



STATE OF NEW YORK
DEPARTMENT OF HEALTH

Wadsworth Center The Governor Nelson A. Rockefeller Empire State Plaza P.O. BOX 509 Albany, New York 12201-0509

RICHARD F. DAINES, M.D.
Commissioner

WENDY E. SAUNDERS
Executive Deputy Commissioner

March 26, 2009

LAB ID: 11642
MR. MERLE SHOCKEY
USGS NATIONAL WATER QUALITY LABORATORY
POB 25046-MS 407-BLDG 95
DENVER, CO 80225-0046

Dear Mr. Shockey:

Your laboratory's scores for the Environmental Laboratory Approval Program (ELAP) January 2009 Non-potable Water/Solid & Chemical Materials/Air & Emissions Chemistry Proficiency Test #320 are enclosed.

ELAP validates the fitness for use of each sample/analyte used in its PT studies. Homogeneity and prepared value evaluations were completed prior to shipment for this study. After the study close date all samples/analytes are evaluated again for stability.

The Hexavalent Chromium sample 2046 was found to be unstable. A significant loss of analyte was observed. As a result the sample is not scored.

The score "Check for Error" is a passing score. It indicates a result that fell outside of the range of the mean plus/minus two standard deviations but is within the range of the mean plus/minus three standard deviations.

Each unsatisfactory analytical result requires that the laboratory director investigate the cause of the laboratory's performance and establish a remedial plan. The investigation report and remedial plan must be on file in your laboratory and available for review during your on-site assessment.

A statistical summary for this proficiency test round may be requested by contacting the Program at ELAP@health.state.ny.us. This summary provides technology based scoring and statistical information.

Sincerely,

Daniel Dickinson
Technical Director
Environmental Laboratory
Approval Program

WADSWORTH CENTER
NEW YORK STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORY APPROVAL PROGRAM

Proficiency Test Report

Lab Id: 11642 USGS NATIONAL WATER QUALITY LABORATORY
 POB 25046-MS 407-BLDG 95
 EPA Lab Code: DENVER, CO 80225-0046
 CO00009 (303) 236-2000
 Director: MR. MERLE SHOCKEY

Shipment Date : 20-Jan-2009
 Closing Date : 05-Mar-2009
 Score Date : 26-Mar-2009

ELAP is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 320 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result	Mean/Target *	Warning Limits	Acceptance Limits	Score
Sample: Non Potable Water Color									
Color EPA Code: N/A	Color	2056	USGS I-1250-85		50	47.6		40.0 - 60.0	Satisfactory <i>54 passed out of 62 reported results.</i>
Sample: Non Potable Water Demand									
Chemical Oxygen Demand ** EPA Code: 0036	mg/L	2001	USGS I-3561-85		219	220 *	184 - 235	171 - 248	Satisfactory <i>75 passed out of 81 reported results.</i>
Organic Carbon, Total ** EPA Code: N/A	mg/L	2001	USGS O-3100-83		91.8	87.0 *	77.3 - 95.4	72.7 - 99.9	Satisfactory <i>50 passed out of 50 reported results.</i>
Sample: Non Potable Water Chlorophenoxy Acid Pesticides (Herbicides)									
2,4-D EPA Code: N/A	ug/L	2018	USGS O-2060-01		3.88	4.93		0.63 - 10.2	Satisfactory <i>39 passed out of 39 reported results.</i>
Dicamba EPA Code: N/A	ug/L	2018	USGS O-2060-01		3.96	5.11		0.551 - 9.66	Satisfactory <i>28 passed out of 28 reported results.</i>
Sample: Non Potable Water Inorganic Nutrients									
Ammonia (as N) ** EPA Code: N/A	mg/L	2007	USGS I-2522-90		15.1	15.6 *	12.9 - 18.0	11.6 - 19.3	Satisfactory <i>122 passed out of 127 reported results.</i>
Nitrate (as N) ** EPA Code: N/A	mg/L	2007	USGS I-2545-90		27.7	27.1 *	23.0 - 30.7	21.1 - 32.7	Satisfactory <i>119 passed out of 120 reported results.</i>
Orthophosphate (as P) ** EPA Code: N/A	mg/L	2007	USGS I-2601-90		2.90	2.94 *	2.58 - 3.32	2.40 - 3.51	Satisfactory <i>90 passed out of 97 reported results.</i>
Sample: Non Potable Water Surfactants									
Surfactants (as MBAS) EPA Code: N/A	mg/L	2043	USGS O-3128-95		0.276	0.41		0.237 - 0.583	Satisfactory <i>36 passed out of 41 reported results.</i>

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Sample: Non Potable Water Metals I and II									
Silver, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		497	489 *	443 - 537	420 - 560	Satisfactory <i>130 passed out of 138 reported results.</i>
Silver, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		484	489 *	443 - 537	420 - 560	Satisfactory <i>130 passed out of 138 reported results.</i>
Aluminum, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		638	612 *	524 - 699	480 - 742	Satisfactory <i>103 passed out of 106 reported results.</i>
Aluminum, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		601	612 *	524 - 699	480 - 742	Satisfactory <i>103 passed out of 106 reported results.</i>
Arsenic, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		774	768 *	688 - 856	646 - 898	Satisfactory <i>140 passed out of 142 reported results.</i>
Barium, Total EPA Code: 0237	ug/L	2011A	USGS I-4472-97		657	643		560 - 727	Satisfactory <i>113 passed out of 119 reported results.</i>
Barium, Total EPA Code: 0237	ug/L	2011A	USGS I-4471-97		660	643		560 - 727	Satisfactory <i>113 passed out of 119 reported results.</i>
Beryllium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		371	400 *	358 - 433	340 - 452	Satisfactory <i>114 passed out of 116 reported results.</i>
Beryllium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		374	400 *	358 - 433	340 - 452	Satisfactory <i>114 passed out of 116 reported results.</i>
Boron, Total EPA Code: N/A	ug/L	2011A	USGS I-4472-97		1720	1700		1400 - 2000	Satisfactory <i>53 passed out of 54 reported results.</i>
Cadmium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		463	466 *	420 - 507	398 - 529	Satisfactory <i>146 passed out of 149 reported results.</i>
Cadmium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		466	466 *	420 - 507	398 - 529	Satisfactory <i>146 passed out of 149 reported results.</i>

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Shipment: 320 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result	Mean/Target *	Warning Limits	Acceptance Limits	Score
Sample: Non Potable Water Metals I and II									
Cobalt, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		673	665 *	611 - 718	585 - 745	Satisfactory <i>92 passed out of 95 reported results.</i>
Cobalt, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		670	665 *	611 - 718	585 - 745	Satisfactory <i>92 passed out of 95 reported results.</i>
Chromium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		322	322 *	294 - 351	279 - 365	Satisfactory <i>128 passed out of 139 reported results.</i>
Copper, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		797	800 *	753 - 852	728 - 877	Satisfactory <i>135 passed out of 148 reported results.</i>
Copper, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		799	800 *	753 - 852	728 - 877	Satisfactory <i>135 passed out of 148 reported results.</i>
Iron, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		584	578 *	533 - 632	509 - 656	Satisfactory <i>89 passed out of 96 reported results.</i>
Manganese, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		3080	3120 *	2920 - 3360	2810 - 3470	Satisfactory <i>116 passed out of 122 reported results.</i>
Manganese, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		3090	3120 *	2920 - 3360	2810 - 3470	Satisfactory <i>116 passed out of 122 reported results.</i>
Nickel, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		1040	1040 *	978 - 1120	941 - 1160	Satisfactory <i>129 passed out of 140 reported results.</i>
Nickel, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		1040	1040 *	978 - 1120	941 - 1160	Satisfactory <i>129 passed out of 140 reported results.</i>
Lead, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		88.9	88.8 *	77.1 - 101	71.2 - 106	Satisfactory <i>162 passed out of 173 reported results.</i>
Antimony, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		400	399 *	310 - 448	276 - 482	Satisfactory <i>118 passed out of 123 reported results.</i>

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result	Mean/Target *	Warning Limits	Acceptance Limits	Score
Sample: Non Potable Water Metals I and II									
Selenium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		964	956 *	818 - 1050	760 - 1110	Satisfactory <i>139 passed out of 140 reported results.</i>
Strontium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		120	122 *	110 - 134	104 - 140	Satisfactory <i>42 passed out of 42 reported results.</i>
Thallium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4472-97		203	200 *	161 - 235	142 - 254	Satisfactory <i>121 passed out of 123 reported results.</i>
Vanadium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		1400	1400 *	1280 - 1510	1230 - 1560	Satisfactory <i>97 passed out of 101 reported results.</i>
Vanadium, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		1480	1400 *	1280 - 1510	1230 - 1560	Satisfactory <i>97 passed out of 101 reported results.</i>
Zinc, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4471-97		942	990 *	899 - 1090	851 - 1140	Satisfactory <i>128 passed out of 133 reported results.</i>
Zinc, Total ** EPA Code: N/A	ug/L	2011A	USGS I-4020-05		990	990 *	899 - 1090	851 - 1140	Satisfactory <i>128 passed out of 133 reported results.</i>
Sample: Non Potable Water Metals III									
Mercury, Total ** EPA Code: N/A	ug/L	2011B	USGS I-4464-01		19.5	21.4 *	15.8 - 26.2	13.2 - 28.9	Satisfactory <i>106 passed out of 109 reported results.</i>
Molybdenum, Total ** EPA Code: N/A	ug/L	2011B	USGS I-4471-97		274	286 *	255 - 314	240 - 329	Satisfactory <i>94 passed out of 102 reported results.</i>
Molybdenum, Total ** EPA Code: N/A	ug/L	2011B	USGS I-4472-97		291	286 *	255 - 314	240 - 329	Satisfactory <i>94 passed out of 102 reported results.</i>
Sample: Non Potable Water Minerals									
Chloride ** EPA Code: N/A	mg/L	2008	USGS I-2057-85		166	173 *	157 - 188	149 - 196	Satisfactory <i>114 passed out of 117 reported results.</i>

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Sample: Non Potable Water Minerals									
Sulfate (as SO4) ** EPA Code: N/A	mg/L	2008	USGS I-2057-85		14.8	15.0 *	12.5 - 17.2	11.3 - 18.3	Satisfactory <i>91 passed out of 92 reported results.</i>
Sample: Non Potable Water Minerals II									
Calcium, Total ** EPA Code: N/A	mg/L	2037	USGS I-4471-97		29.6	30.4 *	28.3 - 33.4	27.0 - 34.7	Satisfactory <i>78 passed out of 80 reported results.</i>
Potassium, Total ** EPA Code: N/A	mg/L	2037	SM 18-21 3120B (99)		15.6	15.8 *	13.9 - 17.9	12.9 - 18.9	Satisfactory <i>73 passed out of 77 reported results.</i>
Magnesium, Total ** EPA Code: N/A	mg/L	2037	USGS I-4471-97		19.2	20.3 *	18.4 - 22.3	17.4 - 23.3	Satisfactory <i>83 passed out of 84 reported results.</i>
Sodium, Total ** EPA Code: N/A	mg/L	2037	USGS I-4471-97		64.3	67.0 *	60.2 - 73.5	56.9 - 76.9	Satisfactory <i>80 passed out of 81 reported results.</i>
Sample: Non Potable Water Nitrite									
Nitrite as N EPA Code: 1840	mg/L	2041	USGS I-2540-90		2.80	2.87		2.43 - 3.31	Satisfactory <i>107 passed out of 111 reported results.</i>
Sample: Non Potable Water Nitrosamines									
N-Nitrosodimethylamine EPA Code: N/A	ug/L	2014	USGS O-3116-87		97.1	48.7		10.0 - 116	Satisfactory <i>57 passed out of 59 reported results.</i>
N-Nitrosodi-n-propylamine EPA Code: N/A	ug/L	2014	USGS O-3116-87		57.1	50.4		16.5 - 84.2	Satisfactory <i>67 passed out of 67 reported results.</i>
Sample: Non Potable Water Acid extractables									
2,4,6-Trichlorophenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		75.1	71.4		28.7 - 114	Satisfactory <i>67 passed out of 67 reported results.</i>
2,4-Dichlorophenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		44.1	43.2		16.2 - 70.2	Satisfactory <i>67 passed out of 67 reported results.</i>

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Sample: Non Potable Water Acid extractables									
2,4-Dimethylphenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		69.3	73.4		20.0 - 127	Satisfactory <i>67 passed out of 67 reported results.</i>
2,4-Dinitrophenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		89.3	78.9		12.0 - 166	Satisfactory <i>61 passed out of 65 reported results.</i>
2-Chlorophenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		129	120		44.1 - 196	Satisfactory <i>66 passed out of 67 reported results.</i>
2-Nitrophenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		128	122		35.8 - 208	Satisfactory <i>67 passed out of 67 reported results.</i>
4-Chloro-3-methylphenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		142	147		69.2 - 225	Satisfactory <i>67 passed out of 67 reported results.</i>
Phenol EPA Code: N/A	ug/L	2035	USGS O-3116-87		91.6	39.6		13.0 - 177	Satisfactory <i>67 passed out of 67 reported results.</i>
Sample: Non Potable Water Base/Neutrals									
1,2,4-Trichlorobenzene EPA Code: N/A	ug/L	2036	USGS O-3116-87		42.5	44.3		12.5 - 76.1	Satisfactory <i>69 passed out of 69 reported results.</i>
2,4-Dinitrotoluene EPA Code: N/A	ug/L	2036	USGS O-3116-87		< 0.43	< 20.0 *			Satisfactory <i>65 passed out of 66 reported results.</i>
2,6-Dinitrotoluene EPA Code: N/A	ug/L	2036	USGS O-3116-87		68.0	65.9		32.3 - 99.4	Satisfactory <i>63 passed out of 66 reported results.</i>
2-Chloronaphthalene EPA Code: N/A	ug/L	2036	USGS O-3116-87		57.2	53.8		21.4 - 86.1	Satisfactory <i>66 passed out of 66 reported results.</i>
4-Chlorophenylphenyl ether EPA Code: N/A	ug/L	2036	USGS O-3116-87		51.7	50.5		23.3 - 77.7	Satisfactory <i>64 passed out of 66 reported results.</i>

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Sample: Non Potable Water Base/Neutrals									
4-Bromophenylphenyl ether EPA Code: N/A	ug/L	2036	USGS O-3116-87		76.8	74.8		29.5 - 120	Satisfactory <i>64 passed out of 65 reported results.</i>
Acenaphthene EPA Code: N/A	ug/L	2036	USGS O-3116-87		134	124		61.5 - 186	Satisfactory <i>68 passed out of 69 reported results.</i>
Anthracene EPA Code: N/A	ug/L	2036	USGS O-3116-87		66.8	67.1		33.9 - 100	Satisfactory <i>68 passed out of 69 reported results.</i>
Acenaphthylene EPA Code: N/A	ug/L	2036	USGS O-3116-87		113	109		54.5 - 164	Satisfactory <i>67 passed out of 68 reported results.</i>
Bis(2-chloroethyl)ether EPA Code: N/A	ug/L	2036	USGS O-3116-87		136	111		40.0 - 182	Satisfactory <i>65 passed out of 66 reported results.</i>
Bis(2-chloroethoxy)methane EPA Code: N/A	ug/L	2036	USGS O-3116-87		64.9	57.2		28.3 - 86.1	Satisfactory <i>65 passed out of 66 reported results.</i>
Bis(2-chloroisopropyl)ether EPA Code: N/A	ug/L	2036	USGS O-3116-87		95.3	82.0		27.6 - 136	Satisfactory <i>62 passed out of 64 reported results.</i>
Bis(2-ethylhexyl)phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		< 2.00	< 20.0 *			Satisfactory <i>67 passed out of 69 reported results.</i>
Benzo(a)anthracene EPA Code: N/A	ug/L	2036	USGS O-3116-87		72.7	73.4		38.7 - 108	Satisfactory <i>66 passed out of 68 reported results.</i>
Benzo(a)pyrene EPA Code: N/A	ug/L	2036	USGS O-3116-87		55.3	52.7		20.0 - 85.4	Satisfactory <i>65 passed out of 68 reported results.</i>
Benzo(b)fluoranthene EPA Code: N/A	ug/L	2036	USGS O-3116-87		40.7	40.8		16.9 - 64.6	Satisfactory <i>65 passed out of 69 reported results.</i>
Benzo(g,h,i)perylene EPA Code: N/A	ug/L	2036	USGS O-3116-87		97.8	93.7		42.5 - 145	Satisfactory <i>66 passed out of 68 reported results.</i>

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Sample: Non Potable Water Base/Neutrals									
Benzo(k)fluoranthene EPA Code: N/A	ug/L	2036	USGS O-3116-87		137	134		40.8 - 226	Satisfactory <i>68 passed out of 69 reported results.</i>
Benzyl butyl phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		127	117		29.5 - 205	Satisfactory <i>69 passed out of 69 reported results.</i>
Chrysene EPA Code: N/A	ug/L	2036	USGS O-3116-87		44.3	44.2		20.7 - 67.8	Satisfactory <i>68 passed out of 69 reported results.</i>
Dibenzo(a,h)anthracene EPA Code: N/A	ug/L	2036	USGS O-3116-87		44.0	39.4		12.6 - 66.3	Satisfactory <i>61 passed out of 68 reported results.</i>
Di-n-butyl phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		145	128		51.4 - 204	Satisfactory <i>67 passed out of 69 reported results.</i>
Diethyl phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		< 0.61	< 65.0 *			Satisfactory <i>67 passed out of 69 reported results.</i>
Dimethyl phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		134	99.8		15.0 - 217	Satisfactory <i>66 passed out of 69 reported results.</i>
Di-n-octyl phthalate EPA Code: N/A	ug/L	2036	USGS O-3116-87		44.0	51.0		16.2 - 85.8	Satisfactory <i>67 passed out of 69 reported results.</i>
Fluoranthene EPA Code: N/A	ug/L	2036	USGS O-3116-87		77.3	75.8		40.7 - 111	Satisfactory <i>68 passed out of 69 reported results.</i>
Hexachlorobenzene EPA Code: N/A	ug/L	2036	USGS O-3116-87		126	125		66.7 - 184	Satisfactory <i>68 passed out of 70 reported results.</i>
Indeno(1,2,3-c,d)pyrene EPA Code: N/A	ug/L	2036	USGS O-3116-87		73.0	71.6		26.2 - 117	Satisfactory <i>67 passed out of 69 reported results.</i>
Isophorone EPA Code: N/A	ug/L	2036	USGS O-3116-87		< 0.40	< 30.0 *			Satisfactory <i>63 passed out of 64 reported results.</i>

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ENVIRONMENTAL LABORATORY APPROVAL PROGRAM**

Proficiency Test Report

Lab Id: 11642 USGS NATIONAL WATER QUALITY LABORATORY
 POB 25046-MS 407-BLDG 95
 EPA Lab Code: DENVER, CO 80225-0046
 CO00009 (303) 236-2000
 Director: MR. MERLE SHOCKEY

Shipment Date : 20-Jan-2009
 Closing Date : 05-Mar-2009
 Score Date : 26-Mar-2009

ELAP is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 320 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result	Mean/Target *	Warning Limits	Acceptance Limits	Score
Sample: Non Potable Water Base/Neutrals									
Naphthalene EPA Code: N/A	ug/L	2036	USGS O-3116-87		84.8	75.1		27.5 - 123	Satisfactory <i>66 passed out of 66 reported results.</i>
Nitrobenzene EPA Code: N/A	ug/L	2036	USGS O-3116-87		71.5	61.2		25.1 - 97.3	Satisfactory <i>66 passed out of 66 reported results.</i>
Phenanthrene EPA Code: N/A	ug/L	2036	USGS O-3116-87		92.1	87.3		48.4 - 126	Satisfactory <i>67 passed out of 68 reported results.</i>
Pyrene EPA Code: N/A	ug/L	2036	USGS O-3116-87		105	102		40.2 - 163	Satisfactory <i>68 passed out of 69 reported results.</i>
Sample: Non Potable Water Organic Nutrients									
Kjeldahl Nitrogen, Total ** EPA Code: 0034	mg/L	2004	USGS I-4515-91		30.3	29.3 *	22.3 - 34.6	19.3 - 37.6	Satisfactory <i>89 passed out of 89 reported results.</i>
Phosphorus, Total ** EPA Code: 0035	mg/L	2004	USGS I-4610-91		9.12	8.62 *	7.64 - 9.67	7.13 - 10.2	Satisfactory <i>98 passed out of 106 reported results.</i>
Phosphorus, Total ** EPA Code: 0035	mg/L	2004	EPA 365.1 Rev. 2.0		8.85	8.62 *	7.64 - 9.67	7.13 - 10.2	Satisfactory <i>98 passed out of 106 reported results.</i>
Sample: Non Potable Water Chlorinated Hydrocarbon Pesticides									
4,4-DDE ** EPA Code: N/A	ug/L	2017	USGS O-1126-95		6.11	7.67 *	4.50 - 8.82	3.42 - 9.90	Satisfactory <i>59 passed out of 64 reported results.</i>
alpha-BHC EPA Code: N/A	ug/L	2017	USGS O-1126-95		7.66	6.80		3.30 - 10.3	Satisfactory <i>62 passed out of 64 reported results.</i>
Sample: Non Potable Water Phenols									
Phenols ** EPA Code: N/A	mg/L	2009	SM 18 5530 (USGS Only)		2.46	2.44	1.72 - 3.17	1.35 - 3.53	Satisfactory <i>61 passed out of 64 reported results.</i>

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result	Mean/Target *	Warning Limits	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
1,1,1-Trichloroethane ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		50.8	51.5 *	38.1 - 62.0	32.2 - 67.9	Satisfactory <i>83 passed out of 86 reported results.</i>
1,1,2,2-Tetrachloroethane EPA Code: N/A	ug/L	2013	USGS O-4127-96		48.1	49.7		27.4 - 72.1	Satisfactory <i>82 passed out of 84 reported results.</i>
1,1,2-Trichloroethane EPA Code: N/A	ug/L	2013	USGS O-4127-96		85.9	82.9		57.7 - 108	Satisfactory <i>80 passed out of 84 reported results.</i>
1,1-Dichloroethane EPA Code: N/A	ug/L	2013	USGS O-4127-96		76.0	77.5		51.8 - 103	Satisfactory <i>83 passed out of 84 reported results.</i>
1,1-Dichloroethene EPA Code: N/A	ug/L	2013	USGS O-4127-96		77.3	82.5		43.2 - 122	Satisfactory <i>86 passed out of 88 reported results.</i>
1,2-Dichloroethane ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		75.5	73.3 *	58.4 - 88.6	50.9 - 96.2	Satisfactory <i>83 passed out of 84 reported results.</i>
1,2-Dichlorobenzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		79.8	81.4 *	64.8 - 97.3	56.7 - 105	Satisfactory <i>99 passed out of 101 reported results.</i>
1,2-Dichloropropane EPA Code: N/A	ug/L	2013	USGS O-4127-96		65.1	63.3		42.0 - 84.6	Satisfactory <i>81 passed out of 83 reported results.</i>
1,3-Dichlorobenzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		100	102.5 *	80.0 - 120	70.0 - 130	Satisfactory <i>100 passed out of 100 reported results.</i>
1,4-Dichlorobenzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		83.1	88.2 *	68.3 - 102	59.9 - 110	Satisfactory <i>100 passed out of 102 reported results.</i>
Benzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		< 0.16	< 8.00 *			Satisfactory <i>98 passed out of 102 reported results.</i>
Bromodichloromethane ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		91.3	94.6 *	77.4 - 118	67.3 - 128	Satisfactory <i>82 passed out of 83 reported results.</i>

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Sample: Non Potable Water Purgeables									
Bromoform ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		59.1	66.1 *	50.7 - 83.1	42.6 - 91.1	Satisfactory <i>81 passed out of 83 reported results.</i>
cis-1,3-Dichloropropene EPA Code: N/A	ug/L	2013	USGS O-4127-96		25.4	27.0 *		18.9 - 35.1	Satisfactory <i>83 passed out of 85 reported results.</i>
Carbon tetrachloride ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		52.0	53.1 *	36.4 - 65.3	29.1 - 72.5	Satisfactory <i>82 passed out of 83 reported results.</i>
Trichlorofluoromethane EPA Code: N/A	ug/L	2013	USGS O-4127-96		33.0	35.3 *		14.1 - 56.5	Satisfactory <i>81 passed out of 82 reported results.</i>
Chlorobenzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		24.1	23.8 *	19.3 - 28.0	17.1 - 30.2	Satisfactory <i>94 passed out of 97 reported results.</i>
Dibromochloromethane ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		77.4	79.9 *	63.3 - 97.6	54.8 - 106	Satisfactory <i>80 passed out of 82 reported results.</i>
Chloroethane EPA Code: N/A	ug/L	2013	USGS O-4127-96		37.0	36.1 *		14.4 - 57.8	Satisfactory <i>80 passed out of 85 reported results.</i>
Chloroform ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		49.2	48.6 *	38.5 - 58.0	33.6 - 62.9	Satisfactory <i>80 passed out of 83 reported results.</i>
Ethyl benzene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		47.0	48.2 *	37.8 - 56.7	33.1 - 61.4	Satisfactory <i>101 passed out of 102 reported results.</i>
Methylene chloride ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		23.2	23.3 *	17.3 - 30.4	14.1 - 33.6	Satisfactory <i>83 passed out of 85 reported results.</i>
trans-1,3-Dichloropropene EPA Code: N/A	ug/L	2013	USGS O-4127-96		63.1	67.0		43.2 - 90.8	Satisfactory <i>83 passed out of 85 reported results.</i>
Tetrachloroethene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		< 0.4	< 10.0 *			Satisfactory <i>86 passed out of 89 reported results.</i>

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Sample: Non Potable Water Purgeables									
Toluene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		76.5	84.1 *	66.1 - 97.2	58.3 - 105	Satisfactory <i>97 passed out of 103 reported results.</i>
Trichloroethene ** EPA Code: N/A	ug/L	2013	USGS O-4127-96		37.1	37.6 *	28.1 - 45.3	23.8 - 49.6	Satisfactory <i>87 passed out of 90 reported results.</i>
Total Xylenes EPA Code: N/A	ug/L	2013	USGS O-4127-96		70.5	69.9		41.0 - 98.9	Satisfactory <i>97 passed out of 100 reported results.</i>
Vinyl chloride EPA Code: N/A	ug/L	2013	USGS O-4127-96		< 0.8	< 20.0 *			Satisfactory <i>84 passed out of 87 reported results.</i>
Sample: Non Potable Water Residue									
Solids, Total EPA Code: N/A	mg/L	2002	USGS I-3750-85		269	271		234 - 309	Satisfactory <i>79 passed out of 93 reported results.</i>
Sample: Non Potable Water Total Dissolved Solids									
Solids, Total Dissolved ** EPA Code: N/A	mg/L	2040	USGS I-1750-85		484	473	399 - 547	363 - 583	Satisfactory <i>92 passed out of 92 reported results.</i>
Sample: Non Potable Water Turbidity									
Turbidity ** EPA Code: 2055	NTU	2052	SM 18-21 2130 B (01)		9.25	8.00 *		6.72 - 9.11	Unsatisfactory <== <i>38 passed out of 54 reported results.</i>