-002
297	4440	4440	0.2411	0.2411	4.802e-002
298	4455	4455	0.2316	0.2316	4.611e-002
299	4470	4470	0.2354	0.2354	4.687e-002
300	4485	4485	0.2354	0.2354	4.687e-002
301	4500	4500	0.2297	0.2297	4.573e-002
302	4515	4515	0.2297	0.2297	4.573e-002
303	4530	4530	0.2258	0.2258	4.497e-002
304	4545	4545	0.2258	0.2258	4.497e-002
305	4560	4560	0.2201	0.2201	4.383e-002
306	4575	4575	0.2258	0.2258	4.497e-002
307	4590	4590	0.2201	0.2201	4.383e-002
308	4605	4605	0.2144	0.2144	4.268e-002
309	4620	4620	0.2144	0.2144	4.268e-002
310	4635	4635	0.2144	0.2144	4.268e-002
311	4650	4650	0.2144	0.2144	4.268e-002
312	4665	4665	0.2105	0.2105	4.192e-002
313	4680	4680	0.2105	0.2105	4.192e-002
314	4695	4695	0.2048	0.2048	4.078e-002
315	4710	4710	0.2048	0.2048	4.078e-002
316	4725	4725	0.2048	0.2048	4.078e-002

317	4740	4740	0.199	0.199	3.963e-002
318	4755	4755	0.199	0.199	3.963e-002
319	4770	4770	0.199	0.199	3.963e-002
320	4785	4785	0.1933	0.1933	3.849e-002
321	4800	4800	0.1933	0.1933	3.849e-002
322	4815	4815	0.1933	0.1933	3.849e-002
323	4830	4830	0.1895	0.1895	3.773e-002
324	4845	4845	0.1895	0.1895	3.773e-002
325	4860	4860	0.1837	0.1837	3.659e-002
326	4875	4875	0.1837	0.1837	3.659e-002
327	4890	4890	0.1799	0.1799	3.582e-002
328	4905	4905	0.1742	0.1742	3.468e-002
329	4920	4920	0.178	0.178	3.544e-002
330	4935	4935	0.178	0.178	3.544e-002
331	4950	4950	0.1742	0.1742	3.468e-002
332	4965	4965	0.1703	0.1703	3.392e-002
333	4980	4980	0.1646	0.1646	3.277e-002
334	4995	4995	0.1646	0.1646	3.277e-002
335	5010	5010	0.1646	0.1646	3.277e-002
336	5025	5025	0.1684	0.1684	3.354e-002
337	5040	5040	0.1684	0.1684	3.354e-002
338	5055	5055	0.1588	0.1588	3.163e-002
339	5070	5070	0.1588	0.1588	3.163e-002
340	5085	5085	0.1646	0.1646	3.277e-002
341	5100	5100	0.1531	0.1531	3.049e-002
342	5115	5115	0.1531	0.1531	3.049e-002
343	5130	5130	0.1531	0.1531	3.049e-002
344	5145	5145	0.1531	0.1531	3.049e-002
345	5160	5160	0.1531	0.1531	3.049e-002
346	5175	5175	0.1493	0.1493	2.973e-002
347	5190	5190	0.1493	0.1493	2.973e-002
348	5205	5205	0.1435	0.1435	2.858e-002
349	5220	5220	0.1435	0.1435	2.858e-002
350	5235	5235	0.1435	0.1435	2.858e-002
351	5250	5250	0.1435	0.1435	2.858e-002
352	5265	5265	0.1435	0.1435	2.858e-002
353	5280	5280	0.1378	0.1378	2.744e-002
354	5295	5295	0.1378	0.1378	2.744e-002
355	5310	5310	0.1378	0.1378	2.744e-002
356	5325	5325	0.1378	0.1378	2.744e-002
357	5340	5340	0.134	0.134	2.668e-002
358	5355	5355	0.134	0.134	2.668e-002
359	5370	5370	0.134	0.134	2.668e-002
360	5385	5385	0.1282	0.1282	2.553e-002
361	5400	5400	0.1282	0.1282	2.553e-002
362	5415	5415	0.1225	0.1225	2.439e-002
363	5430	5430	0.1225	0.1225	2.439e-002
364	5445	5445	0.1225	0.1225	2.439e-002
365	5460	5460	0.1225	0.1225	2.439e-002
366	5475	5475	0.1187	0.1187	2.363e-002
367	5490	5490	0.1187	0.1187	2.363e-002
368	5505	5505	0.1187	0.1187	2.363e-002
369	5520	5520	0.1187	0.1187	2.363e-002
370	5535	5535	0.1129	0.1129	2.249e-002
371	5550	5550	0.1129	0.1129	2.249e-002
372	5565	5565	0.1129	0.1129	2.249e-002
373	5580	5580	0.1129	0.1129	2.249e-002

374	5595	5595	0.1129	0.1129	2.249e-002
375	5610	5610	0.1072	0.1072	2.134e-002
376	5625	5625	0.1072	0.1072	2.134e-002
377	5640	5640	0.1072	0.1072	2.134e-002
378	5655	5655	0.1034	0.1034	2.058e-002
379	5670	5670	0.1034	0.1034	2.058e-002
380	5685	5685	0.1034	0.1034	2.058e-002
381	5700	5700	0.1034	0.1034	2.058e-002
382	5715	5715	9.761e-002	9.761e-002	1.944e-002
383	5730	5730	9.761e-002	9.761e-002	1.944e-002
384	5745	5745	9.761e-002	9.761e-002	1.944e-002
385	5760	5760	9.761e-002	9.761e-002	1.944e-002
386	5775	5775	9.761e-002	9.761e-002	1.944e-002
387	5790	5790	9.761e-002	9.761e-002	1.944e-002
388	5805	5805	9.761e-002	9.761e-002	1.944e-002
389	5820	5820	9.187e-002	9.187e-002	1.829e-002
390	5835	5835	9.187e-002	9.187e-002	1.829e-002
391	5850	5850	9.187e-002	9.187e-002	1.829e-002
392	5865	5865	8.804e-002	8.804e-002	1.753e-002
393	5880	5880	8.804e-002	8.804e-002	1.753e-002
394	5895	5895	8.804e-002	8.804e-002	1.753e-002
395	5910	5910	8.804e-002	8.804e-002	1.753e-002
396	5925	5925	8.804e-002	8.804e-002	1.753e-002
397	5940	5940	8.804e-002	8.804e-002	1.753e-002
398	5955	5955	8.23e-002	8.23e-002	1.639e-002
399	5970	5970	8.23e-002	8.23e-002	1.639e-002
400	5985	5985	8.23e-002	8.23e-002	1.639e-002
401	6000	6000	8.23e-002	8.23e-002	1.639e-002
402	6015	6015	8.23e-002	8.23e-002	1.639e-002
403	6030	6030	8.23e-002	8.23e-002	1.639e-002
404	6045	6045	8.23e-002	8.23e-002	1.639e-002
405	6060	6060	7.656e-002	7.656e-002	1.525e-002
406	6075	6075	7.656e-002	7.656e-002	1.525e-002
407	6090	6090	7.656e-002	7.656e-002	1.525e-002
408	6105	6105	7.656e-002	7.656e-002	1.525e-002
409	6120	6120	7.656e-002	7.656e-002	1.525e-002
410	6135	6135	7.273e-002	7.273e-002	1.448e-002
411	6150	6150	7.273e-002	7.273e-002	1.448e-002
412	6165	6165	7.273e-002	7.273e-002	1.448e-002
413	6180	6180	7.273e-002	7.273e-002	1.448e-002
414	6195	6195	7.273e-002	7.273e-002	1.448e-002
415	6210	6210	6.699e-002	6.699e-002	1.334e-002
416	6225	6225	6.699e-002	6.699e-002	1.334e-002
417	6240	6240	6.699e-002	6.699e-002	1.334e-002
418	6255	6255	6.699e-002	6.699e-002	1.334e-002
419	6270	6270	6.699e-002	6.699e-002	1.334e-002
420	6285	6285	6.699e-002	6.699e-002	1.334e-002
421	6300	6300	6.699e-002	6.699e-002	1.334e-002
422	6315	6315	6.699e-002	6.699e-002	1.334e-002
423	6330	6330	6.124e-002	6.124e-002	1.219e-002
424	6345	6345	6.124e-002	6.124e-002	1.219e-002
425	6360	6360	6.124e-002	6.124e-002	1.219e-002
426	6375	6375	6.124e-002	6.124e-002	1.219e-002
427	6390	6390	5.55e-002	5.55e-002	1.105e-002
428	6405	6405	6.124e-002	6.124e-002	1.219e-002
429	6420	6420	5.55e-002	5.55e-002	1.105e-002
430	6435	6435	5.55e-002	5.55e-002	1.105e-002

431	6450	6450	5.55e-002	5.55e-002	1.105e-002
432	6465	6465	5.55e-002	5.55e-002	1.105e-002
433	6480	6480	5.168e-002	5.168e-002	1.029e-002
434	6495	6495	5.168e-002	5.168e-002	1.029e-002
435	6510	6510	5.168e-002	5.168e-002	1.029e-002
436	6525	6525	5.168e-002	5.168e-002	1.029e-002
437	6540	6540	5.168e-002	5.168e-002	1.029e-002
438	6555	6555	4.593e-002	4.593e-002	9.146e-003
439	6570	6570	4.593e-002	4.593e-002	9.146e-003
440	6585	6585	5.168e-002	5.168e-002	1.029e-002
441	6600	6600	5.168e-002	5.168e-002	1.029e-002
442	6615	6615	4.593e-002	4.593e-002	9.146e-003
443	6630	6630	4.593e-002	4.593e-002	9.146e-003
444	6645	6645	4.593e-002	4.593e-002	9.146e-003
445	6660	6660	4.593e-002	4.593e-002	9.146e-003
446	6675	6675	4.593e-002	4.593e-002	9.146e-003
447	6690	6690	4.593e-002	4.593e-002	9.146e-003
448	6705	6705	4.593e-002	4.593e-002	9.146e-003
449	6720	6720	4.593e-002	4.593e-002	9.146e-003
450	6735	6735	4.593e-002	4.593e-002	9.146e-003
451	6750	6750	4.019e-002	4.019e-002	8.003e-003
452	6765	6765	4.019e-002	4.019e-002	8.003e-003
453	6780	6780	3.637e-002	3.637e-002	7.242e-003
454	6795	6795	4.019e-002	4.019e-002	8.003e-003
455	6810	6810	4.019e-002	4.019e-002	8.003e-003
456	6825	6825	3.637e-002	3.637e-002	7.242e-003
457	6840	6840	3.637e-002	3.637e-002	7.242e-003
458	6855	6855	4.019e-002	4.019e-002	8.003e-003
459	6870	6870	3.637e-002	3.637e-002	7.242e-003
460	6885	6885	3.637e-002	3.637e-002	7.242e-003
461	6900	6900	3.637e-002	3.637e-002	7.242e-003
462	6915	6915	3.637e-002	3.637e-002	7.242e-003
463	6930	6930	3.637e-002	3.637e-002	7.242e-003
464	6945	6945	3.062e-002	3.062e-002	6.097e-003
465	6960	6960	3.062e-002	3.062e-002	6.097e-003
466	6975	6975	3.637e-002	3.637e-002	7.242e-003
467	6990	6990	3.062e-002	3.062e-002	6.097e-003
468	7005	7005	3.637e-002	3.637e-002	7.242e-003
469	7020	7020	3.062e-002	3.062e-002	6.097e-003
470	7035	7035	3.062e-002	3.062e-002	6.097e-003
471	7050	7050	3.062e-002	3.062e-002	6.097e-003
472	7065	7065	3.062e-002	3.062e-002	6.097e-003
473	7080	7080	3.062e-002	3.062e-002	6.097e-003
474	7095	7095	3.062e-002	3.062e-002	6.097e-003
475	7110	7110	3.062e-002	3.062e-002	6.097e-003
476	7125	7125	3.062e-002	3.062e-002	6.097e-003
477	7140	7140	2.488e-002	2.488e-002	4.954e-003
478	7155	7155	2.488e-002	2.488e-002	4.954e-003
479	7170	7170	2.488e-002	2.488e-002	4.954e-003
480	7185	7185	2.488e-002	2.488e-002	4.954e-003
481	7200	7200	2.488e-002	2.488e-002	4.954e-003
482	7215	7215	2.488e-002	2.488e-002	4.954e-003
483	7230	7230	2.488e-002	2.488e-002	4.954e-003
484	7245	7245	2.488e-002	2.488e-002	4.954e-003
485	7260	7260	2.488e-002	2.488e-002	4.954e-003
486	7275	7275	2.488e-002	2.488e-002	4.954e-003
487	7290	7290	2.488e-002	2.488e-002	4.954e-003

488	7305	7305	2.488e-002	2.488e-002	4.954e-003
489	7320	7320	2.488e-002	2.488e-002	4.954e-003
490	7335	7335	2.105e-002	2.105e-002	4.192e-003
491	7350	7350	2.105e-002	2.105e-002	4.192e-003
492	7365	7365	2.105e-002	2.105e-002	4.192e-003
493	7380	7380	2.105e-002	2.105e-002	4.192e-003
494	7395	7395	2.105e-002	2.105e-002	4.192e-003
495	7410	7410	2.105e-002	2.105e-002	4.192e-003
496	7425	7425	2.105e-002	2.105e-002	4.192e-003
497	7440	7440	2.105e-002	2.105e-002	4.192e-003
498	7455	7455	1.531e-002	1.531e-002	3.049e-003
499	7470	7470	1.531e-002	1.531e-002	3.049e-003
500	7485	7485	1.531e-002	1.531e-002	3.049e-003
501	7500	7500	1.531e-002	1.531e-002	3.049e-003
502	7515	7515	1.531e-002	1.531e-002	3.049e-003
503	7530	7530	1.531e-002	1.531e-002	3.049e-003
504	7545	7545	1.531e-002	1.531e-002	3.049e-003
505	7560	7560	1.531e-002	1.531e-002	3.049e-003
506	7575	7575	1.531e-002	1.531e-002	3.049e-003
507	7590	7590	9.57e-003	9.57e-003	1.906e-003
508	7605	7605	1.531e-002	1.531e-002	3.049e-003
509	7620	7620	1.531e-002	1.531e-002	3.049e-003
510	7635	7635	9.57e-003	9.57e-003	1.906e-003
511	7650	7650	9.57e-003	9.57e-003	1.906e-003
512	7665	7665	9.57e-003	9.57e-003	1.906e-003
513	7680	7680	9.57e-003	9.57e-003	1.906e-003
514	7695	7695	9.57e-003	9.57e-003	1.906e-003
515	7710	7710	9.57e-003	9.57e-003	1.906e-003
516	7725	7725	9.57e-003	9.57e-003	1.906e-003
517	7740	7740	9.57e-003	9.57e-003	1.906e-003
518	7755	7755	9.57e-003	9.57e-003	1.906e-003
519	7770	7770	9.57e-003	9.57e-003	1.906e-003
520	7785	7785	9.57e-003	9.57e-003	1.906e-003
521	7800	7800	9.57e-003	9.57e-003	1.906e-003
522	7815	7815	9.57e-003	9.57e-003	1.906e-003
523	7830	7830	9.57e-003	9.57e-003	1.906e-003
524	7845	7845	9.57e-003	9.57e-003	1.906e-003
525	7860	7860	9.57e-003	9.57e-003	1.906e-003
526	7875	7875	5.74e-003	5.74e-003	1.143e-003
527	7890	7890	5.74e-003	5.74e-003	1.143e-003
528	7905	7905	5.74e-003	5.74e-003	1.143e-003
529	7920	7920	5.74e-003	5.74e-003	1.143e-003
530	7935	7935	0.	0.	0.

APPENDIX F

Associated Documents

Tank Tightness Test Report Dated June 28, 2017 – Environmental Solutions
Tank Tightness Test Report Dated October 17, 2017 – Environmental Solutions
AFVR Vacuum Truck Bill of Lading – W.E.L., Inc.
AFVR Vacuum Truck Material Manifest – R.E.M. Specialties, LLC
Site Access Agreement – Elei Safar

EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	1
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Super		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**1**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Super**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

36.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.936**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.936**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.936**	+/-PSI (5)
Always add .5 PSI			+	**1.436**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.500**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**9:00 AM**	
Test Pressure Reached:	**9:15 AM**	**1.500**
Blower Turned Off:	**9:30 AM**	**1.500**
Test Began:	**9:45 AM**	**1.500**
Test Ended:	**10:00 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

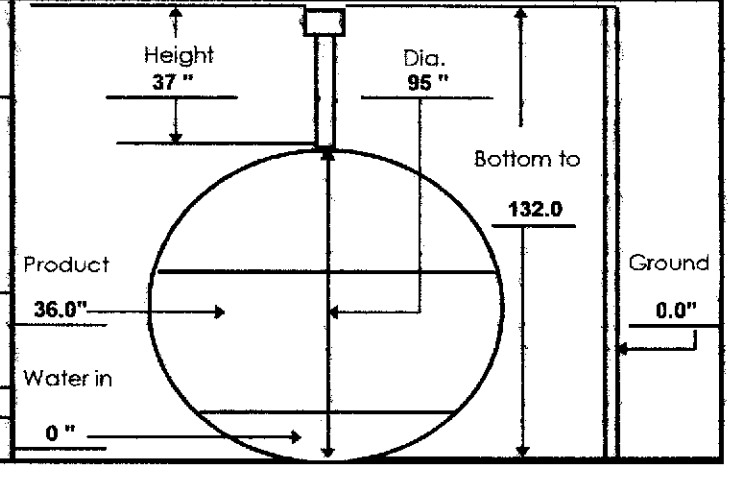
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	2
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 2		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**2**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 2**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

36.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.936**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.936**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.936**	+/-PSI (5)
Always add .5 PSI NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI			+	**1.436**	PSI (6)
TEST PRESSURE			=	**1.500**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**9:00 AM**	
Test Pressure Reached:	**9:15 AM**	**1.500**
Blower Turned Off:	**9:30 AM**	**1.500**
Test Began:	**9:45 AM**	**1.500**
Test Ended:	**10:00 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

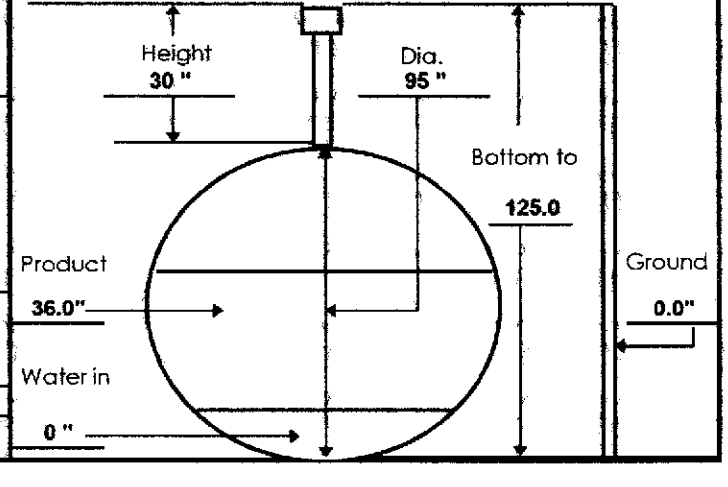
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	6000 Gallons	TANK #	3
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 1		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	Wednesday, June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallon	TANK #	3
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 1		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

40.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	1.040	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	1.040	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	1.040	+/-PSI (5)
Always add .5 PSI			+	1.540	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.600	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	10:15 AM	
Test Pressure Reached:	10:30 AM	1.600
Blower Turned Off:	10:45 AM	1.600
Test Began:	11:00 AM	1.600
Test Ended:	11:15 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

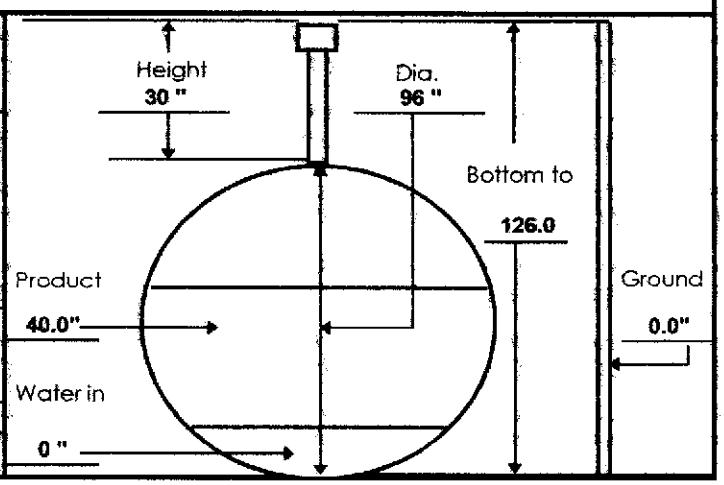
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	4000 Gallons	TANK #	4
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Plus		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

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Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**4000 Gallon**	TANK #	**4**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Plus**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

33.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.858**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.858**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.858**	+/-PSI (5)
Always add .5 PSI			+	**1.358**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.400**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**10:15 AM**	
Test Pressure Reached:	**10:30 AM**	**1.400**
Blower Turned Off:	**10:45 AM**	**1.400**
Test Began:	**11:00 AM**	**1.400**
Test Ended:	**11:15 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

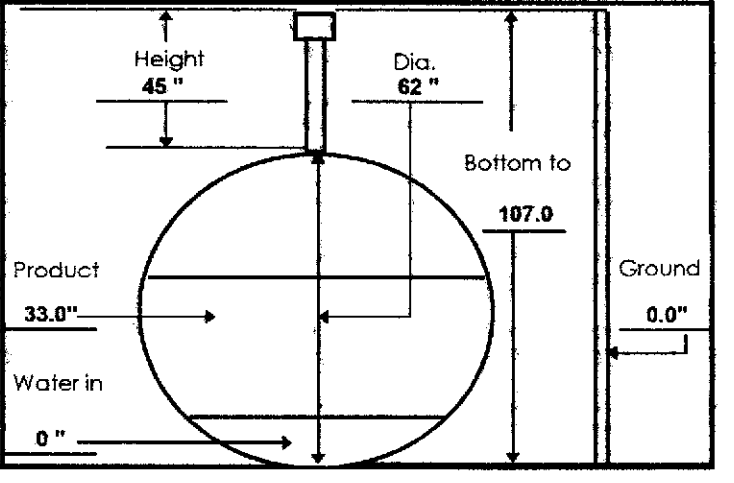
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	5
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Diesel		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**1000 Gallon**	TANK #	**5**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Diesel**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

10.0 (INCHES OF PRODUCT)	X	**0.031** (WEIGHT OF PRODUCT)	=	**0.310**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.310**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.310**	+/-PSI (5)
Always add .5 PSI			+	**0.810**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**0.850**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**12:00 PM**	
Test Pressure Reached:	**12:10 PM**	**0.850**
Blower Turned Off:	**12:20 PM**	**0.850**
Test Began:	**12:30 PM**	**0.850**
Test Ended:	**12:40 PM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

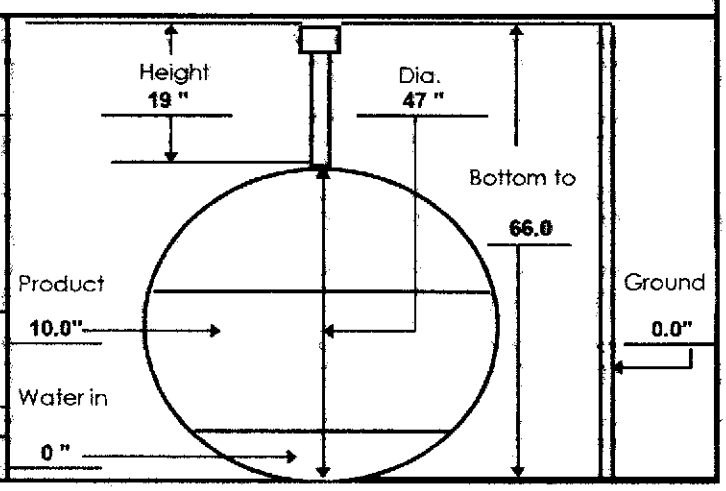
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	Wednesday, June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

21.0 (INCHES OF PRODUCT)	X	0.029 (WEIGHT OF PRODUCT)	=	0.609	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.609	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.609	+/-PSI (5)
Always add .5 PSI			+	1.109	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.150	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	12:00 PM	
Test Pressure Reached:	12:10 PM	1.150
Blower Turned Off:	12:20 PM	1.150
Test Began:	12:30 PM	1.150
Test Ended:	12:40 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

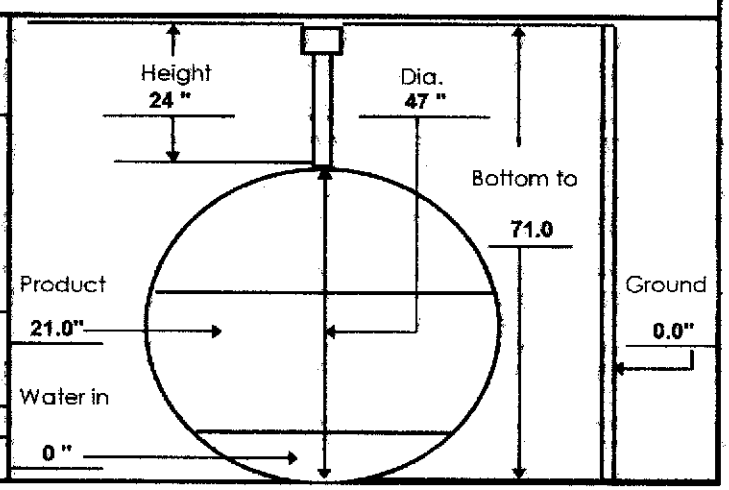
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

October 17, 2017

Greene Environmental
570 Redbud Hill Road
Rocky Mount, VA 24151

Testing Location:
Chamblissburg Supply and Grocery
10625 Stewartsville Road
Vinton, VA 24179

RE: UST/Line Tightness Testing Helium Test

Initial Testing Summary

As requested by Greene Environmental (Greene), Environmental Solutions (ES), has performed tightness testing of the six (6) underground storage tanks (USTs) and associated distribution systems located at the above referenced facility. On, June 28, 2017, ES personnel visited the property to perform precision testing (vacuum type) via the Estabrook™ Tank Testing System.

The procedure for testing using the Estabrook ™ system is:

1. Determine the amount of negative pressure/vacuum needed to perform test. This is based on the height of the fuel, head pressure, and internal pressure created by the water table.
2. Completely seal off all tank openings and establish the earlier calculated negative pressure.
3. After vacuum is established, ES analyzes the sounds from the tanks for five (5) minutes to determine if there is any leakage. While evaluating the acoustic signals we monitor our pressure sensor for vacuum loss.

The tanks held vacuum and no evidence of leaking was indicated based on the acoustic evaluation. The product lines were not tested during this event due to the design of European style suction systems and the inability to easily remove the check valve beneath the product dispensers. The lack of communication between the tanks and their respective

product lines for the purposes of tightness testing was confirmed by cracking open a union fitting beneath each product dispenser/pump. ES advised Greene that a different method of testing would be necessary for product line testing.

Pressure/Helium Testing Summary

Later Greene requested volumetric pressure testing with helium. As a result, ES recommended and initiated a precision test using the Estabrook ™ Tank Testing System and a helium test using the MGD-2002™ Helium Detector on all tanks and piping at the above referenced location on September 22, 26, and 27, 2017.

The procedure for Helium testing European style suction piping is as follows:

1. Seal off all tank openings.
2. Remove union check valve at pump and confirm complete drain back of fuel in line.
3. Retrofit piping to allow for introduction of helium.
4. Drill monitor holes along piping run for helium sampling.
5. Establish helium pressure to begin testing. Approximately 50 pounds per square inch (psi).

After removing the union check valves beneath the dispenser/pumps and installing the testing equipment, helium was introduced to the product lines to begin testing. Product and positive pressure were immediately observed entering the tanks thus establishing communication between the tanks and lines.

As isolation of the tanks and lines was not possible without system modifications, it was decided that the tanks and lines would be tested simultaneously. The inclusion of the tanks during pressure/helium testing limited the testing pressures to approximately 2.0 psi, which in turn resulted in lower than typical helium concentration levels during leak confirmation and locating.

An array of monitoring holes was installed every two feet along the common piping run and in an approximately four to six-foot grid pattern over tank basin. This array was used to locate any leakage from each tank/line system. Once 2.0 psi was obtained, each tank was monitored for pressure loss and sampling began.

Below are the results for each tank system:

1. Super piping/tank had a steady loss in pressure and helium was detected along the piping run. Store side of fuel island. Location of detection was marked. Estabrook™ acoustic evaluation shows tank to be tight.
2. Regular piping/tanks had minimal pressure loss and only trace amounts of helium were detected. Helium detection was along piping run on store side of fuel island. Estabrook™ acoustic evaluation shows tank to be tight.
   Disclosure: Since only trace amounts of helium was detected, it is possible the helium detected during sampling of Regular piping/tanks was from the Super piping. Both piping runs together in same backfill. Also, the minimal pressure loss on the Regular tanks could have been a result of the larger ullage area (dry space) since the two regular tanks were manifolded together.
3. Plus piping/tank. The Plus product piping used a different type of check valve (inline) with an attached flex line which was unable to be removed due to its being underground. For the product line to be tested, a petroleum service contractor would need to dig down and remove the inline check valve. Once removed, line/tank testing could be performed. We performed the helium test of the tank only through the fill riser at the tank. No pressure loss or helium detected. Estabrook™ acoustic evaluation shows tank to be tight.
4. In Road Diesel piping/tank. No pressure loss or helium detected. Estabrook™ acoustic evaluation shows tank system to be tight.
5. Off Road Diesel piping/tank. No pressure loss. No helium detected. Estabrook™ acoustic evaluation shows tank system to be tight.

Once all testing was completed we discussed our findings with the store operator and agreed to place out of order bags on the Super product.

Environmental Solutions appreciates the opportunity to provide these services to you. If you have any questions, please feel free to contact us at (540) 312-8467.

Sincerely,

Rick Trogdon

Rick Trogdon

EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallons**	TANK #	**1**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Super**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ **WATER INTRUSION** _____ **NOT APPLICABLE** X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

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Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	**Friday, September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**1**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Super**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

24.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.624**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.624**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.624**	+/-PSI (5)
Always add .5 PSI			+	**1.124**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.150**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**8:15 AM**	
Test Pressure Reached:	**8:30 AM**	**1.150**
Blower Turned Off:	**8:45 AM**	**1.150**
Test Began:	**9:00 AM**	**1.150**
Test Ended:	**9:15 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

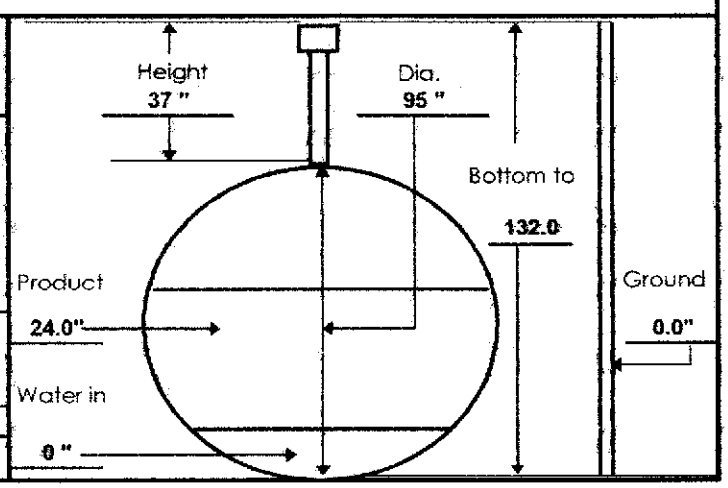
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallons**	TANK #	**2**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 2**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

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Cloverdale, Virginia 24077
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Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Friday, September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallon	TANK #	2
PRODUCT VOL.		LOCATION	Chambliss burg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 2		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

16.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	0.416	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.416	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.416	+/-PSI (5)
Always add .5 PSI			+	0.916	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.000	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	9:30 AM	
Test Pressure Reached:	9:45 AM	1.000
Blower Turned Off:	10:00 AM	1.000
Test Began:	10:15 AM	1.000
Test Ended:	10:30 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

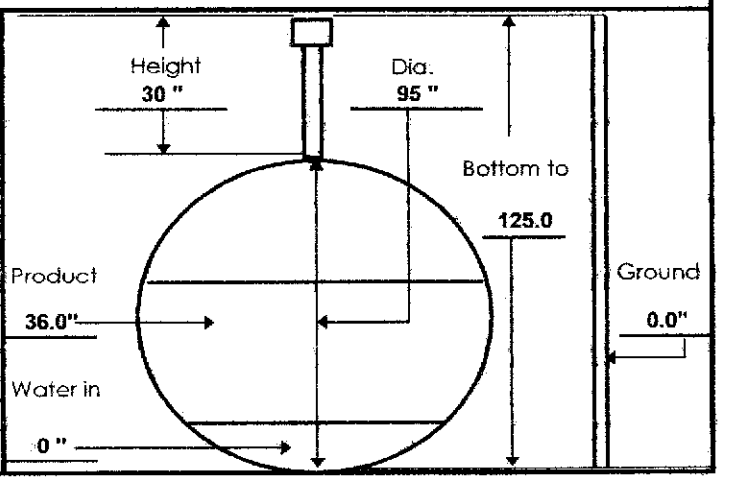
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**6000 Gallons**	TANK #	**3**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 1**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ **WATER INTRUSION** _____ **NOT APPLICABLE** X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

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Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	**Friday, September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**3**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 1**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

15.5 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.403**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.403**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.403**	+/-PSI (5)
Always add .5 PSI			+	**0.903**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.000**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**12:00 PM**	
Test Pressure Reached:	**12:15 PM**	**1.000**
Blower Turned Off:	**12:30 PM**	**1.000**
Test Began:	**12:45 PM**	**1.000**
Test Ended:	**1:00 PM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

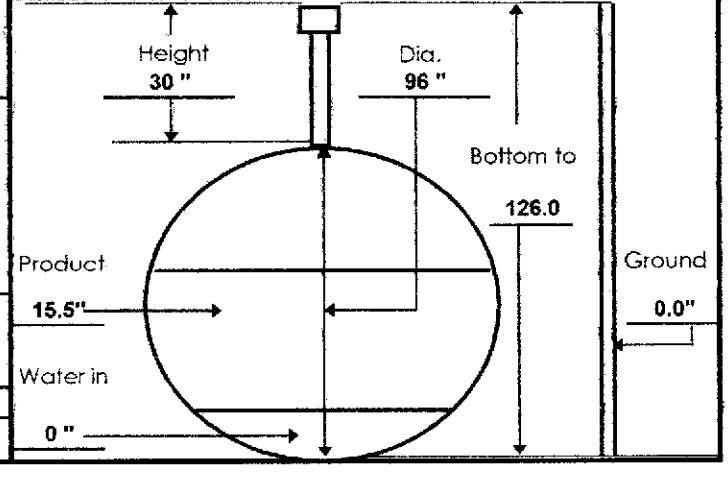
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**4000 Gallons**	TANK #	**4**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Plus**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

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EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Friday, September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	4000 Gallon	TANK #	4
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Plus		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

21.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	0.546	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.546	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.546	+/-PSI (5)
Always add .5 PSI			+	1.046	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.100	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	1:30 PM	
Test Pressure Reached:	1:45 PM	1.100
Blower Turned Off:	2:00 PM	1.100
Test Began:	2:15 PM	1.100
Test Ended:	2:30 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

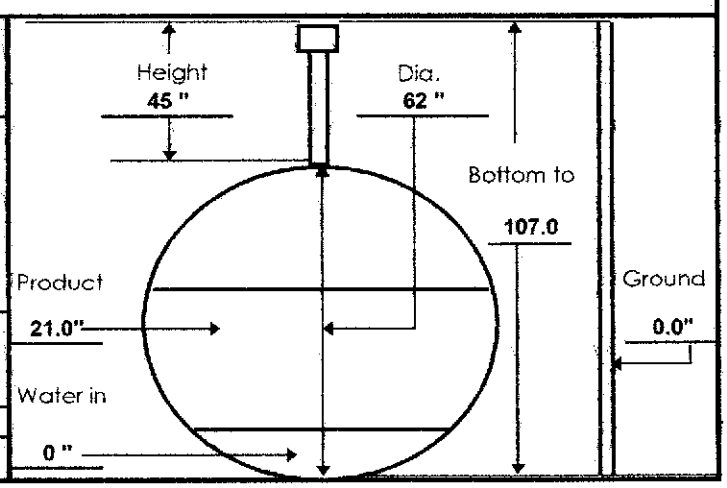
Average: _____

Calculation for Test Period:

_____ ÷ 3780 = _____, .05 x 60 = _____

Ave. Cal. "A" Factor Time of Test

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 26, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**1000 Gallons**	TANK #	**5**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Diesel**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	Tuesday, September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	5
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Diesel		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

27.0 (INCHES OF PRODUCT)	X	0.031 (WEIGHT OF PRODUCT)	=	0.837	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.837	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.837	+/-PSI (5)
Always add .5 PSI			+	1.337	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.400	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	10:00 AM	
Test Pressure Reached:	10:15 AM	1.400
Blower Turned Off:	10:30 AM	1.400
Test Began:	10:45 AM	1.400
Test Ended:	11:00 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

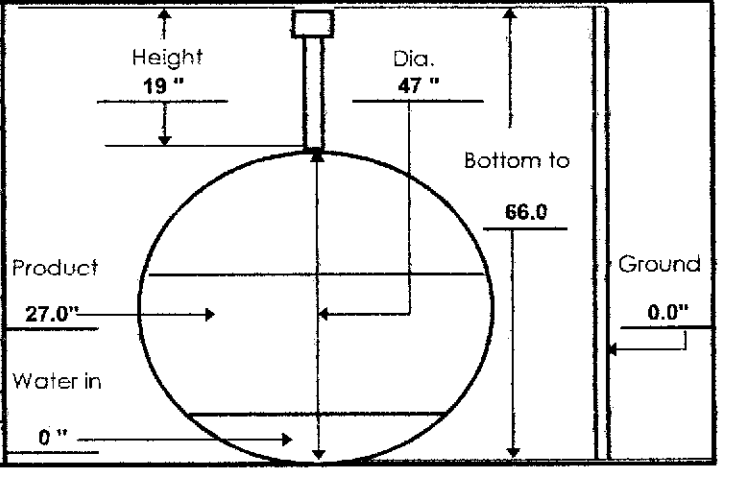
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**September 26, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**1000 Gallons**	TANK #	**6**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Kerosene**		**Vinton, VA 24179**

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Tuesday, September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

20.0 (INCHES OF PRODUCT)	X	0.029 (WEIGHT OF PRODUCT)	=	0.580	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.580	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.580	+/-PSI (5)
Always add .5 PSI			+	1.080	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.100	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	11:40 AM	
Test Pressure Reached:	11:55 AM	1.210
Blower Turned Off:	12:10 PM	1.100
Test Began:	12:25 PM	1.100
Test Ended:	12:40 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

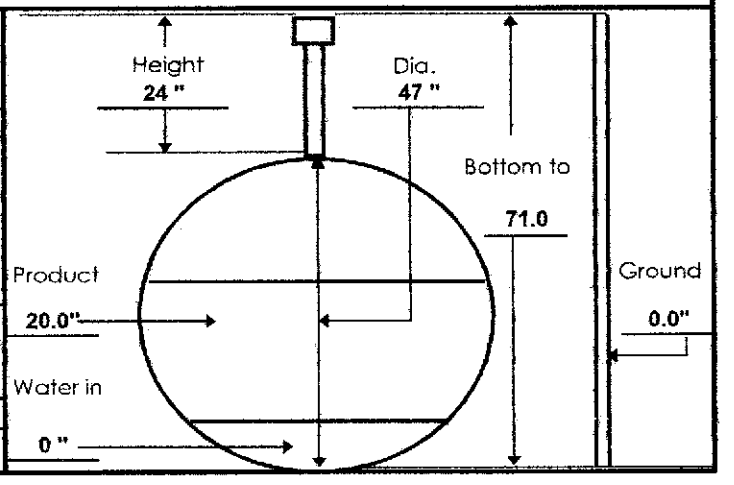
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



View of the helium being introduced into the plus line (attempted).

View of the flex piping on the plus line. The check valve is believed to be located at the other end of the flex line (buried).

View of helium being introduced into the super line.

View of the believed area of the line leak as indicated by helium testing. This location is directly in front of the super dispenser.

W.E.L., Inc.

BILL OF LADING / SHIPPING MANIFEST

P.O. BOX 109
CONCORD, VA 24538
434-993-2210 / FAX: 434-993-2287
EMERGENCY CONTACT: 800-847-2455

DOCUMENT NO. VAC20219R

SHIPPER INFORMATION:

BUSINESS / CLIENT NAME: Elias Garcia C/o Greene Environmental Services

MAILING ADDRESS: 570 Rockbridge Hill Rd Rocky Mount, Va 24111

SHIPMENT ORIGIN: 10625 Stewartsville Road Vinton Va

AUTHORIZED AGENT: Adam Flora TELEPHONE NO. (540) 483-3371

HM	Hazard Class, Proper Shipping Name, ID Number, Packing Group	Containers No.	Containers Type	Total Quantity	Unit Wt/Vol
X	UN1203, Gasoline, 3, PG II				Gallons
X	NA1993, Fuel Oil, 3, PG III				Gallons
X	UN1993, Flammable Liquid, n.o.s., (Gasoline, Water), 3, PG II	01	TT	197	Gallons
X	NA1993, Combustible Liquid, n.o.s., (Fuel Oil, Water), PG III				Gallons
	Used Oil				Gallons
	Petroleum Contact Water				Gallons
	Petroleum Impacted Absorbent Materials				
	Petroleum Impacted Soils				

Container Types - Tank Truck/Tank Trailer (TT), Dump Truck (DT), Drums (DM), Roll-Off Container (RO), Intermediate Bulk Container (IBC)

TYPE OF PROCESS GENERATING MATERIAL: Pumping Machinery Wells

SPECIAL HANDLING INSTRUCTIONS / ADDITIONAL INFO: BRL #128

The materials described above were consigned to the transporter designated below. I certify the foregoing is true to the best of my knowledge.

Signature of Authorized Agent — *Date* 8-12-19

TRANSPORTER INFORMATION:

NAME AND ADDRESS: W.E.L., INC. – P.O. Box 109, CONCORD, VA 24538

TELEPHONE NO: 800-847-2455 USDOT HAZMAT REGISTRATION: 061516 552 092YA TRUCK / TRAILER NO. 721

I certify that the materials in quantity described above were received by me for shipment.

Signature of Transporter — *Date* 8/12/19

DESIGNATED FACILITY:

NAME AND ADDRESS: W.E.L. INC. 801 Liberty Rd Roanoke, Va 24012

TELEPHONE NO. (540) 561-0735 PERMIT NO.

TOTAL QUANTITY MEASURED AT DELIVERY: 197 gallons

I certify that the materials described above were received by me. I further certify that this facility has all applicable permits, and approval for handling this material.

Signature of Authorized Agent — *Date* 8/12/19

MATERIAL MANIFEST

R.E.M. Specialties, LLC

P.O. BOX 347
HARDY, VA 24101
TEL. (540) 874-5659

Manifest Document No.	4169
Page	1 of 1
R.E.M. Job No.	

EMERGENCY PHONE NO.
CHEMTEL 1-800-255-3924 MIS 0006488

GENERATORINFORMATION

Name: CHAMBLISSBURG SUPPLY		US EPA ID No.
Street Address: 10625 STEWARTSVILLE RD VINTON, VA 24179	Mailing Address	Phone No.
		Contact: GREENE ENV.

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div.	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.		PETROLEUM CONTAMINATED GROUNDWATER	—	—	—	01	TT	535	G
b.									
c.									

ADDITIONAL INFORMATION		ERG. No	R.E.M. Profile Code	Facility Use
a.	AFVR EVENT			
b.				
c.				

GENERATOR'S CERTIFICATION

This is to certify that the above described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name	Signature	Mo. / Day / Yr.
Andrew Risse		10-18-19

TRANSPORTERINFORMATION

Transporter: **R.E.M. Specialties, LLC**

Address: **7161 Lynchburg Salem Turnpike Thaxton, VA 24174**

Transporter or EPA ID. No.: 1678909 Unit No.: 07

Phone: **540-874-5659**

R.E.M. Specialties, LLC assumes responsibility for transportation of described material to a permitted recycling, disposal, or treatment facility.

Signature:

Date: 10/18/19

FACILITY INFORMATION

Facility

Address

Facility or EPA ID No.

Phone

Contact

I hereby acknowledge receipt of the material covered by this manifest except for any discrepancy noted below.

Signature

Delivery Date

DISCREPANCIES / ROUTING CODES / HANDING METHODS

a.

b.

c.

ORIGINAL - Generator Retain COPY 2 - Facility Retain COPY 3 - Transporter Retain

GREENE
ENVIRONMENTAL SERVICES LLC.
570 Redbud Hill Road, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596
www.greene-environmental.com

Mr. Elei Safar
c/o Mr. Zouhir Safar
10625 Stewartsville Road
Vinton, Virginia 24179
Sent via email only (Zouhir_Safar@yahoo.com)

August 5, 2019

Dear Mr. Safar,

As previously discussed, Greene Environmental Services, LLC (Greene) has been contracted to perform the Virginia Department of Environmental Quality (VA DEQ) requested activities associated with a release of petroleum from the Chamblissburg Supply facility addressed as 10625 Stewartsville Road, Vinton, Virginia 24179. As a result, Greene seeks your cooperation in order to perform the activities requested by the VA DEQ. A summary of the activities to be performed on your property is provided below:

1. Install groundwater monitoring well(s).
2. Conduct routine groundwater monitoring and sampling activities as applicable.
4. Install replacement supply wells and associated water lines as necessary.
3. Perform additional activities required to obtain closure of PC 2017-2298 as necessary.

Greene Environmental Services, LLC, in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor overseeing the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. Greene and all sub-contractors will maintain all appropriate onsite safety measures.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381), email (tgreene@greene-environmental.com), or mail (570 Redbud Hill Road, Rocky Mount, VA 24151).

ELEI SAFAR / 8-13-19

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-493-8738 (mobile) if you have any questions or if additional information is required.

Sincerely,

Trevilian Greene

Trevilian Greene
Project Manager

By my signature below, I represent that as an authorized representative of the owner of the 10625 Stewartsville Road property in Vinton, Virginia, I give Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Signature

8-13-19
Date

ELEI SAFAR LAND OWNER
Printed Name & Title

APPENDIX G

Fate & Transport Modeling Data

SCR BIOSCREEN-AT Modeling Input Data & Graphical Representations
SCRA BIOSCREEN-AT Modeling Input Data & Graphical Representations
PSCM SP1 BIOSCREEN-AT Modeling Input Data & Graphical Representations

BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Benzene

Data Input Instructions:

115 → 1. *Enter value directly....or*

↑ *or*

0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

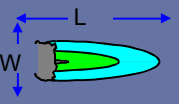
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	425	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

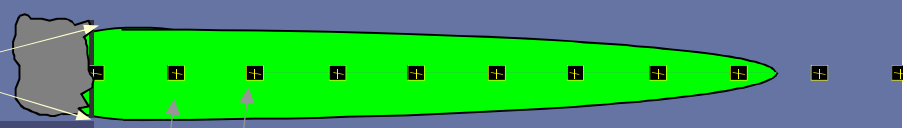


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	18.5

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	18.5	6.95	3.86	.295							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*170*	*213*	*255*	*298*	*340*	*383*	*425*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED BENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

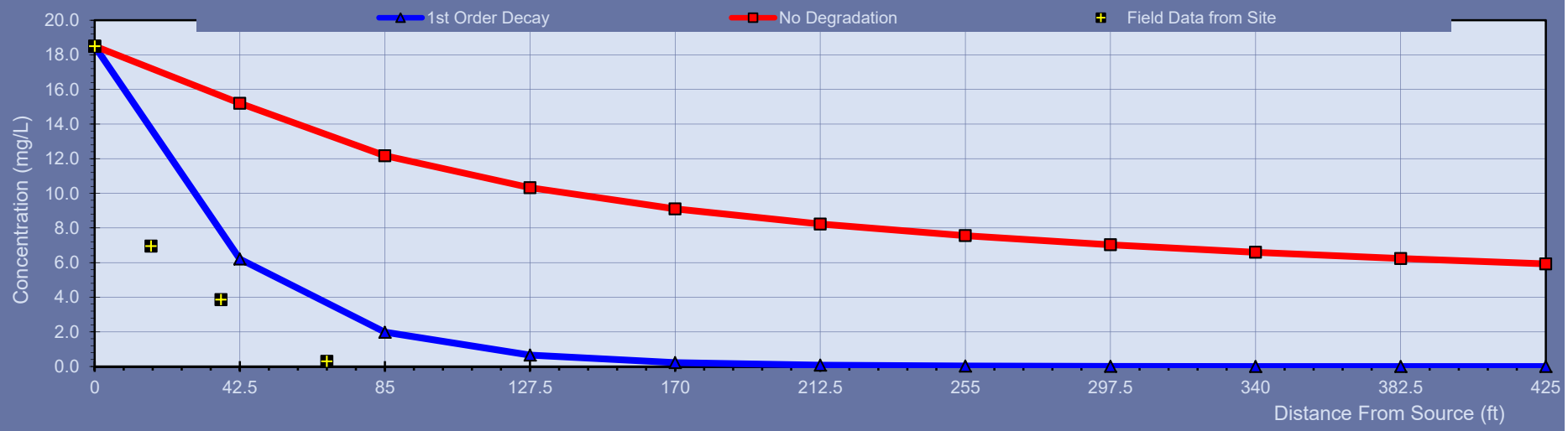
Distance from Source (ft)

	0	42.5	85	127.5	170	212.5	255	297.5	340	382.5	425
No Degradation	18.500	15.199	12.169	10.325	9.103	8.225	7.557	7.028	6.596	6.234	5.926
1st Order Decay	18.500	6.209	1.981	0.659	0.226	0.079	0.028	0.010	0.004	0.001	0.000
Field Data from Site	18.500	6.950	3.860	0.295							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Toluene

Data Input Instructions:

115 → 1. Enter value directly....or

or

0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

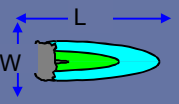
Retardation Factor*	*R*	1.2	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.2E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*	0.58	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	179	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

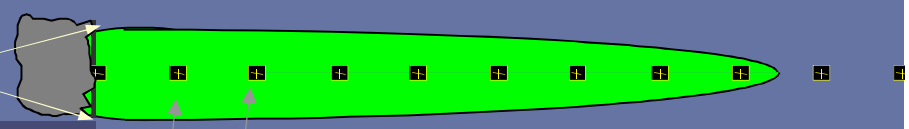


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	53.7

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	53.7	29.9	2.49	.711							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*72*	*90*	*107*	*125*	*143*	*161*	*179*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOLUENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

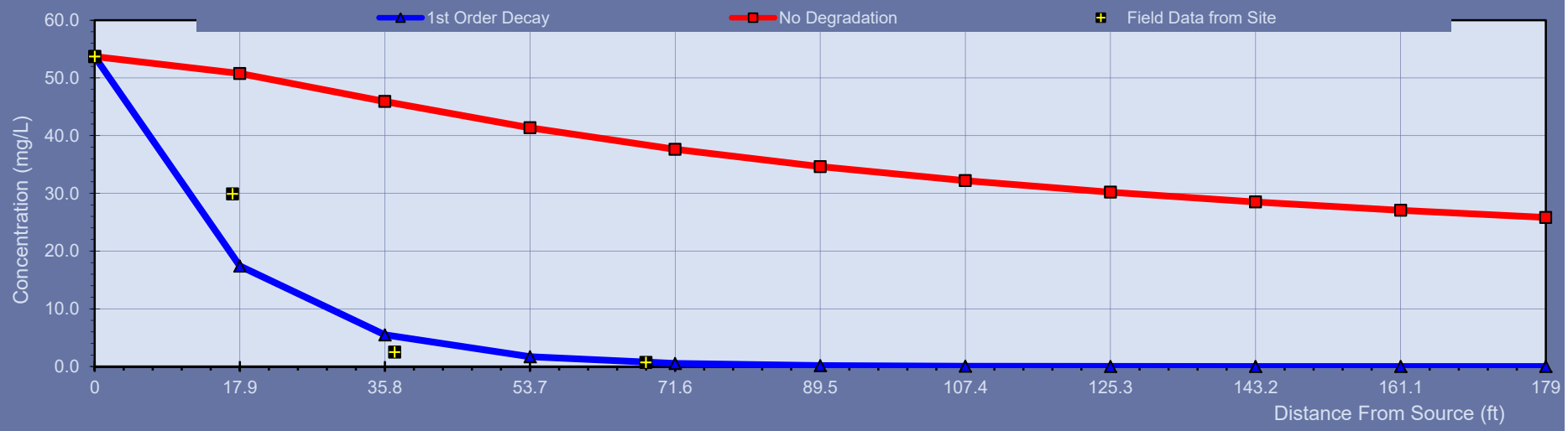
Distance from Source (ft)

	0	17.9	35.8	53.7	71.6	89.5	107.4	125.3	143.2	161.1	179
No Degradation	53.700	50.758	45.914	41.353	37.624	34.631	32.202	30.194	28.507	27.065	25.817
1st Order Decay	53.700	17.406	5.475	1.694	0.523	0.162	0.050	0.016	0.005	0.002	0.000
Field Data from Site	53.700	29.900	2.490	0.711							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Ethylbenzene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

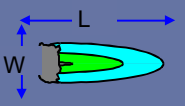
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.1E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.62	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	145	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

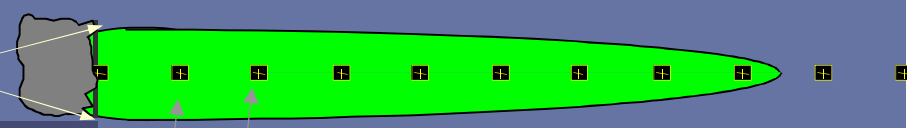


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	3.88

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	3.88		.441	.15							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*58*	*73*	*87*	*102*	*116*	*131*	*145*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

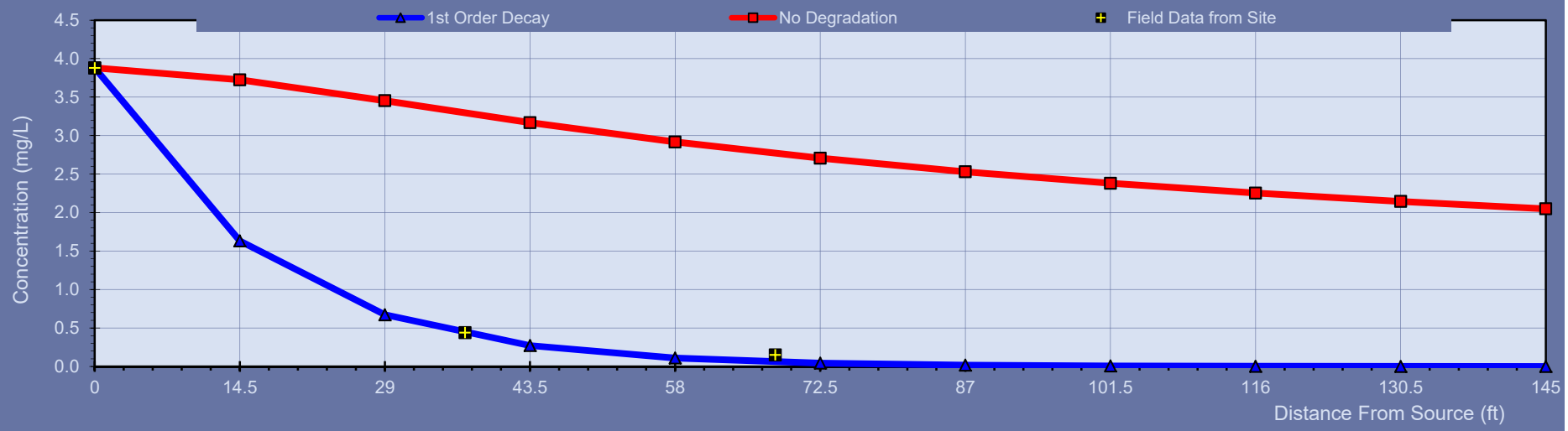
Distance from Source (ft)

	0	14.5	29	43.5	58	72.5	87	101.5	116	130.5	145
No Degradation	3.880	3.725	3.454	3.169	2.918	2.706	2.530	2.381	2.254	2.144	2.048
1st Order Decay	3.880	1.632	0.672	0.273	0.110	0.044	0.018	0.007	0.003	0.001	0.000
Field Data from Site	3.880		0.441	0.150							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Total Xylenes

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

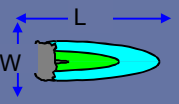
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	1.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	244	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

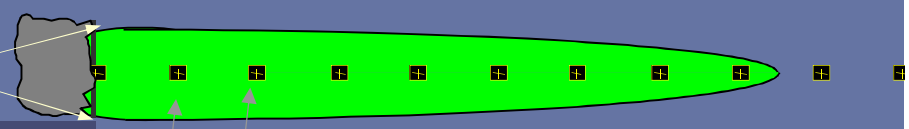


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	18.4

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	18.4		6.47	.455							
Dist. from Source (ft)	0	17	37	68	98	122	146	171	195	220	244

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL XYLENES CONCENTRATIONS IN PLUME (mg/L at Z=0)

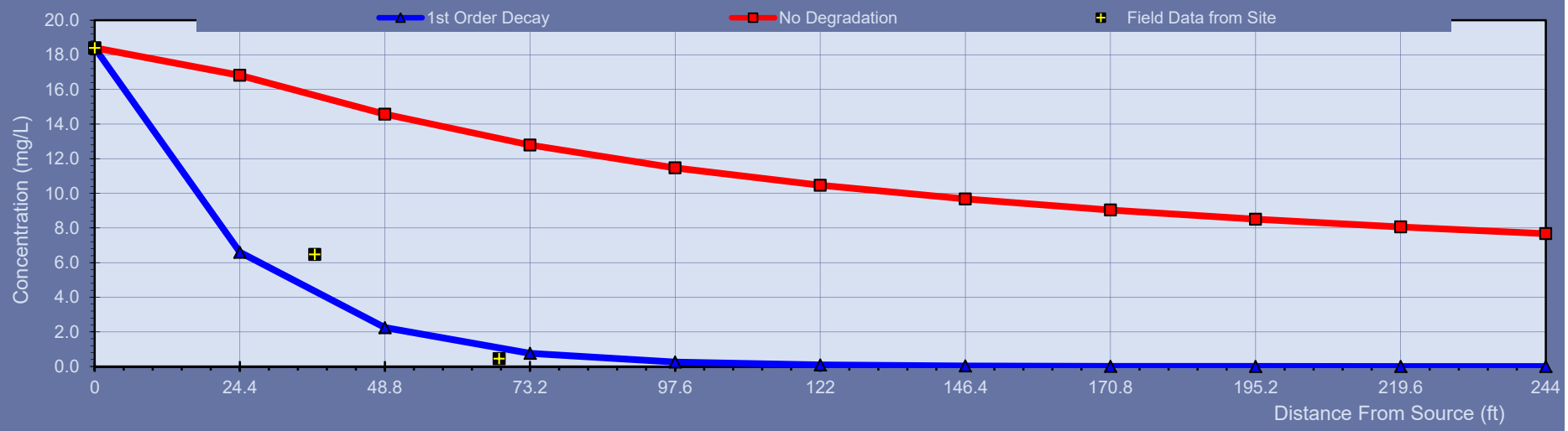
Distance from Source (ft)

	0	24.4	48.8	73.2	97.6	122	146.4	170.8	195.2	219.6	244
No Degradation	18.400	16.812	14.570	12.790	11.469	10.464	9.674	9.035	8.505	8.057	7.673
1st Order Decay	18.400	6.597	2.245	0.759	0.259	0.090	0.031	0.011	0.004	0.001	0.000
Field Data from Site	18.400		6.470	0.455							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - MTBE

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

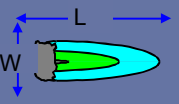
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	445	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

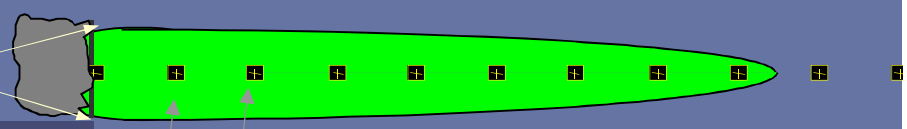


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	29.4

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	29.4										
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*178*	*223*	*267*	*312*	*356*	*401*	*445*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED MTBE CONCENTRATIONS IN PLUME (mg/L at Z=0)

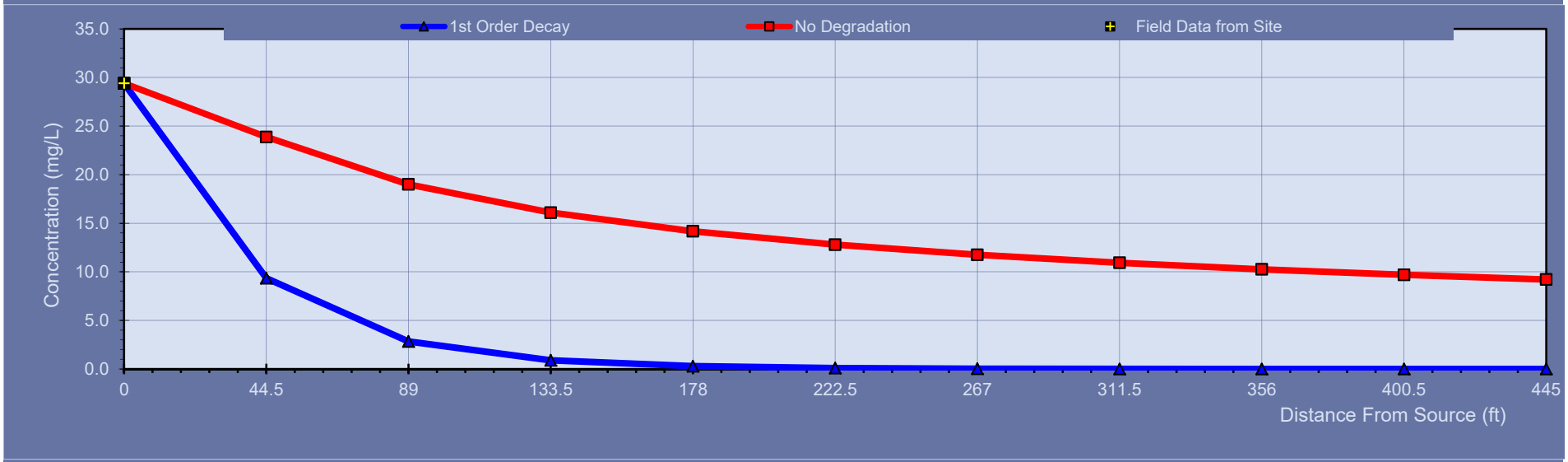
Distance from Source (ft)

	0	44.5	89	133.5	178	222.5	267	311.5	356	400.5	445
No Degradation	29.400	23.871	19.001	16.089	14.170	12.796	11.754	10.928	10.254	9.691	9.211
1st Order Decay	29.400	9.346	2.834	0.899	0.295	0.099	0.034	0.012	0.004	0.001	0.000
Field Data from Site	29.400										

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Naphthalene

Data Input Instructions:

115 → 1. Enter value directly....or

↑ or

0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

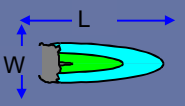
Retardation Factor*	*R*	1.2	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	9.8E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.71	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	146	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

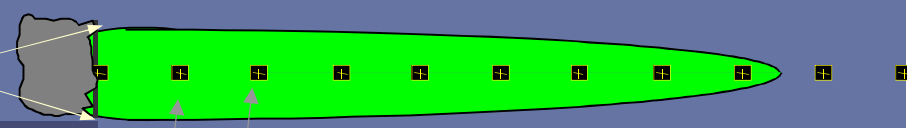


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	1.73

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	1.73		1.1	.078							
Dist. from Source (ft)	0	17	37	68	58	73	88	102	117	131	146

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED NAPHTHALENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

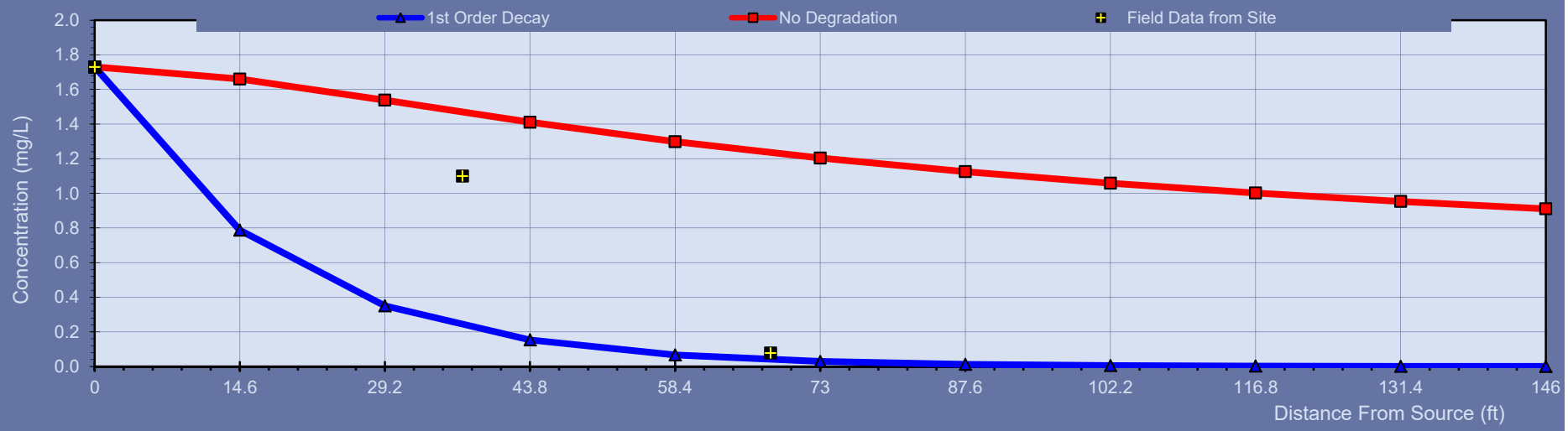
Distance from Source (ft)

	0	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
No Degradation	1.730	1.660	1.538	1.410	1.298	1.204	1.125	1.059	1.002	0.953	0.911
1st Order Decay	1.730	0.787	0.350	0.154	0.067	0.029	0.013	0.006	0.002	0.001	0.000
Field Data from Site	1.730		1.100	0.078							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply

CSVI1002 - BTEX, MTBE, NAP

Data Input Instructions:

115 → 1. Enter value directly....or

or

0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.

20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	Vs	15.669	(ft/yr)
or		or	
Hydraulic Conductivity	K	3.2E-04	(cm/sec)
Hydraulic Gradient	i	0.014	(ft/ft)
Porosity	n	0.3	(-)

2. DISPERSION

Longitudinal Dispersivity*	alpha x	7.061	(ft)
Transverse Dispersivity*	alpha y	0.706	(ft)
Vertical Dispersivity*	alpha z	0.000	(ft)
or		or	
Estimated Plume Length	Lp	100	(ft)

3. ADSORPTION

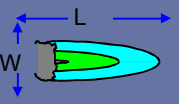
Retardation Factor*	R	1.2	(-)
or		or	
Soil Bulk Density	rho	1.7	(kg/l)
Partition Coefficient	Koc	38	(L/kg)
FractionOrganicCarbon	foc	8.0E-4	(-)

4. BIODEGRADATION

1st Order Decay Coeff*	lambda	3.5E-1	(per yr)
or		or	
Solute Half-Life	t-half	2.00	(year)
or Instantaneous Reaction Model			
Delta Oxygen*	DO	5.78	(mg/L)
Delta Nitrate*	NO3	17	(mg/L)
Observed Ferrous Iron*	Fe2+	11.3	(mg/L)
Delta Sulfate*	SO4	100	(mg/L)
Observed Methane*	CH4	0.414	(mg/L)

5. GENERAL

Modeled Area Length*	507	(ft)
Modeled Area Width*	85	(ft)
Simulation Time*	100.00	(yr)

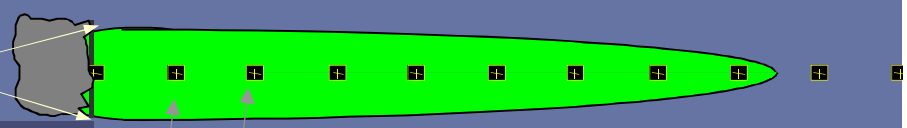


6. SOURCE DATA

Source Thickness	10	(ft)

Source	
Width (ft)	Conc.(mg/L)
20	125.51

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	125.51	72.74	21.87	5.387							
Dist. from Source (ft)	0	17	37	68	203	254	304	355	406	456	507

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL BTEX, MTBE, NAP CONCENTRATIONS IN PLUME (mg/L at Z=0)

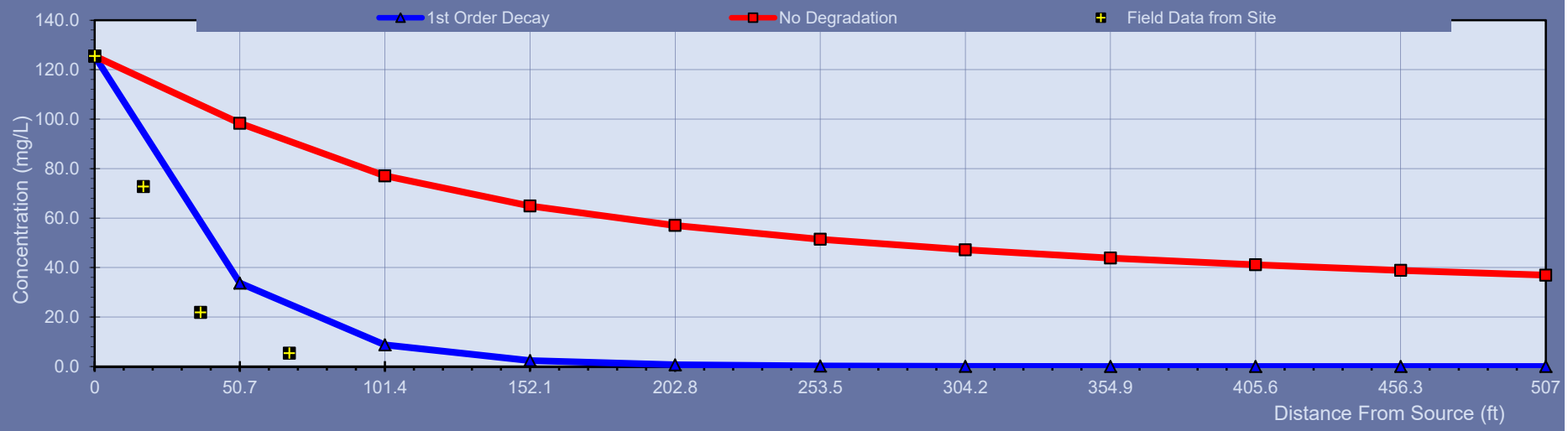
Distance from Source (ft)

	0	50.7	101.4	152.1	202.8	253.5	304.2	354.9	405.6	456.3	507
No Degradation	125.510	98.308	77.042	64.889	57.010	51.412	47.181	43.842	41.121	38.849	36.915
1st Order Decay	125.510	33.708	8.748	2.399	0.682	0.199	0.059	0.018	0.005	0.002	0.000
Field Data from Site	125.510	72.740	21.870	5.387							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - Benzene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

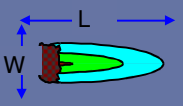
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	285	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

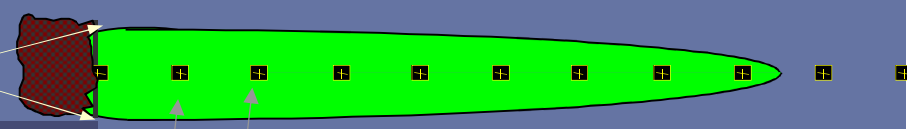


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	12.1

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	114	143	171	200	228	257	285

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED BENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

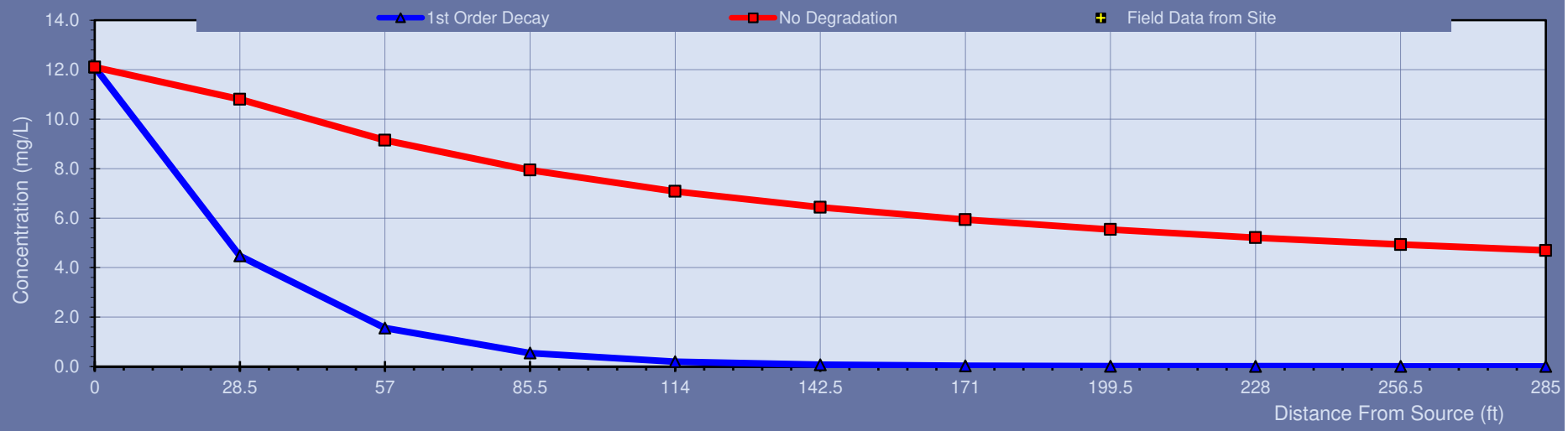
Distance from Source (ft)

	0	28.5	57	85.5	114	142.5	171	199.5	228	256.5	285
No Degradation	12.100	10.802	9.149	7.942	7.079	6.437	5.938	5.538	5.207	4.929	4.691
1st Order Decay	12.100	4.469	1.555	0.544	0.194	0.070	0.026	0.009	0.003	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - Toluene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

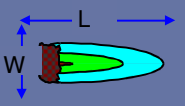
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.2E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.58	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	128	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

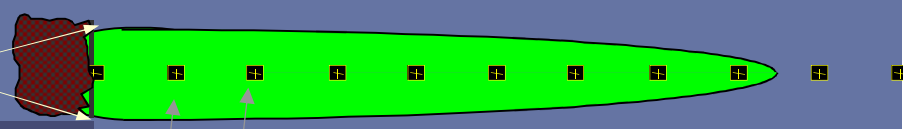


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	40.3

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	51	64	77	90	102	115	128

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN** | **View Centerline** | **View Plume** | **View BIOSCREEN**

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOLUENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

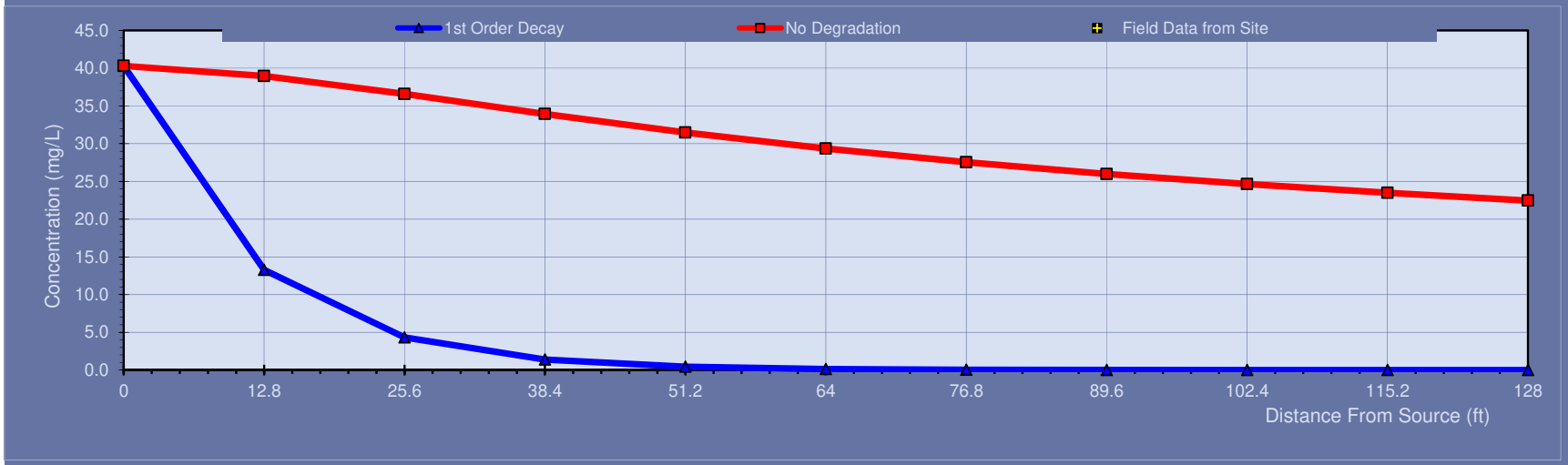
Distance from Source (ft)

	0	12.8	25.6	38.4	51.2	64	76.8	89.6	102.4	115.2	128
No Degradation	40.300	38.960	36.577	33.926	31.476	29.349	27.532	25.978	24.640	23.476	22.455
1st Order Decay	40.300	13.286	4.329	1.394	0.445	0.142	0.045	0.014	0.005	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - Ethylbenzene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

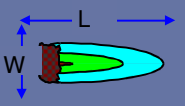
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.1E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.62	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	106	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

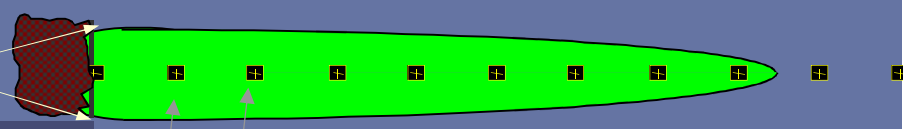


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	3.89

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	42	53	64	74	85	95	106

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

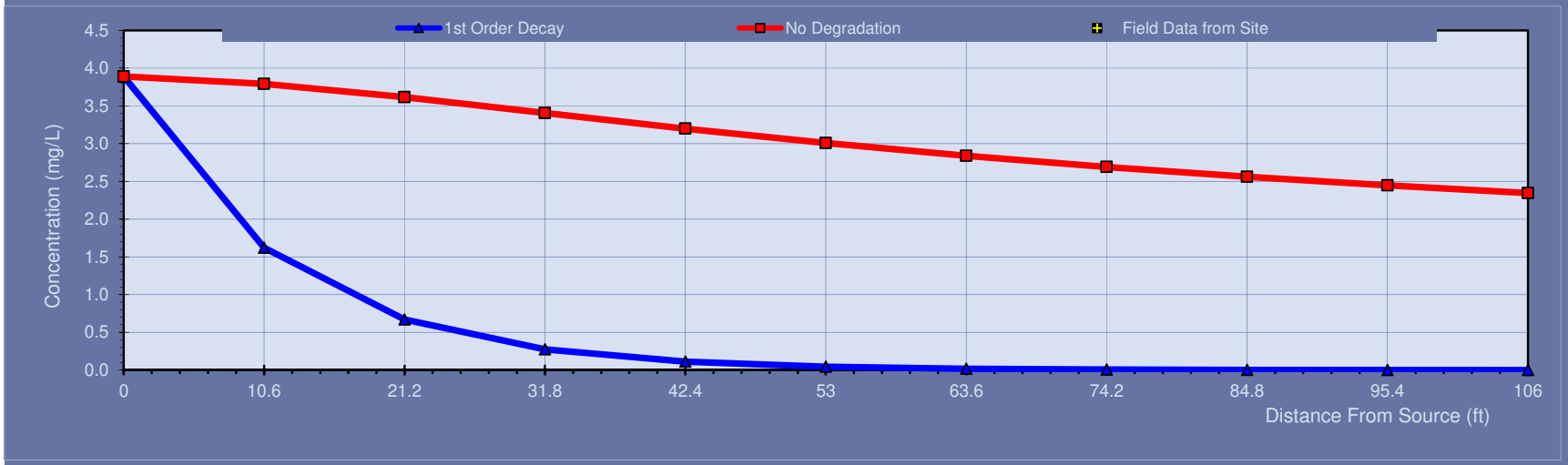
Distance from Source (ft)

	0	10.6	21.2	31.8	42.4	53	63.6	74.2	84.8	95.4	106
No Degradation	3.890	3.792	3.616	3.406	3.198	3.007	2.839	2.691	2.561	2.447	2.345
1st Order Decay	3.890	1.621	0.670	0.275	0.112	0.045	0.018	0.007	0.003	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - Total Xylenes

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

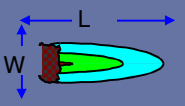
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	1.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	176	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

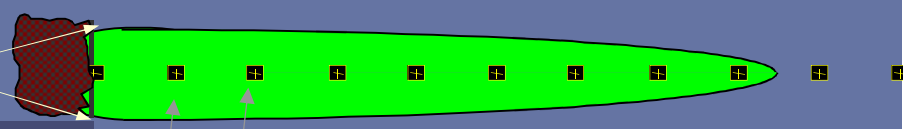


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	19.4

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	70	88	106	123	141	158	176

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN** | **View Centerline** | **View Plume** | **View BIOSCREEN**

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL XYLENES CONCENTRATIONS IN PLUME (mg/L at Z=0)

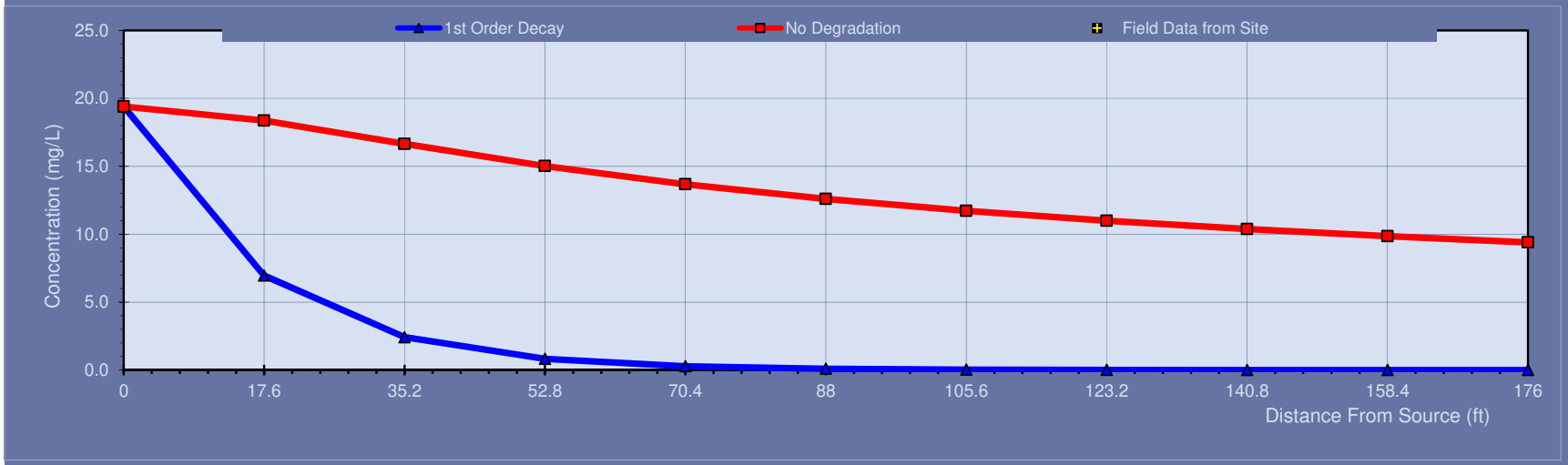
Distance from Source (ft)

	0	17.6	35.2	52.8	70.4	88	105.6	123.2	140.8	158.4	176
No Degradation	19.400	18.363	16.647	15.015	13.673	12.593	11.714	10.987	10.375	9.851	9.398
1st Order Decay	19.400	6.957	2.420	0.828	0.283	0.097	0.033	0.012	0.004	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - MTBE

Data Input Instructions:

115 → 1. Enter value directly....or

↑ or

0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

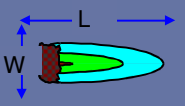
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	304	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

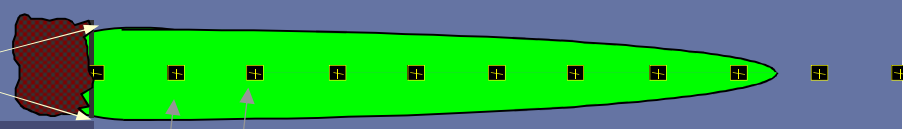


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	23.5

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*122*	*152*	*182*	*213*	*243*	*274*	*304*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED MTBE CONCENTRATIONS IN PLUME (mg/L at Z=0)

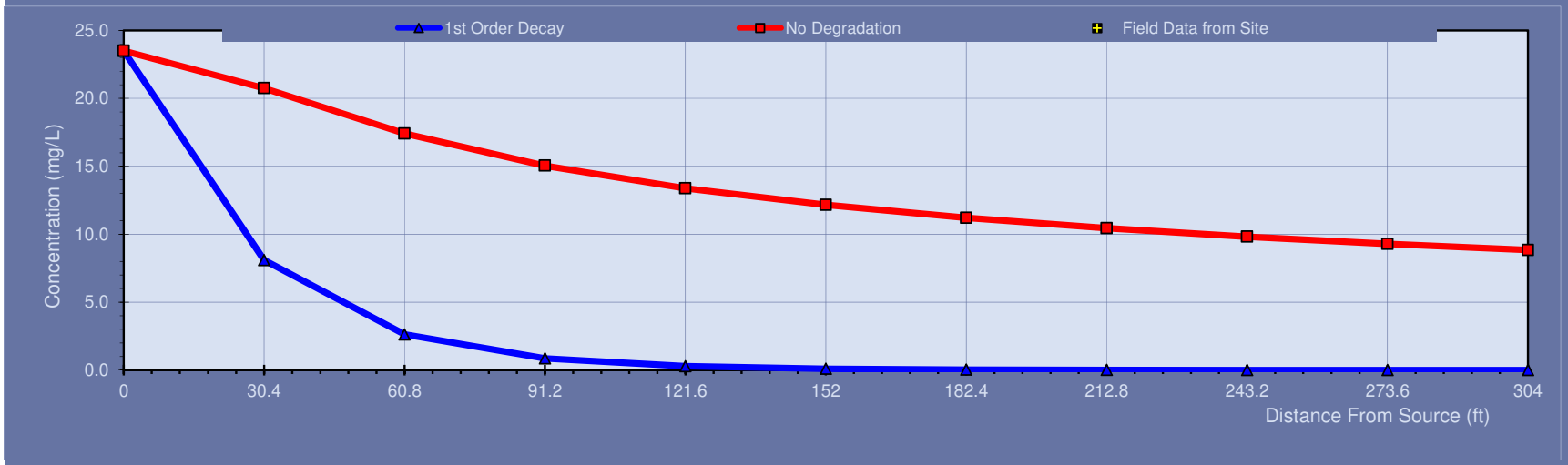
Distance from Source (ft)

	0	30.4	60.8	91.2	121.6	152	182.4	212.8	243.2	273.6	304
No Degradation	23.500	20.747	17.406	15.045	13.382	12.153	11.202	10.441	9.815	9.288	8.837
1st Order Decay	23.500	8.097	2.624	0.859	0.286	0.097	0.033	0.012	0.004	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - Naphthalene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

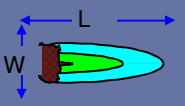
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	9.8E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.71	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	109	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

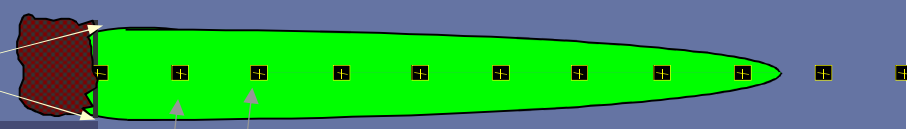


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	2.13

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	44	55	65	76	87	98	109

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED NAPHTHALENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

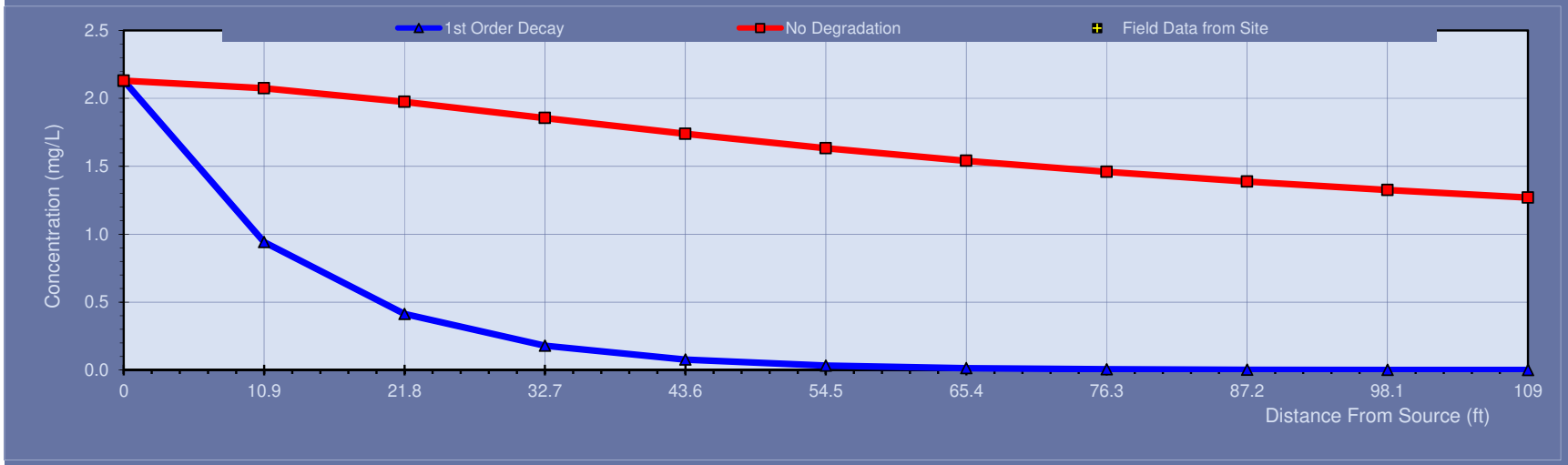
Distance from Source (ft)

	0	10.9	21.8	32.7	43.6	54.5	65.4	76.3	87.2	98.1	109
No Degradation	2.130	2.074	1.974	1.855	1.739	1.633	1.540	1.459	1.387	1.325	1.270
1st Order Decay	2.130	0.942	0.413	0.179	0.077	0.033	0.014	0.006	0.003	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1003 - BTEX, MTBE, NAP

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	10.0729	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.009	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

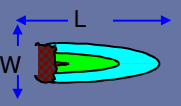
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	347	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

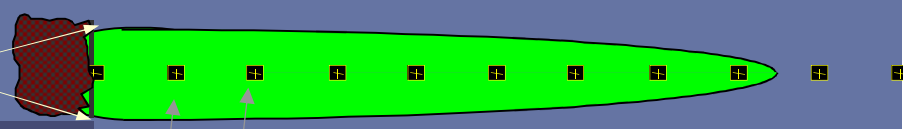


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	101.32

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	139	174	208	243	278	312	347

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL BTEX, MTBE, NAP CONCENTRATIONS IN PLUME (mg/L at Z=0)

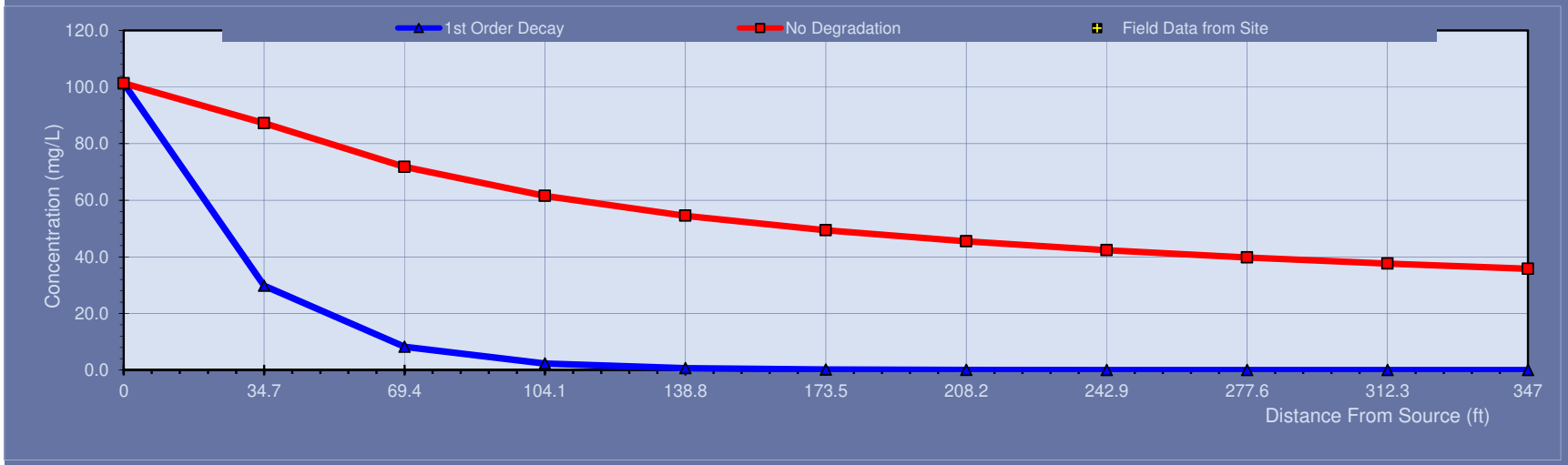
Distance from Source (ft)

	0	34.7	69.4	104.1	138.8	173.5	208.2	242.9	277.6	312.3	347
No Degradation	101.320	87.200	71.771	61.536	54.521	49.401	45.471	42.339	39.771	37.616	35.775
1st Order Decay	101.320	29.796	8.232	2.318	0.668	0.196	0.058	0.017	0.005	0.002	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - Benzene

Data Input Instructions:

115 → 1. *Enter value directly....or*
↑ *or* 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*
0.02

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

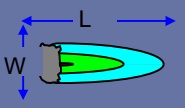
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	347	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

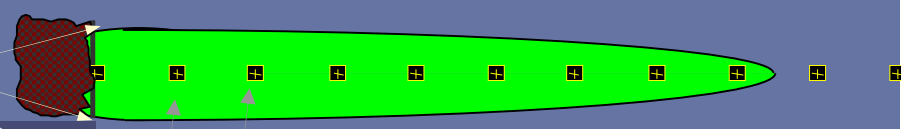


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	17.3

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	139	174	208	243	278	312	347

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN** | **View Centerline** | **View Plume** | **View BIOSCREEN**

Recalculate This Sheet
Paste Example Dataset
Paste Dataset from BIOSCREEN
Restore Formulas for Vs,

DISSOLVED BENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

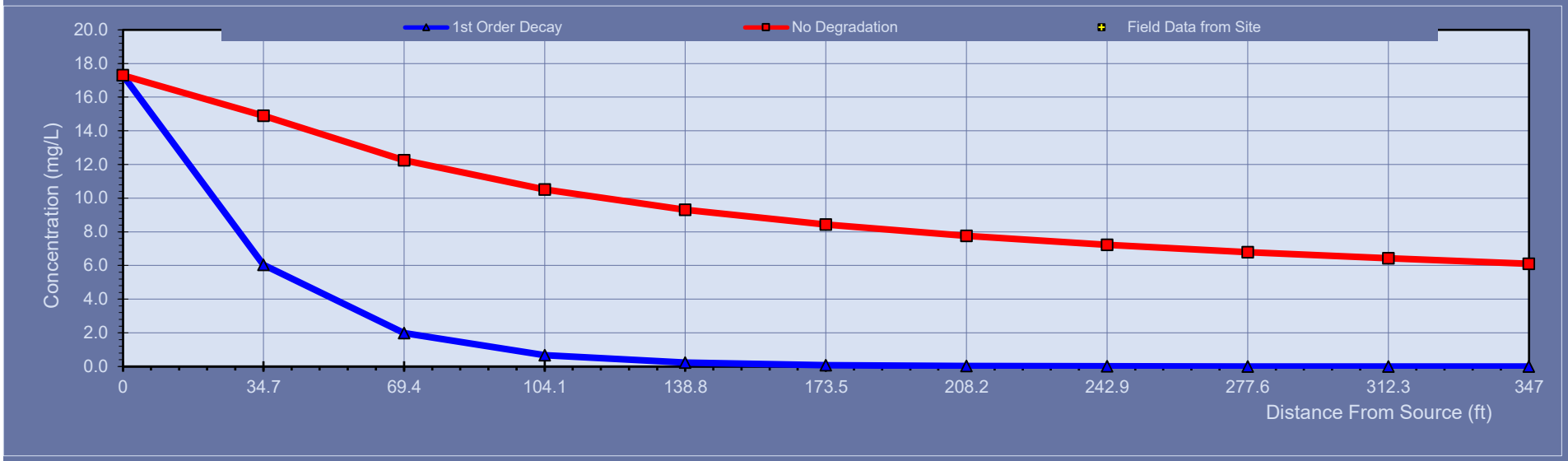
Distance from Source (ft)

	0	34.7	69.4	104.1	138.8	173.5	208.2	242.9	277.6	312.3	347
No Degradation	17.300	14.889	12.255	10.507	9.309	8.435	7.764	7.229	6.791	6.423	6.108
1st Order Decay	17.300	6.036	1.981	0.665	0.228	0.080	0.028	0.010	0.004	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - Toluene

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

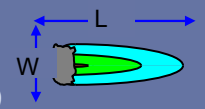
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.2E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.58	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	150	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

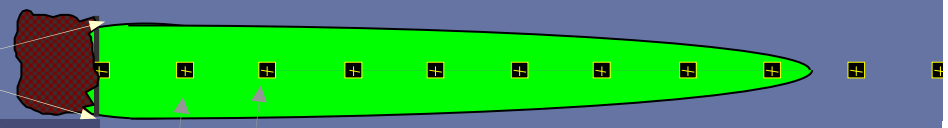


6. SOURCE DATA

Source Thickness 10 *(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	51.2

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	60	75	90	105	120	135	150

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOLUENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

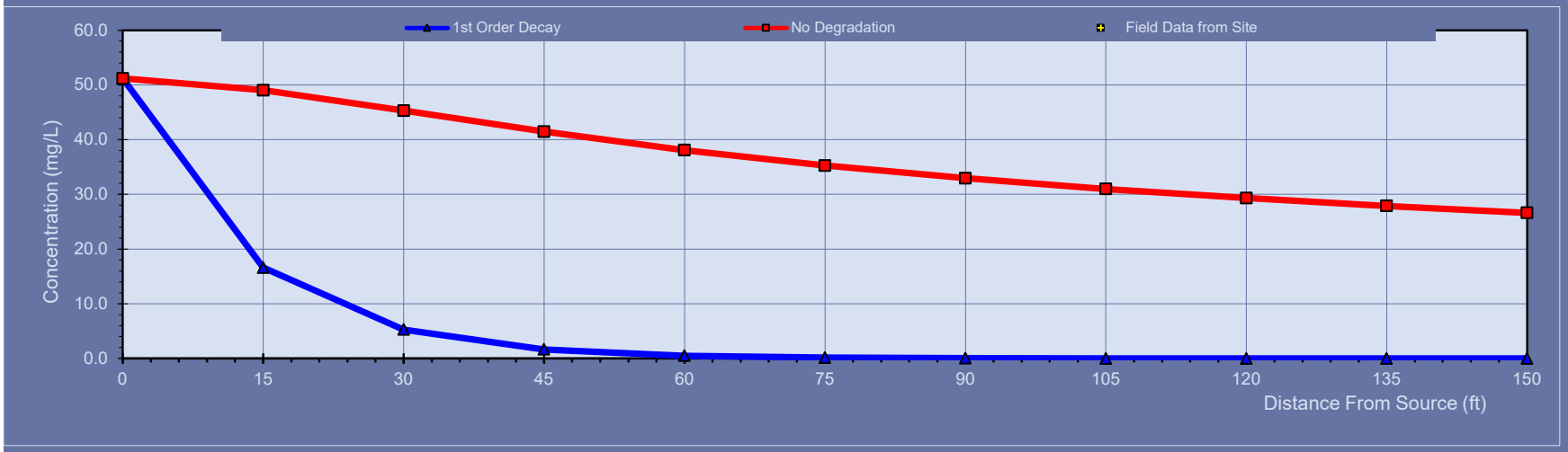
Distance from Source (ft)

	0	15	30	45	60	75	90	105	120	135	150
No Degradation	51.200	49.045	45.308	41.449	38.086	35.281	32.947	30.987	29.320	27.884	26.633
1st Order Decay	51.200	16.611	5.288	1.658	0.516	0.161	0.050	0.016	0.005	0.002	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1004 - Ethylbenzene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or* *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

0.02

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

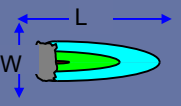
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.1E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.62	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	120	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

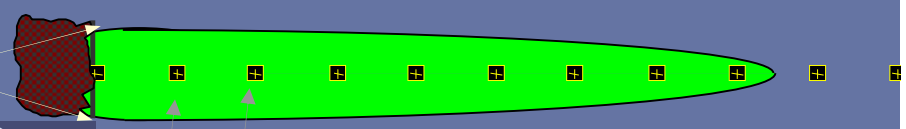


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	3.26

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*48*	*60*	*72*	*84*	*96*	*108*	*120*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

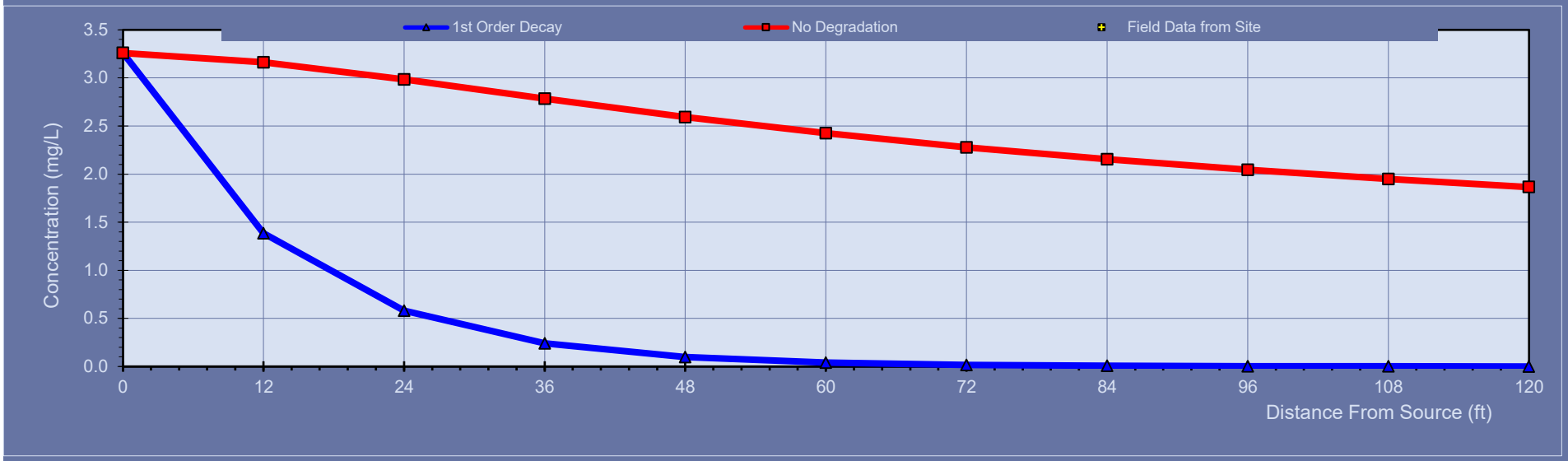
Distance from Source (ft)

	0	12	24	36	48	60	72	84	96	108	120
No Degradation	3.260	3.161	2.985	2.784	2.593	2.425	2.280	2.154	2.045	1.950	1.867
1st Order Decay	3.260	1.385	0.581	0.241	0.099	0.041	0.017	0.007	0.003	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - Total Xylenes

Data Input Instructions:

115 → 1. *Enter value directly....or*
↑ *or*
0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

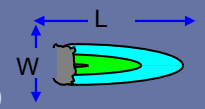
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	1.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	202	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

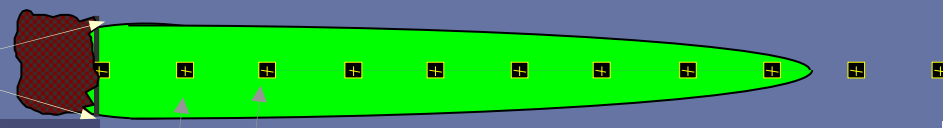


6. SOURCE DATA

Source Thickness 10 *(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	17.38

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	81	101	121	141	162	182	202

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL XYLENES CONCENTRATIONS IN PLUME (mg/L at Z=0)

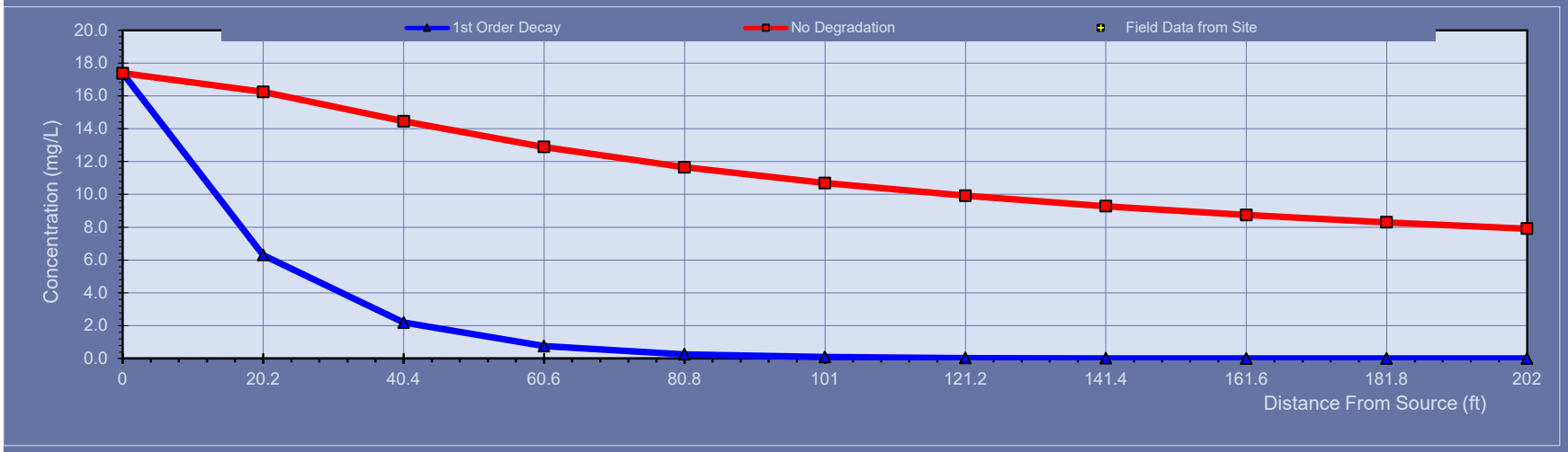
Distance from Source (ft)

	0	20.2	40.4	60.6	80.8	101	121.2	141.4	161.6	181.8	202
No Degradation	17.380	16.241	14.458	12.887	11.653	10.685	9.911	9.277	8.748	8.297	7.909
1st Order Decay	17.380	6.302	2.196	0.754	0.260	0.090	0.031	0.011	0.004	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - MTBE

Data Input Instructions:

115 → 1. *Enter value directly....or*
↑ *or* 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*
0.02

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

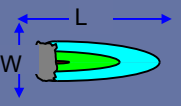
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	378	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

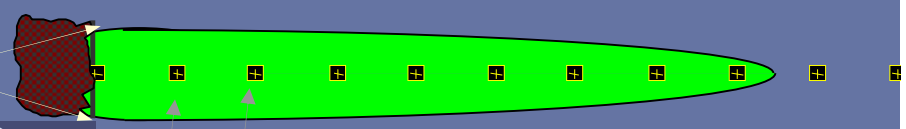


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	42.9

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	151	189	227	265	302	340	378

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED MTBE CONCENTRATIONS IN PLUME (mg/L at Z=0)

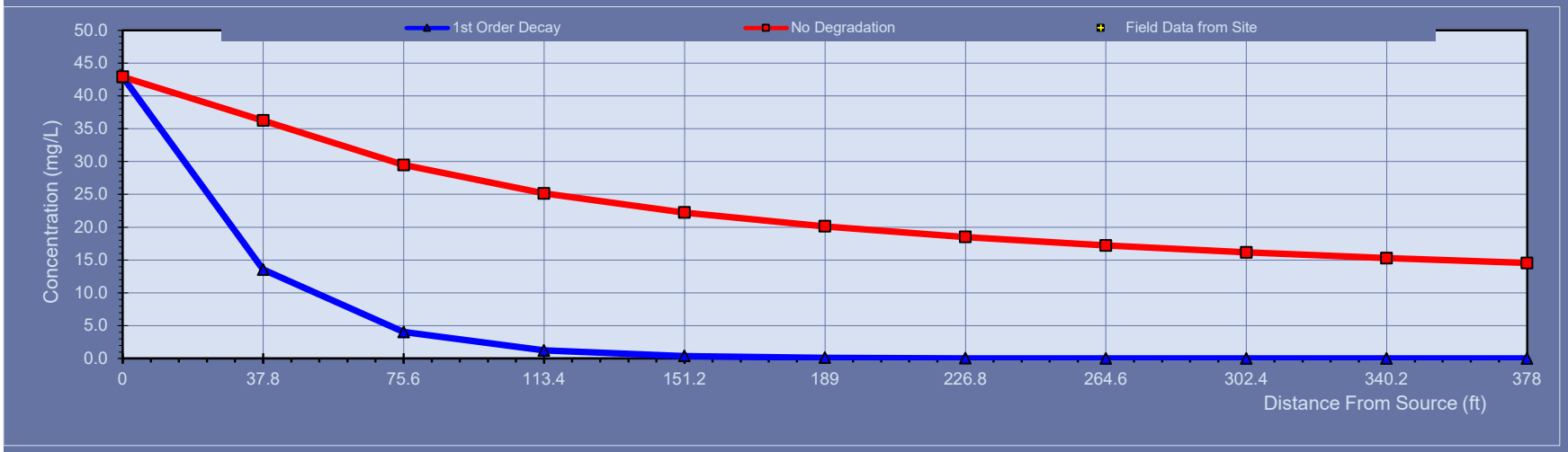
Distance from Source (ft)

	0	37.8	75.6	113.4	151.2	189	226.8	264.6	302.4	340.2	378
No Degradation	42.900	36.245	29.477	25.155	22.237	20.123	18.508	17.224	16.172	15.291	14.539
1st Order Decay	42.900	13.551	4.033	1.235	0.389	0.125	0.041	0.013	0.004	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - Naphthalene

Data Input Instructions:

115 → 1. *Enter value directly....or*
↑ *or*
0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

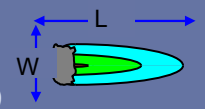
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	9.8E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.71	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	110	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

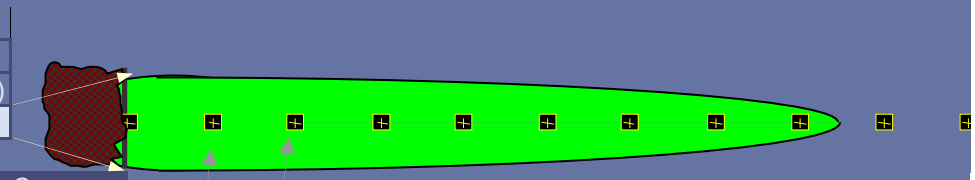


6. SOURCE DATA

Source Thickness 10 *(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	0.737

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	44	55	66	77	88	99	110

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED NAPHTHALENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

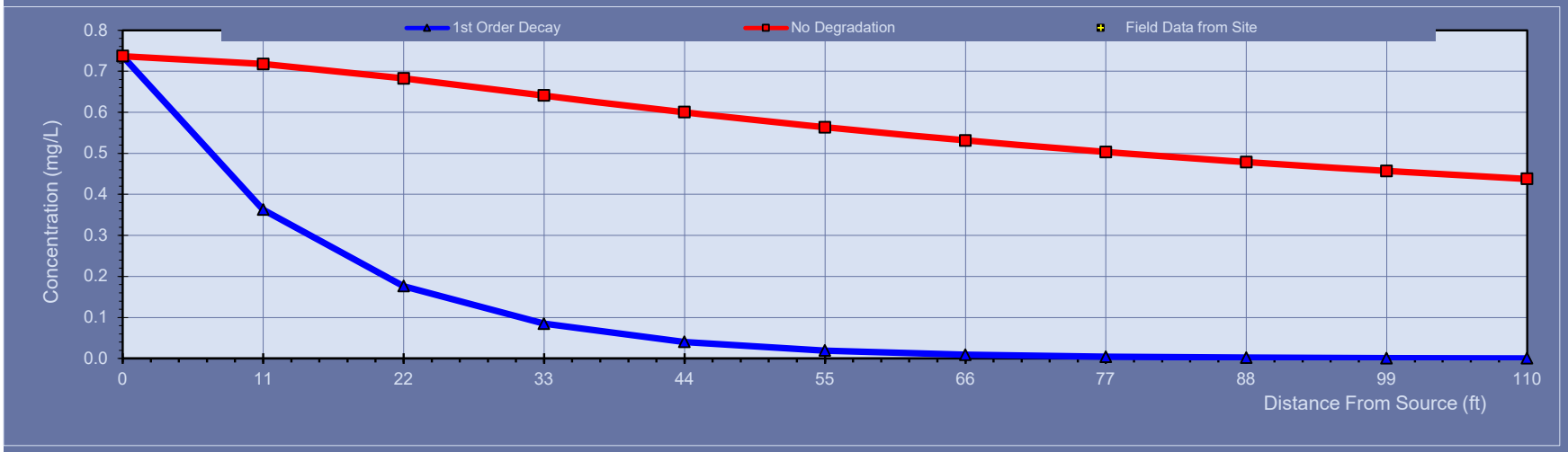
Distance from Source (ft)

	0	11	22	33	44	55	66	77	88	99	110
No Degradation	0.737	0.717	0.682	0.641	0.600	0.563	0.531	0.503	0.478	0.457	0.438
1st Order Decay	0.737	0.363	0.176	0.085	0.041	0.019	0.009	0.004	0.002	0.001	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc. — *Version 1.45*

Chamblissburg Supply
CSVI1004 - BTEX, MTBE, NAP

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ *or*
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	12.3113	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.011	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

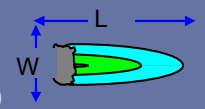
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	417	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

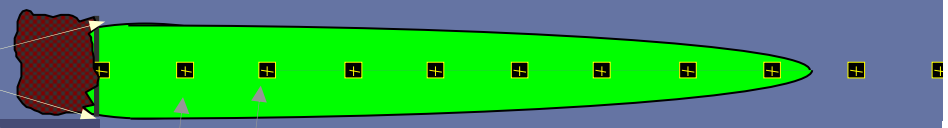


6. SOURCE DATA

Source Thickness 10 *(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	131.137

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	17	37	68	167	209	250	292	334	375	417

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL BTEX, MTBE, NAP CONCENTRATIONS IN PLUME (mg/L at Z=0)

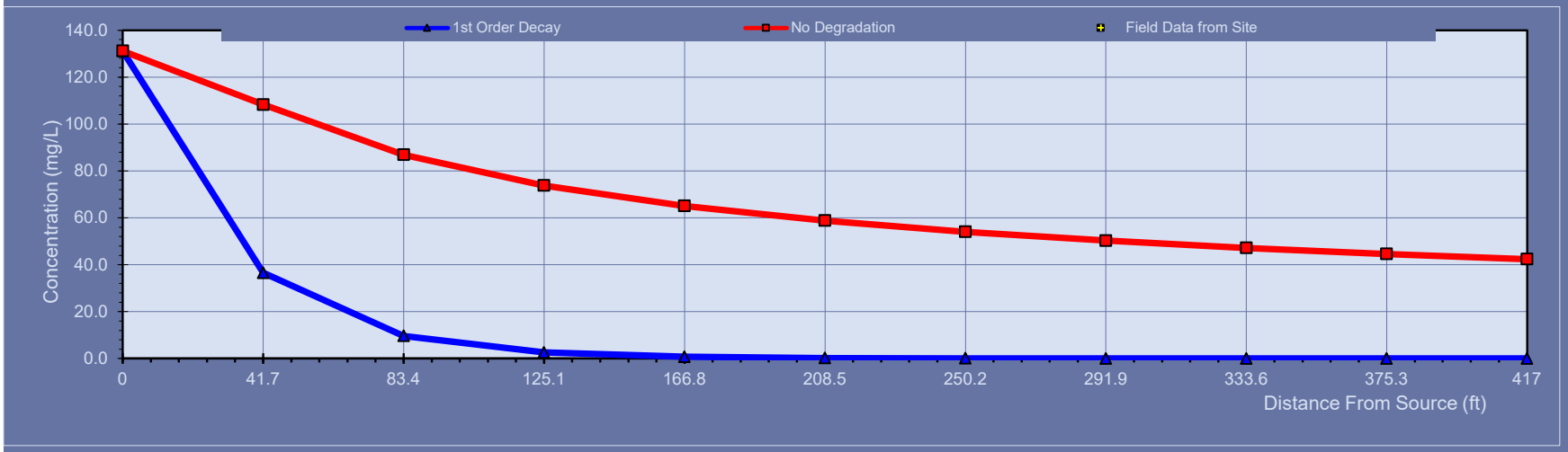
Distance from Source (ft)

	0	41.7	83.4	125.1	166.8	208.5	250.2	291.9	333.6	375.3	417
No Degradation	131.137	108.250	86.885	73.786	65.077	58.814	54.047	50.269	47.181	44.597	42.395
1st Order Decay	131.137	36.540	9.633	2.633	0.742	0.213	0.062	0.018	0.005	0.002	0.000
Field Data from Site											

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume Output**



APPENDIX H

UST Closure & Soil Excavation Documentation

Building Permit for UST Closure – Bedford County Department of Building Inspection
Gasoline UST Closure Vacuum Truck Material Manifest – R.E.M. Specialties, LLC
Kerosene/Diesel Fuel UST Closure Vacuum Truck Material Manifest – R.E.M. Specialties, LLC
Tank Disposal Manifest
Non-Hazardous Waste Manifest – Earthtec of NC, Inc.
Notification for Underground Storage Tanks – 7530-3

BEDFORD COUNTY
DIVISION OF BUILDING INSPECTION
122 EAST MAIN STREET, SUITE G-03
BEDFORD, VA 24523-2000
PHONE: (540) 586-7616

BUILDING PERMIT

Permit Number: B1900746
Application Date: 01/03/2019
Application for: Tank Removal
Legal Description: CHAMBLISSBURG
Zoning District: AV AP
Mag District: 1
Election District: 1

Parcel ID: 176 A 67
RPC #: 17607600
Valuation: $25,000.00

Code Preference: COM USBC: 2012 Construction Type: 5B Use Group: U Sprinkled: N Req: N

Building Owner:
DUDLEY LACY F DECLARATION OF REVOCABLE
6338 STONECROFT CT
ROANOKE VA 24018

Land Owner:
DUDLEY LACY F DECLARATION OF REVOCABLE
6338 STONECROFT CT
ROANOKE, VA 24018

Contractor:
SHIVELY PAUL R INC
P O BOX 699
FLOYD VA 24091
540-745-5838 2705037140 01/31/2021
MLA:

Directions to Site:
24W TO #10625 STEWARTSVILLE RD ON RIGHT(NOW CALLED ELEI'S TABACCO CO & GROCERY)

Structural:
Roof: Baths: 0 Bedrooms: 0 Basement: Crawl space: Exterior Type:
Floor: Foundation: Retaining Wall:

Comments: REMOVING (6) TANKS (4) GAS TANKS (1) 6000 GALLON (2) 5000 GALLON , (1) DIESEL TANK 1000 GALLON (1) KEROSINE TANK 1000 GALLON REMOVE EXISTING CANOPY AND ALL PUMPS

Square Footage:		Mechanical:		Plumbing:	FEES:	
Basement:	0	HP:	0	Sewer:	Building:	$0.00
1st Floor:	0	FP:	0	Water:	Structure:	$0.00
2nd Floor:	0	Flue:	0		Electrical:	$0.00
3rd Floor:	0				Plumbing:	$0.00
Garage:	0	Electrical:		Power Company	Mechanical:	$100.00
Porches,Decks:	0	New:	N	AEP Rke:	Doublewide:	$0.00
Total:	0	Upgrade:	N	AEP Lbrg:	Singlewide:	$0.00
		Amps:	0	Southside:		
				Bedford City:	Sub-Total:	$100.00
					State Surcharge:	$2.00
					Administration Fee:	$0.00
					Total:	$102.00

This permit will be granted on the specific condition that construction shall, in all respects, comply with requirements of the Virginia Uniform Statewide Building Code. Use or occupancy of the project described in whole or in part is prohibited until approved by the Building Official.

This permit will expire due to inactivity without an approved inspection being performed within each six month period.

I, SHIVELY PAUL R , (Owner, authorized agent of the owner, acting for the owner), do hereby certify and acknowledge the (I) (we) do understand and will comply with the requirements indicated in this application.

Signature: Paul R Shively Approved By: Daniel R. Dillon / DM

MATERIAL MANIFEST

R.E.M. Specialties, LLC

P.O. BOX 347
HARDY, VA 24101
TEL. (540) 874-5659

EMERGENCY PHONE NO.
CHEMTEL 1-800-255-3924 MIS 0006488

Manifest Document No. 3802
Page 1 of 1
R.E.M. Job No.

GENERATOR INFORMATION

Name: PROPERTY OF DUDLEY ESTATE
US EPA ID No.
Street Address: 15462 STRAWNTSVILLE RD, VINTON, VA 24179
Mailing Address
Phone No.
Contact

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div.	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.	X	FLAMMABLE LIQUIDS, NOS	3	1993	II	01	TT	560	G
b.									
c.									

ADDITIONAL INFORMATION	ERG. No.	R.E.M. Profile Code	Facility Use
a. GASOLINE / WATER MIXTURE			
b. FROM (4) GASOLINE USTS			
c.			

GENERATOR'S CERTIFICATION

This is to certify that the above described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name: Trev Grace
Signature: [signature]
Mo. / Day / Yr.: 01/07/19

TRANSPORTER INFORMATION

Transporter: **R.E.M. Specialties, LLC**
Address: **7161 Lynchburg Salem Turnpike Thaxton, VA 24174**
Transporter or EPA ID. No.: 1678937
Unit No: TK #07
Phone: **540-874-5659**

R.E.M. Specialties, LLC assumes responsibility for transportation of described material to a permitted recycling, disposal, or treatment facility.

Signature: [signature]
Date: 1/7/2019

FACILITY INFORMATION

Facility
Address
Facility or EPA ID No.
Phone
Contact

I hereby acknowledge receipt of the material covered by this manifest except for any discrepancy noted below.

Signature
Delivery Date

DISCREPANCIES / ROUTING CODES / HANDING METHODS

a.
b.
c.

ORIGINAL - Generator Retain COPY 2 - Facility Retain COPY 3 - Transporter Retain

MATERIAL MANIFEST

R.E.M. Specialties, LLC

P.O. BOX 347
HARDY, VA 24101
TEL. (540) 874-5659

EMERGENCY PHONE NO.
CHEMTEL 1-800-255-3924

MIS 0006488

Manifest Document No. 3801

Page 1 of 1

R.E.M. Job No.

GENERATOR INFORMATION

Name: PROPERTY OF DUDLEY ESTATE

US EPA ID No.

Street Address: 15462 STEWARTSVILLE RD. VINTON, VA 24179

Mailing Address

Phone No.

Contact

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div.	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.		DIESEL / WATER MIXTURE	—	—	—	01	TT	165	G
b.									
c.									

ADDITIONAL INFORMATION		ERG. No.	R.E.M. Profile Code	Facility Use
a.	FROM (2) UST'S			
b.				
c.				

GENERATOR'S CERTIFICATION

This is to certify that the above described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name: Trent Moore

Signature: [signature]

Mo. / Day / Yr.: 01/07/19

TRANSPORTER INFORMATION

Transporter: **R.E.M. Specialties, LLC**

Address: **7161 Lynchburg Salem Turnpike Thaxton, VA 24174**

Transporter or EPA ID. No.: D 1678909

Unit No.: TL #2

Phone: **540-874-5659**

R.E.M. Specialties, LLC assumes responsibility for transportation of described material to a permitted recycling, disposal, or treatment facility.

Signature: [signature]

Date: 1/7/2019

FACILITY INFORMATION

Facility

Address

Facility or EPA ID No.

Phone

Contact

I hereby acknowledge receipt of the material covered by this manifest except for any discrepancy noted below.

Signature

Delivery Date

DISCREPANCIES / ROUTING CODES / HANDING METHODS

a.

b.

c.

ORIGINAL - Generator Retain COPY 2 - Facility Retain COPY 3 - Transporter Retain

GREENE
ENVIRONMENTAL SERVICES LLC

TANK DISPOSAL MANIFEST

ScrapCo agrees to accept sole ownership and responsibility for the following storage tank(s):

Quantity	Size (gallons)	Serial Number
1	1,000 - Kerosene	
1	1,000 - Diesel	
1	4,000 - Plus Gasoline	
1	5,000 - Regular Gasoline	
1	5,000 - Premium Gasoline	
1	6,000 - Regular Gasoline	

and agrees to have the tank(s) described above cleaned so as to be certified free of petroleum residue prior to their reuse (for purposes other than fuel storage) or recycling. As stated by Federal law, the above described tank(s) may not be used for the storage of liquids or food products intended for human or animal consumption. The aforementioned party agrees to:

- properly clean the tank interior and responsibly dispose of any waste prior to the reuse of the tank(s) listed herein,
- not to abandon above mentioned tank(s);

and that if the tank(s) is not used,

- agrees to have the tank(s) recycled within 1 year of receipt.

Steel tanks may generate flammable fumes even after having been defumed more than once. The cutting of a tank that has not been properly defumed may result in a violent explosion.

Lacy Dudley Estate accepts no liability for the improper handling and/or usage of tank(s) after they are in Receiver's possession. Upon the transfer of the above listed tank(s), the Receiver becomes the sole owner of same and Lacy Dudley Estate relinquishes all ownership and responsibility for the tank(s) and their usage. The proper re-usage of tanks is mandated by law.

Relinquished by: [redacted] Paul R Shively, Inc

Agent for: Lacy Dudley Estate

Date: 1-7-19

Glenn Wade

The Receiver has been informed of and understands the responsibilities associated with the acceptance of this item(s).

Received by: [signature]

Date: 1.8.19

Delivered to Thomasville NC location #550

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOEL HOLDER
42672
INVALID UNLESS SIGNED

11:34am 01/08/2019
215 ID. NO.
29460 lb GR

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #7
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont. Soil	Waste Origination: Leaking UST
Truck #: 24	Gross Weight:
	Tare Weight: 1:21pm 01/08/2019 215 ID. NO.
	Net Weight: 29460 lb GR GROSS: 1480 lb TR
	27980 lb NT

27.99 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trey Greene for Greene Agent for Lacy Dudley Estate, 01/08/19

Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: _____

Drivers Signature Date

Noted Discrepancies: _____

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Franklin Hall Date: 1-8-19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2010
JOE F. HOLDER 42877
INVALID UNLESS SIGNED

12:41pm 01/08/2019
217 TR. NO.
70700 lb GR

Delivered to Thomasville NC Location #550

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: # 2
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 5	Gross Weight:
	Tare Weight: 12:05pm 01/08/2019 217 TR. NO.
	Net Weight: 70700 lb GR REDAL 25380 lb TR 45320 lb NT

22.66 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trov Greene for Greene Agent for Lacy Dudley Estate 01/08/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: [signature] 1-8-19
Drivers Signature Date

Noted Discrepancies: _____

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Frank Hold Date: 1-8-19

Delivered to Thomasville NC
$550.00

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOE F. HOLDER 42672
INVALID UNLESS SIGNED

01/08/2019
216 ID. NO.
74450 16 GR

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #3
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 27	Gross Weight:
	Tare Weight: 01/08/2019 216 ID. NO.
	Net Weight: 24.33 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Terry Shane for Grace Agent for Lacy Dudley Estate 01/08/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Susan McKee
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Frank Hall Date: 1-8-19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOE F. HOLDER 42672
INVALID UNLESS SIGNED

Delivered to Thomasville NC Location $550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #4
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 5	Gross Weight:
	Tare Weight: 06:26pm 01/08/2019 117 ID. NO.
	Net Weight: 56940 lb GR 25380 lb TR REGAL 31560 lb NT

15.78 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trey Hearn for Greene agent for Lacy Dudley Estate 01/08/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Talbot
Drivers Signature Date

Noted Discrepancies: _____

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Franklin Holder Date: 1-8-19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOE F. NOLDEN 42672
INVALID UNLESS SIGNED

Delivered to Thomasville NC
$550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #5
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 27	Gross Weight:
	Tare Weight: 05:22pm 01/08/2019 216 lb. 1bs.
	Net Weight: 25820 lb GR 25820 lb TR REDACTED 4240 lb NT

21.27 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trev Greene for Greene Agent for Lacy Dudley Estate 01/08/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Lisa M Miller
Drivers Signature Date

Noted Discrepancies: _____

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Franklin Hobbs Date: 1-8-19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOE F. HOLDER 42672
INVALID UNLESS SIGNED

Delivered to Thomasville NC @ 550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #6
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 24	Gross Weight: 01/10/2019
	Tare Weight: 215 lb. 10. 50480 lb GR
	Net Weight: 47000 lb NT
	23.50 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trav Hunter for Greene Agent for Lacy Dudley Estate 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: 1/10/2019
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Date: 1/10/19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOE F. HOLDER 42672
INVALID UNLESS SIGNED

11:43am 01/10/2019
220 IN- NO-
97460 LB GR

Delivered to
Thomasville NC
$550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #7
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 33	Gross Weight:
	Tare Weight:
	Net Weight:
	29.07 tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Ken Greene for Greene Agent for Lacy Dudley Estate 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: K Clement 1-10-19
Drivers Signature Date

Noted Discrepancies: _____

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Franklin Holder Date: 1-10-19

SSH

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

AES

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOHN GODFREY 42673
INVALID UNLESS SIGNED

Delivered to Thomasville NC
$550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #8
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 5	Gross Weight: 02:55pm 01/14/2019 [illegible] 37720 lb GR [illegible] lb TR REMOVAL
	Tare Weight:
	Net Weight: 38340 lb NT
	19.17 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trey Greene for Greene Agent for Lamy Dudley Estate 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Bob Moore
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Josh Godfrey Date: 1-14-19

JSH

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

AES

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2010
JOHN GODFREY 42678
INVALID UNLESS SIGNED

Delivered to Thomasville NC
$550

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: #9
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblisburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 27	Gross Weight: 03:45PM 01/14/2019 216 LB. NO. 56320 lb GR
	Tare Weight: 15800 lb TR REGRO
	Net Weight: 40500 lb NT
	20.25 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trevor Gray for Greene Agent for Lacy Dudley Estate 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: [signature]
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: John Godfrey Date: 1-14-19

JSH AES

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2018
JOHN GODFREY 42673
INVALID UNLESS SIGNED

#550 Delivered to Thomasville NC

01/14/2019

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: 10
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: ~~27~~ 30	Gross Weight: 01/14/2019
3841 Cunningham rd	Tare Weight:
Thomasville, NC	Net Weight: 680 lb NT
	20.34 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Greene PM 1-10-19

Generator / Agent Signature — Title — Date

Acknowledgment of Receipt of Material: James 1-14-19

Drivers Signature — Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: John Godfrey Date: 1-14-19

AES

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOHN GODFREY 42673
INVALID UNLESS SIGNED

Delivered to Thomasville NC
@ 550 cy

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: 11
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 5	Gross Weight: 10:58AM 01/15/2019
	Tare Weight: 27 10. 16. 60060 lb GR
	Net Weight: 25330 lb IR 37680 lb NT
	21.84 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Greene PM 1-10-19

Generator / Agent Signature — Title — Date

Acknowledgment of Receipt of Material: Bob Hatfox

Drivers Signature — Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: _____ Date: 1-15-19

AES

15#

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 201
JOHN GODFREY 4257
INVALID UNLESS SIGNED

Delivered to Thomasville NC
550 ce

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1C04	Load Number: 12
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 27	Gross Weight: 10:52am 01/15/2019
	Tare Weight: [illegible] lb GR [illegible] lb TR [illegible] lb NT
	Net Weight:
	22.91 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trey Keller for Greene Agent for Lacy Dudley Estate 01/10/19

Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Lisa McM

Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: John Dee Date: 1-15-19

Delivered to Thomasville NC
$550.00

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOHN GODFREY 42673
INVALID UNLESS SIGNED

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: 13
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 527	Gross Weight: 04:42PM 01/15/2019 216 TO. NO.
	Tare Weight: 30780 lb GR 8320 lb TR REMAIL.
	Net Weight: 44460 lb NY
	22.44 Tons

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Tim Shore for Greene Agent for Lacy Dudley Estate 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Materials: [signature]
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: John Godfrey Date: 1-15-19

Earthtec of NC, Inc.
Post Office Box 130
Sanford, NC 27331
Phone #: 919-774-4517
Fax #: 919-774-6415

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 2019
JOHN GODFREY 42673
INVALID UNLESS SIGNED

Delivered to Thomasville NC $550.00

NON-HAZARDOUS WASTE MANIFEST

Project Number: CSVI1004	Load Number: 14
Consultant: Greene Environmental	Contact: O-540-483-3311 M-540-493-8738
Generator: Chamblissburg Supply	Contact: Phone:
Transporter: Hilltop Mulch	Contact: Phone
Destination: Earthtec Environmental, Inc 3145 Rosser Road, Bear Creek, NC 27207	Contact: Scott Keller Phone: 919-774-4517 or 919-770-4258
Waste Description: Gasoline & Diesel Fuel Cont.Soil	Waste Origination: Leaking UST
Truck #: 5	Gross Weight: 04:46pm 01/15/2019 217 lb. NG 6,900 lb GR 2,380 lb TR NET WEIGHT
	Tare Weight:
	Net Weight: 4,520 lb NT

Generator's Certification: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of HAZARDOUS WASTE.

Trav Greene for Greene Agent for Estate of Lacy Dudley 01/10/19
Generator / Agent Signature Title Date

Acknowledgment of Receipt of Material: Bob Moore
Drivers Signature Date

Noted Discrepancies:

Inspected & Accepted (except as noted above By: Earthtec Environmental, Inc.

Accepted By: Joe Sall Date: 1-15-19

Notification for Underground Storage Tanks (USTs)

Virginia DEQ Water Form 7530-3

(See last page for mailing instructions) (4/16)

STATE USE ONLY

ID Number	2007360
Date Received	
Date Entered	
Entered By	
Comments	

PART I: PURPOSE OF NOTIFICATION

✓ **Check all that apply:**

☐ New (not previously registered) facility	☐ Temporary closure	☐ New contact
☐ New tank(s) at previously registered facility	☑ Tank removal or closure in ground	☐ New owner
☐ Change in tanks (e.g., upgrade)	☑ Piping removal or closure in ground	☐ Change in owner address
☐ Change in piping (e.g., upgrade)	☐ Change in service/ tank contents	☐ Other (specify):

PART II: OWNERSHIP OF TANKS

A. Owner Name: Estate of Lacy F Dudley

B. Owner Address: 6338 Stonecroft Court

C. City, State, Zip: Roanoke, VA

D. Contact Person Name and Title: Mark Dudley

E. Phone Number: (540) 483-7883

F. Fax Number: ( )

G. E-mail Address: mark@dudleystruckstop.com

H. Name of Previous Owner (if applicable): Lacy F Dudley

PART III: LOCATION OF TANKS

A. Facility Name: Chamblissburg Supply

B. Facility Street Address (P.O. Box not acceptable): 10625 Stewartsville Road

C. City, Zip: Vinton, 24179

D. County or Municipality: Bedford County

E. Facility Contact Person Name & Title: N/A

F. Facility Phone Number: ( )

G. Facility Contact Phone Number: ( )

H. Facility Contact Fax Number: ( )

I. Facility Contact E-mail Address:

J. Previous Name of Facility (if applicable):

PART IV: TYPE OF OWNER

☐ Federal government	☑ Commercial
☐ State government	☐ Private
☐ Local government	☐ Lender

PART V: TYPE OF FACILITY

☑ Retail gas station	☐ Federal non-military	☐ Commercial (non-resale)	☐ Residence
☐ Petroleum distributer	☐ Federal military	☐ Industrial	☐ Farm
☐ Local government	☐ State government	☐ Other _____	

PART VI: FINANCIAL RESPONSIBILITY

The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms

☐ Self Insurance	☐ Insurance	☒ Letter of Credit	☐ Other (specify):
☐ Guarantee	☐ Surety Bond	☐ Trust Fund	

PART VII: OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 VAC 25-580-10 et seq. and Federal Regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner or that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.

MARK F. DUDLEY EXECUTOR	[signature]	2 / 6 / 19
Name and Title (Type or Print)	Signature	Date

PART VIII: INSTALLER CERTIFICATION

I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.

Name and Title (Type or Print)	Signature	Date / /
Company Name	Address	( ) Telephone Number

PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES Check all that apply

Owner Tank Identification Number	3		4		5		6			
DEQ Tank Identification Number										
Tank Status	☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☑ Closure	
Date of Tank Installation (MM/DD/YYYY)	04/22/1978		04/22/1978		04/22/1978		04/22/1978			
Date of Pipe Installation (MM/DD/YYYY)										
Date of Amendment (MM/DD/YYYY)										
Tank Capacity (Gallons) (Compartments of a compartment tank are considered to be separate tanks and should be registered and treated as such.)	4000		5000		6000		5000			
Material of Construction (✓ all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Fiberglass Reinforced Plastic	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐
Double Walled	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Polyflexible		☐		☐		☐		☐		☐
Coated and Cathodically Protected/sti-P3®	☐		☐		☐		☐		☐	
Composite (Steel Clad with Fiberglass)/ ACT-100®/ACT-100U®	☐		☐		☐		☐		☐	
Polyethylene Tank Jacket	☐		☐		☐		☐		☐	
Lined Interior	☐		☐		☐		☐		☐	
Impressed Current System	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐
Asphalt Coated or Bare Steel	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐
Galvanized Steel		☑		☑		☑		☑		☐
Cathodically Protected Steel		☐		☐		☐		☐		☐
Copper		☐		☐		☐		☐		☐
Excavation Liner	☐		☐		☐		☐		☐	
Concrete	☐		☐		☐		☐		☐	
Other (specify)										
Has tank/piping been repaired?	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Metal Piping Flex Connectors Installed		☐		☐		☐		☐		☐
Metal Flex Connectors Isolated/Booted		☐		☐		☐		☐		☐
Metal Flex Connectors Cathodic Protected		☐		☐		☐		☐		☐
Piping Type	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Safe Suction (No Check Valve at Tank)		☑		☑		☑		☑		☐
U.S. Suction (Check Valve at Tank)		☐		☐		☐		☐		☐
Pressure		☐		☐		☐		☐		☐
Gravity Fed		☐		☐		☐		☐		☐
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Manual Tank Gauging	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tightness Testing	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐
Inventory Control	☑		☑		☑		☑		☐	
Automatic Tank Gauging	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐
Vapor Monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater Monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial Monitoring Double Walled	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial Monitoring Secondary Containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Automatic Line Leak Detectors		☐		☐		☐		☐		☐
Statistical Inventory Reconciliation	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Other (specify)										

PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES (continued)

Spill Containment & Overfill Prevention	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Spill Containment/Bucket	✓		✓		✓		✓		☐	
Overfill Automatic Shutoff	✓		✓		✓		✓		☐	
Overfill Alarm	☐		☐		☐		☐		☐	
Overfill Ball Float Valve	☐		☐		☐		☐		☐	

Substance stored					
Gasoline (Regular)	☐	☐	✓	✓	☐
Gasoline (Mid-Grade)	✓	☐	☐	☐	☐
Gasoline (Premium)	☐	✓	☐	☐	☐
Gasoline (Racing)	☐	☐	☐	☐	☐
Diesel (On Road)	☐	☐	☐	☐	☐
Diesel (Off Road)	☐	☐	☐	☐	☐
Diesel (Low Sulfur)	☐	☐	☐	☐	☐
Diesel (Ultra Low Sulfur)	☐	☐	☐	☐	☐
Kerosene (Clear)	☐	☐	☐	☐	☐
Kerosene (Dyed)	☐	☐	☐	☐	☐
Heating Oil	☐	☐	☐	☐	☐
Fuel Oil #2	☐	☐	☐	☐	☐
Fuel Oil #4	☐	☐	☐	☐	☐
Fuel Oil #6	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Motor Oil	☐	☐	☐	☐	☐
Lube Oil	☐	☐	☐	☐	☐
Hydraulic Oil	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐
Gasoline (Aviation Gas)	☐	☐	☐	☐	☐
Diesel (Biodiesel)	☐	☐	☐	☐	☐
Hazardous Substance (specify below)	☐	☐	☐	☐	☐
Other (specify)					
Tank Used Solely to Generate Emergency Power	☐	☐	☐	☐	☐

PART X: TANK CLOSURE, REMOVAL OR CHANGE IN SERVICE

Tank and Piping Status	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Removal	✓	✓	✓	✓	✓	✓	✓	✓	☐	☐
Closed In Ground	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Filled with Inert Material (Required for Closure in Ground)	☐		☐		☐		☐		☐	
Description of Inert Material										
Temporarily Closed Tank Empty (1" or less of product remaining in tank)	☐		☐		☐		☐		☐	
Temporarily Closed Tank Not Empty (More than 1" of product remaining in tank)	☐		☐		☐		☐		☐	
Change in Service	☐		☐		☐		☐		☐	
Date Last Used (MM/DD/YYYY)										
Date Closed (MM/DD/YYYY)	01/07/2019		01/07/2019		01/07/2019		01/07/2019			
Closure Assessment Completed (Please submit site map, soil sampling results, chain of custody for all samples, copy of building permit, and disposal manifest with this form).	☑ Yes ☐ No		☑ Yes ☐ No		☑ Yes ☐ No		☑ Yes ☐ No		☐ Yes ☑ No	
Evidence of a Leak Detected	☑ Yes ☐ No		☑ Yes ☐ No		☑ Yes ☐ No		☑ Yes ☐ No		☐ Yes ☑ No	

Comments: The release from the gasoline USTs is being addressed under PC 2017-2298.

Notification for Underground Storage Tanks (USTs)

Virginia DEQ Water Form 7530-3

(See last page for mailing instructions) (4/16)

STATE USE ONLY

ID Number	2007360
Date Received	
Date Entered	
Entered By	
Comments	

PART I: PURPOSE OF NOTIFICATION

✓ **Check all that apply:**

☐ New (not previously registered) facility	☐ Temporary closure	☐ New contact
☐ New tank(s) at previously registered facility	☑ Tank removal or closure in ground	☐ New owner
☐ Change in tanks (e.g., upgrade)	☑ Piping removal or closure in ground	☐ Change in owner address
☐ Change in piping (e.g., upgrade)	☐ Change in service/ tank contents	☐ Other (specify):

PART II: OWNERSHIP OF TANKS

A. Owner Name: Estate of Lacy F Dudley

B. Owner Address: 6338 Stonecroft Court

C. City, State, Zip: Roanoke, VA

D. Contact Person Name and Title: Mark Dudley

E. Phone Number: (540) 483-7883

F. Fax Number: ( )

G. E-mail Address: mark@dudleystruckstop.com

H. Name of Previous Owner (if applicable): Lacy F Dudley

PART III: LOCATION OF TANKS

A. Facility Name: Chamblissburg Supply

B. Facility Street Address (P.O. Box not acceptable): 10625 Stewartsville Road

C. City, Zip: Vinton, 24179

D. County or Municipality: Bedford County

E. Facility Contact Person Name & Title: N/A

F. Facility Phone Number: ( )

G. Facility Contact Phone Number: ( )

H. Facility Contact Fax Number: ( )

I. Facility Contact E-mail Address:

J. Previous Name of Facility (if applicable):

PART IV: TYPE OF OWNER

☐ Federal government	☑ Commercial
☐ State government	☐ Private
☐ Local government	☐ Lender

PART V: TYPE OF FACILITY

☑ Retail gas station	☐ Federal non-military	☐ Commercial (non-resale)	☐ Residence
☐ Petroleum distributer	☐ Federal military	☐ Industrial	☐ Farm
☐ Local government	☐ State government	☐ Other _____	

PART VI: FINANCIAL RESPONSIBILITY

The tank owner has met the financial responsibility requirements contained in 9 VAC 25-590-10 et seq. using the following methods/mechanisms

☐ Self Insurance	☐ Insurance	☒ Letter of Credit	☐ Other (specify):
☐ Guarantee	☐ Surety Bond	☐ Trust Fund	

PART VII: OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I understand that the owner of the underground storage tanks hereby registered is responsible for compliance with the requirements of Virginia Regulations 9 VAC 25-580-10 et seq. and Federal Regulation 40 CFR Part 280, among other requirements. I warrant and represent that I am the owner or that I have the authority to sign this certification on behalf of the owner. I understand that this notification form is sufficient evidence to establish ownership of tanks subject to 9 VAC 25-580-10 et seq.

MARK F. DUDLEY EXECUTOR	[signature]	2 / 6 / 19
Name and Title (Type or Print)	Signature	Date

PART VIII: INSTALLER CERTIFICATION

I certify that the installation of this tank was performed in accordance with all federal, state and local installation requirements. I warrant and represent that I am the installer or that I have the authority to sign this certification on behalf of the installer.

Name and Title (Type or Print)	Signature	Date / /
Company Name	Address	( ) Telephone Number

PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES Check all that apply

Owner Tank Identification Number	1		2							
DEQ Tank Identification Number										
Tank Status	☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☑ Closure		☐ New Tank ☐ Amendment ☐ Closure		☐ New Tank ☐ Amendment ☐ Closure		☐ New Tank ☐ Amendment ☐ Closure	
Date of Tank Installation (MM/DD/YYYY)	04/22/1978		04/22/1978							
Date of Pipe Installation (MM/DD/YYYY)										
Date of Amendment (MM/DD/YYYY)										
Tank Capacity (Gallons) (Compartments of a compartment tank are considered to be separate tanks and should be registered and treated as such.)	1000		1000							
Material of Construction (✓ all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
Double Walled	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Polyflexible		☐		☐		☐		☐		☐
Coated and Cathodically Protected/sti-P3®	☐		☐		☐		☐		☐	
Composite (Steel Clad with Fiberglass)/ ACT-100®/ACT-100U®	☐		☐		☐		☐		☐	
Polyethylene Tank Jacket	☐		☐		☐		☐		☐	
Lined Interior	☐		☐		☐		☐		☐	
Impressed Current System	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐
Asphalt Coated or Bare Steel	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐
Galvanized Steel		☑		☑		☐		☐		☐
Cathodically Protected Steel		☐		☐		☐		☐		☐
Copper		☐		☐		☐		☐		☐
Excavation Liner	☐		☐		☐		☐		☐	
Concrete	☐		☐		☐		☐		☐	
Other (specify)										
Has tank/piping been repaired?	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Metal Piping Flex Connectors Installed		☐		☐		☐		☐		☐
Metal Flex Connectors Isolated/Booted		☐		☐		☐		☐		☐
Metal Flex Connectors Cathodic Protected		☐		☐		☐		☐		☐
Piping Type	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Safe Suction (No Check Valve at Tank)		☑		☑		☐		☐		☐
U.S. Suction (Check Valve at Tank)		☐		☐		☐		☐		☐
Pressure		☐		☐		☐		☐		☐
Gravity Fed		☐		☐		☐		☐		☐
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Manual Tank Gauging	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tightness Testing	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐
Inventory Control	☑		☑		☐		☐		☐	
Automatic Tank Gauging	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐
Vapor Monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Groundwater Monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial Monitoring Double Walled	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Interstitial Monitoring Secondary Containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Automatic Line Leak Detectors		☐		☐		☐		☐		☐
Statistical Inventory Reconciliation	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Other (specify)										

PART IX: DESCRIPTION FOR NEW INSTALLATIONS, AMENDMENTS & CLOSURES (continued)

Spill Containment & Overfill Prevention	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Spill Containment/Bucket	☑		☑		☐		☐		☐	
Overfill Automatic Shutoff	☑		☑		☐		☐		☐	
Overfill Alarm	☐		☐		☐		☐		☐	
Overfill Ball Float Valve	☐		☐		☐		☐		☐	

Substance stored					
Gasoline (Regular)	☐	☐	☐	☐	☐
Gasoline (Mid-Grade)	☐	☐	☐	☐	☐
Gasoline (Premium)	☐	☐	☐	☐	☐
Gasoline (Racing)	☐	☐	☐	☐	☐
Diesel (On Road)	☐	☑	☐	☐	☐
Diesel (Off Road)	☐	☐	☐	☐	☐
Diesel (Low Sulfur)	☐	☐	☐	☐	☐
Diesel (Ultra Low Sulfur)	☐	☐	☐	☐	☐
Kerosene (Clear)	☐	☐	☐	☐	☐
Kerosene (Dyed)	☑	☐	☐	☐	☐
Heating Oil	☐	☐	☐	☐	☐
Fuel Oil #2	☐	☐	☐	☐	☐
Fuel Oil #4	☐	☐	☐	☐	☐
Fuel Oil #6	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Motor Oil	☐	☐	☐	☐	☐
Lube Oil	☐	☐	☐	☐	☐
Hydraulic Oil	☐	☐	☐	☐	☐
Jet Fuel	☐	☐	☐	☐	☐
Gasoline (Aviation Gas)	☐	☐	☐	☐	☐
Diesel (Biodiesel)	☐	☐	☐	☐	☐
Hazardous Substance (specify below)	☐	☐	☐	☐	☐
Other (specify)					
Tank Used Solely to Generate Emergency Power	☐	☐	☐	☐	☐

PART X: TANK CLOSURE, REMOVAL OR CHANGE IN SERVICE

Tank and Piping Status	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Removal	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐
Closed In Ground	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Filled with Inert Material (Required for Closure in Ground)	☐		☐		☐		☐		☐	
Description of Inert Material										
Temporarily Closed Tank Empty (1" or less of product remaining in tank)	☐		☐		☐		☐		☐	
Temporarily Closed Tank Not Empty (More than 1" of product remaining in tank)	☐		☐		☐		☐		☐	
Change in Service	☐		☐		☐		☐		☐	
Date Last Used (MM/DD/YYYY)										
Date Closed (MM/DD/YYYY)	01/07/2019		01/07/2019							
Closure Assessment Completed (Please submit site map, soil sampling results, chain of custody for all samples, copy of building permit, and disposal manifest with this form).	☑ Yes ☐ No		☑ Yes ☐ No		☐ Yes ☑ No		☐ Yes ☑ No		☐ Yes ☑ No	
Evidence of a Leak Detected	☑ Yes ☐ No		☑ Yes ☐ No		☐ Yes ☑ No		☐ Yes ☑ No		☐ Yes ☑ No	

Comments: The kerosene and diesel fuel USTs were located in an isolated UST basin and the associated release was confirmed during during RP elected UST Closure activities. The release was witnessed onsite by DEQ Officials 01/07/19 although the release reporting form was not submitted until 12/20/19

APPENDIX I

Photographic Documentation

View of a hydraulic breaker being utilized at the shared kerosene and diesel fuel UST basin.

View of a large excavator removing the concrete apron above the shared kerosene and diesel fuel UST basin.

View of the concrete being loaded into a PRS dump truck for transport and disposal.

View of the shared kerosene and diesel fuel UST basin subsequent to removing the concrete apron, dispensers, and dispenser island.

View of the kerosene and diesel fuel USTs during removal of clean and impacted overburden.

Additional view of clean and impacted overburden being removed from the shared kerosene and diesel fuel UST basin.

View of the kerosene and diesel fuel USTs subsequent to removing the overburden.

View of the diesel fuel UST subsequent to being removed from the ground.

View of a small hole located on top of the diesel fuel UST. Inspection of the diesel fuel tank (UST #2) yielded evidence of pitting, corrosion, and the one (1) identified hole.

View of a large excavator removing the kerosene UST (UST #1) from the ground. Inspection of UST #1 yielded evidence of pitting and corrosion; however, no obvious holes were observed.

View of the shared kerosene and diesel fuel UST basin subsequent to removing the USTs.

View of a large excavator removing impacted material from the shared diesel fuel and kerosene UST basin/dispenser location.

View of the kerosene and diesel fuel excavation basin subsequent to backfilling with clean overburden and #57 stone.

View of the kerosene and diesel fuel excavation basin subsequent to completing backfilling activities with #21A pugmill material.

View of the gasoline UST dispenser island during removal of the dispensers to allow for UST closure.

View of a hydraulic breaker being utilized at the gasoline UST system basin.

View of the gasoline UST system basin subsequent to removal of the concrete apron.

View of a large excavator removing overburden from above UST #3.

View of UST #3 and UST #5 during removal of the overburden material.

Additional view of UST #3 and UST #5 during removal of the overburden material.

View of the large excavator subsequent to removing UST #3 from the ground. Inspection of UST #3 yielded pitting and corrosion; however, no obvious holes were observed.

View of the large excavator removing UST #5 from the ground. Inspection of UST #5 yielded pitting and corrosion; however, no obvious holes were observed.

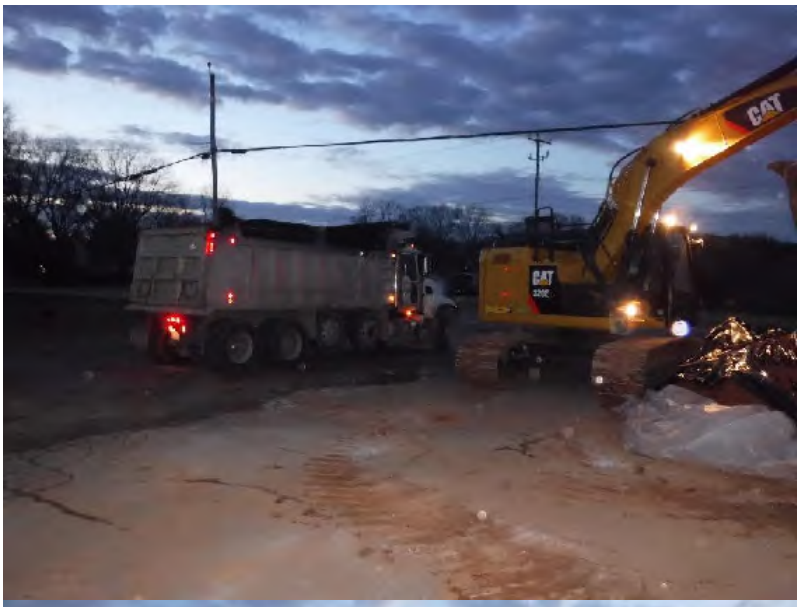
View of the large excavator being utilized to removed UST #6 from the ground. Inspection of UST #6 yielded pitting and corrosion; however, no obvious holes were observed.

View of the large excavator being utilized to removed UST #4 from the ground. Inspection of UST #4 yielded pitting and corrosion; however, no obvious holes were observed.

View of the gasoline UST basin subsequent to removing the USTs from the ground.

View of UST #5 being loaded onto a PRS trailer for transport and disposal.

View of UST #6 being loaded onto a PRS trailer for transport and disposal.



View of previously stockpiled impacted material being loaded into a Hilltop dump truck for transport and disposal.

Additional view of previously stockpiled impacted material being loaded into a Hilltop dump truck for transport and disposal.

Additional view of previously stockpiled impacted material being loaded for transport and disposal.

View of impacted material located beneath the former dispenser island being loaded into a Hilltop dump truck for transport and disposal.

Additional view of impacted material located beneath the former dispenser island being loaded for transport and disposal.

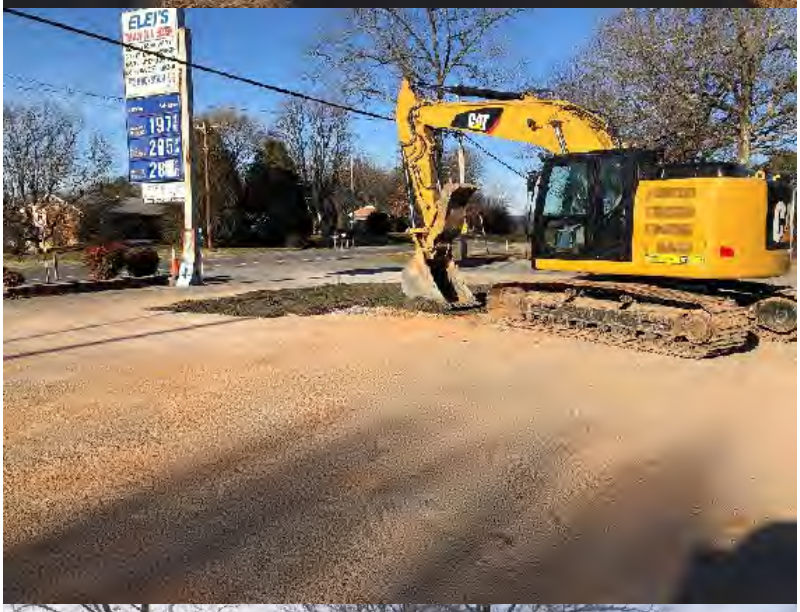
Additional view of impacted material located beneath the former dispenser island being removed for transport and disposal.

View of a bacterial consortium being applied to the gasoline dispenser excavation area.

View of #57 stone being utilized to backfill the gasoline dispenser excavation. In addition, two 6-inch PVC well casings have been installed.

View of the former shared gasoline UST basin subsequent to completing backfilling activities with #57 stone.

Additional view of the gasoline excavation area subsequent to completing backfilling activities with #57 stone.



View of #21A pugmill material being utilized to complete backfilling activities.

View of the MW04 well cover and concrete pad following replacement.