

GW-SW Sampling To Support EMPs Data vs MD LRP GW Screening Criteria
Quantum Loophole
Frederick, Maryland
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Client Name: Tetra Tech, Inc. - Germantown Lab: Eurofins Lancaster																										
Specific Method	CAS#	Matrix	Analyte	Results Basis	MD LRP Cleanup Sds, Tbl 1, GWs Aquifers, Oct2018	410-165229-1 QL-DA11-SW-20240325			410-165229-2 QL-DW-SW-20240325			410-165398-1 QL-MW-60-GW-032624			410-165398-2 QL-MW-52-GW-032624			410-165398-3 QL-GE1-11-20240326			410-165398-4 QL-GE1-14-20240326			410-165398-5 QL-GE1-14-20240326		
						Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier
218.6, Pres. O	18540-29-9	Water	Cr (VI)	Dissolved	0.035	<5.0	ug/L		<5.0	ug/L		<5.0	ug/L		<5.0	ug/L		<5.0	ug/L		<5.0	ug/L		<5.0	ug/L	
60208	7429-90-5	Water	Aluminum	Dissolved	2000	13	ug/L	J	23	ug/L	J	<12	ug/L		<12	ug/L		<12	ug/L		<12	ug/L		<12	ug/L	
60208	7439-89-6	Water	Iron	Dissolved	1400	45	ug/L	J	59	ug/L	J	25	ug/L	J	40	ug/L	J	26	ug/L	J	22	ug/L	J	<20	ug/L	
60208	7439-92-1	Water	Lead	Dissolved	15	0.14	ug/L	J	0.20	ug/L	J	<0.12	ug/L		<0.12	ug/L		0.14	ug/L	J	0.14	ug/L	J	0.19	ug/L	J
60208	7439-95-4	Water	Magnesium	Dissolved		2500	ug/L		6400	ug/L		16000	ug/L		7900	ug/L		12000	ug/L		9800	ug/L		5600	ug/L	
60208	7439-96-5	Water	Manganese	Dissolved	43	3.6	ug/L		7.1	ug/L		<0.95	ug/L		<0.95	ug/L		7.3	ug/L		12	ug/L		410	ug/L	
60208	7440-02-0	Water	Nickel	Dissolved	39	0.43	ug/L	J	<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		1.2	ug/L		0.62	ug/L	J	<0.40	ug/L	
60208	7440-09-7	Water	Potassium	Dissolved		1800	ug/L		2200	ug/L		1200	ug/L		1600	ug/L		1900	ug/L		1900	ug/L		1400	ug/L	
60208	7440-22-4	Water	Silver	Dissolved	9.4	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
60208	7440-23-5	Water	Sodium	Dissolved		3200	ug/L	*2	10000	ug/L	*2	79000	ug/L		94000	ug/L		13000	ug/L		9400	ug/L		9700	ug/L	
60208	7440-28-0	Water	Thallium	Dissolved	2	<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L	
60208	7440-36-0	Water	Antimony	Dissolved	6	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		0.39	ug/L	J	<0.20	ug/L		<0.20	ug/L	
60208	7440-38-2	Water	Arsenic	Dissolved	10	<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L	
60208	7440-39-3	Water	Barium	Dissolved	2000	9.4	ug/L		19	ug/L		43	ug/L		36	ug/L		39	ug/L		50	ug/L		22	ug/L	
60208	7440-41-7	Water	Beryllium	Dissolved	4	<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L	
60208	7440-43-9	Water	Cadmium	Dissolved	5	<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L	
60208	7440-47-3	Water	Chromium	Dissolved	100	<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		1.1	ug/L	J	<0.55	ug/L		<0.55	ug/L		<0.55	ug/L	
60208	7440-48-4	Water	Cobalt	Dissolved		<0.16	ug/L		0.18	ug/L	J	0.30	ug/L	J	0.40	ug/L	J	<0.16	ug/L		0.33	ug/L	J	0.77	ug/L	
60208	7440-50-8	Water	Copper	Dissolved	1300	1.8	ug/L		2.8	ug/L		<0.36	ug/L		<0.36	ug/L		2.1	ug/L		2.0	ug/L		1.1	ug/L	
60208	7440-62-2	Water	Vanadium	Dissolved	8.6	<0.79	ug/L		<0.79	ug/L		<0.79	ug/L		<0.79	ug/L		<0.79	ug/L		<0.79	ug/L		<0.79	ug/L	
60208	7440-66-6	Water	Zinc	Dissolved	600	7.1	ug/L	J B	7.6	ug/L	J B	<4.0	ug/L		<4.0	ug/L		5.0	ug/L	J	4.1	ug/L	J	<4.0	ug/L	
60208	7440-70-2	Water	Calcium	Dissolved		22000	ug/L	*2	38000	ug/L	*2	72000	ug/L		70000	ug/L		87000	ug/L		91000	ug/L		84000	ug/L	*3+
60208	7782-49-2	Water	Selenium	Dissolved	50	<0.28	ug/L		<0.28	ug/L		0.47	ug/L	J	0.72	ug/L	J	0.30	ug/L	J	<0.28	ug/L		<0.28	ug/L	
7470A	7439-97-6	Water	Mercury	Dissolved	2	<0.079	ug/L		0.10	ug/L	J	<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L	
1677, Free	N/A	Water	Cyanide, Free	Total		<0.0050	mg/L	F1	<0.0050	mg/L		<0.0050	mg/L		0.010	mg/L		<0.0050	mg/L		<0.0050	mg/L		<0.0050	mg/L	
300, DRGFM	16984-48-8	Water	Fluoride	Total		0.58	mg/L	J	0.68	mg/L	J	2.4	mg/L		<0.45	mg/L	F1	0.23	mg/L		0.30	mg/L		0.18	mg/L	J
7470A	7439-97-6	Water	Mercury	Total	2	<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L		<0.079	ug/L	
8015D DRO	N/A	Water	DRO (C10-C28)	Total	47	<46	ug/L		<46	ug/L		<45	ug/L	*+ *1	<45	ug/L	*+ *1	<47	ug/L	*+ *1	<46	ug/L	*+ *1	<47	ug/L	*+ *1
8015D GRO	N/A	Water	GRO	Total	47	<23	ug/L		<23	ug/L		<23	ug/L		<23	ug/L		<23	ug/L		<23	ug/L		<23	ug/L	
8081B	1024-57-3	Water	Heptachlor epoxide	Total	0.2	<0.0024	ug/L		<0.0024	ug/L		<0.0023	ug/L		<0.0023	ug/L		<0.0023	ug/L		<0.0024	ug/L		<0.0024	ug/L	
8081B	1031-07-8	Water	Endosulfan sulfate	Total		<0.0061	ug/L		<0.0060	ug/L		<0.0059	ug/L		<0.0059	ug/L		<0.0059	ug/L		<0.0061	ug/L		<0.0060	ug/L	
8081B	309-00-2	Water	Aldrin	Total	0.0092	<0.0021	ug/L		<0.0021	ug/L		<0.0020	ug/L		<0.0020	ug/L		<0.0021	ug/L		<0.0021	ug/L		<0.0021	ug/L	
8081B	319-84-6	Water	alpha-BHC	Total	0.0072	<0.0031	ug/L		<0.0031	ug/L		<0.0031	ug/L		<0.0030	ug/L		<0.0030	ug/L		<0.0032	ug/L		<0.0031	ug/L	
8081B	319-85-7	Water	beta-BHC	Total	0.025	<0.012	ug/L		<0.011	ug/L		<0.011	ug/L		<0.011	ug/L		<0.011	ug/L		<0.012	ug/L		<0.011	ug/L	
8081B	319-86-8	Water	delta-BHC	Total		<0.0036	ug/L		<0.0035	ug/L		<0.0035	ug/L		<0.0034	ug/L		<0.0035	ug/L		<0.0036	ug/L		<0.0035	ug/L	
8081B	33213-65-9	Water	Endosulfan II	Total		<0.016	ug/L		<0.016	ug/L		<0.015	ug/L		<0.015	ug/L		<0.015	ug/L		<0.016	ug/L		<0.015	ug/L	
8081B	50-29-3	Water	p,p'-DDT	Total	0.23	<0.0054	ug/L		<0.0054	ug/L		<0.0053	ug/L		<0.0053	ug/L		<0.0053	ug/L		<0.0055	ug/L		<0.0054	ug/L	
8081B	5103-71-9	Water	alpha-Chlordane	Total		<0.0031	ug/L		<0.0031	ug/L		<0.0031	ug/L		<0.0030	ug/L		<0.0030	ug/L		<0.0032	ug/L		<0.0031	ug/L	
8081B	5103-74-2	Water	gamma-Chlordane	Total		<0.0073	ug/L		<0.0072	ug/L		<0.0071	ug/L		<0.0071	ug/L		<0.0071	ug/L		<0.0074	ug/L		<0.0072	ug/L	
8081B	53494-70-5	Water	Endrin ketone	Total		<0.0052	ug/L		<0.0052	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0053	ug/L		<0.0052	ug/L	
8081B	58-89-9	Water	gamma-BHC (Lindane)	Total	0.2	<0.0021	ug/L		<0.0021	ug/L		<0.0020	ug/L		<0.0020	ug/L		<0.0020	ug/L		<0.0021	ug/L		<0.0021	ug/L	
8081B	60-57-1	Water	Dieldrin	Total	0.0018	<0.0055	ug/L		<0.0055	ug/L		<0.0054	ug/L		<0.0054	ug/L		<0.0056	ug/L		<0.0056	ug/L		<0.0055	ug/L	
8081B	72-20-8	Water	Endrin	Total	2	<0.0085	ug/L		<0.0084	ug/L		<0.0083	ug/L		<0.0082	ug/L		<0.0082	ug/L		<0.0085	ug/L		<0.0084	ug/L	
8081B	72-43-5	Water	Methoxychlor	Total	40	<0.031	ug/L		<0.031	ug/L		<0.031	ug/L		<0.030	ug/L		<0.030	ug/L		<0.032	ug/L		<0.031	ug/L	
8081B	72-54-8	Water	p,p'-DDD	Total	0.0063	<0.0052	ug/L		<0.0052	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0053	ug/L		<0.0052	ug/L	
8081B	72-55-9	Water	p,p'-DDE	Total	0.046	<0.0052	ug/L		<0.0052	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0051	ug/L		<0.0053	ug/L		<0.0052	ug/L	
8081B	7421-93-4	Water	Endrin aldehyde	Total		<0.021	ug/L		<0.021	ug/L		<0.020	ug/L		<0.020	ug/L		<0.020	ug/L		<0.021	ug/L		<0.021	ug/L	
8081B	76-44-8	Water	Heptachlor	Total	0.4	<0.0021	ug/L		<0.0021	ug/L		<0.0020	ug/L		<0.0020	ug/L		<0.0020	ug/L		<0.0021	ug/L		<0.0021	ug/L	
8081B	8001-35-2	Water	Toxaphene	Total	3	<0.31	ug/L		<0.31	ug/L		<0.31	ug/L		<0.30	ug/L		<0.30	ug/L		<0.32	ug/L		<0.31	ug/L	
8081B	959-98-8	Water	Endosulfan I	Total		<0.0045	ug/L		<0.0045	ug/L		<0.0044	ug/L		<0.0044	ug/L		<0.0044	ug/L		<0.0045	ug/L		<0.0044	ug/L	

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Client Name: Tetra Tech, Inc. - Germantown Lab: Eurofins Lancaster																												
Specific Method	CAS#	Matrix	Analyte	Results Basis	MD LRP Cleanup Std, Tbl 1_GWs Aquifers_Oct2015	410-165229-3 QL-DA11-SW-20240325			410-165229-2 QL-DA2-SW-20240325			410-165398-1 QL-MW-60-GW-032624			410-165398-2 QL-MW-52-GW-032624			410-165398-3 QL-GE1-07-20240326			410-165398-4 QL-GE1-11-20240326			410-165398-5 QL-GE1-14-20240326				
						Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units
8082A	11096-82-5	Water	PCB-1260	Total	0.0078	<0.082	ug/L		<0.081	ug/L		<0.080	ug/L		<0.079	ug/L		<0.079	ug/L		<0.082	ug/L		<0.080	ug/L		<0.080	ug/L
8082A	11097-69-1	Water	PCB-1254	Total	0.0078	<0.082	ug/L		<0.081	ug/L		<0.080	ug/L		<0.079	ug/L		<0.079	ug/L		<0.082	ug/L		<0.080	ug/L		<0.080	ug/L
8082A	11104-28-2	Water	PCB-1221	Total	0.0047	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L
8082A	11141-16-5	Water	PCB-1232	Total	0.0047	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L
8082A	12672-29-6	Water	PCB-1248	Total		<0.082	ug/L		<0.081	ug/L		<0.080	ug/L		<0.079	ug/L		<0.079	ug/L		<0.082	ug/L		<0.080	ug/L		<0.080	ug/L
8082A	12674-11-2	Water	PCB-1015	Total	0.14	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L
8082A	53469-21-9	Water	PCB-1242	Total	0.0078	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L
8151A	120-36-5	Water	Dichlorprop	Total		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.16	ug/L		<0.15	ug/L		<0.15	ug/L
8151A	1918-00-9	Water	Dicamba	Total		<0.26	ug/L		<0.25	ug/L		<0.26	ug/L		<0.26	ug/L		<0.26	ug/L		<0.27	ug/L		<0.26	ug/L		<0.26	ug/L
8151A	75-99-0	Water	Dalapon	Total	200	<5.4	ug/L		<5.4	ug/L		<5.5	ug/L		<5.4	ug/L		<5.5	ug/L		<5.7	ug/L		<5.5	ug/L		<5.5	ug/L
8151A	87-86-5	Water	Pentachlorophenol	Total	1	<0.026	ug/L		<0.025	ug/L		<0.026	ug/L		<0.026	ug/L		<0.026	ug/L		<0.027	ug/L		<0.026	ug/L		<0.026	ug/L
8151A	88-85-7	Water	Dinoseb	Total	7	<0.27	ug/L		<0.26	ug/L		<0.27	ug/L		<0.26	ug/L		<0.27	ug/L		<0.28	ug/L		<0.27	ug/L		<0.27	ug/L
8151A	93-65-2	Water	MCP	Total	48	<0.67	ug/L		<0.67	ug/L		<0.68	ug/L		<0.67	ug/L		<0.68	ug/L		<0.69	ug/L		<0.68	ug/L		<0.68	ug/L
8151A	93-72-1	Water	Silvex (2,4,5-TP)	Total	50	<0.021	ug/L		<0.021	ug/L		<0.021	ug/L		<0.021	ug/L		<0.021	ug/L		<0.022	ug/L		<0.021	ug/L		<0.021	ug/L
8151A	93-76-5	Water	2,4,5-T	Total		<0.062	ug/L		<0.061	ug/L		<0.063	ug/L		<0.061	ug/L		<0.063	ug/L		<0.065	ug/L		<0.062	ug/L		<0.062	ug/L
8151A	94-74-6	Water	MCPA	Total		<48	ug/L		<47	ug/L		<48	ug/L		<47	ug/L		<48	ug/L		<50	ug/L		<48	ug/L		<48	ug/L
8151A	94-75-7	Water	2,4-D	Total	70	<0.24	ug/L		<0.24	ug/L		<0.24	ug/L		<0.24	ug/L		<0.24	ug/L		<0.24	ug/L		<0.24	ug/L		<0.24	ug/L
8151A	96-82-6	Water	2,4-DB	Total		<0.60	ug/L		<0.59	ug/L		<0.61	ug/L		<0.60	ug/L		<0.61	ug/L		<0.63	ug/L		<0.60	ug/L		<0.60	ug/L
82600	100-41-4	Water	Ethylbenzene	Total	700	<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L
82600	100-42-5	Water	Styrene	Total	100	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	10061-01-5	Water	cis-1,3-Dichloropropene	Total		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600	10061-02-6	Water	trans-1,3-Dichloropropene	Total		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600	106-46-7	Water	1,4-Dichlorobenzene	Total	75	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	106-53-4	Water	1,2-Dichloroethane	Total	0.05	<0.30	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600	107-06-2	Water	1,2-Dichloroethane	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	108-10-1	Water	4-Methyl-2-pentanone	Total	630	<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L
82600	108-87-2	Water	Methylcyclohexane	Total		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L
82600	108-88-3	Water	Toluene	Total	1000	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	108-90-7	Water	Chlorobenzene	Total	100	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	110-82-7	Water	Cyclohexane	Total		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L
82600	110-82-1	Water	1,2,4-Trichlorobenzene	Total	70	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	124-48-1	Water	Dibromochloromethane	Total	80	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		0.77	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600	127-18-4	Water	Tetrachloroethene	Total	5	<0.30	ug/L		<0.30	ug/L		1.9	ug/L		2.8	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	1330-20-7	Water	Xylenes, Total	Total	10000	<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		<0.40	ug/L
82600	156-59-2	Water	cis-1,2-Dichloroethene	Total	70	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	156-60-5	Water	trans-1,2-Dichloroethene	Total	100	<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L
82600	1634-04-4	Water	Methyl tertiary butyl ether	Total	20	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600	541-73-1	Water	1,3-Dichlorobenzene	Total		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L
82600	56-23-5	Water	Carbon tetrachloride	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	591-78-6	Water	2-Hexanone	Total		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L		<0.85	ug/L
82600	67-64-1	Water	Acetone	Total	1400	<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L		<0.70	ug/L
82600	67-66-3	Water	Chloroform	Total	80	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		6.7	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	71-43-2	Water	Benzene	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	71-55-6	Water	1,1,1-Trichloroethane	Total	200	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	74-83-9	Water	Bromomethane	Total	0.75	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	74-87-3	Water	Chloromethane	Total	19	<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		<0.55	ug/L		<0.55	ug/L
82600	75-00-3	Water	Chloroethane	Total	2100	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	75-01-4	Water	Vinyl chloride	Total	7	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	75-09-2	Water	Methylene Chloride	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	75-15-0	Water	Carbon disulfide	Total	81	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L
82600	75-25-2	Water	Bromoforn	Total	80	<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L		<1.0	ug/L
82600	75-27-4	Water	Bromodichloromethane	Total	80	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		2.2	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L
82600																												

GW-SW Sampling To Support EMPs Data vs MD LRP GW Screening Criteria

Quantum Loophole

Frederick, Maryland

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Client Name: Tetra Tech, Inc. - Germantown Lab: Eurofins Lancaster																										
Specific Method	CAS#	Matrix	Analyte	Results Basis	MD LRP Cleanup Sids_Tbl 1_GWs Aquifers_Oct2018	410-165229-1 QL-DA11-SW-20240325			410-165229-2 QL-DA2-SW-20240325			410-165398-1 QL-MW-60-GW-032624			410-165398-2 QL-MW-52-GW-032624			410-165398-3 QL-GE1-07-20240326			410-165398-4 QL-GE1-11-20240326			410-165398-5 QL-GE1-14-20240326		
						Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier	Result	Units	Qualifier
8260D	78-87-5	Water	1,2-Dichloropropane	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	78-93-3	Water	2-Butanone	Total	560	<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L		<0.50	ug/L	
8260D	79-00-5	Water	1,1,2-Trichloroethane	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	79-01-6	Water	Trichloroethene	Total	5	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	79-20-9	Water	Methyl acetate	Total		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	79-34-5	Water	1,1,2,2-Tetrachloroethane	Total	0.076	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	95-50-1	Water	1,2-Dichlorobenzene	Total	600	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L	
8260D	96-12-8	Water	1,2-Dibromo-3-Chloropropane	Total	0.2	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8260D	98-82-8	Water	Isopropylbenzene	Total	45	<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L		<0.30	ug/L	
8270E	120-12-7	Water	Anthracene	Total	180	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	129-00-0	Water	Pyrene	Total	12	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	191-24-2	Water	Benzo[g,h,i]perylene	Total		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	193-39-5	Water	Indeno[1,2,3-cd]pyrene	Total	0.25	<0.12	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L	
8270E	205-99-2	Water	Benzo[b]fluoranthene	Total	0.25	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	206-44-0	Water	Fluoranthene	Total	80	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	207-08-9	Water	Benzo[k]fluoranthene	Total	2.5	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	208-96-8	Water	Acenaphthylene	Total		<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	218-01-9	Water	Chrysene	Total	25	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	50-32-8	Water	Benzo[a]pyrene	Total	0.2	<0.12	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L	
8270E	53-70-3	Water	Dibenz[a,h]anthracene	Total	0.025	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	56-55-3	Water	Benzo[a]anthracene	Total	0.03	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	83-32-9	Water	Acenaphthene	Total	53	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
8270E	85-01-8	Water	Phenanthrene	Total	12	<0.12	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L		<0.11	ug/L	
8270E	86-73-7	Water	Fluorene	Total	29	<0.13	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L	
8270E	91-20-3	Water	Naphthalene	Total	0.17	<0.11	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
9040C	N/A	Water	Corrosivity	Total		no	NONE	HF	no	NONE	HF	no	NONE	HF	no	NONE	HF	no	NONE	HF	no	NONE	HF	no	NONE	HF
9040C	N/A	Water	pH	Total		7.4	S.U.	HF	7.4	S.U.	HF	7.4	S.U.	HF	7.3	S.U.	HF	7.5	S.U.	HF	7.4	S.U.	HF	7.3	S.U.	HF
9040C	N/A	Water	Temperature	Total		20.4	Degrees C	HF	20.4	Degrees C	HF	20.3	Degrees C	HF	20.2	Degrees C	HF	20.2	Degrees C	HF	20.1	Degrees C	HF	20.3	Degrees C	HF
6020B	7429-90-5	Water	Aluminum	Total Recoverable	2000	720	ug/L		280	ug/L		7.3	ug/L	J	14	ug/L	J	960	ug/L		53	ug/L		16000	ug/L	
6020B	7439-89-6	Water	Iron	Total Recoverable	1400	670	ug/L		390	ug/L		24	ug/L	J	51	ug/L	J	740	ug/L		85	ug/L		28000	ug/L	
6020B	7439-92-1	Water	Lead	Total Recoverable	15	0.35	ug/L	J	0.32	ug/L	J	<0.12	ug/L		<0.12	ug/L		0.35	ug/L	J	<0.12	ug/L		10	ug/L	
6020B	7439-95-4	Water	Magnesium	Total Recoverable		2500	ug/L	*2	6100	ug/L	*2	16000	ug/L		8000	ug/L		12000	ug/L		9400	ug/L		13000	ug/L	
6020B	7439-96-5	Water	Manganese	Total Recoverable	43	13	ug/L		21	ug/L		<0.95	ug/L		2.5	ug/L		20	ug/L		13	ug/L		910	ug/L	
6020B	7440-02-0	Water	Nickel	Total Recoverable	39	0.78	ug/L	J	<0.40	ug/L		<0.40	ug/L		<0.40	ug/L		1.5	ug/L		1.1	ug/L		24	ug/L	
6020B	7440-09-7	Water	Potassium	Total Recoverable		1800	ug/L		2200	ug/L		1200	ug/L		1600	ug/L		2000	ug/L		1900	ug/L		3100	ug/L	
6020B	7440-22-4	Water	Silver	Total Recoverable	9.4	<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L		<0.10	ug/L	
6020B	7440-23-5	Water	Sodium	Total Recoverable		3400	ug/L		10000	ug/L		77000	ug/L		92000	ug/L		13000	ug/L		9300	ug/L		11000	ug/L	
6020B	7440-28-0	Water	Thallium	Total Recoverable	2	<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L		<0.13	ug/L	
6020B	7440-36-0	Water	Antimony	Total Recoverable	6	<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		<0.20	ug/L		0.32	ug/L	J	<0.20	ug/L		0.33	ug/L	J
6020B	7440-38-2	Water	Arsenic	Total Recoverable	10	<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		<0.68	ug/L		5.6	ug/L	
6020B	7440-39-3	Water	Barium	Total Recoverable	2000	12	ug/L		19	ug/L		44	ug/L		36	ug/L		43	ug/L		50	ug/L		87	ug/L	
6020B	7440-41-7	Water	Beryllium	Total Recoverable	4	<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		<0.12	ug/L		0.79	ug/L	
6020B	7440-43-9	Water	Cadmium	Total Recoverable	5	<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L		<0.15	ug/L	
6020B	7440-47-3	Water	Chromium	Total Recoverable	100	0.60	ug/L	J	<0.55	ug/L		<0.55	ug/L		0.85	ug/L	J	<0.55	ug/L		<0.55	ug/L		21	ug/L	
6020B	7440-48-4	Water	Cobalt	Total Recoverable		0.34	ug/L	J	0.26	ug/L	J	0.20	ug/L	J	0.39	ug/L	J	0.27	ug/L	J	0.22	ug/L	J	10	ug/L	*2
6020B	7440-50-8	Water	Copper	Total Recoverable	1300	1.1	ug/L		1.6	ug/L		0.67	ug/L	J	<0.36	ug/L		1.1	ug/L		0.53	ug/L	J	17	ug/L	
6020B	7440-62-2	Water	Vanadium	Total Recoverable	8.6	1.1	ug/L	J	<0.79	ug/L		<0.79	ug/L		<0.79	ug/L		1.4	ug/L	J	<0.79	ug/L		23	ug/L	
6020B	7440-66-6	Water	Zinc	Total Recoverable	600	<4.0	ug/L		<4.0	ug/L		<4.0	ug/L		4.5	ug/L	J B	4.2	ug/L	J B	5.3	ug/L	J B	43	ug/L	
6020B	7440-70-2	Water	Calcium	Total Recoverable		21000	ug/L		36000	ug/L		70000	ug/L		70000	ug/L		86000	ug/L		88000	ug/L		110000	ug/L	*3+
6020B	7782-49-2	Water	Selenium	Total Recoverable	50	<0.28	ug/L		<0.28	ug/L		0.50	ug/L	J	0.64	ug/L	J	<0.28	ug/L		<0.28	ug/L		<0.28	ug/L	

Values highlighted gray were not detected at the laboratory method detection limit, but the MDL is higher than MD GW Cleanup Standard

Values highlighted magenta were detected above the MD GW Cleanup Standard

Bold values indicate the analyte was detected

Qualifier Definitions

*2 - Calibration Blank (ICB and/or CCB) is outside acceptance limits

B - Compound was found in the blank and the sample

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

HF - Parameter with a holding time of 15 minutes. Test performed by the laboratory at client's request. Sample was analyzed outside of hold time.

p - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

F1 - MS and/or MSD recovery exceeds control limits.

*1 - LCS/LCSD RPD exceeds control limits

*+ - LCS and/or LCSD is outside acceptance limits, high biased

*- - Continuing Calibration Verification (CCV) is outside acceptance limits, high biased

*3+ - Reporting Limit Check Standard is outside acceptance limits, high biased

*5 - Linear Range Check (LRC) is outside acceptance limits, low biased