Laboratory ID: 2568

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

ANALYTICAL REPORTS

SAMPLE CODE: 382624

7/11/2018

Customer:

Source: Dunsmuir Municipal-Shasta Springs
Source Type: Spring/Municipal
Brand Name:
Production Code: CRW 1
Container Size: 1000 ml.

Date/Time Received: 6/18/2018 08:40
Collected by: K. Marshall

The results herein conform to TNI and ISO/IEC 17025:2005 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. Eastern Time.

Legend:

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:

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. In addition, Chlorine, Chloramine and Chlorine Dioxide hold time is immediate, therefore results should be considered an estimate.

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
					Inorganic Analytes - Metals						
1002	Aluminum	200.7	0.2	mg/L	0.05	ND	1	6/19/2018	14:30		6/25/2018
1074	Antimony	200.8	0.006	mg/L	0.003	ND	1	6/19/2018	14:30		6/25/2018
1005	Arsenic	200.8	0.010	mg/L	0.002	ND	1	6/19/2018	14:30		6/25/2018
1010	Barium	200.7	2	mg/L	0.10	ND	1	6/19/2018	14:30		6/25/2018
1075	Beryllium	200.7	0.004	mg/L	0.001	ND	1	6/19/2018	14:30		6/25/2018
1079	Boron	200.7	--	mg/L	0.10	ND	1	6/19/2018	14:30		6/25/2018
1015	Cadmium	200.7	0.005	mg/L	0.001	ND	1	6/19/2018	14:30		6/25/2018
1016	Calcium	200.7	--	mg/L	2.0	10.0	1	6/19/2018	14:30		6/25/2018
1020	Chromium	200.7	0.100	mg/L	0.007	ND	1	6/19/2018	14:30		6/25/2018
1022	Copper	200.7	1.0	mg/L	0.002	0.042	1	6/19/2018	14:30		6/25/2018
1028	Iron	200.7	0.3	mg/L	0.020	ND	1	6/19/2018	14:30		6/25/2018
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	6/19/2018	14:30		6/25/2018
1031	Magnesium	200.7	--	mg/L	0.10	4.60	1	6/19/2018	14:30		6/25/2018
1032	Manganese	200.7	0.05	mg/L	0.004	ND	1	6/19/2018	14:30		6/25/2018
1035	Mercury	200.8	0.002	mg/L	0.0002	ND	1	6/19/2018	14:30		6/25/2018
1036	Nickel	200.7	--	mg/L	0.005	ND	1	6/19/2018	14:30		6/25/2018
1042	Potassium	200.7	--	mg/L	1.0	2.0	1	6/19/2018	14:30		6/25/2018
1045	Selenium	200.8	0.05	mg/L	0.002	ND	1	6/19/2018	14:30		6/25/2018
1049	Silica	200.7	--	mg/L	0.05	50.00	1	6/19/2018	14:30		6/25/2018

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1050	Silver	200.7	0.10	mg/L	0.002	ND		1	6/19/2018	14:30		6/25/2018	
1052	Sodium	200.7	--	mg/L	1	6		1	6/19/2018	14:30		6/25/2018	
1085	Thallium	200.8	0.002	mg/L	0.001	ND		1	6/19/2018	14:30		6/25/2018	
4009	Uranium	200.8	0.030	mg/L	0.001	ND		1	6/19/2018	14:30		6/25/2018	
1095	Zinc	200.7	5.000	mg/L	0.004	0.015		1	6/19/2018	14:30		6/25/2018	
						Physical Factors							
1927	Alkalinity (Total as CaCO3)	2320B	--	mg/L	20	50		1	6/19/2018	14:30		6/29/2018	
1905	Apparent Color	2120B	15	CU	3	ND		1	6/19/2018	14:30		6/20/2018	14:55
1928	Bicarbonate (as CaCO3)	2320B	--	mg/L	20	50		1	6/19/2018	14:30		6/29/2018	
1929	Carbonate (as CaCO3)	2320B	--	mg/L	20	ND		1	6/19/2018	14:30		6/29/2018	
1910	Corrosivity	2330B	--	SI		-2.07	R2	1	6/19/2018	14:30		6/30/2018	
2905	Foaming Agents	5540C	0.5	mg/L	0.1	ND		1	6/19/2018	14:30		6/20/2018	12:40
	MBAS, calculated as Linear Alkylate Sulfonate (LAS), mol wt of 342.4 g/mole												
1915	Hardness (as CaCO3)	2340C	--	mg/L	10	40		1	6/19/2018	14:30		6/30/2018	
1021	Hydroxide (as CaCO3)	2320B	--	mg/L	20	ND		1	6/19/2018	14:30		6/29/2018	
1920	Odor Threshold	2150B	3	ton	1	ND		1	6/19/2018	14:30		6/20/2018	12:20
1925	pH	150.1	6.5-8.5	pH Units		6.6		1	6/19/2018	14:30		6/20/2018	13:40
4254	pH Temperature	150.1	--	Deg, C		19		1	6/19/2018	14:30		6/20/2018	13:40
1064	Specific Cond. @ 25 deg. C	2510B	--	umhos/cm	1	120		1	6/19/2018	14:30		6/22/2018	
1930	Total Dissolved Solids	2540C	500	mg/L	5	100		1	6/19/2018	14:30		6/23/2018	
0100	Turbidity	2130B	1	NTU	0.1	ND		1	6/19/2018	14:30		6/20/2018	14:30
						Inorganic Analytes - Other							
1011	Bromate	300.1	0.010	mg/L	0.005	ND		1	6/19/2018	14:30		6/21/2018	
1004	Bromide	300.1	--	mg/L	0.005	ND		1	6/19/2018	14:30		6/21/2018	
1006	Chloramine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND		1	6/19/2018	14:30		6/22/2018	12:40
1017	Chloride	300.0	250	mg/L	1.0	3.1		1	6/19/2018	14:30		6/19/2018	14:48
1012	Chlorine as Cl2	4500Cl-G	4.0	mg/L	0.05	ND		1	6/19/2018	14:30		6/22/2018	12:37
1008	Chlorine Dioxide as Cl02	4500Cl02D	0.8	mg/L	0.1	ND		1	6/19/2018	14:30		6/22/2018	12:43
1009	Chlorite	300.1	1.0	mg/L	0.005	ND		1	6/19/2018	14:30		6/21/2018	
1025	Fluoride	300.0	4.0	mg/L	0.10	ND		1	6/19/2018	14:30		6/19/2018	14:48
1040	Nitrate as N	300.0	10	mg/L	0.05	0.24		1	6/19/2018	14:30		6/19/2018	14:48
1041	Nitrite as N	300.0	1	mg/L	0.05	ND		1	6/19/2018	14:30		6/19/2018	14:48
1044	Ortho Phosphate	300.0	--	mg/L	2.0	ND		1	6/19/2018	14:30		6/19/2018	14:48
1055	Sulfate	300.0	250	mg/L	5.0	ND		1	6/19/2018	14:30		6/19/2018	14:48
						Organic Analytes - Trihalomethanes							
2943	Bromodichloromethane	524.2 THMs	--	mg/L	0.0005	ND		1	6/19/2018	14:30		6/25/2018	
2942	Bromoform	524.2 THMs	--	mg/L	0.0005	ND		1	6/19/2018	14:30		6/25/2018	
2941	Chloroform	524.2 THMs	--	mg/L	0.0005	ND		1	6/19/2018	14:30		6/25/2018	
2944	Dibromochloromethane	524.2 THMs	--	mg/L	0.0005	ND		1	6/19/2018	14:30		6/25/2018	

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2950	Total THMs	524.2 THMs	0.080	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
	Organic Analytes - Haloacetic Acids										
2454	Dibromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
2451	Dichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
2453	Monobromoacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
2450	Monochloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
2452	Trichloroacetic Acid	552.2 HAAs	--	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
2456	Total HAAs	552.2 HAAs	60	ug/L	1.0	ND	1	6/19/2018	14:30	6/26/2018	7/6/2018
	Organic Analytes - Volatiles										
2986	1,1,1,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2981	1,1,1-Trichloroethane	524.2	0.2	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2988	1,1,2,2-Tetrachloroethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2985	1,1,2-Trichloroethane	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2978	1,1-Dichloroethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2977	1,1-Dichloroethene	524.2	0.007	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2410	1,1-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2420	1,2,3-Trichlorobenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2414	1,2,3-Trichloropropane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2378	1,2,4-Trichlorobenzene	524.2	0.07	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2418	1,2,4-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2968	1,2-Dichlorobenzene	524.2	0.6	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2980	1,2-Dichloroethane	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2983	1,2-Dichloropropane	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2424	1,3,5-Trimethylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2967	1,3-Dichlorobenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2412	1,3-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2969	1,4-Dichlorobenzene	524.2	0.075	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2416	2,2-Dichloropropane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2965	2-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2966	4-Chlorotoluene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2030	4-Isopropyltoluene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2990	Benzene	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2993	Bromobenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2430	Bromochloromethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2214	Bromomethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2982	Carbon Tetrachloride	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2989	Chlorobenzene	524.2	0.1	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2216	Chloroethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2210	Chloromethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2380	cis-1,2-Dichloroethene	524.2	0.07	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018

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Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
2228	cis-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2408	Dibromomethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2212	Dichlorodifluoromethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2964	Dichloromethane	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2992	Ethylbenzene	524.2	0.7	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2246	Hexachlorobutadiene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2994	Isopropylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2251	Methyl Tert Butyl Ether	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2247	Methyl-Ethyl Ketone	524.2	--	mg/L	0.005	ND	1	6/19/2018	14:30		6/25/2018
2248	Naphthalene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2422	n-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2997	o-Xylene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2963	p and m-Xylenes	524.2	--	mg/L	0.0010	ND	1	6/19/2018	14:30		6/25/2018
	Due to the limitation of EPA Method 524.2, p and m isomers of Xylene are reported as aggregate.										
2998	Propylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2428	sec-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2996	Styrene	524.2	0.1	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2426	tert-Butylbenzene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2987	Tetrachloroethene	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2991	Toluene	524.2	1	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2979	trans-1,2-Dichloroethene	524.2	0.1	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2224	trans-1,3-Dichloropropene	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2984	Trichloroethene	524.2	0.005	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2218	Trichlorofluoromethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2904	Trichlorotrifluoroethane	524.2	--	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2976	Vinyl Chloride	524.2	0.002	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
2955	Xylenes (Total)	524.2	10	mg/L	0.0005	ND	1	6/19/2018	14:30		6/25/2018
	Organic Analytes - Others										
2931	1,2-Dibromo-3-chloropropane	504.1	0.0002	mg/L	0.00001	ND	1	6/19/2018	14:30	6/26/2018	6/27/2018
2946	1,2-Dibromoethane	504.1	0.00005	mg/L	0.00001	ND	1	6/19/2018	14:30	6/26/2018	6/27/2018
2105	2,4-D	515.4	70	ug/L	0.1	ND	1	6/19/2018	14:30	6/27/2018	7/10/2018
2066	3-Hydroxycarbofuran	531.2	--	ug/L	1.0	ND	1	6/19/2018	14:30		7/3/2018
2051	Alachlor	525.2	2	ug/L	0.2	ND	1	6/19/2018	14:30	6/21/2018	7/2/2018
2047	Aldicarb	531.2	7	ug/L	1.0	ND	1	6/19/2018	14:30		7/3/2018
2044	Aldicarb sulfone	531.2	7	ug/L	1.0	ND	1	6/19/2018	14:30		7/3/2018
2043	Aldicarb sulfoxide	531.2	7	ug/L	1.0	ND	1	6/19/2018	14:30		7/3/2018
2356	Aldrin	505	--	mg/L	0.00007	ND	1	6/19/2018	14:30	6/25/2018	6/26/2018
2050	Atrazine	525.2	3	ug/L	0.1	ND	1	6/19/2018	14:30	6/21/2018	7/2/2018
2625	Bentazon	515.4	--	ug/L	1	ND	1	6/19/2018	14:30	6/27/2018	7/10/2018
2306	Benzo(A)pyrene	525.2	0.2	ug/L	0.1	ND	1	6/19/2018	14:30	6/21/2018	7/2/2018
2076	Butachlor	525.2	--	ug/L	0.2	ND	1	6/19/2018	14:30	6/21/2018	7/2/2018

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2021	Carbaryl	531.2	--	ug/L	1.0	ND		1	6/19/2018	14:30		7/3/2018
2046	Carbofuran	531.2	40	ug/L	1.0	ND		1	6/19/2018	14:30		7/3/2018
2959	Chlordane	505	0.002	mg/L	0.0001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2031	Dalapon	515.4	200	ug/L	1	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2035	Di(2-ethylhexyl) adipate	525.2	400	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2039	Di(2-ethylhexyl) phthalate	525.2	6	ug/L	0.6	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2440	Dicamba	515.4	--	ug/L	1	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2933	Dichloran	505	--	mg/L	0.001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2070	Dieldrin	505	--	mg/L	0.00002	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2041	Dinoseb	515.4	7	ug/L	0.2	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2032	Diquat	549.2	20	ug/L	0.4	ND		1	6/19/2018	14:30	6/19/2018	7/2/2018
2033	Endothall	548.1	100	ug/L	9	ND		1	6/19/2018	14:30	6/25/2018	6/28/2018
2005	Endrin	505	0.002	mg/L	0.00001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2034	Glyphosate	547	700	ug/L	6	ND		1	6/19/2018	14:30		6/25/2018
2065	Heptachlor	505	0.0004	mg/L	0.00001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2067	Heptachlor Epoxide	505	0.0002	mg/L	0.00001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2274	Hexachlorobenzene	505	0.001	mg/L	0.0001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2042	Hexachlorocyclopentadiene	505	0.05	mg/L	0.0001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2010	Lindane	505	0.0002	mg/L	0.00002	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2022	Methomyl	531.2	--	ug/L	1.0	ND		1	6/19/2018	14:30		7/3/2018
2015	Methoxychlor	505	0.04	mg/L	0.0001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2045	Metolachlor	525.2	--	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2595	Metribuzin	525.2	--	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2626	Molinate	525.2	--	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2036	Oxamyl	531.2	200	ug/L	1.0	ND		1	6/19/2018	14:30		7/3/2018
2934	Pentachloronitrobenzene	505	--	mg/L	0.0001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2326	Pentachlorophenol	515.4	1	ug/L	0.04	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2040	Picloram	515.4	500	ug/L	0.1	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2077	Propachlor	525.2	--	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2110	Silvex 2,4,5-TP	515.4	50	ug/L	0.2	ND		1	6/19/2018	14:30	6/27/2018	7/10/2018
2037	Simazine	525.2	4	ug/L	0.1	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2627	Thiobencarb	525.2	--	ug/L	0.2	ND		1	6/19/2018	14:30	6/21/2018	7/2/2018
2383	Total PCBs	505	0.0005	mg/L	0.0005	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2910	Total Phenols	420.4	--	mg/L	0.001	ND	R2	1	6/19/2018	14:30		6/21/2018
2020	Toxaphene	505	0.003	mg/L	0.001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018
2055	Trifluralin	505	--	mg/L	0.001	ND		1	6/19/2018	14:30	6/25/2018	6/26/2018

Qualifiers:

R2: The laboratory is not accredited for this analyte. The resulting value should be used for informational purposes only.

Laboratory ID: 2568

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

ANALYTICAL REPORTS

SAMPLE CODE: 382623

6/25/2018

Customer: C

Source: Dunsmuir Municipal-Shasta Springs
Source Type: Spring/Municipal
Brand Name:
Production Code: CRW 1
Container Size: 1000 ml.

Date/Time Received: 6/18/2018 08:40
Collected by: K. Marshall

The results herein conform to TNI and ISO/IEC 17025:2005 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. Eastern Time.

Legend:

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	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed	
				Microbiologicals								
3114	E. Coli	9223B	1	MPN/100 mL	1	ND	1	6/19/2018	08:05		6/19/2018	09:22
3001	Standard Plate Count	9215B	500	CFU/ml	1	<1	1	6/19/2018	08:05		6/19/2018	09:00
				Pour Plate Method, 35°C/48hr, Plate Count Agar								
3000	Total Coliform	9223B	1	MPN/100 mL	1	ND	1	6/19/2018	08:05		6/19/2018	09:22

Analyst	Tests
CF	9223B,9215B

Sarah Buchanan

Sarah Buchanan, Project Manager

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2112423
Pace Project No.: 30256581

Sample: 382624 **Lab ID: 30256581001** Collected: 06/20/18 10:45 Received: 06/20/18 10:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments:
- FINISHED WATER, Shasta Springs Dunsmuir Municipal, Dunsmuir CA
- Castle Rock Spring, Cont. size: 2 33.8 oz, Prod. code: 5956000340
- sample opened 6/20/18 @10:45 by Megan Smetanka
- Sample collection dates and times were not present on the sample containers.
- Upon receipt at the laboratory, 2.5 mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	**11.1 ± 20.3 (34.5) C:NA T:NA**	pCi/L	06/20/18 19:15	10043-92-2	
Gross Alpha	EPA 900.0	**1.14 ± 1.37 (2.91) C:NA T:NA**	pCi/L	06/29/18 06:56	12587-46-1	
Gross Beta	EPA 900.0	**2.05 ± 1.00 (1.80) C:NA T:NA**	pCi/L	06/29/18 06:56	12587-47-2	
Radium-226	EPA 903.1	**0.526 ± 0.482 (0.708) C:NA T:86%**	pCi/L	07/03/18 13:31	13982-63-3	
Radium-228	EPA 904.0	**0.177 ± 0.419 (0.936) C:70% T:77%**	pCi/L	07/03/18 13:29	15262-20-1	
Total Radium	Total Radium Calculation	**0.703 ± 0.901 (1.64)**	pCi/L	07/06/18 13:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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:	041818534
Customer ID:	NTLI78
Customer PO:	14630
Project ID:	

Attn: Susan Henderson
National Testing Laboratories, Inc.
6571 Wilson Mills Road
Cleveland, OH 44143

Proj: 2112423

Phone:	(440) 449-2525
Fax:	(Ema) il -only
Collected:	
Received:	06/20/2018
Analyzed:	07/06/2018

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 (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
382624 041818534-0001	6/20/2018 11:30 AM	100	1387	0.0768	None Detected	ND	0.18	<0.18	0.00 - 0.67

Analyst(s)
Ted Young (1)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 07/06/2018 14:23:20

eurofins | Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: National Testing Laboratories

Attn: Susan Henderson
6571 Wilson Mills Road
Cleveland, OH 44143

Report: 420316
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3970056	382624 Order #2112423	335.4	06/22/18 16:45	EEA	06/22/18 09:15
3970058	382624 Order #2112423	331.0	06/22/18 16:45	EEA	06/22/18 09:15

Report Summary

Note: Samples were provided by the client in sealed finished product containers. The samples were poured off into EEA containers upon receipt.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Traci Chlebowski at (574) 233-4777.

Authorized Signature — Title: ASM — Date: 07/10/2018

Client Name: National Testing Laboratories
Report #: 420316

Client Name: National Testing Laboratories Report #: 420316

Sampling Point: 382624 Order #2112423 PWS ID: Not Supplied

General Chemistry									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
14797-73-0	Perchlorate	331.0	---	0.05	< 0.05	ug/L	---	06/27/18 23:26	3970058
57-12-5	Cyanide, Total	335.4	0.1 &	0.02	< 0.02	mg/L	07/02/18 12:53	07/02/18 16:02	3970056

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL	SOQ
Symbol:	*	^	!	&

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.