

Corporate Headquarters 6571 Wilson Mills Road Cleveland, Ohio 44143

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This report package contains 57 pages.

This package contains reports from the following laboratories:

- National Testing Laboratories, Ltd. (7 pages)
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- Pace Analytical Services, Inc.-Greensburg, PA (11 pages)
- EMSL Analytical, Inc. (1 page)
- Eurofins Eaton Analytical, Inc. (8 pages)
- Alpha Analytical (23 pages)

NELAP accredited #E87753



Laboratory ID: NY:11467, MA:M-National Testing Laboratories, Ltd

MI044

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725 4/1/2024

Customer: Berkshire Springs Inc

Steve Keim 772 Norfolk Rd

Southfield, MA 01259-9799

Source: Spring

Date/Time Received:

2/28/2024 09:39

Collected by:

M. Klimkosky

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S.

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA"

This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA "Standard"

Secondary Standards.

This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant. "LRL"

"DF" This column indicates the contaminant dilution factor.

Report Notes:

pH analysis has a 15 minute hold time from sampling to analysis. Analysis of pH past the 15 minute hold time should be considered an estimate.

Additional water received 03/14/2024 at 09:30 AM, for 515.4 analysis.

Fed Id#	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
				Inorga	nic Analy	tes - Metals						
1002	Aluminum	200.7	0.2	mg/L	0.05	ND	1	2/27/2024	13:00		3/28/2024	
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	2/27/2024	13:00		3/14/2024	
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	2/27/2024	13:00		3/14/2024	
1010	Barium	200.7	2	mg/L	0.10	ND	1	2/27/2024	13:00		3/28/2024	
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	2/27/2024	13:00	TOP .	3/28/2024	
1079	Boron	200.7	-	mg/L	0.10	ND	1	2/27/2024	13:00		3/28/2024	17/21
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	2/27/2024	13:00	1 5 1 1 1	3/28/2024	
1016	Calcium	200.7		mg/L	2.0	14.0	1	2/27/2024	13:00		3/28/2024	
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	2/27/2024	13:00		3/28/2024	
1022	Copper	200.7	1.0	mg/L	0.002	0.024	1	2/27/2024	13:00		3/28/2024	
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	2/27/2024	13:00		3/28/2024	
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	2/27/2024	13:00		3/14/2024	
1031	Magnesium	200.7		mg/L	0.10	5.10	1	2/27/2024	13:00	Will be	3/28/2024	
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	2/27/2024	13:00		3/28/2024	
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	2/27/2024	13:00		3/14/2024	
1036	Nickel	200.7		mg/L	0.005	ND	1	2/27/2024	13:00		3/28/2024	
1042	Potassium	200.7	-	mg/L	1.0	1.9	1	2/27/2024	13:00		3/28/2024	TO S
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	2/27/2024	13:00		3/14/2024	

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Date Printed: 4/1/2024 10:26:58 AM 50 WODDBP Page 1 of 6 458725

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725 4/1/2024

					4/1/20	24						
Fed Id#	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
1049	Silica	200.7	-	mg/L	0.05	13.00	1	2/27/2024	13:00		3/28/2024	a Mulia
1050	Silver	200.7	0.10	mg/L	0.002	ND	1	2/27/2024	13:00		3/28/2024	
1052	Sodium	200.7	14.000	mg/L	1	2	1	2/27/2024	13:00		3/28/2024	
1085	Thallium	200.8	0.002	mg/L	0.001	ND	1	2/27/2024	13:00		3/14/2024	Like
4006	Uranium	200.8	0.030	mg/L	0.001	ND	1	2/27/2024	13:00		3/14/2024	
1095	Zinc	200.7	5.000	mg/L	0.004	ND	1	2/27/2024	13:00		3/28/2024	
				Ph	ysical F	actors						
1927	Alkalinity (Total as CaCO3)	2320B	- 55	mg/L	20	60	1	2/27/2024	13:00		2/29/2024	MAKEN
1905	Apparent Color	2120B	15	CU	3	ND	1	2/27/2024	13:00		2/28/2024	15:50
1928	Bicarbonate (as CaCO3)	2320B	-	mg/L	20	60	1	2/27/2024	13:00		2/29/2024	144
1929	Carbonate (as CaCO3)	2320B	-	mg/L	20	ND	1	2/27/2024	13:00		2/29/2024	
1910	Corrosivity	2330B	-	SI		-1.65	R2 1	2/27/2024	13:00		3/28/2024	TO STATE
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND	1	2/27/2024	13:00		2/29/2024	09:45
		N	MBAS, calcul	ated as Lir	near Alkyl	ate Sulfonate (LAS), mol	wt of 342.4 g	g/mole			
1915	Hardness	2340B	-	mg/L	5.0	56	1	2/27/2024	13:00		3/28/2024	
1021	Hydroxide (as CaCO3)	2320B		mg/L	20	ND	1	2/27/2024	13:00		2/29/2024	
1920	Odor Threshold	2150B	3	ton	1	ND	1	2/27/2024	13:00		2/28/2024	12:55
1925	рН	150.1	6.5-8.5	pH Units		6.8	1	2/27/2024	13:00		2/28/2024	15:35
4254	pH Temperature	150.1	-	Deg, C		26	1	2/27/2024	13:00		2/28/2024	15:35
1064	Specific Cond. @ 25 deg. C	2510B	7	umhos/c m	1	130	1	2/27/2024	13:00		3/8/2024	
1930	Total Dissolved Solids	2540C	500	mg/L	5	77	1	2/27/2024	13:00		3/2/2024	
0100	Turbidity	2130B	1	NTU	0.1	ND	1	2/27/2024	13:00		2/28/2024	15:40
				Inorgan	ic Analy	tes - Other						
1004	Bromide	300.1	15-15 V.S.	mg/L	0.005	0.006	1	2/27/2024	13:00		3/6/2024	
1017	Chloride	300.0	250	mg/L	1.0	ND	1	2/27/2024	13:00		2/29/2024	09:50
1025	Fluoride	300.0	4.0	mg/L	0.10	ND	1	2/27/2024	13:00		2/29/2024	09:50
1040	Nitrate as N	300.0	10	mg/L	0.05	0.14	1	2/27/2024	13:00		2/29/2024	09:50
1041	Nitrite as N	300.0	1	mg/L	0.05	ND	1	2/27/2024	13:00		2/29/2024	09:50
1044	Ortho Phosphate	300.0		mg/L	2.0	ND	1	2/27/2024	13:00		2/29/2024	09:50
1055	Sulfate	300.0	250	mg/L	5.0	5.3	1	2/27/2024	13:00		2/29/2024	09:50
			Org	anic Ana	lytes - T	rihalometha	nes					
2943	Bromodichloromethane	524.2 THMs	-	mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	
2942	Bromoform	524.2 THMs	-	mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	
2941	Chloroform	524.2 THMs	-	mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	
2944	Dibromochloromethane	524.2 THMs		mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	
2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	
		1				s - Volatiles			14/1			
2986	1,1,1,2-Tetrachloroethane	524.2		mg/L	0.0005	ND	1	2/27/2024	13:00		2/28/2024	

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556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725 4/1/2024

Fed Id#	Contaminant	Method	Standard	Units	LRL	Level Detected	ı	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2988	1,1,2,2-Tetrachloroethane	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2978	1,1-Dichloroethane	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2410	1,1-Dichloropropene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2420	1,2,3-Trichlorobenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2414	1,2,3-Trichloropropane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2418	1,2,4-Trimethylbenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND		1	2/27/2024	13:00	A COLUMN	2/28/2024
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	A	1	2/27/2024	13:00		2/28/2024
2424	1,3,5-Trimethylbenzene	524.2	V-PAR	mg/L	0.0005	ND	345	1	2/27/2024	13:00		2/28/2024
2967	1,3-Dichlorobenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2412	1,3-Dichloropropane	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2416	2,2-Dichloropropane	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2965	2-Chlorotoluene	524.2	_	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2966	4-Chlorotoluene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2030	4-Isopropyltoluene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	W. F	1	2/27/2024	13:00		2/28/2024
2993	Bromobenzene	524.2	_	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2430	Bromochloromethane	524.2	-	mg/L	0.0005	ND	AT YOU	1	2/27/2024	13:00		2/28/2024
2214	Bromomethane	524.2	-	mg/L	0.0005	ND	21 118/1	1	2/27/2024	13:00		2/28/2024
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	1	2/27/2024	13:00	Y TO BY	2/28/2024
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2216	Chloroethane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2210	Chloromethane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1176	1	2/27/2024	13:00		2/28/2024
2228	cis-1,3-Dichloropropene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2408	Dibromomethane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2212	Dichlorodifluoromethane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2246	Hexachlorobutadiene	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2994	Isopropylbenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2251	Methyl Tert Butyl Ether	524.2	4-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2247	Methyl-Ethyl Ketone	524.2	-	mg/L	0.005	ND	R2	1	2/27/2024	13:00		2/28/2024
2248	Naphthalene	524.2	4-11-12	mg/L	0.0005	ND		1	2/27/2024	13:00	A PARTY OF	2/28/2024
2422	n-Butylbenzene	524.2		mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024

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556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725 4/1/2024

Fed Id#	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2997	o-Xylene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2963	p and m-Xylenes	524.2	-	mg/L	0.0010	ND		1	2/27/2024	13:00		2/28/2024
-10-20		_	Due to the lim	_	Name and Address of the Owner, where the Owner, which the Owner, where the Owner, where the Owner, which the		and m i	_			ted as aggreg	The second liverage and the se
2998	Propylbenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2428	sec-Butylbenzene	524.2	-	mg/L	0.0005	ND	411	1	2/27/2024	13:00		2/28/2024
2996	Styrene	524.2	0.1	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2426	tert-Butylbenzene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2991	Toluene	524.2	1	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2224	trans-1,3-Dichloropropene	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2218	Trichlorofluoromethane	524.2	-	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2904	Trichlorotrifluoroethane	524.2	-15	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND		1	2/27/2024	13:00		2/28/2024
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND		1	2/27/2024	13:00	ME ELEM	2/28/2024
				Organ	ic Analyte	s - Others						
2414	1,2,3-Trichloropropane	504.1	0.00003	mg/L	0.00001	ND		1	2/27/2024	13:00	3/4/2024	3/4/2024
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND		1	2/27/2024	13:00	3/4/2024	3/4/2024
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND		1	2/27/2024	13:00	3/4/2024	3/4/2024
2105	2,4-D	515.4	70	ug/L	0.1	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2066	3-Hydroxycarbofuran	531.2		ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	1	2/27/2024	13:00	3/12/2024	3/27/2024
2047	Aldicarb	531.2	7	ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2356	Aldrin	505		mg/L	0.00007	ND	Walter S	1	2/27/2024	13:00	2/29/2024	2/29/2024
		525.2	3	ug/L	0.00007	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2050	Atrazine				1	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2625	Bentazon	515.4	0.2	ug/L		ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.02			1			3/12/2024	3/27/2024
2076	Butachlor	525.2		ug/L	0.2	ND	uil		2/27/2024	13:00	3/12/2024	3/6/2024
2021	Carbaryl	531.2		ug/L	1.0	ND		1	2/27/2024	13:00		
2046	Carbofuran	531.2	40	ug/L	1.0	ND	Hills	1	2/27/2024	13:00	0/00/0004	3/6/2024
2959	Chlordane	505	0.002	mg/L	0.0001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2031	Dalapon	515.4	200	ug/L	1	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND	4143	1	2/27/2024	13:00	3/12/2024	3/27/2024
2440	Dicamba	515.4	-	ug/L	1	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2933	Dichloran	505		mg/L	0.001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2070	Dieldrin	505	-	mg/L	0.00002	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2041	Dinoseb	515.4	7	ug/L	0.2	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024

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556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725

4/1/2024

						-						
Fed Id#	Contaminant	Method	Standard	Units	LRL	Level Detected		DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2032	Diquat	549.2	20	ug/L	0.4	ND		1	2/27/2024	13:00	3/1/2024	3/11/2024
2033	Endothall	548.1	100	ug/L	9	ND	4,64	1	2/27/2024	13:00	3/4/2024	3/11/2024
2005	Endrin	505	0.002	mg/L	0.00001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2034	Glyphosate	547	700	ug/L	6	ND		1	2/27/2024	13:00		3/7/2024
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2010	Lindane	505	0.0002	mg/L	0.00002	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2022	Methomyl	531.2	-	ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2045	Metolachlor	525.2	-	ug/L	0.2	ND	417	1	2/27/2024	13:00	3/12/2024	3/27/2024
2595	Metribuzin	525.2	-	ug/L	0.2	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2626	Molinate	525.2	-	ug/L	0.2	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2036	Oxamyl	531.2	200	ug/L	1.0	ND		1	2/27/2024	13:00		3/6/2024
2934	Pentachloronitrobenzene	505	-	mg/L	0.0001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2040	Picloram	515.4	500	ug/L	0.1	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2077	Propachlor	525.2	SECTION.	ug/L	0.2	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND	Y5	1	3/13/2024	12:30	3/22/2024	3/27/2024
2037	Simazine	525.2	4	ug/L	0.07	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2627	Thiobencarb	525.2		ug/L	0.2	ND		1	2/27/2024	13:00	3/12/2024	3/27/2024
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND	ETT	1	2/27/2024	13:00	2/29/2024	2/29/2024
2910	Total Phenois	420.4		mg/L	0.001	ND	R2	1	2/27/2024	13:00		2/29/2024
2020	Toxaphene	505	0.003	mg/L	0.001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024
2055	Trifluralin	505	NEW TON	mg/L	0.001	ND		1	2/27/2024	13:00	2/29/2024	2/29/2024

Qualifiers:

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Page 5 of 6 458725

R2: The laboratory is not licensed for this parameter. The reported result cannot be used for compliance purposes.

Y5: Sample received above the recommended temperature. Sample does not meet method requirements for acceptable thermal preservation.

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458725

4/1/2024

Date/Time Date/Time Date Fed Id # Contaminant Method Standard Units LRL Level DF Analyzed Detected Sampled Prepped



Analyst	Tests
ZSC	200.7,2330B,2340B
DMJ	200.8
SP	2320B,2120B,5540C,2150B,150.1,2510B,2130B
CF	2540C
SG	300.1,300.0
SB	524.2 THMs,524.2,531.2,549.2,547
BNF	504.1,515.4,505
JLF	525.2,548.1
DHG	420.4

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Laboratory ID: NY:11467, MA:M-

MI044

National Testing Laboratories, Ltd

556 South Mansfield, Ypsilanti, MI, 48197-5166 (440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 458724 4/1/2024

Customer:

Berkshire Springs Inc

Steve Keim 772 Norfolk Rd

Southfield, MA 01259-9799

Source: Spring

Date/Time Received:

2/28/2024 09:34

Collected by:

M. Klimkosky

The results herein conform to TNI and ISO/IEC 17025:2017 standards, where applicable. These results may be used for compliance purposes, as required, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S.

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND"

This contaminant was not detected at or above our lower reporting limit (LRL)

"NA"

Not Analyzed

"Standard"

This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA

Secondary Standards.

"LRL"

This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF"

This column indicates the contaminant dilution factor.

Report Notes:

Fed Id#	Contaminant	Method	Standard	Units LRI	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
				Micro	biologicals						
3114	E. Coli	9223B	1	MPN/100 1 mL	ND	1	2/27/2024	13:00		2/28/2024	12:30
3001	Standard Plate Count	9215B	500	CFU/ml 1	<1	1	2/27/2024	13:00		2/28/2024	11:50
			Pour Plate M	lethod, 35°C/48	hr, Plate Count Agar						
3000	Total Coliform	9223B	1	MPN/100 1 mL	ND	1	2/27/2024	13:00		2/28/2024	12:30

Analyst	Tests	
GK	9223B,9215B	

Christine MacMillan, Technical Director

458724



Pace Analytical Services, LLC.

1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

Report Prepared for:

National Laboratories National Testing Laboratories 6571 Wilson Mills Road Cleveland OH 44143

> REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

Report Summary:

Enclosed are analytical results of one drinking water sample analyzed for 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613B by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

The results reported for this sample and the associated quality control samples were all within the criteria described in Method 1613B. If you have any questions or concerns regarding these results, please contact Joanne Richardson, your Pace Project Manager.

Pace Project Number:

10685795

Report Prepared Date:

March 13, 2024

Product Source

Sample ID: 458725 Source Name: Spring

Source Location: Southfield MA

PWS ID: N/A

Laboratory Sample ID: 10685795001 Date Sampled: 02/27/2024 @ 13:00 Date Received: 03/07/2024 @ 09:00

This report has been reviewed by:

oans Michardson

March 13, 2024

Joanne Richardson, (612) 607-6453

(612) 607-6444 (fax)



Report of Laboratory Analysis

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Theresults relate only to the samples included in this report.



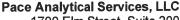
Tel: 612-607-1700 Fax: 612-607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
lowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical ®

1700 Elm Street, Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444 www.pacelabs.com

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Quality Water Analysis

1-800-458-3330

Beverage - Source Water

Order Number:

2235175

Order Date:

1/29/2024

Sample Number:

458725

Product:

50 WODDBP

Paid: No M

Method: MasterCard

P.O.:

TSR: SBW

	For Laboratory Use ONLY
	Lab Accounting Information:
Southfield MA 01259-9799	Payment \$:
Southfield MA 01259-9799	Check #:
* -	Lab Comments/Special Instructions:
Date Sampled: 3 127, 24	Spring Source
Time Sampled: 13 : 60 Please Use Military Time, e.g. 3:00pm = 15:00	•
Check Time Zone: KEST CST MST PST	
	Diagram
Source Water Information:	State Forms:
PWS ID# (if applicable):	Lab Sample Information:
Source Name: Spring	Date Received: RECEIVED FEB 2 8 2024
Source Hame.	Time Received: 09:39
City & State:	Received By:
(If Different than Above)	Sample receipt criteria checked & acceptable.
Sample Collected By: (Signature)	Deviations from acceptable sample receipt criteria noted on PSA form.
Sample Collected By: Math Klimkosky	1 cm o
(Please Print)	
ample Temperature: Field pH:	
leasured at Source By:	de de de
orm Completed By: Matt Klimkosky	
dditional Comments:	

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

Rev: SRT102120

COURIER: Client Commercial FedEx SpeeDee UPS USPS TRACKING NUMBER: 12 ALU 93 01 2573 789 See Exce	☐ Pace		TAN-	
TRACTION AND THE STATE TIME			PM	1: JMR Due Date: 03/18/24
ENV-FR	eptions fo M-MIN4-(rm 1142	CL	IENT: NTL
Custody Seal on Coole/Box Present: YES NO Seals Intact:			Biolo	rgical Tissue Frozen: ☐ YES ☐ NO ☑ N/A
Packing Material: ☐ Bubble Bags ☐ Bubble Wrap ☐ None ☐ O	ther Te	/ emp Bla	nk: 🛭	YES NO Type of Ice: Blue Dry Mat
Thermometer: □ T1 (0461) □ T2 (0436) □ T3 (0459) □ T4 (040 □ T7 (0042) □ T8 (0775) □ T9 (0727) □ 013392)2) □ T	(0178)) 🗆 те	(0235) □ Melted □ None
Did Samples Originate in West Virginia: ☐ YES ☐ NO Correction Factor: ☐ Cooler Temp Read w/Temp Blank:			Were A	All Container Temps taken: YES NO N/A
Cooler Temp Corrected w/Temp Blank	2.6	—°°c	Averag	e Corrected Temp (no Temp Blank Only):°C
NOTE: Temp should be above freezing to 6°C.			☐ See	Exceptions Form ENV-FRM-MIN4-0142
USDA Regulated Soil: N/A – Water Sample/Other (describe):				& Date of Person Examining Contents: 3-7-24
Did Samples originate from one of the following states (check maps) – AL,	AR, AZ, CA	, FL,	Did san	mples orlginate from a foreign source (international, including
GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FF	DA BAINIA	0154) -	Hawaii	and Buerto Bicoli T VCC T NO
LOCATION (sheet was a larger to the same and	(IVI-IVIIIV4-		- I	
LOCATION (check one): DULUTH MINNEAPOLIS UNINGINIA Chain of Custody Present and Filled Out?	YES		N/A	The second of the second secon
Chain of Custody Relinquished?		무	-	1.
Sampler Name and/or Signature on COC?	1	1 =	+-	3.
Samples Arrived within Hold Time?	12	1 -		4. If Fecal: □ <8 hrs □ >8 hr, <24 hr □ No
Short Hold Time Analysis (<72 hr)?		Ø		5. BOD / cBOD Fecal coliform Hex Chrom HPC Nitrate Nitrite Ortho Phos Total coliform/E. coli Other:
Rush Turn Around Time Requested?	10	Z		6.
Sufficient Sample Volume?				7.
Correct Containers Used?	Z			8.
- Pace Containers Used? Containers Intact?				
Field Filtered Volume Received for Dissolved Tests?	Z			9.
			9	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
s sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: Oil Soil Water Other	K			11. If NO, write ID/Date/Time of container below:
Il containers needing acid/base preservation have been checked?			d	See Exceptions form ENV-FRM-MIN4-0142 12. Sample #:
ll containers needing preservation are found to be in compliance with EPA ecommendation? (HNO3, H ₂ SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10			A	
yanide)	1/			☐ HNO₃ ☐ H₂SO₄ ☐ NaOH ☐ Zinc Aceṭate Positive for Residual Chlorine: ☐ YES ☐ NO
xceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and ioxins/PFAS				Positive for Residual Chlorine:
OTE: If adding preservative to a container, it must be added to associated eld and equipment blanks—verify with PM first.				Residual 0-6 Roll 0-6 Strip 0-14 Strip
eadspace in Methyl Mercury Container?			1	☐ See Exceptions form ENV-FRM-MIN4-0142 13.
ktra labels present on soil VOA or WIDRO containers?			7	14.
eadspace in VOA Vials (greater than 6mm)?			1	☐ See Exceptions form ENV-FRM-MIN4-0142
ip Blanks Present?			Z,	15.
ip Blank Custody Seals Present? JENT NOTIFICATION / RESOLUTION			ا کنر	Pace Trip Blank Lot # (if purchased):
				FIELD DATA REQUIRED: YES NO
Person Contacted:			Time:	
Comments / Resolution:				
Project Manager Review: Joans Hichards	on		Date:	3-7-24
OTE: When there is a discrepancy affecting North Carolina compliance sam	pies. a coi			
(i.e., out of hold, incorrect preservative, out of temp, incorrect contain	ners).			
		Label	ed By:	A 66 Line: 5

Report No.....10685795_1613DW_L2_dfr

Effective Date: 02/06/24

Page 1 of 1

Pace® Analytical Services, LLC (PAS)



Drinking Water Analysis Results 2,3,7,8-TCDD -- USEPA Method 1613B

Тей12-607-1700 Fax612-607-6444

Sample ID458725	Date Collected02/27/2024	Spike200 pg
Client National Testing Laborato	Date Received03/07/2024	IS Spike2000 pg
Lab Sample ID 10685795001	Date Extracted03/08/2024	CS Spike200 pg

	Sample 458725	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND		
LOQ	5.0 pg/L	5.0 pg/L		
2,3,7,8-TCDD Recovery			123%	123%
pg Recovered			245pg/L	246pg/L
Spike Recovery Limit			73-146%	73-146%
RPD			0.	2%
IS Recovery	49%	58%	37%	58%
pg Recovered	986 pg/L	1153 pg/L	734 pg/L	1168 pg/L
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	56%	63%	41%	66%
pg Recovered	112 pg/L	126 pg/L	81 pg/L	131 pg/L
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	E240311A 13	E240311A 06	E240311A 03	E240311A 04
Analysis Date	03/11/2024	03/11/2024	03/11/2024	03/11/2024
Analysis Time	15:37	12:05	10:36	11:05
Analyst	AH5	AH5	AH5	AH5
Volume	0.994L	0.973L	0.985L	0.983L
Dilution	NA	NA	NA	NA
ICAL Date	11/17/2023	11/17/2023	11/17/2023	11/17/2023
CCAL Filename	E240311A_02	E240311A 02	E240311A_02	E240311A_02

! = Outside the Control Limits

ND= Not Detected

= Limit of Quantitation LOQ

= Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A Limits

RPD

= Relative Percent Difference of Lab Spike Recoveries = Internal Standard [2,3,7,8-TCDD-¹³C₁₂] = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄] IS CS

Project No.....10685795

Analyst: Make J. My



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2235175
Pace Project No.: 30664762

Sample: 458725 Lab ID: 30664762001 Collected: 02/27/24 13:00 Received: 02/29/24 09:45 Matrix: Drinking Water

WS: Site ID: Sample Type:

Comments: • Sample collection dates and times were not present on the sample containers.

Upon receipt at the laboratory, 5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH
 for radiochemistry analysis, where the method requires preservation, in drinking water. The samples were not preserved pH

within the required 5 days of collection (EPA 815-R-05-004).

SOURCE WATER, Spring, Southfield, MA
 No brand type/product code listed, no container size listed, no production code/lot number listed.

· No date/time/opened by listed.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radon	SM 7500RnB-1996	181.7 ± 38.6 (52.9) C:NA T:NA	pCi/L	03/01/24 11:01	10043-92-2	
	Pace Analytical S	ervices - Greensburg				
Gross Alpha	EPA 900.0	-0.440 ± 0.894 (2.75) C:NA T:NA	pCi/L	03/15/24 10:01	12587-46-1	
Gross Beta	EPA 900.0	0.983 ± 0.866 (1.84) C:NA T:NA	pCi/L	03/15/24 10:01	12587-47-2	
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 903.1	0.773 ± 0.626 (0.913) C:NA T:89%	pCi/L	03/13/24 13:15	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 904.0	-0.00457 ± 0.365 (0.854) C:80% T:79%	pCi/L	03/13/24 11:36	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.773 ± 0.991 (1.77)	pCi/L	03/18/24 15:47	7440-14-4	





Project:

2235175

Pace Project No.:

30664762

QC Batch:

652137

QC Batch Method:

SM 7500RnB-1996

Analysis Method:

SM 7500RnB-1996

Analysis Description:

7500Rn B Radon

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples:

30664762001

METHOD BLANK: 3176714

Matrix: Water

Associated Lab Samples:

30664762001

Parameter

Act ± Unc (MDC) Carr Trac

Units pCi/L Analyzed

Qualifiers

Radon

-2.3 ± 17.7 (31.2) C:NA T:NA

03/01/24 08:42



Project:

2235175

Pace Project No.:

30664762

QC Batch:

652569

Analysis Method:

EPA 900.0

QC Batch Method:

EPA 900.0

Analysis Description:

900.0 Gross Alpha/Beta

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples:

30664762001

METHOD BLANK: 3178988

Matrix: Water

Associated Lab Samples:

30664762001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	-0.330 ± 0.566 (1.83) C:NA T:NA	pCi/L	03/15/24 08:18	
Gross Beta	0.564 ± 0.709 (1.56) C:NA T:NA	pCi/L	03/15/24 08:18	





Project:

2235175

Pace Project No.:

30664762

QC Batch:

652680

Analysis Method:

Analysis Description:

EPA 903.1

QC Batch Method: EPA 903.1

903.1 Radium-226, DW

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples:

30664762001

METHOD BLANK: 3179472

Matrix: Drinking Water

Associated Lab Samples:

30664762001

Parameter

Act ± Unc (MDC) Carr Trac

Units pCi/L Analyzed

Qualifiers

Radium-226

0.156 ± 0.306 (0.560) C:NA T:90%

03/13/24 13:00





Project:

2235175

Pace Project No.:

30664762

QC Batch:

652681

Analysis Method:

EPA 904.0

QC Batch Method:

EPA 904.0

Analysis Description:

904.0 Radium 228, DW

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples:

30664762001

METHOD BLANK: 3179475

Matrix: Drinking Water

Associated Lab Samples: 30

30664762001

Parameter

Act ± Unc (MDC) Carr Trac

Units pCi/L Analyzed

Qualifiers

Radium-228

0.960 ± 0.382 (0.683) C:90% T:82%

03/13/24 11:34





QUALIFIERS

Project: 2235175
Pace Project No.: 30664762

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 03/18/2024 03:54 PM



Greensburg, PA 15601 (724)850-5600



CERTIFICATIONS

Project:

2235175

30664762 Pace Project No.:

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417 ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590 Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950 Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010 Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198 Washington Certification #: C868

West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad





SAMPLE SUMMARY

Drinking Water

Project:

2235175

Pace Project No.: 30664762

Lab ID 30664762001 458725

Matrix Sample ID

Date Collected 02/27/24 13:00 **Date Received** 02/29/24 09:45

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project:

2235175

Pace Project No.: 30664762

Lab ID	Sample ID	Method	Analysts	Reported	Laboratory
30664762001	458725	SM 7500RnB-1996	KET	1	PASI-PA
		EPA 900.0	REH1	2	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

National Testing Laboratories, Ltd. Quality Water Analysis

1-800-458-3330

Beverage - Source Water

Order Number: 2235175 Order Date: 1/29/2024

Sample Number:

458725

Product:

50 WODDBP

Paid: No

Method: MasterCard

P.O.:

TSR: SBW

Southfield MA 01259-9799
Date Sampled: 31,37,34
Time Sampled: 13 : 60 Please Use Military Time, e.g. 3:00pm = 15:00
Check Time Zone: ☐ EST ☐ CST ☐ MST ☐ PST
WO#:30664762
PM: CMC Due Date: 03/21/24 CLIENT: NTL
Source Water Information:
PWS ID# (if applicable):
Source Name: Spring
City & State: (If Different than Above)

(Signature) Klimkosky

(Please Print) Field pH:

Klimkosk

For Laboratory Use ONLY
Lab Accounting Information:
Payment \$:
Check #:
Lab Comments/Special Instructions:
Spring Source Radon, Rads
Radion, 9 jaas
State Forms:
Lab Sample Information: RECEIVED FEB 2 8 2024 Date Received:
Time Received: () 9:5 7
Received By:
Sample recelpt criteria checked & acceptable. Deviations from acceptable sample recelpt criteria noted on PSA form.
PSAIN

Rev: SRT102120

Sample Collected By:

Sample Temperature:

Measured at Source By:

Form Completed By:

Additional Comments:

Sample Collected By: Mall

MaH

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

ective Date: 01/04/2024		ion U		N (0)	
				The state of the s	- B-1-A-1 VIS/Z1/4-
				PM:	
lient Name: NTL				P CLIE	NT: NTL
					initial / Date
ourier: 🗆 Fed Ex 🗷 UPS 🗀 USPS 🗀 Client (] Com	mercia	LLI Pa	ace U Other	Examined By: P5 2129 124
racking Number: 17 AIV 93 01	758	16	275		Examined by.
custody Seal on Cooler/Box Present: 🛘 Ye	es Bivo	5	Seals I	ntact: Yes 🗷 Yes	Cabeled By: 95 9.199194 Temped By:
hermometer Used: Typ	e or ici				∘C Final Temp: ∘C
Cooler Temperature: Observed Temp		٥	Corre	ction Factor.	Tiffet (City)
emp should be above freezing to 6°C				pH paper Lot#	D.P.D. Residual Chlorine Lot #
Comments:	Yes	No	NA	1002931	
Chain of Custody Present	-			1.	
Chain of Custody Filled Out:				2.	
-Were client corrections present on COC		-			
Chain of Custody Relinquished	-		<u> </u>	3.	
campler Name & Signature on COC:		-		4.	
ample Labels match COC:		/		5.	1 10 - 11 - 10
-Includes date/time/ID				No dates It	imes on bottles luals
Matrix:	(W(
amples Arrived within Hold Time:	SCHOOL ST.			6.	
hort Hold Time Analysis (<72hr				7.	
emaining):	COLUMN 1			,	
Rush Turn Around Time Requested:		-		8.	
ufficient Volume:				9.	
Correct Containers Used:				10.	
-Pace Containers Used		-			
Containers Intact:				11.	
Orthophosphate field filtered:				12.	
lex Cr Aqueous samples field filtered:				13.	
Organic Samples checked for dechlorination			1	14:	
iltered volume received for dissolved tests:			000	15:	
All containers checked for preservation:				16.	Laura I control
exceptions: VOA, coliform, TOC, O&G,				added SiUM	HNUS Radon
Phenolics, Radon, non-aqueous matrix				- to but	tles Rudon
All containers meet method preservation				Initial when	Date/Time of 2129 24 12:30
requirements:		I		Lot# of added Preservative 30	194569
2260C/D: Headspace in VOA Vials (> 6mm)		I	/	17.	
24.1: Headspace in VOA Vials (0mm)			/	18.	
Radon: Headspace in RAD Vials (0mm)	/			19.	
rip Blank Present:				Trip blank custo	ody seal present? YES or NO
ad Samples Screened <.05 mrem/hr.	/			Initial when PS	Date: 129124 Survey Meter SN: 25014380
Comments:					
					-A1
te: For NC compliance samples with discrepancies, a co Review is documented electronically in LIMS through	py of th	is form	must be	sent to the DEHNR Certific	cation office.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-5974 http://www.EMSL.com / cinnasblab@EMSL.com EMSL Order ID: Customer ID:

042404230 NTLI78 14630

Customer PO: Project ID:

Attn: Subcontract

National Testing Laboratories, Inc.

6571 Wilson Mills Road Cleveland, OH 44143

Phone:

(440) 449-2525

Fax: Received: (Ema) il -only 03/01/2024

Analyzed:

03/16/2024

Proj: 2235175

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered	Effective Filter Area	Area Analyzed	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
Onem / Linoz	2410770	(ml)	(mm²)	(mm²)			MFL	(million fibers per	liter)
458725	3/14/2024	100	1339	0.0768	None Detected	ND	0.17	<0.17	0.00 - 0.64
042404230-0001	12·17 AM								

Collection Date/Time:

02/27/2024 13:00 PM

12:17 AM

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

Bottle supplied by client.

Analyst(s)

Gregory Barry

(1)

Samanta Remotions

Samantha Rundstrom, Laboratory Manager or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 03/16/2024 10:49:58

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may EMSL maintains liability inflicted to cost of analysis. Interpretation and use or less results are the responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client. Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as \$0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than 3 fibers. corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.



Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAC NYS ELAP 10872, NJ DEP 03036, FL DOH E87975, PA ID# 68-00367

Case Narrative

Client: National Testing Laboratories, Ltd

Project: 458725/ 2235175

Job ID: 810-96039-1

Eurofins Eaton Analytical South Bend

Job ID: 810-96039-1

Job Narrative 810-96039-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

The sample was received on 3/5/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C.

GC/MS Semi VOA

Method 522 PREC: The low level laboratory control sample (LLCS) for preparation batch 810-91968 and analytical batch 810-92068 recovered outside control limits (50-150%) for the following analytes: 1,4-Dioxane (183%). The LLCS was reanalyzed with similar results. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported.458725 (810-96039-1) and (LLCS 810-91968/2-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Lab Sample ID: 810-96039-1

Matrix: Drinking Water

Job ID: 810-96039-1

Client Sample ID: 458725
Date Collected: 02/27/24 13:00
Date Received: 03/05/24 10:00

libra.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	<0.070	*+	0.070		ug/L		03/13/24 08:24	03/13/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.4-Dioxane-d8 (Surr)	89		70 - 130				03/13/24 08:24	03/13/24 19:45	1
	· ·		-		11 *4		Burnanad	Amahanad	Dil Foo
Method: EPA 331.0 - Perc Analyte	· ·	MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	· ·		RL 0.050	MDL	Unit ug/L	<u>D</u>	Prepared	Analyzed 03/07/24 23:26	Dil Fac
Analyte Perchlorate	Result			MDL		<u>D</u>	Prepared		Dil Fac
	Result 0.058			MDL	ug/L	<u>D</u>	Prepared Prepared		Dil Fac

Definitions/Glossary

Page 4 of 13

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Job ID: 810-96039-1

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly	/ used abbreviations may	y or may	y not be	present in this report.
--------------	----------------	--------------------------	----------	----------	-------------------------

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Lab Chronicle

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Lab Sample ID: 810-96039-1

Matrix: Drinking Water

Job ID: 810-96039-1

Client Sample ID: 458725
Date Collected: 02/27/24 13:00
Date Received: 03/05/24 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	522			91968	НВ	EA SB	03/13/24 08:24
Total/NA	Analysis	522		1	92068	TD	EA SB	03/13/24 19:45
Total/NA	Analysis	331.0		1	91297	GL	EA SB	03/07/24 23:26
Total/NA	Prep	Distill/CN			91173	GB	EA SB	03/06/24 15:20
Total/NA	Analysis	335.4		1	91244	GB	EA SB	03/06/24 16:36

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Accreditation/Certification Summary

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Job ID: 810-96039-1

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Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date
Ohio	State		87775	06-30-24
			ertified by the governing authori	ty. This list may include analytes
for which the agency	does not offer certification			
Analysis Method	Prep Method	n. Matrix	Analyte	
			Analyte Perchlorate	
Analysis Method		Matrix		

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Method Summary

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Job ID: 810-96039-1

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Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	EA SB
331.0	Perchlorate (LC/MS/MS)	EPA	EA SB
335.4	Cyanide, Total	EPA	EA SB
522	Solid-Phase Extraction (SPE)	EPA	EA SB
Distill/CN	Distillation, Cyanide	None	EA SB

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: National Testing Laboratories, Ltd

Project/Site: 458725/ 2235175

Job ID: 810-96039-1

2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-96039-1	458725	Drinking Water	02/27/24 13:00	03/05/24 10:00

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W	National Testing Laboratories, Ltd.
	Laboratories, Ltd.
	Quality Water Analysis

1-800-458-3330

Rev: SRT102120

Beverage - Source Water

Order Number: 2235175 Order Date: 1/29/2024

Sample Number: 458725

Product: 50 WODDBP

Pald: No Method: MasterCard P.O.:

TSR: SBW

	For Laboratory Use ONLY
	Lab Accounting Information:
Southfield MA 01259-9799	Payment \$:
Southfield MA 01250-5155	Check #:
	Lab Comments/Special Instructions:
Date Sampled : 2 , 27 , 24	Spring Source
Time Sampled: 13 : 60 Please Use Military Time, e.g. 3:00pm = 15:00	
Check Time Zone: KEST CST MST PST	Cn, perchlorate, 1, 4- bioyane
Source Water Information:	State Forms: NY
PWS ID# (If applicable):	Lab Sample Information:
Source Name: Spling	Lab Sample Information: RECEIVED FEB 2 8 2024 Time Received: 09:39
City & State: (If Different than Above)	Received By:
Sample Collected By: (Signature)	Sample receipt criteria checked & acceptable. Deviations from acceptable sample receipt criteria noted on PSA form.
Sample Collected By: Matt Klimbsky (Please Print)	To alogo
Sample Temperature: Field pH:	PSA
Measured at Source By:	I DY I
Form Completed By: Matt Klimkusky	
Additional Comments:	

3/18/2024

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS



ANALYTICAL REPORT

Lab Number:

L2411034

Client:

National Testing Laboratories, LTD

6571 Wilson Mills Rd.

Cleveland, OH 44143

ATTN:

Christine MacMillan

Phone:

(440) 449-2525

Project Name:

SPRING

Project Number:

Not Specified

Report Date:

03/11/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (99110), NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



L2411034 03/11/24

Lab Number: Report Date: A FIRST

(P)	ecified	
SPRING	Not Specifie	
roject Name:	roject Number:	

Receive Date	02/29/24	02/29/24
Collection Date/Time	02/27/24 13:00	02/27/24 13:00
Sample Location	2235175	2235175
Matrix	DW	DW
Client ID	458725	458725- FIELD BLANK
Alpha Sample ID	L2411034-01	L2411034-02

Project Name: Project Number:

SPRING

Not Specified

Lab Number:

L2411034

Report Date:

03/11/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.



Project Name:

SPRING

Lab Number:

L2411034

Project Number:

Not Specified

Report Date:

03/11/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Hair Dails Darian Dailey

Title: Technical Director/Representative

Date: 03/11/24



ORGANICS



SEMIVOLATILES



Project Name: SPRING Lab Number: L2411034

Project Number: Not Specified Report Date: 03/11/24

SAMPLE RESULTS

 Lab ID:
 L2411034-01
 Date Collected:
 02/27/24 13:00

 Client ID:
 458725
 Date Received:
 02/29/24

 Sample Location:
 2235175
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Dw Extraction Method: EPA 537.1 Analytical Method: 133,537.1 Extraction Date: 03/07/24 16:39

Analytical Date: 03/08/24 18:50
Analyst: RDB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by EPA 537.1 -	Mansfield La	b				
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.621	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.621	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	2.00	0.621	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.621	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.621	1
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	2.00	0.621	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.621	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.621	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.621	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.621	1
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS)	ND		ng/l	2.00	0.621	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.621	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.621	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.621	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.621	1
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND		ng/l	2.00	0.621	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.621	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.621	1
PFAS, Total (6)	ND		ng/l	2.00	0.621	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	94		70-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	92		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	97		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	108		70-130	



Project Name: SPRING Lab Number:

L2411034

Project Number: Not Specified Report Date:

03/11/24

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date:

133,537.1 03/08/24 15:35

Analyst:

RDB

Extraction Method: EPA 537.1

Extraction Date: 03/07/24 16:20

Parameter	Result	Qualifier	Units	RL		MDL
Perfluorinated Alkyl Acids by EPA 53	37.1 - Man	sfield Lab f	or sample(s):	01	Batch:	WG1893516-1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00		0.668
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00		0.668
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		ng/l	2.00		0.668
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00		0.668
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00		0.668
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND		ng/l	2.00		0.668
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00		0.668
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00		0.668
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00		0.668
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00		0.668
9-Chlorohexadecafluoro-3-Oxanone-1- Sulfonic Acid (9CI-PF3ONS)	ND		ng/l	2.00		0.668
N-Methyl Perfluorooctanesulfonamidoaceti Acid (NMeFOSAA)	c ND		ng/l	2.00		0.668
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00		0.668
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00		0.668
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00		0.668
11-Chloroeicosafluoro-3-Oxaundecane-1- Sulfonic Acid (11CI-PF3OUdS)	ND		ng/l	2.00		0.668
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00		0.668
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00		0.668
PFAS, Total (6)	ND		ng/l	2.00		0.668

		A	Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	109		70-130	
Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA)	101		70-130	
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	109		70-130	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	102		70-130	



Lab Control Sample Analysis Batch Quality Control

Not Specified SPRING

Project Number: Project Name:

L2411034 Lab Number:

03/11/24

Report Date:

RPD	Limits	
	Qual	
	RPD	
"Recovery	Limits	
	Qual	
TCSD	"Recovery	
	Qual	
SO7	"Recovery	
	Parameter	

Parameter	LCS %Recovery Qual	LCSD II %Recovery	%Recovery Qual Limits	very ts RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01	Mansfield Lab Associatec	100.00	Batch: WG1893516-2			
Perfluorobutanesulfonic Acid (PFBS)	121		50-150	. 0		30
Perfluorohexanoic Acid (PFHxA)	131	at .	50-150	0		30
Hexafluoropropylene Oxide Dimer Acid	111		50-150	0		30
Perfluoroheptanoic Acid (PFHpA)	145		50-150	- 0		30
Perfluorohexanesulfonic Acid (PFHxS)	118		50-150	- 0		30
4,8-Dioxa-3h-Perfluorononanoic Acid	146		50-150	0		30
(ADONA) Perfluorooctanoic Acid (PFOA)	135		50-150	0		30
Perfluorononanoic Acid (PFNA)	150	THE STANDARD COMMITTEE OF THE STANDARD COMMI	50-150	0	100.0	30
Perfluorooctanesulfonic Acid (PFOS)	124	THE RELATIONS DESIGNED AND THE RESERVE AND THE	50-150	- 0		30
Perfluorodecanoic Acid (PFDA)	138		50-150	0		30
9-Chlorohexadecafluoro-3-Oxanone-1- Sulfonic Acid (9CI-PF3ONS)	114		50-150	0		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	119	ı	50-150	0		30
Perfluoroundecanoic Acid (PFUnA)	141	***	50-150	0	No. of the contract of the con	30
N-Ethyl Perfluorooctanesulfonamidoacetic	122		50-150	0		30
Perfluorododecanoic Acid (PFDoA)	146		50-150	- 0		30
11-Chloroeicosafluoro-3-Oxaundecane-	109		50-150	0.1		30
Perfluorotridecanoic Acid (PFTrDA)	133		50-150	- 01		30
Perfluorotetradecanoic Acid (PFTA)	141		50-150	0.0		30



Lab Control Sample Analysis Batch Quality Control

L2411034 Lab Number:

> Not Specified Project Number:

SPRING

Project Name:

03/11/24 Report Date:

RPD Limits Qual RPD %Recovery Limits Qual LCSD %Recovery Qual LCS %Recovery

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Batch: WG1893516-2 Parameter

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA) Tetrafluoro-2-heptafluoropropoxy-[13C3]-propanoic acid (13C3-HFPO-DA) Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA) N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106 99 107 101				70-130 70-130 70-130 70-130



Matrix Spike Analysis Batch Quality Control

Not Specified SPRING

Project Name: Project Number:

L2411034 Lab Number:

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab	PA 537.1 - N	0.951	Associated	Associated sample(s): 01	QC Batch	QC Batch ID: WG1893516-3	893516-3	QC Samp	QC Sample: L2410784-02	1200	Client ID:	Client ID: MS Sample
Perfluorobutanesulfonic Acid (PFBS)	4.90	1.65	6.94	124		,			50-150			30
Perfluorohexanoic Acid (PFHxA)	7.72	1.86	9.67	105		ı			50-150	1		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	Q.	1.86	1.78J	96			1		50-150	1		30
Perfluoroheptanoic Acid (PFHpA)	3.66	1.86	5.82	116					50-150	1		30
Perfluorohexanesulfonic Acid (PFHxS)	1.65J	1.7	3.46	204	σ	,			50-150			30
4,8-Dioxa-3h-Perfluorononanoic Acid	ND	1.75	2.05	117					50-150		Tr. Auto-Law Comp. School.	30
Perfluorooctanoic Acid (PFOA)	14.9	1.86	17.2	124			1		50-150	ı		30
Perfluorononanoic Acid (PFNA)	1.87J	1.86	4.62	249	Ø	1	1		50-150			30
Perfluorooctanesulfonic Acid (PFOS)	19.2	1.72	21.8	151	Ø	1,000			50-150	,		30
Perfluorodecanoic Acid (PFDA)	1.45J	1.86	3.83	206	σ				50-150			30
9-Chlorohexadecafluoro-3- Oxanone-1-Sulfonic Acid (9Cl- PE3ONS)	Q	1.73	1.94J	112					50-150	1		30
N-Methory Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	N	1.86	2.36	127		1			50-150	1		30
Perfluoroundecanoic Acid (PFUnA)	Q	1.86	2.24	121					50-150			30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NFFEOSAA)	Q	1.86	2.56	138		•	1		50-150	1		30
Perfluorododecanoic Acid (PFDoA)	N	1.86	2.37	128		j.		ı	50-150	ī		30
11-Chloroeicosafluoro-3- Oxaundecane-1-Sulfonic Acid (11Cl- PF3OLIAS)	Q	1.75	1.78J	102		1			50-150	1		30
Perfluorotridecanoic Acid (PFTrDA)	ND	1.86	2.06	111					50-150	,		30
Perfluorotetradecanoic Acid (PFTA)	Q	1.86	2.18	117		ı	1		50-150	•		30



Matrix Spike Analysis Batch Quality Control

Not Specified

Project Number: Project Name:

SPRING

L2411034 Lab Number:

03/11/24 Report Date:

RPD Qual Limits Recovery Limits MSD MSD Found "Recovery Qual Jeno MS MS MS Native Sample Parameter

Parameter	Sample	Sample Added	round	%Kecover	y Qual	round	%Kecov	ery Quai	Found %Recovery Qual Found %Recovery Qual LIMITS RFD Qual LIMITS	duai	LIMITS
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1893516-3 QC Sample: L2410784-02 Client ID: MS Sample	EPA 537.1 - N	fansfield Lab	Associated	sample(s): 0	11 QC Batc	ch ID: WG1	893516-3	QC Sampl	e: L2410784-02	Client I): MS Sample
				MS			MSD		Acceptance		
Surrogate			% R	% Recovery Qualifier	Qualifier	% Rec	% Recovery Qualifier	ualifier	Criteria		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic	leptafluoropropox	ty]-13C3-Propanoid	o	82					70-130		
Acid (MSTFFO-DA) N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	lfonamidoacetic A	Acid (d5-NEtFOSA	(¥	100					70-130		
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	(13C-PFDA)			102					70-130		
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	(13C-PFHxA)			84					70-130		



Lab Duplicate Analysis
Batch Quality Control

Report Date:

L2411034 03/11/24 Lab Number: Not Specified SPRING

Project Number: Project Name:

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Qual Limits
Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample(s): 01 Sample	Lab Associated sample(s)		QC Batch ID: WG1893516-4	QC Sample:	QC Sample: L2410784-04 Client ID: DUP
Perfluorobutanesulfonic Acid (PFBS)	2.68	2.58	l/gn	4	30
Perfluorohexanoic Acid (PFHxA)	5.01	5.15	l/gn	က	30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-	QN	ND	l/gn	NC	30
neptantotophoxyl-mopanoto Acid (nr. 10-104) Perfluoroheptanoto Acid (PFHpA)	2.18	2.28	l/gn	4	30
Perfluorohexanesulfonic Acid (PFHxS)	1.06J	1.06J	l/gn	NC	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	QN	l/gn	SC	30
Perfluorooctanoic Acid (PFOA)	8.75	8.92	l/gn	7	30
Perfluorononanoic Acid (PFNA)	1.36J	1.40J	l/gn	NC	30
Perfluorooctanesulfonic Acid (PFOS)	11.3	11.3	l/gn	0	30
Perfluorodecanoic Acid (PFDA)	1.54J	1.56J	l/gn	S	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic	QN	Q	ng/l	NC	30
N-Methyl Perfluoroctanesulfonamidoacetic Acid (NMeFQSAA)	QN	QN	l/gn	S	30
Perfluoroundecanoic Acid (PFUnA)	QN	QN	l/gu	S	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFC)SAA)	ND	QN	l/gn	NC	30
Perfluorododecanoic Acid (PFDoA)	Q	QN	l/gn	NC	30
11-Chloroeicosafluoro-3-Oxaundecane-1- Sulfanic Acid (11CLDE3O) IdS)	ND	Q	l/gn	NO	30
Perfluorotridecanoic Acid (PFTrDA)	Q	QN	l/gn	NC	30
Perfluorotetradecanoic Acid (PFTA)	ND	QN	ng/l	NC	30



Lab Duplicate Analysis
Batch Quality Control

Not Specified SPRING

Project Number: Project Name:

Lab Number:

L2411034 03/11/24 Report Date: RPD Limits Qual RPD Units **Duplicate Sample** Native Sample Parameter

Perfluorinated Alkyl Acids by EPA 537.1 - Mansfield Lab Associated sample Sample	(s): 01 QC Batch II	D: WG1893516-4	QC Sampl	Associated sample(s): 01 QC Batch ID: WG1893516-4 QC Sample: L2410784-04 Client ID: DUP
Surrogate	Acceptance MRecovery Qualifier Criteria	fier %Recovery	A Qualifier	Acceptance Criteria
Perfluoro-n-[1,2-13C2]hexanoic Acid (13C-PFHxA)	06	95		70-130
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	88	93		70-130
Perfluoro-n-[1,2-13C2]decanoic Acid (13C-PFDA)	26	102		70-130
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106	103		70-130





Lab Number: L2411034
Report Date: 03/11/24

Sample Receipt and Container Information

Were project specific reporting limits specified?

Project Number: Not Specified

SPRING

Project Name:

YES

Cooler Information Cooler Custody Seal

Absent

Container Information	ormation		Initial	Final	Temp			Frozen	
Container ID	Container ID Container Type	Cooler	на на	Н	deg C Pres	Pres	Seal	Date/Time	Analysis(*)
L2411034-01A	Plastic 250ml Trizma preserved	۷	ΝΑ		2.1	>	2.1 Y Absent		A2-MA-537.1(14)
L2411034-01B	Plastic 250ml Trizma preserved	∢	Α̈́		2.1	2.1 Y Absent	Absent		A2-MA-537.1(14)
L2411034-02A	Plastic 250ml Trizma preserved	⋖	Ą		2.1	2.1 Y Absent	Absent		A2-L-EXT-537(14)



Lab Number: L2411034

Report Date: 03/11/24

Project Name: SPRING
Project Number:

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)	DED-DS/BED-S	70790 20 5
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS PFDS	79780-39-5
Perfluorodecanesulfonic Acid	PFNS PFNS	335-77-3 68259-12-1
Perfluorononanesulfonic Acid		
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
ELUOROTELOMERS		
H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
I-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
ER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
I,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11CI-PF3OUdS	763051-92-9
-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9CI-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6



Serial_No:03112412:54 **Lab Number:** L2411

L2411034

Report Date:

03/11/24

Project Name: Project Number: **SPRING**

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

L2411034

03/11/24

Project Name: Lab Number: **SPRING Report Date: Project Number:** Not Specified

GLOSSARY

Acronyms

LOQ

MS

MSD

- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when DL those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated **EDL** values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis

of PAHs using Solid-Phase Microextraction (SPME).

- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an **EMPC** analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case

estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

- Laboratory Control Sample Duplicate: Refer to LCS. LCSD

- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of LFB

analytes or a material containing known and verified amounts of analytes.

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a LOD specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content,

where applicable. (DoD report formats only.)

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats

only.)

- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated **MDL** values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any

adjustments from dilutions, concentrations or moisture content, where applicable.

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated

using the native concentration, including estimated values.

- Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's NC

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

- Not Ignitable. NI

- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. NP

- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile NR

Organic TIC only requests.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the

precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the

values; although the RPD value will be provided in the report.

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the SRM

associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF TEQ

and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benza(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H . The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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Lab Number:

L2411034

Project Number:

Not Specified

Report Date:

03/11/24

REFERENCES

Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537.1, EPA/600/R-18/352. Version 1.0, November 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873

Revision 20

Published Date: 6/16/2023 4:52:28 PM

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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-

Ethyltoluene.

EPÁ 8270E; NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



1-800-458-3330

Beverage - Source Water

Order Number: 2235175 Order Date: 1/29/2024

Sample Number:

458725

Product:

50 WODDBP

Paid: No Method: MasterCard

P.O.:

TSR: SBW

		For Laboratory Use ONLY
		Lab Accounting Information:
		Payment \$:
Southfield	MA 01259-9799	Check #:
		Lab Comments/Special Instructions:
Date Sampled : 2 , 27 ,	24	Spring Source
Time Sampled: 13 : 60	Please Use Military Time, e.g. 3:00pm = 15	100
Check Time Zone: KEST	CST MST PST	AAB (18)
	. Alama	State Forms:
Source Water Inform	lation:	NY O
PWS ID# (if applicable): Source Name: Sp(i	Λη	Date Received: RECEIVED FEB 2 8 2024
Source Name.		Time Received: 09:34
City & State:		Received By:
Λ	(if Different than Above)	Sample receipt criteria checked & acceptable.
Sample Collected By:	(Signature)	Deviations from acceptable sample receipt criteria noted on PSA form.
Sample Collected By: Ma		To alogn
Sample Temperature:	Field pH:	PSA
Measured at Source By:		
Form Completed By: Ma	H Klimkusky	_
Additional Comments:	1	
(1) (1) (1) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	12	
		AMBURD MAYALIDATE RESULTS

INCOMPLETE INFORMATION MAY DELAY ANALYSIS AND/OR INVALIDATE RESULTS

Rev: SRT102120