



ANALYTICAL REPORT

Montana Environmental Laboratory LLC

1170 N. Meridian Rd., P.O. Box 8900, Kalispell, MT 59904-1900
Phone: 406-755-2131 Fax: 406-257-5359 www.melab.us

Roger Noble
Applied Water Consulting
P. O. Box 7667
Kalispell, MT 59904

PWS ID:
Project: Montana Artesian Water

Client Sample ID: Montana Artesian Water

Lab ID: 1501961-01

Matrix: DRINKING WATER

Collected: 03/08/2015 16:00

Received: 03/09/2015 10:10

<u>Analyses</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>
Alkalinity - Bicarbonate	176	mg/L	1	500	SM2320B		03/12/2015 14:37	BLW
Alkalinity - Total	176	mg/L	1	500	SM2320B		03/12/2015 14:37	BLW
Chloride	1.3	mg/L	0.1	250	E300		03/10/2015 12:51	BLW
Chlorine, Total	ND	mg/L	0.02	4	SM4500 CL G		03/09/2015 13:53	BLW
Conductivity	331	umhos/cm	0.1		SM2510B		03/10/2015 13:34	GDM
Fluoride	0.13	mg/L	0.01	4	E300.0		03/10/2015 12:51	BLW
Nitrate	0.11	mg/L	0.01	10	E353.2		03/10/2015 12:51	BLW
Nitrite	ND	mg/L	0.01	1	E353.2		03/10/2015 12:51	BLW
pH	7.87	pH	0.1		E150.1	03/09/2015 0:00	03/10/2015 14:13	GDM
Sulfate	2.7	mg/L	0.1	500	E300.0		03/10/2015 12:51	BLW
Turbidity	0.15	NTU	0.05	0.4	E180.1		03/09/2015 14:17	BLW

MCL = Maximum Contaminant Limit ND = Not Detected
RL = Reporting Limit

MEL REVIEW: *[Signature]*



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PWS ID:
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Client Sample ID: Montana Artesian Water

Lab ID: 1501961-01

<i>Bromate with DCA surrogate</i>									
<u>Date Received</u>	<u>Date Collected</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Matrix</u>	<u>Sample Amount</u>	<u>Factor</u>	<u>Units</u>	<u>Method</u>	<u>Analyst</u>
03/09/2015 10:10	03/08/2015 16:00		03/25/2015 9:18	DRINKING WATER	1		mg/L	E300.1	BLW

Parameter	Result	RL	MCL
Bromate	ND	0.005	0.010

Compound	% Recovered	QC Limits (%)	
DCA - surrogate	95%	80	120

QUALITY CONTROL REPORT

Montana Environmental Laboratory LLC

Bromate with DCA surrogate

Order# M1501961

BLANK DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	0011447-02			0		
CONTROL DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	0011447-03		100	98.9	98.9%	
CONTROL DUP DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	0011447-04		100	98.2	98.2%	0.7%
DUPLICATE DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	1502146-01	0		0		0.0%
MS DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	1502146-01	0	25	26.2	104.8%	
MSD DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	1502146-01	0	25	25.1	100.4%	4.3%
SRM DRINKING WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bromate-mg/L	0011447-05		32.7	32.5	99.4%	

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	DCA - surrogate	0%	80	120
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	DCA - surrogate	100%	0	0
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL DUP	DCA - surrogate	104%	0	0
Type of QC	Surrogates	% Recovered	QC Limits (%)	
DUPLICATE	DCA - surrogate	95%	80	120

QUALITY CONTROL REPORT

Montana Environmental Laboratory LLC

Test Parameters

Order# M1501961

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
DRINKING WATER						
Chloride-mg/L	0011407-02			0		
Conductivity-umhos/cm	0011408-02			0.7		
Fluoride-mg/L	0011407-02			0		
Nitrate-mg/L	0011407-02			0		
Nitrate + Nitrite, Total-mg/L	0011407-02			0		
Nitrite-mg/L	0011407-02			0		
Sulfate-mg/L	0011407-02			0		
CONTROL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
DRINKING WATER						
Chloride-mg/L	0011407-03		16	15.836	99.9%	
Conductivity-umhos/cm	0011408-03		147	146	99.3%	
Fluoride-mg/L	0011407-03		2	1.98	99.9%	
Nitrate-mg/L	0011407-03		4	3.936	98.4%	
Nitrate + Nitrite, Total-mg/L	0011407-03		6	5.917	98.6%	
Nitrite-mg/L	0011407-03		2	1.981	99.1%	
pH-pH units	0011409-03		9.19	9.18	99.9%	
pH-pH units	0011409-03		9.19	9.18	99.9%	
pH-pH units	0011409-03		9.19	9.18	99.9%	
pH-pH units	0011409-03		9.19	9.18	99.9%	
Sulfate-mg/L	0011407-03		20	19.725	98.6%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
DRINKING WATER						
Chloride-mg/L	0011407-04		16	16.057	100.4%	1.4%
Fluoride-mg/L	0011407-04		2	1.99	99.5%	0.5%
Nitrate-mg/L	0011407-04		4	3.994	99.9%	1.5%
Nitrate + Nitrite, Total-mg/L	0011407-04		6	5.995	99.9%	1.3%
Nitrite-mg/L	0011407-04		2	2.001	100.1%	1.0%
Sulfate-mg/L	0011407-04		20	19.921	99.6%	1.0%
DUPLICATE	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
ENVIRO WATER						
Alkalinity - Total-mg/L	1502073-04	155		156		0.6%
Alkalinity - Total-mg/L	1502073-04	155		156		0.6%
Alkalinity - Total-mg/L	1502073-04	155		156		0.6%
Chloride-mg/L	1501950-03	18.745		18.805		0.3%
Conductivity-umhos/cm	1501947-01	298		305		2.3%
Fluoride-mg/L	1501950-03	0.118		0.114		3.4%
Nitrate-mg/L	1501950-03	0.77		0.78		1.3%
Nitrate + Nitrite, Total-mg/L	1501950-03	0.77		0.78		1.3%
Nitrite-mg/L	1501950-03	0		0		0.0%
pH-pH units	1501999-01	9.28		9.28		0.0%

QUALITY CONTROL REPORT

Montana Environmental Laboratory LLC

Test Parameters

Order# M1501961

DUPLICATE ENVIRO WATER		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
pH-pH units		1501999-01	9.28		9.28		0.0%
pH-pH units		1501999-01	9.28		9.28		0.0%
pH-pH units		1501999-01	9.28		9.28		0.0%
Sulfate-mg/L		1501950-03	12.117		12.17		0.4%
MS WASTE WATER		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity - Total-mg/L		1502073-04	155	100	255	100.0%	
Alkalinity - Total-mg/L		1502073-04	155	100	255	100.0%	
Alkalinity - Total-mg/L		1502073-04	155	100	255	100.0%	
Chloride-mg/L		1501950-03	18.745	8	26.185	93.3%	
Fluoride-mg/L		1501950-03	0.118	1	1.101	98.3%	
Nitrate-mg/L		1501950-03	0.77	2	2.734	98.2%	
Nitrate + Nitrite, Total-mg/L		1501950-03	0.77	3	3.718	98.3%	
Nitrite-mg/L		1501950-03	0	1	0.984	98.4%	
Sulfate-mg/L		1501950-03	12.117	10	21.785	95.7%	
MSD DRINKING WATER		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		1501950-03	18.745	8	26.284	94.2%	0.4%
Fluoride-mg/L		1501950-03	0.118	1	1.098	98.0%	0.3%
Nitrate-mg/L		1501950-03	0.77	2	2.72	97.5%	0.5%
Nitrate + Nitrite, Total-mg/L		1501950-03	0.77	3	3.734	98.8%	0.4%
Nitrite-mg/L		1501950-03	0	1	1.014	101.4%	3.0%
Sulfate-mg/L		1501950-03	12.117	10	21.824	97.1%	0.2%
SRM DRINKING WATER		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0011407-05		56.5	55.551	98.3%	
Fluoride-mg/L		0011407-05		2.36	2.179	92.3%	
Nitrate-mg/L		0011407-05		6.46	6.462	100.0%	
Nitrate + Nitrite, Total-mg/L		0011407-05		6.97	6.969	100.3%	
Nitrite-mg/L		0011407-05		0.51	0.527	103.3%	
Sulfate-mg/L		0011407-05		18.1	18.226	100.7%	



ANALYTICAL SUMMARY REPORT

February 18, 2014

Applied Water Consulting LLC
PO Box 7667
Kalispell, MT 59904-7667

Workorder No.: B14020735

Project Name: Lew Weaver

Energy Laboratories Inc Billings MT received the following 1 sample for Applied Water Consulting LLC on 2/12/2014 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B14020735-001	Lew Weaver	02/11/14 14:30	02/12/14	Drinking Water	Metals by ICP/ICPMS, Acid Soluble Metals by ICP/ICPMS, Drinking Water Alkalinity Anion - Cation Balance Conductivity Hardness as CaCO3 Hardness as CaCO3, grains/gallon Anions by Ion Chromatography Livestock Suitability; Irrigation Classification Nitrogen, Nitrate + Nitrite pH Drinking Water Metals Digestion by EPA 200.2 Sodium Adsorption Ratio Solids, Total Dissolved - Calculated

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: *Cindy Rohrer*
Laboratory Co-Manager

Digitally signed by
Cindy Rohrer
Date: 2014.02.18 14:01:15 -07:00

CLIENT: Applied Water Consulting LLC
Project: Lew Weaver
Sample Delivery Group: B14020735

Report Date: 02/18/14

CASE NARRATIVE

DOMESTIC WATER ANALYSIS EXPLANATIONS:

Alkalinity- is a measure of the water's capacity to neutralize acid. Water with a high alkalinity (above 300 mg/L), when boiled for an extended period of time, may form a deposit or develop an unpleasant taste. Water with a very low alkalinity (below 30 mg/L) corrodes pipes and plumbing.

Bicarbonate- is a buffer ion in water, derived from carbonate rocks and atmospheric CO₂. Water with pH 7.8 will be 60-90% buffered by bicarbonate. If water is heated, bicarbonate can combine with calcium or magnesium to form scale which can clog pipes and precipitate in sinks and laundry.

Calcium- is an essential human nutrient for bones and teeth. Excessive calcium with magnesium produces hard water, which causes taste problems, scale in pipes, tubs, and sinks and excessive soap consumption. Water softeners remove calcium but replace it with sodium, which may be harmful to people on low sodium diets.

Carbonate- along with bicarbonate, this ion accounts for the buffering capacity of waters with a pH greater than 9. It is most often present as salts (CaCO₃, MgCO₃) which precipitate at a high pH.

Chloride- less than 250 mg/L is recommended to prevent unpleasant taste. The normal range for drinking water is 5-20 mg/L. High values may be an early indicator of contamination. Chloride also makes water more corrosive towards the distribution system.

Conductivity (Specific Conductance)- a measure of the water's ability to conduct an electrical current, it increases as the amount of dissolved minerals increase. Conductivity is used as a check on the total dissolved solids in the water.

Hardness- caused mainly by calcium and magnesium, it produces incrustation on pipes, kitchen utensils, and tubs as well as excessive soap consumption. Upon heating, hard water may form scale deposits, alternately, soft water may result in a corrosion of water pipes. In general, 80-100 mg/L is considered acceptable, 200-500 mg/L is considered tolerable, and greater than 500 mg/L is considered unacceptable.

Magnesium- is an essential human nutrient for the heart and nervous system. Greater than 50 mg/L may have a laxative effect on first time users. Guidelines are often based on aesthetics (taste). Along with calcium, magnesium contributes to water hardness.

Nitrate + nitrite as N- 10 mg/L maximum contaminant level. Acutely toxic in infants under 6 months of age, nitrate produces a blood disorder called methemoglobinemia (blue baby syndrome), which limits the amount of oxygen the bloodstream can carry.

pH- is an aesthetic parameter. Low pH may cause corrosion of water pipes-while high pH may cause incrustation of pipes.

Potassium- is an essential human nutrient. It is necessary for nerve impulses. Moderate concentrations are acceptable, but greater than 2000 mg/L may be harmful to nervous and digestive systems.

Sodium- is an essential human nutrient necessary for nerve impulses. If a water softener is used to remove hardness, calcium is replaced by sodium. People on low sodium diets using water softeners should have the sodium level of their water checked and consult a physician. Less than 20 mg/L is ideal.

Sulfate- is recommended to be below 500 mg/L for health and aesthetic reasons. The major physiological effects when exceeded are catharsis (laxative effect) and gastrointestinal irritation. Sulfate may produce noticeable taste.

Total dissolved solids- represents the dissolved minerals in water. High values- above 1500 mg/l – may cause taste, corrosion, scaling and a laxative effect.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC
Project: Low Weaver
Lab ID: B14020735-001
Client Sample ID: Low Weaver

Report Date: 02/18/14
Collection Date: 02/11/14 14:30
Date Received: 02/12/14
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.9	s.u.	H	0.1		A4500-H B	02/12/14 17:08 / nra
Conductivity @ 25 C	317	umhos/cm		5		A2510 B	02/12/14 17:08 / nra
Solids, Total Dissolved - Calculated	197	mg/L		1		A1030F	02/18/14 10:58 / sln
INORGANICS							
Alkalinity, Total as CaCO3	177	mg/L		4		A2320 B	02/12/14 17:59 / rbf
Bicarbonate as HCO3	216	mg/L		4		A2320 B	02/12/14 17:59 / rbf
Carbonate as CO3	ND	mg/L		4		A2320 B	02/12/14 17:59 / rbf
Chloride	1	mg/L		1		E300.0	02/14/14 16:10 / jpv
Sulfate	3	mg/L		1		E300.0	02/14/14 16:10 / jpv
Hardness as CaCO3	172	mg/L		1		A2340 B	02/13/14 22:21 / sln
Hardness as CaCO3 - Grains	10.1	grains/gal		0.1		A2340 B	02/13/14 22:21 / sln
Sodium Adsorption Ratio (SAR)	0.37	unitless		0.01		Calculation	02/13/14 22:21 / sln
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.09	mg/L		0.01	10	E353.2	02/13/14 09:56 / bls
METALS, ACID-SOLUBLE							
Calcium	40	mg/L		1		E200.7	02/13/14 22:21 / mas
Magnesium	17	mg/L		1		E200.7	02/13/14 22:21 / mas
Potassium	ND	mg/L		1		E200.7	02/13/14 22:21 / mas
Sodium	11	mg/L		1		E200.7	02/13/14 22:21 / mas
METALS, TOTAL							
Antimony	ND	mg/L		0.001	0.006	E200.8	02/13/14 11:25 / amm
Arsenic	ND	mg/L		0.001	0.01	E200.8	02/13/14 11:25 / amm
Barium	0.37	mg/L		0.05	2	E200.8	02/13/14 11:25 / amm
Beryllium	ND	mg/L		0.001	0.004	E200.8	02/13/14 11:25 / amm
Cadmium	ND	mg/L		0.001	0.005	E200.8	02/13/14 11:25 / amm
Chromium	ND	mg/L		0.005	0.1	E200.8	02/13/14 11:25 / amm
Iron	ND	mg/L		0.03		E200.7	02/13/14 21:32 / mas
Manganese	ND	mg/L		0.001		E200.8	02/13/14 11:25 / amm
Mercury	ND	mg/L		0.0001	0.002	E200.8	02/13/14 11:25 / amm
Nickel	ND	mg/L		0.01		E200.8	02/13/14 11:25 / amm
Selenium	ND	mg/L		0.001	0.05	E200.8	02/13/14 11:25 / amm
Thallium	ND	mg/L		0.0005	0.002	E200.8	02/13/14 11:25 / amm
QUALITY CONTROL							
A/C Balance	3.91	%				Calculation	02/18/14 10:58 / sln

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

Sample ID: B14020735-001

Client ID: Low Weaver

Livestock Suitability

Suitable for all classes of livestock.

Irrigation Classification

Salinity Hazard	C2	Medium-Salinity Water:	can be used if a moderate amount of leaching occurs. Plants with moderate salt tolerance can be grown in most cases without special practices for salinity control.
Sodium (Alkali) Hazard	S1	Low-Sodium Water:	can be used for irrigation on almost all soils with little danger of the development of harmful levels of exchangeable sodium. However, sodium-sensitive crops such as stone-fruit trees and avocados may accumulate injurious concentrations of sodium.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R219224
Sample ID: MBLK		Method Blank					Run: Metrohm 2_140212A			02/12/14 14:51
Alkalinity, Total as CaCO3		2.79	mg/L	4.0						
Sample ID: LCS		Laboratory Control Sample					Run: Metrohm 2_140212A			02/12/14 14:58
Alkalinity, Total as CaCO3		101	mg/L	4.0	98	90	110			
Sample ID: B14020719-001ADUP	3	Sample Duplicate					Run: Metrohm 2_140212A			02/12/14 17:15
Alkalinity, Total as CaCO3		133	mg/L	4.0				0.0	10	
Bicarbonate as HCO3		162	mg/L	4.0				0.0	10	
Carbonate as CO3		ND	mg/L	4.0					10	
Sample ID: B14020735-001AMS		Sample Matrix Spike					Run: Metrohm 2_140212A			02/12/14 18:09
Alkalinity, Total as CaCO3		349	mg/L	4.0	101	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B										
Batch: R219225										
Sample ID: SC 2ND 1413		Laboratory Control Sample						Run: PHSC_101-B_140212A		02/12/14 08:47
Conductivity @ 25 C		1380	umhos/cm	5.0	98	90	110			
Sample ID: MBLK		Method Blank						Run: PHSC_101-B_140212A		02/12/14 17:04
Conductivity @ 25 C		4.00	umhos/cm	5.0						
Sample ID: B14020735-001ADUP		Sample Duplicate						Run: PHSC_101-B_140212A		02/12/14 17:11
Conductivity @ 25 C		320	umhos/cm	5.0				0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: PHSC_101-B_140212A		
Sample ID: pH 8		Initial Calibration Verification Standard						02/12/14 08:34		
pH		7.92	s.u.	0.10	99	98	102			
Method: A4500-H B								Batch: R219225		
Sample ID: B14020735-001ADUP		Sample Duplicate				Run: PHSC_101-B_140212A		02/12/14 17:11		
pH		7.87	s.u.	0.10				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7		Analytical Run: ICP203-B_140213A								
Sample ID: ICV	5	Continuing Calibration Verification Standard								02/13/14 17:01
Calcium		25.4	mg/L	1.0	101	95	105			
Iron		2.52	mg/L	0.030	101	95	105			
Magnesium		25.2	mg/L	1.0	101	95	105			
Potassium		25.1	mg/L	1.0	101	95	105			
Sodium		25.1	mg/L	1.0	101	95	105			
Method: E200.7		Batch: R219366								
Sample ID: MB-6500DIS140213A	5	Method Blank								02/13/14 17:24
Run: ICP203-B_140213A										
Calcium		0.02	mg/L	0.01						
Iron		ND	mg/L	0.004						
Magnesium		ND	mg/L	0.04						
Potassium		ND	mg/L	0.08						
Sodium		ND	mg/L	0.03						
Sample ID: LFB-6500DIS140213A	5	Laboratory Fortified Blank								02/13/14 17:28
Run: ICP203-B_140213A										
Calcium		52.6	mg/L	1.0	105	85	115			
Iron		5.22	mg/L	0.030	104	85	115			
Magnesium		52.9	mg/L	1.0	106	85	115			
Potassium		52.1	mg/L	1.0	104	85	115			
Sodium		51.9	mg/L	1.0	104	85	115			
Sample ID: B14020735-001BMS2	5	Sample Matrix Spike								02/13/14 21:39
Run: ICP203-B_140213A										
Calcium		91.7	mg/L	1.0	109	70	130			
Iron		5.32	mg/L	0.030	106	70	130			
Magnesium		70.9	mg/L	1.0	109	70	130			
Potassium		54.4	mg/L	1.0	107	70	130			
Sodium		64.0	mg/L	1.0	107	70	130			
Sample ID: B14020735-001BMSD2	5	Sample Matrix Spike Duplicate								02/13/14 21:43
Run: ICP203-B_140213A										
Calcium		90.6	mg/L	1.0	107	70	130	1.2	20	
Iron		5.30	mg/L	0.030	106	70	130	0.4	20	
Magnesium		70.3	mg/L	1.0	108	70	130	0.8	20	
Potassium		54.4	mg/L	1.0	107	70	130	0.1	20	
Sodium		63.7	mg/L	1.0	106	70	130	0.5	20	
Sample ID: B14020635-001AMS2	5	Sample Matrix Spike								02/13/14 21:55
Run: ICP203-B_140213A										
Calcium		57.9	mg/L	1.0	108	70	130			
Iron		5.42	mg/L	0.030	107	70	130			
Magnesium		57.2	mg/L	1.0	109	70	130			
Potassium		54.0	mg/L	1.0	107	70	130			
Sodium		59.7	mg/L	1.0	108	70	130			
Sample ID: B14020635-001AMSD2	5	Sample Matrix Spike Duplicate								02/13/14 21:58
Run: ICP203-B_140213A										
Calcium		56.9	mg/L	1.0	106	70	130	1.7	20	
Iron		5.35	mg/L	0.030	106	70	130	1.3	20	
Magnesium		56.4	mg/L	1.0	107	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R219366
Sample ID: B14020635-001AMSD2	5	Sample Matrix Spike Duplicate								Run: ICP203-B_140213A 02/13/14 21:58
Potassium		53.5	mg/L	1.0	106	70	130	0.9	20	
Sodium		59.3	mg/L	1.0	107	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS202-B_140213A								
Sample ID: QCS	11	Initial Calibration Verification Standard							02/13/14 09:15	
Antimony		0.0501	mg/L	0.050	100	90	110			
Arsenic		0.0509	mg/L	0.0050	102	90	110			
Barium		0.0497	mg/L	0.10	99	90	110			
Beryllium		0.0232	mg/L	0.0010	93	90	110			
Cadmium		0.0262	mg/L	0.0010	105	90	110			
Chromium		0.0502	mg/L	0.010	100	90	110			
Manganese		0.253	mg/L	0.010	101	90	110			
Mercury		0.00206	mg/L	0.0010	103	90	110			
Nickel		0.0515	mg/L	0.010	103	90	110			
Selenium		0.0514	mg/L	0.0050	103	90	110			
Thallium		0.0511	mg/L	0.10	102	90	110			
Method: E200.8		Batch: R219340								
Sample ID: LFB	11	Laboratory Fortified Blank							Run: ICPMS202-B_140213A 02/13/14 09:21	
Antimony		0.0459	mg/L	0.050	92	80	120			
Arsenic		0.0481	mg/L	0.0050	96	80	120			
Barium		0.0480	mg/L	0.10	96	80	120			
Beryllium		0.0441	mg/L	0.0010	88	80	120			
Cadmium		0.0479	mg/L	0.0010	96	80	120			
Chromium		0.0486	mg/L	0.010	97	80	120			
Manganese		0.0493	mg/L	0.010	99	80	120			
Mercury		0.000990	mg/L	0.0010	99	85	115			
Nickel		0.0485	mg/L	0.010	97	80	120			
Selenium		0.0476	mg/L	0.0050	95	80	120			
Thallium		0.0508	mg/L	0.10	102	80	120			
Sample ID: LRB	11	Method Blank							Run: ICPMS202-B_140213A 02/13/14 09:49	
Antimony		ND	mg/L	1E-05						
Arsenic		ND	mg/L	6E-05						
Barium		ND	mg/L	4E-05						
Beryllium		ND	mg/L	1E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	3E-05						
Manganese		ND	mg/L	2E-05						
Mercury		ND	mg/L	5E-06						
Nickel		ND	mg/L	6E-05						
Selenium		ND	mg/L	0.0003						
Thallium		ND	mg/L	1E-05						
Sample ID: B14020775-001BMS	11	Sample Matrix Spike							Run: ICPMS202-B_140213A 02/13/14 11:59	
Antimony		0.0513	mg/L	0.0010	100	70	130			
Arsenic		0.0566	mg/L	0.0010	111	70	130			
Barium		0.0934	mg/L	0.050	95	70	130			
Beryllium		0.0540	mg/L	0.0010	108	70	130			
Cadmium		0.0532	mg/L	0.0010	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R219340
Sample ID: B14020775-001BMS	11	Sample Matrix Spike			Run: ICPMS202-B_140213A				02/13/14 11:59	
Chromium		0.0507	mg/L	0.0050	98	70	130			
Manganese		0.0522	mg/L	0.0010	102	70	130			
Mercury		0.00108	mg/L	0.00010	106	70	130			
Nickel		0.0914	mg/L	0.010	95	70	130			
Selenium		0.0581	mg/L	0.0010	115	70	130			
Thallium		0.0515	mg/L	0.00050	103	70	130			
Sample ID: B14020775-001BMSD	11	Sample Matrix Spike Duplicate			Run: ICPMS202-B_140213A				02/13/14 12:09	
Antimony		0.0512	mg/L	0.0010	100	70	130	0.1	20	
Arsenic		0.0558	mg/L	0.0010	109	70	130	1.5	20	
Barium		0.0938	mg/L	0.050	96	70	130	0.4	20	
Beryllium		0.0536	mg/L	0.0010	107	70	130	0.9	20	
Cadmium		0.0527	mg/L	0.0010	103	70	130	0.9	20	
Chromium		0.0506	mg/L	0.0050	98	70	130	0.3	20	
Manganese		0.0507	mg/L	0.0010	99	70	130	3.0	20	
Mercury		0.00104	mg/L	0.00010	102	70	130	3.8	20	
Nickel		0.0892	mg/L	0.010	90	70	130	2.4	20	
Selenium		0.0568	mg/L	0.0010	113	70	130	2.2	20	
Thallium		0.0506	mg/L	0.00050	101	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Analytical Run: IC203-B_140214A										
Sample ID: ICV	2	Initial Calibration Verification Standard								02/14/14 10:52
Chloride		25.4	mg/L	1.0	102	90	110			
Sulfate		101	mg/L	1.0	101	90	110			
Method: E300.0										
Batch: R219461										
Sample ID: ICB	2	Method Blank								02/14/14 11:07
Run: IC203-B_140214A										
Chloride		0.1	mg/L	0.06						
Sulfate		ND	mg/L	0.09						
Sample ID: LFB	2	Laboratory Fortified Blank								02/14/14 11:23
Run: IC203-B_140214A										
Chloride		26.2	mg/L	1.0	104	90	110			
Sulfate		105	mg/L	1.1	105	90	110			
Sample ID: B14020735-001AMS	2	Sample Matrix Spike								02/14/14 16:25
Run: IC203-B_140214A										
Chloride		28.5	mg/L	1.0	108	90	110			
Sulfate		111	mg/L	1.1	108	90	110			
Sample ID: B14020735-001AMSD	2	Sample Matrix Spike Duplicate								02/14/14 16:40
Run: IC203-B_140214A										
Chloride		28.9	mg/L	1.0	110	90	110	1.4	20	
Sulfate		113	mg/L	1.1	110	90	110	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Applied Water Consulting LLC

Report Date: 02/18/14

Project: Low Weaver

Work Order: B14020735

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E353.2		Analytical Run: FIA203-B_140213A									
Sample ID: ICV	Initial Calibration Verification Standard									02/13/14 08:59	
Nitrogen, Nitrate+Nitrite as N		15.2	mg/L	0.060	105	90	110				
Method: E353.2		Batch: R219326									
Sample ID: MBLK	Method Blank									Run: FIA203-B_140213A	02/13/14 09:00
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.001							
Sample ID: LFB	Laboratory Fortified Blank									Run: FIA203-B_140213A	02/13/14 09:01
Nitrogen, Nitrate+Nitrite as N		1.05	mg/L	0.010	105	90	110				
Sample ID: B14020735-001CMS	Sample Matrix Spike									Run: FIA203-B_140213A	02/13/14 09:57
Nitrogen, Nitrate+Nitrite as N		1.17	mg/L	0.010	108	90	110				
Sample ID: B14020735-001CMSD	Sample Matrix Spike Duplicate									Run: FIA203-B_140213A	02/13/14 09:58
Nitrogen, Nitrate+Nitrite as N		1.16	mg/L	0.010	107	90	110	0.8	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Workorder Receipt Checklist

Applied Water Consulting LLC

B14020735

Login completed by: Tony Valero

Date Received: 2/12/2014

Reviewed by: BL2000\jlippard

Received by: jrj

Reviewed Date: 2/12/2014

Carrier Return-UPS
name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.0°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Per phone call from Roger Noble, sample for Nitrate+Nitrite was marked preserved but was actually not preserved in the field. Sample for Nitrate+Nitrite was preserved upon receipt with 2 ml sulfuric acid per 250 mL to pH<2.



Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Applied Water Consulting Project Name: PWS, Permit, Etc. Sample Origin: MT
 Report/Address (Required): P.O. Box 7667 State: MT EPA/State Compliance: Yes No
Kalspell, MT 59904 Contact Name: Roger Noble Phone/Fax: Sampler: (Please Print) RN/LW
 No Hard Copy Email: Invoice Contact & Phone: Purchase Order: Quote/Bottle Order:

Custody Record MUST be Signed	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection		MATRIX	ANALYSIS REQUESTED	Standard Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction Page	Comments:	Shipped by: <u>WPS/GAB</u> Cooler ID(s): <u> </u>
	Relinquished by (print):	Relinquished by (print):	Date/Time	Collection Date						
1	<u>Lew Weaver</u>	<u> </u>	<u> </u>	<u>9/11/14</u>	<u>2:30p</u>	<u>Domestic Fe & Mn Total</u> <u>Safe Drinking Water</u> <u>Act Metals</u>	<u>SEE ATTACHED</u>	<u>RUSH</u>	<u> </u>	Receipt Temp: <u>TB</u> On Ice: <u>6.0 °C</u> Custody Seal: <u> </u> On Bottle: <u> </u> On Cooler: <u> </u> Intact: <u> </u> Signature: <u> </u> Match: <u> </u> <u>014020733</u>
2										
3										
4										
5										
6										
7										
8										
9										
10										

Received by Laboratory: Roger Noble Date/Time: 9/11/14 1600 Signature:
 Received by (print): Date/Time: Signature:
 Received by (print): Date/Time: Signature:
 Received by Laboratory: Date/Time: 9/12/14 0930 Signature:
 Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This chain of custody will be clearly notated on your analytical report.



ANALYTICAL SUMMARY REPORT

March 19, 2015

Montana Environmental Lab
PO Box 8900
Kalispell, MT 59904

Work Order: B15030653

Project Name: Applied Water Consulting

Energy Laboratories Inc Billings MT received the following 2 samples for Montana Environmental Lab on 3/10/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B15030653-001	MEL #1961, Montana Artesian Water	03/08/15 16:00	03/10/15	Drinking Water	Metals by ICP/ICPMS, Drinking Water Color Mercury, Drinking Water 515.4-Herbicides, Chlorinated SDWA Odor pH Drinking Water Metals Digestion by EPA 200.2 Herbicide Liquid-Liquid Microextraction Digestion, Mercury by CVAA 531-Pesticides, Carbamates SDWA Semi-Volatile Organic Compounds Extraction 525-Semi-Volatile Organic Compounds, Long List 524-Purgeable Organics, SDWA
B15030653-002	Trip Blank Lot#090414 B-TS SHP0263	03/08/15 16:00	03/10/15	Drinking Water	524-Purgeable Organics, SDWA

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



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Gillette, WY 866-686-7175 • Rapid City, SD 888-872-1225 • College Station, TX 888-680-2218

CLIENT: Montana Environmental Lab
Project: Applied Water Consulting
Work Order: B15030653

Report Date: 03/19/15

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, PO Box 247, Casper, WY, EPA Number WY00002 and WY00937.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-001
Client Sample ID: MEL #1961, Montana Artesian Water

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	8.0	s.u.	H	0.1		A4500-H B	03/10/15 17:08 / cnm
Color	ND	c.u.		5		A2120 B	03/10/15 15:01 / rbf
Odor	1	T.O.N.	H			A2150 B	03/10/15 13:10 / rbf
METALS, TOTAL							
Aluminum	ND	mg/L		0.03		E200.7	03/11/15 18:56 / rh
Antimony	ND	mg/L		0.001	0.006	E200.8	03/12/15 17:43 / mas
Arsenic	ND	mg/L		0.001	0.01	E200.8	03/12/15 17:43 / mas
Barium	0.37	mg/L		0.05	2	E200.7	03/11/15 18:56 / rh
Beryllium	ND	mg/L		0.001	0.004	E200.7	03/11/15 18:56 / rh
Boron	0.12	mg/L		0.05		E200.7	03/11/15 18:56 / rh
Cadmium	ND	mg/L		0.001	0.005	E200.7	03/11/15 18:56 / rh
Calcium	36	mg/L		1		E200.7	03/11/15 18:56 / rh
Chromium	ND	mg/L		0.005	0.1	E200.7	03/11/15 18:56 / rh
Copper	ND	mg/L		0.005	1.3	E200.7	03/11/15 18:56 / rh
Lead	ND	mg/L		0.001	0.015	E200.8	03/12/15 17:43 / mas
Magnesium	15	mg/L		1		E200.7	03/11/15 18:56 / rh
Manganese	ND	mg/L		0.001		E200.7	03/11/15 18:56 / rh
Mercury	ND	mg/L		0.0001	0.002	E245.1	03/16/15 16:50 / ser
Molybdenum	ND	mg/L		0.005		E200.7	03/11/15 18:56 / rh
Nickel	ND	mg/L		0.01		E200.7	03/11/15 18:56 / rh
Selenium	ND	mg/L		0.001	0.05	E200.8	03/12/15 17:43 / mas
Silica	12.0	mg/L		0.2		E200.7	03/11/15 18:56 / rh
Sodium	11	mg/L		1		E200.7	03/11/15 18:56 / rh
Thallium	ND	mg/L		0.0005	0.002	E200.8	03/12/15 17:43 / mas
VOLATILE ORGANIC COMPOUNDS							
Acetone	9.0	ug/L	J	10		E524.2	03/12/15 14:44 / nl
Acrylonitrile	ND	ug/L		10		E524.2	03/12/15 14:44 / nl
Allyl chloride	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Benzene	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / nl
Bromobenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Bromochloromethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Bromodichloromethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Bromoform	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Bromomethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
n-Butylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
sec-Butylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
tert-Butylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Carbon disulfide	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Carbon tetrachloride	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / nl
Chloroacetonitrile	ND	ug/L		50		E524.2	03/12/15 14:44 / nl
Chlorobenzene	ND	ug/L		0.50	100	E524.2	03/12/15 14:44 / nl

Report RL - Analyte reporting limit. MCL - Maximum contaminant level.
Definitions: QCL - Quality control limit. ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time. J - Estimated value. The analyte was present but less than the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-001
Client Sample ID: MEL #1961, Montana Artesian Water

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1-Chlorobutane	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Chlorodibromomethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Chloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Chloroform	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Chloromethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
2-Chlorotoluene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
4-Chlorotoluene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0	0.2	E524.2	03/12/15 14:44 / nl
Dibromomethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50	600	E524.2	03/12/15 14:44 / nl
1,3-Dichlorobenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,4-Dichlorobenzene	ND	ug/L		0.50	75	E524.2	03/12/15 14:44 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Dichlorodifluoromethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,1-Dichloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,2-Dichloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,2-Dibromoethane	ND	ug/L		0.50	0.05	E524.2	03/12/15 14:44 / nl
1,1-Dichloroethene	ND	ug/L		0.50	7	E524.2	03/12/15 14:44 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50	70	E524.2	03/12/15 14:44 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50	100	E524.2	03/12/15 14:44 / nl
1,2-Dichloropropane	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / nl
1,1-Dichloropropanone	ND	ug/L		50		E524.2	03/12/15 14:44 / nl
1,3-Dichloropropane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
2,2-Dichloropropane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
1,1-Dichloropropene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Diethyl ether	ND	ug/L		10		E524.2	03/12/15 14:44 / nl
Ethyl methacrylate	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Ethylbenzene	ND	ug/L		0.50	700	E524.2	03/12/15 14:44 / nl
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Hexachloroethane	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
2-Hexanone	ND	ug/L		10		E524.2	03/12/15 14:44 / nl
Iodomethane	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Isopropylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl
Methyl acrylate	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Methacrylonitrile	ND	ug/L		10		E524.2	03/12/15 14:44 / nl
Methyl ethyl ketone	12	ug/L		10		E524.2	03/12/15 14:44 / nl
Methyl isobutyl ketone	ND	ug/L		10		E524.2	03/12/15 14:44 / nl
Methyl methacrylate	ND	ug/L		1.0		E524.2	03/12/15 14:44 / nl
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	03/12/15 14:44 / nl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-001
Client Sample ID: MEL #1961, Montana Artesian Water

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Methylene chloride	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / ni
Naphthalene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Nitrobenzene	ND	ug/L		50		E524.2	03/12/15 14:44 / ni
2-Nitropropane	ND	ug/L		50		E524.2	03/12/15 14:44 / ni
Pentachloroethane	ND	ug/L		1.0		E524.2	03/12/15 14:44 / ni
Propionitrile	ND	ug/L		10		E524.2	03/12/15 14:44 / ni
n-Propylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Styrene	ND	ug/L		0.50	100	E524.2	03/12/15 14:44 / ni
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / ni
Tetrahydrofuran	ND	ug/L		10		E524.2	03/12/15 14:44 / ni
Toluene	ND	ug/L		0.50	1000	E524.2	03/12/15 14:44 / ni
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	03/12/15 14:44 / ni
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	03/12/15 14:44 / ni
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / ni
Trichloroethene	ND	ug/L		0.50	5	E524.2	03/12/15 14:44 / ni
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	03/12/15 14:44 / ni
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Vinyl chloride	ND	ug/L		0.50	2	E524.2	03/12/15 14:44 / ni
m+p-Xylenes	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
o-Xylene	ND	ug/L		0.50		E524.2	03/12/15 14:44 / ni
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	03/12/15 14:44 / ni
Surr: p-Bromofluorobenzene	108	%REC		80-120		E524.2	03/12/15 14:44 / ni
Surr: 1,2-Dichloroethane-d4	120	%REC		74-127		E524.2	03/12/15 14:44 / ni
Surr: Toluene-d8	90.0	%REC		80-120		E524.2	03/12/15 14:44 / ni
SEMI-VOLATILE ORGANIC COMPOUNDS							
1-Methylnaphthalene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,2',3,3',4,4',6-Heptachlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,2',3',4,6-Pentachlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,2',4,4',5,6'-Hexachlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,2',4,4'-Tetrachlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,3-Dichlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2,4,5-Trichlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2-Chlorobiphenyl	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
2-Methylnaphthalene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Acenaphthene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk

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Definitions: QCL - Quality control limit.

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-001
Client Sample ID: MEL #1961, Montana Artesian Water

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
Acenaphthylene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Alachlor	ND	ug/L		0.10	2	E525.2	03/13/15 17:59 / msk
Aldrin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
alpha-Chlordane	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Anthracene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Atrazine	ND	ug/L		0.10	3	E525.2	03/13/15 17:59 / msk
Benefin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Benzo(a)anthracene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Benzo(a)pyrene	ND	ug/L		0.10	0.2	E525.2	03/13/15 17:59 / msk
Benzo(b)fluoranthene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Benzo(g,h,i)perylene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Benzo(k)fluoranthene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Butachlor	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Butylbenzylphthalate	ND	ug/L		0.50		E525.2	03/13/15 17:59 / msk
Chlordane	ND	ug/L		1.0	2	E525.2	03/13/15 17:59 / msk
Chrysene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
di(2-ethylhexyl)Adipate	ND	ug/L		0.50	400	E525.2	03/13/15 17:59 / msk
di(2-ethylhexyl)Phthalate	ND	ug/L		2.0	6	E525.2	03/13/15 17:59 / msk
Dibenz(a,h)anthracene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Dieldrin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Diethyl phthalate	ND	ug/L		0.50		E525.2	03/13/15 17:59 / msk
Dimethyl phthalate	ND	ug/L		0.50		E525.2	03/13/15 17:59 / msk
Di-n-butyl phthalate	ND	ug/L		0.50		E525.2	03/13/15 17:59 / msk
Endrin	ND	ug/L		0.10	2	E525.2	03/13/15 17:59 / msk
Fluoranthene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Fluorene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
gamma-BHC (Lindane)	ND	ug/L		0.10	0.2	E525.2	03/13/15 17:59 / msk
gamma-Chlordane	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Heptachlor	ND	ug/L		0.10	0.4	E525.2	03/13/15 17:59 / msk
Heptachlor epoxide	ND	ug/L		0.10	0.2	E525.2	03/13/15 17:59 / msk
Hexachlorobenzene	ND	ug/L		0.10	1	E525.2	03/13/15 17:59 / msk
Hexachlorocyclopentadiene	ND	ug/L		0.10	50	E525.2	03/13/15 17:59 / msk
Indeno(1,2,3-cd)pyrene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Isopropalin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Methoxychlor	ND	ug/L		0.10	40	E525.2	03/13/15 17:59 / msk
Metolachlor	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Metribuzin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Naphthalene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Norflurazon	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Oxidiazon	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Oxyfluorfen	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Pendimethalin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-001
Client Sample ID: MEL #1961, Montana Artesian Water

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
Phenanthrene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Profluralin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Propachlor	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Pyrene	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Simazine	ND	ug/L		0.10	4	E525.2	03/13/15 17:59 / msk
Toxaphene	ND	ug/L		2.0	3	E525.2	03/13/15 17:59 / msk
trans-Nonachlor	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Trifluralin	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Vernolate	ND	ug/L		0.10		E525.2	03/13/15 17:59 / msk
Surr: 1,3-Dimethyl-2-nitrobenzene	105	%REC		70-130		E525.2	03/13/15 17:59 / msk
Surr: Perylene-d12	91.0	%REC		70-130		E525.2	03/13/15 17:59 / msk
Surr: Pyrene-d10	92.0	%REC		70-130		E525.2	03/13/15 17:59 / msk
Surr: Triphenylphosphate	107	%REC		70-130		E525.2	03/13/15 17:59 / msk
PESTICIDES, BY HPLC							
Aldicarb	ND	ug/L		0.40	3	E531.1	03/13/15 18:21 / eli-ca
Aldicarb sulfone	ND	ug/L		0.40	2	E531.1	03/13/15 18:21 / eli-ca
Aldicarb sulfoxide	ND	ug/L		0.40	4	E531.1	03/13/15 18:21 / eli-ca
Carbaryl	ND	ug/L		0.40		E531.1	03/13/15 18:21 / eli-ca
Carbofuran	ND	ug/L		0.40	40	E531.1	03/13/15 18:21 / eli-ca
3-Hydroxycarbofuran	ND	ug/L		0.40		E531.1	03/13/15 18:21 / eli-ca
Methiocarb	ND	ug/L		0.40		E531.1	03/13/15 18:21 / eli-ca
Methomyl	ND	ug/L		0.40		E531.1	03/13/15 18:21 / eli-ca
Oxamyl	ND	ug/L		0.40	200	E531.1	03/13/15 18:21 / eli-ca
Surr: BDMC	123	%REC		70-130		E531.1	03/13/15 18:21 / eli-ca
HERBICIDES							
2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	03/13/15 19:05 / jph
2,4-D	ND	ug/L		1.0	70	E515.4	03/13/15 19:05 / jph
2,4-DB	ND	ug/L		1.0		E515.4	03/13/15 19:05 / jph
Dalapon	ND	ug/L		2.5	200	E515.4	03/13/15 19:05 / jph
Dicamba	ND	ug/L		1.0		E515.4	03/13/15 19:05 / jph
Dichlorprop	ND	ug/L		1.0		E515.4	03/13/15 19:05 / jph
Dinoseb	ND	ug/L		1.0	7	E515.4	03/13/15 19:05 / jph
Pentachlorophenol	ND	ug/L		0.10	1	E515.4	03/13/15 19:05 / jph
Picloram	ND	ug/L		0.50	500	E515.4	03/13/15 19:05 / jph
Surr: 2,4-Dichlorophenylacetic acid	103	%REC		70-130		E515.4	03/13/15 19:05 / jph

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-002
Client Sample ID: Trip Blank Lot#090414 B-TS SHP0263

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result Units	Qualifiers	RL	MCL/		Analysis Date / By
				QCL	Method	
VOLATILE ORGANIC COMPOUNDS						
Acetone	ND ug/L		10		E524.2	03/12/15 14:12 / nl
Acrylonitrile	ND ug/L		10		E524.2	03/12/15 14:12 / nl
Allyl chloride	ND ug/L		1.0		E524.2	03/12/15 14:12 / nl
Benzene	ND ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Bromobenzene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Bromochloromethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Bromodichloromethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Bromoform	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Bromomethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
n-Butylbenzene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
sec-Butylbenzene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
tert-Butylbenzene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Carbon disulfide	ND ug/L		1.0		E524.2	03/12/15 14:12 / nl
Carbon tetrachloride	ND ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Chloroacetonitrile	ND ug/L		50		E524.2	03/12/15 14:12 / nl
Chlorobenzene	ND ug/L		0.50	100	E524.2	03/12/15 14:12 / nl
1-Chlorobutane	ND ug/L		1.0		E524.2	03/12/15 14:12 / nl
Chlorodibromomethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Chloroethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Chloroform	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
Chloromethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
2-Chlorotoluene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
4-Chlorotoluene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2-Dibromo-3-chloropropane	ND ug/L		1.0	0.2	E524.2	03/12/15 14:12 / nl
Dibromomethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2-Dichlorobenzene	ND ug/L		0.50	600	E524.2	03/12/15 14:12 / nl
1,3-Dichlorobenzene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,4-Dichlorobenzene	ND ug/L		0.50	75	E524.2	03/12/15 14:12 / nl
trans-1,4-Dichloro-2-butene	ND ug/L		1.0		E524.2	03/12/15 14:12 / nl
Dichlorodifluoromethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,1-Dichloroethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2-Dichloroethane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2-Dibromoethane	ND ug/L		0.50	0.05	E524.2	03/12/15 14:12 / nl
1,1-Dichloroethene	ND ug/L		0.50	7	E524.2	03/12/15 14:12 / nl
cis-1,2-Dichloroethene	ND ug/L		0.50	70	E524.2	03/12/15 14:12 / nl
trans-1,2-Dichloroethene	ND ug/L		0.50	100	E524.2	03/12/15 14:12 / nl
1,2-Dichloropropane	ND ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
1,1-Dichloropropanone	ND ug/L		50		E524.2	03/12/15 14:12 / nl
1,3-Dichloropropane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
2,2-Dichloropropane	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,1-Dichloropropene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl
cis-1,3-Dichloropropene	ND ug/L		0.50		E524.2	03/12/15 14:12 / nl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-002
Client Sample ID: Trip Blank Lot#090414 B-TS SHP0263

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
trans-1,3-Dichloropropene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Diethyl ether	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Ethyl methacrylate	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
Ethylbenzene	ND	ug/L		0.50	700	E524.2	03/12/15 14:12 / nl
Hexachlorobutadiene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Hexachloroethane	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
2-Hexanone	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Iodomethane	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
Isopropylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
p-Isopropyltoluene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Methyl acrylate	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
Methacrylonitrile	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Methyl ethyl ketone	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Methyl isobutyl ketone	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Methyl methacrylate	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
Methyl tert-butyl ether (MTBE)	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Methylene chloride	ND	ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Naphthalene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Nitrobenzene	ND	ug/L		50		E524.2	03/12/15 14:12 / nl
2-Nitropropane	ND	ug/L		50		E524.2	03/12/15 14:12 / nl
Pentachloroethane	ND	ug/L		1.0		E524.2	03/12/15 14:12 / nl
Propionitrile	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
n-Propylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Styrene	ND	ug/L		0.50	100	E524.2	03/12/15 14:12 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Tetrachloroethene	ND	ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Tetrahydrofuran	ND	ug/L		10		E524.2	03/12/15 14:12 / nl
Toluene	ND	ug/L		0.50	1000	E524.2	03/12/15 14:12 / nl
1,2,3-Trichlorobenzene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2,4-Trichlorobenzene	ND	ug/L		0.50	70	E524.2	03/12/15 14:12 / nl
1,1,1-Trichloroethane	ND	ug/L		0.50	200	E524.2	03/12/15 14:12 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Trichloroethene	ND	ug/L		0.50	5	E524.2	03/12/15 14:12 / nl
Trichlorofluoromethane	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,2,3-Trichloropropane	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Trihalomethanes, Total	ND	ug/L		0.50	80	E524.2	03/12/15 14:12 / nl
1,2,4-Trimethylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
1,3,5-Trimethylbenzene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
Vinyl chloride	ND	ug/L		0.50	2	E524.2	03/12/15 14:12 / nl
m+p-Xylenes	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl
o-Xylene	ND	ug/L		0.50		E524.2	03/12/15 14:12 / nl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting
Lab ID: B15030653-002
Client Sample ID: Trip Blank Lot#090414 B-TS SHP0263

Report Date: 03/19/15
Collection Date: 03/08/15 16:00
Date Received: 03/10/15
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	03/12/15 14:12 / nl
Surr: p-Bromofluorobenzene	101	%REC		80-120		E524.2	03/12/15 14:12 / nl
Surr: 1,2-Dichloroethane-d4	116	%REC		74-127		E524.2	03/12/15 14:12 / nl
Surr: Toluene-d8	92.0	%REC		80-120		E524.2	03/12/15 14:12 / nl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2120 B										Batch: R239533
Lab ID: MBLK		Method Blank								Run: MISC-WC_150310E 03/10/15 14:58
Color	1		c.u.							
Lab ID: LCS		Laboratory Control Sample								Run: MISC-WC_150310E 03/10/15 15:00
Color	25		c.u.	5	100	90	110			
Lab ID: B15030653-001FDUP		Sample Duplicate								Run: MISC-WC_150310E 03/10/15 15:03
Color	1		c.u.	5		80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2150 B										Batch: R239577
Lab ID: MB-R239577		Method Blank								Run: MISC-WC_150310G
Odor		ND	T.O.N.							03/10/15 13:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										Analytical Run: PHSC_101-B_150310A
Lab ID: pH 8		Initial Calibration Verification Standard								03/10/15 08:35
pH		7.98	s.u.	0.10	100	98	102			
Method: A4500-H B										Batch: R239494
Lab ID: B15030650-001ADUP		Sample Duplicate								03/10/15 17:03
pH		6.76	s.u.	0.10				0.4	3	Run: PHSC_101-B_150310A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7										Analytical Run: ICP203-B_150311A	
Lab ID: ICV	15 Continuing Calibration Verification Standard							03/11/15 09:56			
Aluminum		2.49	mg/L	0.10	100	95	105				
Barium		2.57	mg/L	0.10	103	95	105				
Beryllium		1.23	mg/L	0.010	99	95	105				
Boron		2.51	mg/L	0.10	100	95	105				
Cadmium		2.40	mg/L	0.010	96	95	105				
Calcium		26.0	mg/L	1.0	104	95	105				
Chromium		2.49	mg/L	0.050	100	95	105				
Copper		2.46	mg/L	0.010	99	95	105				
Magnesium		25.4	mg/L	1.0	101	95	105				
Manganese		2.51	mg/L	0.010	100	95	105				
Molybdenum		2.42	mg/L	0.10	97	95	105				
Nickel		2.41	mg/L	0.050	96	95	105				
Silicon		5.11	mg/L	0.10	102	95	105				
Sodium		25.9	mg/L	1.0	104	95	105				
Silica		10.9	mg/L	0.21	102	95	105				

Method: E200.7										Batch: 87644	
Lab ID: MB-87644	15 Method Blank							Run: ICP203-B_150311A		03/11/15 18:32	
Aluminum		ND	mg/L	0.01							
Barium		ND	mg/L	0.0002							
Beryllium		ND	mg/L	0.0001							
Boron		ND	mg/L	0.001							
Cadmium		ND	mg/L	0.0004							
Calcium		ND	mg/L	0.08							
Chromium		ND	mg/L	0.003							
Copper		ND	mg/L	0.004							
Magnesium		ND	mg/L	0.006							
Manganese		ND	mg/L	0.0006							
Molybdenum		ND	mg/L	0.004							
Nickel		ND	mg/L	0.002							
Silicon		0.02	mg/L	0.01							
Sodium		ND	mg/L	0.01							
Silica		0.03	mg/L	0.03							

Lab ID: LCS-87644	15 Laboratory Control Sample							Run: ICP203-B_150311A		03/11/15 18:35	
Aluminum		2.55	mg/L	0.030	102	85	115				
Barium		0.512	mg/L	0.050	102	85	115				
Beryllium		0.264	mg/L	0.0010	102	85	115				
Boron		0.489	mg/L	0.050	98	85	115				
Cadmium		0.240	mg/L	0.0010	96	85	115				
Calcium		25.2	mg/L	1.0	101	85	115				
Chromium		0.493	mg/L	0.0050	99	85	115				
Copper		0.503	mg/L	0.0050	101	85	115				
Magnesium		25.3	mg/L	1.0	101	85	115				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 87644
Lab ID: LCS-87644	15 Laboratory Control Sample				Run: ICP203-B_150311A				03/11/15 18:35	
Manganese		2.40	mg/L	0.0010	96	85	115			
Molybdenum		0.490	mg/L	0.0050	98	85	115			
Nickel		0.496	mg/L	0.010	99	85	115			
Silicon		5.04	mg/L	0.10	100	85	115			
Sodium		25.7	mg/L	1.0	103	85	115			
Silica		10.8	mg/L	0.21	100	85	115			
Lab ID: B15010573-001CMS3	15 Sample Matrix Spike				Run: ICP203-B_150311A				03/11/15 18:49	
Aluminum		2.67	mg/L	0.063	104	70	130			
Barium		0.526	mg/L	0.050	105	70	130			
Beryllium		0.256	mg/L	0.0010	103	70	130			
Boron		0.622	mg/L	0.050	102	70	130			
Cadmium		0.247	mg/L	0.0022	99	70	130			
Calcium		27.3	mg/L	1.0	104	70	130			
Chromium		0.509	mg/L	0.015	102	70	130			
Copper		0.505	mg/L	0.018	101	70	130			
Magnesium		29.8	mg/L	1.0	103	70	130			
Manganese		2.50	mg/L	0.0032	100	70	130			
Molybdenum		0.502	mg/L	0.018	100	70	130			
Nickel		0.513	mg/L	0.011	103	70	130			
Silicon		13.5	mg/L	0.10	106	70	130			
Sodium		69.9	mg/L	1.2	111	70	130			
Silica		28.9	mg/L	0.21	106	70	130			
Lab ID: B15010573-001CMSD	15 Sample Matrix Spike Duplicate				Run: ICP203-B_150311A				03/11/15 18:53	
Aluminum		2.60	mg/L	0.063	101	70	130	2.8	20	
Barium		0.520	mg/L	0.050	104	70	130	1.3	20	
Beryllium		0.255	mg/L	0.0010	102	70	130	0.7	20	
Boron		0.600	mg/L	0.050	98	70	130	3.6	20	
Cadmium		0.241	mg/L	0.0022	96	70	130	2.6	20	
Calcium		26.7	mg/L	1.0	101	70	130	2.4	20	
Chromium		0.491	mg/L	0.015	98	70	130	3.6	20	
Copper		0.532	mg/L	0.018	106	70	130	5.4	20	
Magnesium		29.2	mg/L	1.0	100	70	130	2.3	20	
Manganese		2.44	mg/L	0.0032	98	70	130	2.2	20	
Molybdenum		0.485	mg/L	0.018	97	70	130	3.5	20	
Nickel		0.496	mg/L	0.011	99	70	130	3.3	20	
Silicon		13.2	mg/L	0.10	100	70	130	2.3	20	
Sodium		68.8	mg/L	1.2	106	70	130	1.7	20	
Silica		28.2	mg/L	0.21	100	70	130	2.3	20	

Qualifiers:

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ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										Analytical Run: ICPMS202-B_150312A	
Lab ID: QCS	5	Initial Calibration Verification Standard							03/12/15 14:10		
Antimony		0.0509	mg/L	0.050	102	90	110				
Arsenic		0.0530	mg/L	0.0050	106	90	110				
Lead		0.0510	mg/L	0.010	102	90	110				
Selenium		0.0536	mg/L	0.0050	107	90	110				
Thallium		0.0506	mg/L	0.10	101	90	110				
Method: E200.8										Batch: 87644	
Lab ID: MB-87644	5	Method Blank							Run: ICPMS202-B_150312A 03/12/15 17:17		
Antimony		4E-05	mg/L	1E-05							
Arsenic		ND	mg/L	6E-05							
Lead		2E-05	mg/L	1E-05							
Selenium		0.0004	mg/L	0.0003							
Thallium		7E-05	mg/L	1E-05							
Lab ID: LCS-87644	5	Laboratory Control Sample							Run: ICPMS202-B_150312A 03/12/15 17:20		
Antimony		0.492	mg/L	0.0010	98	85	115				
Arsenic		0.487	mg/L	0.0010	97	85	115				
Lead		0.487	mg/L	0.0010	97	85	115				
Selenium		0.509	mg/L	0.0010	102	85	115				
Thallium		0.506	mg/L	0.00050	101	85	115				
Lab ID: B15010573-001CMS3	5	Sample Matrix Spike							Run: ICPMS202-B_150312A 03/12/15 17:27		
Antimony		0.533	mg/L	0.0010	107	70	130				
Arsenic		0.526	mg/L	0.0010	104	70	130				
Lead		0.512	mg/L	0.0010	102	70	130				
Selenium		0.520	mg/L	0.0015	103	70	130				
Thallium		0.508	mg/L	0.00050	102	70	130				
Lab ID: B15010573-001CMSD	5	Sample Matrix Spike Duplicate							Run: ICPMS202-B_150312A 03/12/15 17:38		
Antimony		0.507	mg/L	0.0010	101	70	130	5.1	20		
Arsenic		0.520	mg/L	0.0010	103	70	130	1.3	20		
Lead		0.507	mg/L	0.0010	101	70	130	1.0	20		
Selenium		0.514	mg/L	0.0015	102	70	130	1.0	20		
Thallium		0.505	mg/L	0.00050	101	70	130	0.7	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/18/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1										Analytical Run: HGCV202-B_150316A
Lab ID: ICV		Initial Calibration Verification Standard								03/16/15 16:41
Mercury		0.00210	mg/L	0.00010	105	90	110			
Method: E245.1										Batch: 87715
Lab ID: MB-87715		Method Blank								03/16/15 16:46
Mercury		ND	mg/L	5E-06						Run: HGCV202-B_150316A
Lab ID: LCS-87715		Laboratory Control Sample								03/16/15 16:48
Mercury		0.00209	mg/L	0.00010	105	85	115			Run: HGCV202-B_150316A
Lab ID: B15030835-001CMS		Sample Matrix Spike								03/16/15 17:00
Mercury		0.00208	mg/L	0.00010	104	70	130			Run: HGCV202-B_150316A
Lab ID: B15030835-001CMSD		Sample Matrix Spike Duplicate								03/16/15 17:02
Mercury		0.00205	mg/L	0.00010	103	70	130	1.3	30	Run: HGCV202-B_150316A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4							Analytical Run: 87720		
Lab ID: CAL1-87720	Continuing Calibration Verification Standard							03/13/15 15:48	
2,4,5-TP (Silvex)	0.270	ug/L	0.25	108	50	150			
2,4-D	1.18	ug/L	1.0	118	50	150			
2,4-DB	1.33	ug/L	1.0	133	50	150			
Dalapon	1.14	ug/L	2.5	114	50	150			
Dicamba	0.580	ug/L	1.0	116	50	150			
Dichlorprop	1.14	ug/L	1.0	114	50	150			
Dinoseb	1.16	ug/L	1.0	116	50	150			
Pentachlorophenol	0.136	ug/L	0.10	136	50	150			
Picloram	0.552	ug/L	0.50	110	50	150			
Surr: 2,4-Dichlorophenylacetic acid				103	75	130			
Method: E515.4							Batch: 87720		
Lab ID: MB-87720	Method Blank		Run: CECD.I_150313A				03/13/15 16:53		
2,4,5-TP (Silvex)	ND	ug/L	0.25						
2,4-D	ND	ug/L	1.0						
2,4-DB	ND	ug/L	1.0						
Dalapon	ND	ug/L	2.5						
Dicamba	ND	ug/L	1.0						
Dichlorprop	ND	ug/L	1.0						
Dinoseb	ND	ug/L	1.0						
Pentachlorophenol	ND	ug/L	0.10						
Picloram	ND	ug/L	0.50						
Surr: 2,4-Dichlorophenylacetic acid				101	70	130			
Lab ID: B15030792-001BMS	Sample Matrix Spike		Run: CECD.I_150313A				03/13/15 23:59		
2,4,5-TP (Silvex)	1.24	ug/L	0.25	99	70	130			
2,4-D	4.80	ug/L	1.0	96	70	130			
2,4-DB	3.89	ug/L	1.0	78	70	130			
Dalapon	4.68	ug/L	2.5	94	70	130			
Dicamba	2.62	ug/L	1.0	105	70	130			
Dichlorprop	5.03	ug/L	1.0	101	70	130			
Dinoseb	4.62	ug/L	1.0	92	70	130			
Pentachlorophenol	0.480	ug/L	0.10	96	70	130			
Picloram	2.42	ug/L	0.50	97	70	130			
Surr: 2,4-Dichlorophenylacetic acid				103	70	130			
Lab ID: B15030792-001BMSD	Sample Matrix Spike Duplicate		Run: CECD.I_150313A				03/14/15 00:31		
2,4,5-TP (Silvex)	1.22	ug/L	0.25	98	70	130	1.6	30	
2,4-D	4.75	ug/L	1.0	95	70	130	1.0	30	
2,4-DB	3.91	ug/L	1.0	78	70	130	0.5	30	
Dalapon	4.52	ug/L	2.5	90	70	130	3.5	30	
Dicamba	2.62	ug/L	1.0	105	70	130	0.0	30	
Dichlorprop	5.04	ug/L	1.0	101	70	130	0.2	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4							Batch: 87720		
Lab ID: B15030792-001BMSD	Sample Matrix Spike Duplicate			Run: CECD.I_150313A			03/14/15 00:31		
Dinoseb	4.58	ug/L	1.0	92	70	130	0.9	30	
Pentachlorophenol	0.495	ug/L	0.10	99	70	130	3.1	30	
Picloram	2.39	ug/L	0.50	96	70	130	1.2	30	
Surr: 2,4-Dichlorophenylacetic acid				103	70	130			
Lab ID: CAL3-87720	Continuing Calibration Verification Standard			Run: CECD.I_150313A			03/14/15 01:37		
2,4,5-TP (Silvex)	0.828	ug/L	0.25	110	70	130			
2,4-D	3.33	ug/L	1.0	111	70	130			
2,4-DB	3.09	ug/L	1.0	103	70	130			
Dalapon	3.31	ug/L	2.5	110	70	130			
Dicamba	1.73	ug/L	1.0	115	70	130			
Dichlorprop	3.33	ug/L	1.0	111	70	130			
Dinoseb	3.24	ug/L	1.0	108	70	130			
Pentachlorophenol	0.313	ug/L	0.10	104	70	130			
Picloram	1.69	ug/L	0.50	113	70	130			
Surr: 2,4-Dichlorophenylacetic acid				100	70	130			
Lab ID: LCS-87720	Laboratory Control Sample			Run: CECD.I_150313A			03/13/15 16:21		
2,4,5-TP (Silvex)	1.27	ug/L	0.25	102	70	130			
2,4-D	4.71	ug/L	1.0	94	70	130			
2,4-DB	3.92	ug/L	1.0	78	70	130			
Dalapon	4.60	ug/L	2.5	92	70	130			
Dicamba	2.62	ug/L	1.0	105	70	130			
Dichlorprop	5.04	ug/L	1.0	101	70	130			
Dinoseb	4.60	ug/L	1.0	92	70	130			
Pentachlorophenol	0.470	ug/L	0.10	94	70	130			
Picloram	2.37	ug/L	0.50	95	70	130			
Surr: 2,4-Dichlorophenylacetic acid				104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Analytical Run: R239655		
Lab ID: CCV_031215	Continuing Calibration Verification Standard						03/12/15 10:35		
Acetone	46.0	ug/L	20	92	70	130			
Acrylonitrile	58.4	ug/L	20	117	70	130			
Benzene	4.92	ug/L	0.50	98	70	130			
Bromobenzene	4.64	ug/L	0.50	93	70	130			
Bromochloromethane	5.92	ug/L	0.50	118	70	130			
Bromodichloromethane	4.56	ug/L	0.50	91	70	130			
Bromoform	5.16	ug/L	0.50	103	70	130			
Bromomethane	5.40	ug/L	0.50	108	70	130			
n-Butylbenzene	4.68	ug/L	0.50	94	70	130			
sec-Butylbenzene	4.80	ug/L	0.50	96	70	130			
tert-Butylbenzene	4.68	ug/L	0.50	94	70	130			
Carbon disulfide	4.64	ug/L	1.0	93	70	130			
Carbon tetrachloride	5.24	ug/L	0.50	105	70	130			
Chlorobenzene	5.44	ug/L	0.50	109	70	130			
Chlorodibromomethane	5.40	ug/L	0.50	108	70	130			
Chloroethane	5.28	ug/L	0.50	106	70	130			
Chloroform	4.80	ug/L	0.50	96	70	130			
Chloromethane	5.84	ug/L	0.50	117	70	130			
2-Chlorotoluene	4.32	ug/L	0.50	86	70	130			
4-Chlorotoluene	4.88	ug/L	0.50	98	70	130			
1,2-Dibromo-3-chloropropane	5.20	ug/L	1.0	104	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	4.64	ug/L	0.50	93	70	130			
1,3-Dichlorobenzene	4.60	ug/L	0.50	92	70	130			
1,4-Dichlorobenzene	5.16	ug/L	0.50	103	70	130			
trans-1,4-Dichloro-2-butene	4.76	ug/L	1.0	95	70	130			
Dichlorodifluoromethane	5.44	ug/L	0.50	109	70	130			
1,1-Dichloroethane	5.00	ug/L	0.50	100	70	130			
1,2-Dichloroethane	5.28	ug/L	0.50	106	70	130			
1,2-Dibromoethane	5.44	ug/L	0.50	109	70	130			
1,1-Dichloroethene	4.80	ug/L	0.50	96	70	130			
cis-1,2-Dichloroethene	5.04	ug/L	0.50	101	70	130			
trans-1,2-Dichloroethene	4.80	ug/L	0.50	96	70	130			
1,2-Dichloropropane	5.16	ug/L	0.50	103	70	130			
1,3-Dichloropropane	5.04	ug/L	0.50	101	70	130			
2,2-Dichloropropane	5.24	ug/L	0.50	105	70	130			
1,1-Dichloropropene	4.68	ug/L	0.50	94	70	130			
cis-1,3-Dichloropropene	5.20	ug/L	0.50	104	70	130			
trans-1,3-Dichloropropene	5.32	ug/L	0.50	106	70	130			
Ethyl methacrylate	5.36	ug/L	1.0	107	70	130			
Ethylbenzene	5.08	ug/L	0.50	102	70	130			
Hexachlorobutadiene	4.44	ug/L	0.50	89	70	130			
2-Hexanone	53.6	ug/L	20	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Analytical Run: R239655		
Lab ID: CCV_031215	Continuing Calibration Verification Standard						03/12/15 10:35		
Iodomethane	5.08	ug/L	1.0	102	70	130			
Isopropylbenzene	4.40	ug/L	0.50	88	70	130			
p-Isopropyltoluene	4.80	ug/L	0.50	96	70	130			
Methacrylonitrile	52.8	ug/L	10	106	70	130			
Methyl ethyl ketone	56.4	ug/L	20	113	70	130			
Methyl isobutyl ketone	53.2	ug/L	20	106	70	130			
Methyl methacrylate	5.48	ug/L	1.0	110	70	130			
Methyl tert-butyl ether (MTBE)	5.36	ug/L	0.50	107	70	130			
Methylene chloride	3.48	ug/L	0.50	70	70	130			
Naphthalene	5.16	ug/L	0.50	103	70	130			
Propionitrile	54.8	ug/L	10	110	70	130			
n-Propylbenzene	4.56	ug/L	0.50	91	70	130			
Styrene	5.00	ug/L	0.50	100	70	130			
1,1,1,2-Tetrachloroethane	5.16	ug/L	0.50	103	70	130			
1,1,2,2-Tetrachloroethane	4.72	ug/L	0.50	94	70	130			
Tetrachloroethene	4.64	ug/L	0.50	93	70	130			
Toluene	4.64	ug/L	0.50	93	70	130			
1,2,3-Trichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,2,4-Trichlorobenzene	4.84	ug/L	0.50	97	70	130			
1,1,1-Trichloroethane	4.68	ug/L	0.50	94	70	130			
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130			
Trichloroethene	4.36	ug/L	0.50	87	70	130			
Trichlorofluoromethane	5.36	ug/L	0.50	107	70	130			
1,2,3-Trichloropropane	4.60	ug/L	0.50	92	70	130			
1,2,4-Trimethylbenzene	4.80	ug/L	0.50	96	70	130			
1,3,5-Trimethylbenzene	4.76	ug/L	0.50	95	70	130			
Vinyl chloride	5.08	ug/L	0.50	102	70	130			
m+p-Xylenes	10.1	ug/L	0.50	101	70	130			
o-Xylene	5.04	ug/L	0.50	101	70	130			
Trihalomethanes, Total	19.9	ug/L	0.50	100	70	130			
Xylenes, Total	15.1	ug/L	0.50	101	70	130			
Surr: p-Bromofluorobenzene			0.50	97	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	113	74	127			
Surr: Toluene-d8			0.50	98	80	120			
Lab ID: CCV_L_031215	Continuing Calibration Verification Standard						03/12/15 12:10		
Allyl chloride	4.12	ug/L	1.0	82	70	130			
Chloroacetonitrile	160	ug/L	50	128	70	130			
1-Chlorobutane	4.04	ug/L	1.0	81	70	130			
1,1-Dichloropropanone	157	ug/L	50	125	70	130			
Diethyl ether	27.5	ug/L	10	55	70	130			S
Hexachloroethane	4.96	ug/L	1.0	99	70	130			
Methyl acrylate	5.24	ug/L	1.0	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Analytical Run: R239655		
Lab ID: CCV_L_031215	Continuing Calibration Verification Standard						03/12/15 12:10		
Nitrobenzene	202	ug/L	50	161	70	130			S
2-Nitropropane	131	ug/L	50	105	70	130			
Pentachloroethane	5.52	ug/L	1.0	110	70	130			
Tetrahydrofuran	49.2	ug/L	10	98	70	130			
Surr: p-Bromofluorobenzene			0.50	103	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	117	74	127			
Surr: Toluene-d8			0.50	97	80	120			

Method: E524.2							Batch: R239655		
Lab ID: LCS_031215	Laboratory Control Sample				Run: VOASATURN_150312A		03/12/15 11:07		
Acetone	50.8	ug/L	20	102	70	130			
Acrylonitrile	59.2	ug/L	20	118	70	130			
Benzene	5.12	ug/L	0.50	102	70	130			
Bromobenzene	4.60	ug/L	0.50	92	70	130			
Bromochloromethane	5.68	ug/L	0.50	114	70	130			
Bromodichloromethane	5.08	ug/L	0.50	102	70	130			
Bromoform	5.40	ug/L	0.50	108	70	130			
Bromomethane	5.12	ug/L	0.50	102	70	130			
n-Butylbenzene	4.72	ug/L	0.50	94	70	130			
sec-Butylbenzene	4.64	ug/L	0.50	93	70	130			
tert-Butylbenzene	4.48	ug/L	0.50	90	70	130			
Carbon disulfide	4.40	ug/L	1.0	88	70	130			
Carbon tetrachloride	5.12	ug/L	0.50	102	70	130			
Chlorobenzene	5.60	ug/L	0.50	112	70	130			
Chlorodibromomethane	6.20	ug/L	0.50	124	70	130			
Chloroethane	4.88	ug/L	0.50	98	70	130			
Chloroform	5.04	ug/L	0.50	101	70	130			
Chloromethane	5.68	ug/L	0.50	114	70	130			
2-Chlorotoluene	4.52	ug/L	0.50	90	70	130			
4-Chlorotoluene	4.56	ug/L	0.50	91	70	130			
1,2-Dibromo-3-chloropropane	5.60	ug/L	1.0	112	70	130			
Dibromomethane	5.44	ug/L	0.50	109	70	130			
1,2-Dichlorobenzene	4.76	ug/L	0.50	95	70	130			
1,3-Dichlorobenzene	4.56	ug/L	0.50	91	70	130			
1,4-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
trans-1,4-Dichloro-2-butene	4.76	ug/L	1.0	95	70	130			
Dichlorodifluoromethane	5.20	ug/L	0.50	104	70	130			
1,1-Dichloroethane	5.40	ug/L	0.50	108	70	130			
1,2-Dichloroethane	5.76	ug/L	0.50	115	70	130			
1,2-Dibromoethane	5.72	ug/L	0.50	114	70	130			
1,1-Dichloroethene	5.32	ug/L	0.50	106	70	130			
cis-1,2-Dichloroethene	5.44	ug/L	0.50	109	70	130			
trans-1,2-Dichloroethene	4.80	ug/L	0.50	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting

Report Date: 03/19/15
Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239855		
Lab ID: LCS_031215	Laboratory Control Sample			Run: VOASATURN_150312A			03/12/15 11:07		
1,2-Dichloropropane	5.12	ug/L	0.50	102	70	130			
1,3-Dichloropropane	5.20	ug/L	0.50	104	70	130			
2,2-Dichloropropane	4.96	ug/L	0.50	99	70	130			
1,1-Dichloropropene	4.96	ug/L	0.50	99	70	130			
cis-1,3-Dichloropropene	5.40	ug/L	0.50	108	70	130			
trans-1,3-Dichloropropene	6.20	ug/L	0.50	124	70	130			
Ethyl methacrylate	5.24	ug/L	1.0	105	70	130			
Ethylbenzene	5.40	ug/L	0.50	108	70	130			
Hexachlorobutadiene	4.72	ug/L	0.50	94	70	130			
2-Hexanone	63.2	ug/L	20	126	70	130			
Iodomethane	5.52	ug/L	1.0	110	70	130			
Isopropylbenzene	4.44	ug/L	0.50	89	70	130			
p-Isopropyltoluene	4.72	ug/L	0.50	94	70	130			
Methacrylonitrile	55.2	ug/L	10	110	70	130			
Methyl ethyl ketone	63.6	ug/L	20	127	70	130			
Methyl isobutyl ketone	62.4	ug/L	20	125	70	130			
Methyl methacrylate	5.48	ug/L	1.0	110	70	130			
Methyl tert-butyl ether (MTBE)	4.96	ug/L	0.50	99	70	130			
Methylene chloride	3.72	ug/L	0.50	74	70	130			
Naphthalene	6.12	ug/L	0.50	122	70	130			
Propionitrile	52.8	ug/L	10	106	70	130			
n-Propylbenzene	4.56	ug/L	0.50	91	70	130			
Styrene	5.44	ug/L	0.50	109	70	130			
1,1,1,2-Tetrachloroethane	5.64	ug/L	0.50	113	70	130			
1,1,2,2-Tetrachloroethane	5.16	ug/L	0.50	103	70	130			
Tetrachloroethene	5.04	ug/L	0.50	101	70	130			
Toluene	4.92	ug/L	0.50	98	70	130			
1,2,3-Trichlorobenzene	5.32	ug/L	0.50	106	70	130			
1,2,4-Trichlorobenzene	5.20	ug/L	0.50	104	70	130			
1,1,1-Trichloroethane	4.68	ug/L	0.50	94	70	130			
1,1,2-Trichloroethane	5.36	ug/L	0.50	107	70	130			
Trichloroethene	4.44	ug/L	0.50	89	70	130			
Trichlorofluoromethane	5.20	ug/L	0.50	104	70	130			
1,2,3-Trichloropropane	5.08	ug/L	0.50	102	70	130			
1,2,4-Trimethylbenzene	4.48	ug/L	0.50	90	70	130			
1,3,5-Trimethylbenzene	4.52	ug/L	0.50	90	70	130			
Vinyl chloride	4.72	ug/L	0.50	94	70	130			
m+p-Xylenes	10.9	ug/L	0.50	109	70	130			
o-Xylene	5.52	ug/L	0.50	110	70	130			
Trihalomethanes, Total	21.7	ug/L	0.50	109	70	130			
Xylenes, Total	16.4	ug/L	0.50	109	70	130			
Surr: p-Bromofluorobenzene			0.50	94	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	111	74	127			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239655		
Lab ID: LCS_031215	Laboratory Control Sample			Run: VOASATURN_150312A		03/12/15 11:07			
Surr: Toluene-d8			0.50	94	80	120			
Lab ID: LCS_L_031215	Laboratory Control Sample			Run: VOASATURN_150312A		03/12/15 12:41			
Alyl chloride	3.51	ug/L	1.0	70	70	130			
Chloroacetonitrile	162	ug/L	50	129	70	130			
1-Chlorobutane	5.32	ug/L	1.0	106	70	130			
1,1-Dichloropropanone	153	ug/L	50	122	70	130			
Diethyl ether	55.2	ug/L	10	110	70	130			
Hexachloroethane	4.80	ug/L	1.0	96	70	130			
Methyl acrylate	6.08	ug/L	1.0	122	70	130			
Nitrobenzene	225	ug/L	50	180	70	130			S
2-Nitropropane	139	ug/L	50	111	70	130			
Pentachloroethane	4.80	ug/L	1.0	96	70	130			
Tetrahydrofuran	61.6	ug/L	10	123	70	130			
Surr: p-Bromofluorobenzene			0.50	101	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	116	74	127			
Surr: Toluene-d8			0.50	97	80	120			
Lab ID: BLK_031215	Method Blank			Run: VOASATURN_150312A		03/12/15 13:13			
Acetone	ND	ug/L		20					
Acrylonitrile	ND	ug/L		20					
Benzene	ND	ug/L		0.50					
Bromobenzene	ND	ug/L		0.50					
Bromochloromethane	ND	ug/L		0.50					
Bromodichloromethane	ND	ug/L		0.50					
Bromoform	ND	ug/L		0.50					
Bromomethane	ND	ug/L		0.50					
n-Butylbenzene	ND	ug/L		0.50					
sec-Butylbenzene	ND	ug/L		0.50					
tert-Butylbenzene	ND	ug/L		0.50					
Carbon disulfide	ND	ug/L		1.0					
Carbon tetrachloride	ND	ug/L		0.50					
Chlorobenzene	ND	ug/L		0.50					
Chlorodibromomethane	ND	ug/L		0.50					
Chloroethane	ND	ug/L		0.50					
Chloroform	ND	ug/L		0.50					
Chloromethane	ND	ug/L		0.50					
2-Chlorotoluene	ND	ug/L		0.50					
4-Chlorotoluene	ND	ug/L		0.50					
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0					
Dibromomethane	ND	ug/L		0.50					
1,2-Dichlorobenzene	ND	ug/L		0.50					
1,3-Dichlorobenzene	ND	ug/L		0.50					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239655		
Lab ID: BLK_031215	Method Blank		Run: VOASATURN_150312A				03/12/15 13:13		
1,4-Dichlorobenzene	ND	ug/L	0.50						
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0						
Dichlorodifluoromethane	ND	ug/L	0.50						
1,1-Dichloroethane	ND	ug/L	0.50						
1,2-Dichloroethane	ND	ug/L	0.50						
1,2-Dibromoethane	ND	ug/L	0.50						
1,1-Dichloroethene	ND	ug/L	0.50						
cis-1,2-Dichloroethene	ND	ug/L	0.50						
trans-1,2-Dichloroethene	ND	ug/L	0.50						
1,2-Dichloropropane	ND	ug/L	0.50						
1,3-Dichloropropane	ND	ug/L	0.50						
2,2-Dichloropropane	ND	ug/L	0.50						
1,1-Dichloropropene	ND	ug/L	0.50						
cis-1,3-Dichloropropene	ND	ug/L	0.50						
trans-1,3-Dichloropropene	ND	ug/L	0.50						
Ethyl methacrylate	ND	ug/L	1.0						
Ethylbenzene	ND	ug/L	0.50						
Hexachlorobutadiene	ND	ug/L	0.50						
2-Hexanone	ND	ug/L	20						
Iodomethane	ND	ug/L	1.0						
Isopropylbenzene	ND	ug/L	0.50						
p-Isopropyltoluene	ND	ug/L	0.50						
Methacrylonitrile	ND	ug/L	10						
Methyl ethyl ketone	ND	ug/L	20						
Methyl isobutyl ketone	ND	ug/L	20						
Methyl methacrylate	ND	ug/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50						
Methylene chloride	ND	ug/L	0.50						
Naphthalene	ND	ug/L	0.50						
Propionitrile	ND	ug/L	10						
n-Propylbenzene	ND	ug/L	0.50						
Styrene	ND	ug/L	0.50						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Tetrachloroethene	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
1,2,3-Trichlorobenzene	ND	ug/L	0.50						
1,2,4-Trichlorobenzene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting

Report Date: 03/19/15
Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239655		
Lab ID: BLK_031215	Method Blank		Run: VOASATURN_150312A			03/12/15 13:13			
1,2,4-Trimethylbenzene	ND	ug/L	0.50						
1,3,5-Trimethylbenzene	ND	ug/L	0.50						
Vinyl chloride	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Trihalomethanes, Total	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: p-Bromofluorobenzene			0.50	98	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	126	74	127			
Surr: Toluene-d8			0.50	95	80	120			
Lab ID: BLK_L_031215	Method Blank		Run: VOASATURN_150312A			03/12/15 13:44			
Allyl chloride	ND	ug/L	1.0						
Chloroacetonitrile	ND	ug/L	50						
1-Chlorobutane	ND	ug/L	1.0						
1,1-Dichloropropanone	ND	ug/L	50						
Diethyl ether	ND	ug/L	10						
Hexachloroethane	ND	ug/L	1.0						
Methyl acrylate	ND	ug/L	1.0						
Nitrobenzene	ND	ug/L	50						
2-Nitropropane	ND	ug/L	50						
Pentachloroethane	ND	ug/L	1.0						
Tetrahydrofuran	ND	ug/L	10						
Surr: p-Bromofluorobenzene			0.50	104	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	120	74	127			
Surr: Toluene-d8			0.50	95	80	120			
Lab ID: B15030653-001D	Sample Duplicate		Run: VOASATURN_150312A			03/12/15 22:39			
Acetone	6.28	ug/L	20						20
Acrylonitrile	ND	ug/L	20						20
Benzene	ND	ug/L	0.50						20
Bromobenzene	ND	ug/L	0.50						20
Bromochloromethane	ND	ug/L	0.50						20
Bromodichloromethane	ND	ug/L	0.50						20
Bromoform	ND	ug/L	0.50						20
Bromomethane	ND	ug/L	0.50						20
n-Butylbenzene	ND	ug/L	0.50						20
sec-Butylbenzene	ND	ug/L	0.50						20
tert-Butylbenzene	ND	ug/L	0.50						20
Carbon disulfide	ND	ug/L	1.0						20
Carbon tetrachloride	ND	ug/L	0.50						20
Chlorobenzene	ND	ug/L	0.50						20
Chlorodibromomethane	ND	ug/L	0.50						20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting

Report Date: 03/19/15
Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239655		
Lab ID:	B15030653-001D	Sample Duplicate		Run: VOASATURN_150312A			03/12/15 22:39		
Chloroethane	ND	ug/L	0.50					20	
Chloroform	ND	ug/L	0.50					20	
Chloromethane	ND	ug/L	0.50					20	
2-Chlorotoluene	ND	ug/L	0.50					20	
4-Chlorotoluene	ND	ug/L	0.50					20	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0					20	
Dibromomethane	ND	ug/L	0.50					20	
1,2-Dichlorobenzene	ND	ug/L	0.50					20	
1,3-Dichlorobenzene	ND	ug/L	0.50					20	
1,4-Dichlorobenzene	ND	ug/L	0.50					20	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0					20	
Dichlorodifluoromethane	ND	ug/L	0.50					20	
1,1-Dichloroethane	ND	ug/L	0.50					20	
1,2-Dichloroethane	ND	ug/L	0.50					20	
1,2-Dibromoethane	ND	ug/L	0.50					20	
1,1-Dichloroethene	ND	ug/L	0.50					20	
cis-1,2-Dichloroethene	ND	ug/L	0.50					20	
trans-1,2-Dichloroethene	ND	ug/L	0.50					20	
1,2-Dichloropropane	ND	ug/L	0.50					20	
1,3-Dichloropropane	ND	ug/L	0.50					20	
2,2-Dichloropropane	ND	ug/L	0.50					20	
1,1-Dichloropropene	ND	ug/L	0.50					20	
cis-1,3-Dichloropropene	ND	ug/L	0.50					20	
trans-1,3-Dichloropropene	ND	ug/L	0.50					20	
Ethyl methacrylate	ND	ug/L	1.0					20	
Ethylbenzene	ND	ug/L	0.50					20	
Hexachlorobutadiene	ND	ug/L	0.50					20	
2-Hexanone	ND	ug/L	20					20	
Iodomethane	ND	ug/L	1.0					20	
Isopropylbenzene	ND	ug/L	0.50					20	
p-Isopropyltoluene	ND	ug/L	0.50					20	
Methacrylonitrile	ND	ug/L	10					20	
Methyl ethyl ketone	6.48	ug/L	20					20	
Methyl isobutyl ketone	ND	ug/L	20					20	
Methyl methacrylate	ND	ug/L	1.0					20	
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50					20	
Methylene chloride	ND	ug/L	0.50					20	
Naphthalene	ND	ug/L	0.50					20	
Propionitrile	ND	ug/L	10					20	
n-Propylbenzene	ND	ug/L	0.50					20	
Styrene	ND	ug/L	0.50					20	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50					20	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50					20	

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2							Batch: R239855		
Lab ID: B15030653-001D	Sample Duplicate		Run: VOASATURN_150312A				03/12/15 22:39		
Tetrachloroethene	ND	ug/L	0.50					20	
Toluene	ND	ug/L	0.50					20	
1,2,3-Trichlorobenzene	ND	ug/L	0.50					20	
1,2,4-Trichlorobenzene	ND	ug/L	0.50					20	
1,1,1-Trichloroethane	ND	ug/L	0.50					20	
1,1,2-Trichloroethane	ND	ug/L	0.50					20	
Trichloroethene	ND	ug/L	0.50					20	
Trichlorofluoromethane	ND	ug/L	0.50					20	
1,2,3-Trichloropropane	ND	ug/L	0.50					20	
1,2,4-Trimethylbenzene	ND	ug/L	0.50					20	
1,3,5-Trimethylbenzene	ND	ug/L	0.50					20	
Vinyl chloride	ND	ug/L	0.50					20	
m+p-Xylenes	ND	ug/L	0.50					20	
o-Xylene	ND	ug/L	0.50					20	
Trihalomethanes, Total	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: p-Bromofluorobenzene			0.50	108	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	116	74	127			
Surr: Toluene-d8			0.50	98	80	120			

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID: MB-87721	Method Blank		Run: SVSATURN3_150313A				03/13/15 13:25		
1-Methylnaphthalene	ND	ug/L	0.10						
2,2',3,3',4,4',6-Heptachlorobiphenyl	ND	ug/L	0.10						
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	ND	ug/L	0.10						
2,2',3',4,6-Pentachlorobiphenyl	ND	ug/L	0.10						
2,2',4,4',5,6'-Hexachlorobiphenyl	ND	ug/L	0.10						
2,2',4,4'-Tetrachlorobiphenyl	ND	ug/L	0.10						
2,3-Dichlorobiphenyl	ND	ug/L	0.10						
2,4,5-Trichlorobiphenyl	ND	ug/L	0.10						
2-Chlorobiphenyl	ND	ug/L	0.10						
2-Methylnaphthalene	ND	ug/L	0.10						
Acenaphthene	ND	ug/L	0.10						
Acenaphthylene	ND	ug/L	0.10						
Alachlor	ND	ug/L	0.10						
Aldrin	ND	ug/L	0.10						
alpha-Chlordane	ND	ug/L	0.10						
Anthracene	ND	ug/L	0.10						
Atrazine	ND	ug/L	0.10						
Benefin	ND	ug/L	0.10						
Benzo(a)anthracene	ND	ug/L	0.10						
Benzo(a)pyrene	ND	ug/L	0.10						
Benzo(b)fluoranthene	ND	ug/L	0.10						
Benzo(g,h,i)perylene	ND	ug/L	0.10						
Benzo(k)fluoranthene	ND	ug/L	0.10						
Butachlor	ND	ug/L	0.10						
Butylbenzylphthalate	ND	ug/L	0.50						
Chlordane	ND	ug/L	1.0						
Chrysene	ND	ug/L	0.10						
di(2-ethylhexyl)Adipate	ND	ug/L	0.50						
di(2-ethylhexyl)Phthalate	ND	ug/L	0.60						
Dibenz(a,h)anthracene	ND	ug/L	0.10						
Dieldrin	ND	ug/L	0.10						
Diethyl phthalate	ND	ug/L	0.50						
Dimethyl phthalate	ND	ug/L	0.50						
Di-n-butyl phthalate	ND	ug/L	0.50						
Endrin	ND	ug/L	0.10						
Fluoranthene	ND	ug/L	0.10						
Fluorene	ND	ug/L	0.10						
gamma-BHC (Lindane)	ND	ug/L	0.10						
gamma-Chlordane	ND	ug/L	0.10						
Heptachlor	ND	ug/L	0.10						
Heptachlor epoxide	ND	ug/L	0.10						
Hexachlorobenzene	ND	ug/L	0.10						
Hexachlorocyclopentadiene	ND	ug/L	0.10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID: MB-87721	Method Blank		Run: SVSATURN3_150313A				03/13/15 13:25		
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10						
Isopropalin	ND	ug/L	0.10						
Methoxychlor	ND	ug/L	0.10						
Metolachlor	ND	ug/L	0.10						
Metribuzin	ND	ug/L	0.10						
Naphthalene	ND	ug/L	0.10						
Norflurazon	ND	ug/L	0.10						
Oxidiazon	ND	ug/L	0.10						
Oxyfluorfen	ND	ug/L	0.10						
Pendimethalin	ND	ug/L	0.10						
Phenanthrene	ND	ug/L	0.10						
Profluralin	ND	ug/L	0.10						
Propachlor	ND	ug/L	0.10						
Pyrene	ND	ug/L	0.10						
Simazine	ND	ug/L	0.10						
Toxaphene	ND	ug/L	2.0						
trans-Nonachlor	ND	ug/L	0.10						
Trifluralin	ND	ug/L	0.10						
Vernolate	ND	ug/L	0.10						
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	105	70	130			
Surr: Perylene-d12			0.10	91	70	130			
Surr: Pyrene-d10			0.10	104	70	130			
Surr: Triphenylphosphate			0.10	111	70	130			
Lab ID: LCS-87721	Laboratory Control Sample		Run: SVSATURN3_150313A				03/13/15 14:43		
1-Methylnaphthalene	1.99	ug/L	0.10	100	70	130			
2,2',3,3',4,4',6-Heptachlorobiphenyl	2.45	ug/L	0.10	123	70	130			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	2.32	ug/L	0.10	116	70	130			
2,2',3',4,6-Pentachlorobiphenyl	1.87	ug/L	0.10	94	70	130			
2,2',4,4',5,6'-Hexachlorobiphenyl	2.29	ug/L	0.10	115	70	130			
2,2',4,4'-Tetrachlorobiphenyl	1.94	ug/L	0.10	97	70	130			
2,3-Dichlorobiphenyl	2.03	ug/L	0.10	101	70	130			
2,4,5-Trichlorobiphenyl	2.09	ug/L	0.10	104	70	130			
2-Chlorobiphenyl	2.02	ug/L	0.10	101	70	130			
2-Methylnaphthalene	2.00	ug/L	0.10	100	70	130			
Acenaphthene	2.01	ug/L	0.10	100	70	130			
Acenaphthylene	1.99	ug/L	0.10	100	70	130			
Alachlor	2.19	ug/L	0.10	109	70	130			
Aldrin	2.02	ug/L	0.10	101	70	130			
alpha-Chlordane	2.13	ug/L	0.10	106	70	130			
Anthracene	2.10	ug/L	0.10	105	70	130			
Atrazine	1.96	ug/L	0.10	98	70	130			
Benefin	2.37	ug/L	0.10	119	70	130			

Qualifiers:

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2									Batch: 87721
Lab ID: LCS-87721	Laboratory Control Sample					Run: SVSATURN3_150313A			03/13/15 14:43
Benzo(a)anthracene	2.23	ug/L	0.10	112	70	130			
Benzo(a)pyrene	1.99	ug/L	0.10	100	70	130			
Benzo(b)fluoranthene	1.88	ug/L	0.10	94	70	130			
Benzo(g,h,i)perylene	2.19	ug/L	0.10	109	70	130			
Benzo(k)fluoranthene	2.07	ug/L	0.10	103	70	130			
Butachlor	2.34	ug/L	0.10	117	70	130			
Butylbenzylphthalate	2.32	ug/L	0.50	116	70	130			
Chrysene	1.49	ug/L	0.10	75	70	130			
di(2-ethylhexyl)Adipate	2.28	ug/L	0.50	114	70	130			
di(2-ethylhexyl)Phthalate	2.48	ug/L	0.60	124	70	130			
Dibenz(a,h)anthracene	2.18	ug/L	0.10	109	70	130			
Dieldrin	2.25	ug/L	0.10	113	70	130			
Diethyl phthalate	2.19	ug/L	0.50	109	70	130			
Dimethyl phthalate	2.02	ug/L	0.50	101	70	130			
Di-n-butyl phthalate	2.18	ug/L	0.50	109	70	130			
Endrin	2.03	ug/L	0.10	101	70	130			
Fluoranthene	2.12	ug/L	0.10	106	70	130			
Fluorene	2.05	ug/L	0.10	102	70	130			
gamma-BHC (Lindane)	2.25	ug/L	0.10	113	70	130			
gamma-Chlordane	2.11	ug/L	0.10	105	70	130			
Heptachlor	2.18	ug/L	0.10	109	70	130			
Heptachlor epoxide	2.06	ug/L	0.10	103	70	130			
Hexachlorobenzene	2.08	ug/L	0.10	104	70	130			
Hexachlorocyclopentadiene	2.22	ug/L	0.10	111	70	130			
Indeno(1,2,3-cd)pyrene	1.98	ug/L	0.10	99	70	130			
Isopropalin	2.36	ug/L	0.10	118	70	130			
Methoxychlor	2.27	ug/L	0.10	114	70	130			
Metolachlor	2.29	ug/L	0.10	115	70	130			
Metribuzin	1.76	ug/L	0.10	88	70	130			
Naphthalene	2.12	ug/L	0.10	106	70	130			
Norfurazon	2.06	ug/L	0.10	103	70	130			
Oxidiazon	2.33	ug/L	0.10	117	70	130			
Oxyfluorfen	2.66	ug/L	0.10	133	70	130			S
Pendimethalin	2.65	ug/L	0.10	132	70	130			S
Pheranthrene	2.15	ug/L	0.10	107	70	130			
Profluralin	2.13	ug/L	0.10	106	70	130			
Propachlor	2.49	ug/L	0.10	125	70	130			
Pyrene	2.16	ug/L	0.10	108	70	130			
Simazine	2.03	ug/L	0.10	101	70	130			
trans-Nonachlor	2.12	ug/L	0.10	106	70	130			
Trifluralin	2.37	ug/L	0.10	119	70	130			
Vernolate	2.23	ug/L	0.10	112	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID: LCS-87721	Laboratory Control Sample			Run: SVSATURN3_150313A			03/13/15 14:43		
Surr: Perylene-d12			0.10	98	70	130			
Surr: Pyrene-d10			0.10	103	70	130			
Surr: Triphenylphosphate			0.10	114	70	130			
Lab ID: CLD-87721	Laboratory Control Sample			Run: SVSATURN3_150313A			03/13/15 16:40		
Chlordane	21.3	ug/L	1.0	106	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	107	70	130			
Surr: Perylene-d12			0.10	89	70	130			
Surr: Pyrene-d10			0.10	100	70	130			
Surr: Triphenylphosphate			0.10	108	70	130			
Lab ID: B15030664-001BMS	Sample Matrix Spike			Run: SVSATURN3_150313A			03/13/15 15:22		
1-Methylnaphthalene	3.92	ug/L	0.20	98	70	130			
2,2',3,3',4,4',6-Heptachlorobiphenyl	5.38	ug/L	0.20	135	70	130			S
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.66	ug/L	0.20	117	70	130			
2,2',3',4,6-Pentachlorobiphenyl	3.80	ug/L	0.20	95	70	130			
2,2',4,4',5,6'-Hexachlorobiphenyl	4.68	ug/L	0.20	117	70	130			
2,2',4,4'-Tetrachlorobiphenyl	3.88	ug/L	0.20	97	70	130			
2,3-Dichlorobiphenyl	4.02	ug/L	0.20	100	70	130			
2,4,5-Trichlorobiphenyl	4.18	ug/L	0.20	104	70	130			
2-Chlorobiphenyl	4.10	ug/L	0.20	102	70	130			
2-Methylnaphthalene	4.08	ug/L	0.20	102	70	130			
Acenaphthene	4.02	ug/L	0.20	100	70	130			
Acenaphthylene	4.24	ug/L	0.20	106	70	130			
Alachlor	4.36	ug/L	0.20	109	70	130			
Aldrin	4.06	ug/L	0.20	101	70	130			
alpha-Chlordane	4.08	ug/L	0.20	102	70	130			
Anthracene	4.30	ug/L	0.20	107	70	130			
Atrazine	4.32	ug/L	0.20	108	70	130			
Benefin	5.02	ug/L	0.20	125	70	130			
Benzo(a)anthracene	5.02	ug/L	0.20	125	70	130			
Benzo(a)pyrene	4.14	ug/L	0.20	103	70	130			
Benzo(b)fluoranthene	3.86	ug/L	0.20	97	70	130			
Benzo(g,h,i)perylene	4.32	ug/L	0.20	108	70	130			
Benzo(k)fluoranthene	4.08	ug/L	0.20	102	70	130			
Butachlor	4.52	ug/L	0.20	113	70	130			
Butylbenzylphthalate	4.78	ug/L	1.0	120	70	130			
Chrysene	3.10	ug/L	0.20	78	70	130			
di(2-ethylhexyl)Adipate	4.40	ug/L	1.0	110	70	130			
di(2-ethylhexyl)Phthalate	4.72	ug/L	1.2	118	70	130			
Dibenz(a,h)anthracene	4.30	ug/L	0.20	107	70	130			
Dieldrin	4.70	ug/L	0.20	118	70	130			
Diethyl phthalate	4.66	ug/L	1.0	117	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting

Report Date: 03/19/15
Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID: B15030664-001BMS	Sample Matrix Spike			Run: SVSATURN3_150313A			03/13/15 15:22		
Dimethyl phthalate	4.56	ug/L	1.0	114	70	130			
Di-n-butyl phthalate	4.34	ug/L	1.0	108	70	130			
Endrin	4.36	ug/L	0.20	109	70	130			
Fluoranthene	4.40	ug/L	0.20	110	70	130			
Fluorene	4.28	ug/L	0.20	107	70	130			
gamma-BHC (Lindane)	4.54	ug/L	0.20	114	70	130			
gamma-Chlordane	3.84	ug/L	0.20	96	70	130			
Heptachlor	4.20	ug/L	0.20	105	70	130			
Heptachlor epoxide	4.06	ug/L	0.20	101	70	130			
Hexachlorobenzene	4.20	ug/L	0.20	105	70	130			
Hexachlorocyclopentadiene	4.64	ug/L	0.20	116	70	130			
Indeno(1,2,3-cd)pyrene	4.24	ug/L	0.20	106	70	130			
Isopropalin	4.52	ug/L	0.20	113	70	130			
Methoxychlor	4.88	ug/L	0.20	122	70	130			
Metolachlor	4.56	ug/L	0.20	114	70	130			
Metribuzin	4.44	ug/L	0.20	111	70	130			
Naphthalene	4.48	ug/L	0.20	112	70	130			
Norflurazon	4.86	ug/L	0.20	122	70	130			
Oxidiazon	5.32	ug/L	0.20	133	70	130			S
Oxyfluorfen	5.72	ug/L	0.20	143	70	130			S
Pendimethalin	5.26	ug/L	0.20	131	70	130			S
Phenanthrene	4.32	ug/L	0.20	108	70	130			
Profluralin	4.28	ug/L	0.20	107	70	130			
Propachlor	5.20	ug/L	0.20	130	70	130			
Pyrene	3.98	ug/L	0.20	100	70	130			
Simazine	4.06	ug/L	0.20	101	70	130			
trans-Nonachlor	4.72	ug/L	0.20	118	70	130			
Trifluralin	4.90	ug/L	0.20	123	70	130			
Vernolate	4.44	ug/L	0.20	111	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.20	88	70	130			
Surr: Perylene-d12			0.20	93	70	130			
Surr: Pyrene-d10			0.20	95	70	130			
Surr: Triphenylphosphate			0.20	117	70	130			
Lab ID: B15030664-001BMSD	Sample Matrix Spike Duplicate			Run: SVSATURN3_150313A			03/13/15 16:02		
1-Methylnaphthalene	4.02	ug/L	0.20	100	70	130	2.5	40	
2,2',3,3',4,4',6-Heptachlorobiphenyl	5.14	ug/L	0.20	128	70	130	4.6	40	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.60	ug/L	0.20	115	70	130	1.3	40	
2,2',3',4,6-Pentachlorobiphenyl	3.62	ug/L	0.20	91	70	130	4.9	40	
2,2',4,4',5,6'-Hexachlorobiphenyl	4.62	ug/L	0.20	116	70	130	1.3	40	
2,2',4,4'-Tetrachlorobiphenyl	3.84	ug/L	0.20	96	70	130	1.0	40	
2,3-Dichlorobiphenyl	4.08	ug/L	0.20	102	70	130	1.5	40	
2,4,5-Trichlorobiphenyl	4.14	ug/L	0.20	103	70	130	1.0	40	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID: B15030664-001BMSD	Sample Matrix Spike Duplicate				Run: SVSATURN3_150313A			03/13/15 16:02	
2-Chlorobiphenyl	4.22	ug/L	0.20	105	70	130	2.9	40	
2-Methylnaphthalene	4.00	ug/L	0.20	100	70	130	2.0	40	
Acenaphthene	4.04	ug/L	0.20	101	70	130	0.5	40	
Acenaphthylene	4.20	ug/L	0.20	105	70	130	0.9	40	
Alachlor	4.10	ug/L	0.20	102	70	130	6.1	40	
Aldrin	3.82	ug/L	0.20	96	70	130	6.1	40	
alpha-Chlordane	4.06	ug/L	0.20	101	70	130	0.5	40	
Anthracene	4.14	ug/L	0.20	103	70	130	3.8	40	
Atrazine	4.04	ug/L	0.20	101	70	130	6.7	40	
Benefin	4.70	ug/L	0.20	118	70	130	6.6	40	
Benzo(a)anthracene	4.64	ug/L	0.20	116	70	130	7.9	40	
Benzo(a)pyrene	4.36	ug/L	0.20	109	70	130	5.2	40	
Benzo(b)fluoranthene	4.00	ug/L	0.20	100	70	130	3.6	40	
Benzo(g,h,i)perylene	4.44	ug/L	0.20	111	70	130	2.7	40	
Benzo(k)fluoranthene	4.14	ug/L	0.20	103	70	130	1.5	40	
Butachlor	4.44	ug/L	0.20	111	70	130	1.8	40	
Butylbenzylphthalate	4.86	ug/L	1.0	122	70	130	1.7	40	
Chrysene	3.02	ug/L	0.20	76	70	130	2.6	40	
di(2-ethylhexyl)Adipate	4.52	ug/L	1.0	113	70	130	2.7	40	
di(2-ethylhexyl)Phthalate	4.96	ug/L	1.2	124	70	130	5.0	40	
Dibenz(a,h)anthracene	4.54	ug/L	0.20	114	70	130	5.4	40	
Dieldrin	4.48	ug/L	0.20	112	70	130	4.8	40	
Diethyl phthalate	4.42	ug/L	1.0	110	70	130	5.3	40	
Dimethyl phthalate	4.38	ug/L	1.0	109	70	130	4.0	40	
Di-n-butyl phthalate	4.18	ug/L	1.0	104	70	130	3.8	40	
Endrin	4.20	ug/L	0.20	105	70	130	3.7	40	
Fluoranthene	4.12	ug/L	0.20	103	70	130	6.6	40	
Fluorene	4.18	ug/L	0.20	104	70	130	2.4	40	
gamma-BHC (Lindane)	4.60	ug/L	0.20	115	70	130	1.3	40	
gamma-Chlordane	4.00	ug/L	0.20	100	70	130	4.1	40	
Heptachlor	4.34	ug/L	0.20	108	70	130	3.3	40	
Heptachlor epoxide	4.14	ug/L	0.20	103	70	130	2.0	40	
Hexachlorobenzene	4.00	ug/L	0.20	100	70	130	4.9	40	
Hexachlorocyclopentadiene	4.84	ug/L	0.20	121	70	130	4.2	40	
Indeno(1,2,3-cd)pyrene	4.18	ug/L	0.20	104	70	130	1.4	40	
Isopropalin	4.54	ug/L	0.20	114	70	130	0.4	40	
Methoxychlor	5.06	ug/L	0.20	126	70	130	3.6	40	
Metolachlor	4.40	ug/L	0.20	110	70	130	3.6	40	
Metribuzin	4.10	ug/L	0.20	102	70	130	8.0	40	
Naphthalene	3.76	ug/L	0.20	94	70	130	17	40	
Norflurazon	5.14	ug/L	0.20	128	70	130	5.6	40	
Oxidiazon	5.16	ug/L	0.20	129	70	130	3.1	40	
Oxyfluorfen	5.60	ug/L	0.20	140	70	130	2.1	40	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Batch: 87721		
Lab ID:	B15030664-001BMSD	Sample Matrix Spike Duplicate			Run: SVSATURN3_150313A			03/13/15 16:02	
Pendimethalin	5.18	ug/L	0.20	129	70	130	1.5	40	
Phenanthrene	4.08	ug/L	0.20	102	70	130	5.7	40	
Profluralin	4.28	ug/L	0.20	107	70	130	0.0	40	
Propachlor	5.16	ug/L	0.20	129	70	130	0.8	40	
Pyrene	3.98	ug/L	0.20	100	70	130	0.0	40	
Simazine	4.34	ug/L	0.20	108	70	130	6.7	40	
trans-Nonachlor	4.38	ug/L	0.20	109	70	130	7.5	40	
Trifluralin	4.50	ug/L	0.20	113	70	130	8.5	40	
Vernolate	4.48	ug/L	0.20	112	70	130	0.9	40	
Surr: 1,3-Dimethyl-2-nitrobenzene			0.20	93	70	130			
Surr: Perylene-d12			0.20	95	70	130			
Surr: Pyrene-d10			0.20	94	70	130			
Surr: Triphenylphosphate			0.20	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Analytical Run: R239800		
Lab ID: 525_CCV_5	Continuing Calibration Verification Standard						03/13/15 10:09		
1-Methylnaphthalene	1.83	ug/L	0.10	92	70	130			
2,2',3,3',4,4',6-Heptachlorobiphenyl	2.10	ug/L	0.10	105	70	130			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	2.15	ug/L	0.10	107	70	130			
2,2',3',4,6-Pentachlorobiphenyl	1.91	ug/L	0.10	96	70	130			
2,2',4,4',5,6'-Hexachlorobiphenyl	2.25	ug/L	0.10	113	70	130			
2,2',4,4'-Tetrachlorobiphenyl	2.15	ug/L	0.10	107	70	130			
2,3-Dichlorobiphenyl	1.82	ug/L	0.10	91	70	130			
2,4,5-Trichlorobiphenyl	2.12	ug/L	0.10	106	70	130			
2-Chlorobiphenyl	1.86	ug/L	0.10	93	70	130			
2-Methylnaphthalene	1.91	ug/L	0.10	96	70	130			
Acenaphthene	1.90	ug/L	0.10	95	70	130			
Acenaphthylene	1.87	ug/L	0.10	94	70	130			
Atachlor	2.10	ug/L	0.10	105	70	130			
Aldrin	2.00	ug/L	0.10	100	70	130			
alpha-Chlordane	2.07	ug/L	0.10	103	70	130			
Anthracene	2.13	ug/L	0.10	106	70	130			
Atrazine	2.07	ug/L	0.10	103	70	130			
Benefin	1.96	ug/L	0.10	98	70	130			
Benzo(a)anthracene	2.30	ug/L	0.10	115	70	130			
Benzo(a)pyrene	1.88	ug/L	0.10	94	70	130			
Benzo(b)fluoranthene	1.90	ug/L	0.10	95	70	130			
Benzo(g,h,i)perylene	2.15	ug/L	0.10	107	70	130			
Benzo(k)fluoranthene	1.93	ug/L	0.10	96	70	130			
Butachlor	2.25	ug/L	0.10	113	70	130			
Butylbenzylphthalate	2.20	ug/L	0.50	110	70	130			
Chrysene	1.95	ug/L	0.10	98	70	130			
di(2-ethylhexyl)Adipate	2.06	ug/L	0.50	103	70	130			
di(2-ethylhexyl)Phthalate	2.18	ug/L	0.60	109	70	130			
Dibenz(a,h)anthracene	1.95	ug/L	0.10	98	70	130			
Dieldrin	1.93	ug/L	0.10	96	70	130			
Diethyl phthalate	1.92	ug/L	0.50	96	70	130			
Dimethyl phthalate	1.94	ug/L	0.50	97	70	130			
Di-n-butyl phthalate	2.17	ug/L	0.50	108	70	130			
Endrin	2.07	ug/L	0.10	103	70	130			
Fluoranthene	2.08	ug/L	0.10	104	70	130			
Fluorene	1.82	ug/L	0.10	91	70	130			
gamma-BHC (Lindane)	2.21	ug/L	0.10	110	70	130			
gamma-Chlordane	2.07	ug/L	0.10	103	70	130			
Heptachlor	2.34	ug/L	0.10	117	70	130			
Heptachlor epoxide	2.06	ug/L	0.10	103	70	130			
Hexachlorobenzene	2.10	ug/L	0.10	105	70	130			
Hexachlorocyclopentadiene	1.96	ug/L	0.10	98	70	130			
Indeno(1,2,3-cd)pyrene	1.97	ug/L	0.10	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab
Project: Applied Water Consulting

Report Date: 03/19/15
Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2							Analytical Run: R239800		
Lab ID: 525_CCV_5	Continuing Calibration Verification Standard							03/13/15 10:09	
Isopropalin	2.16	ug/L	0.10	108	70	130			
Methoxychlor	2.23	ug/L	0.10	112	70	130			
Metolachlor	2.07	ug/L	0.10	103	70	130			
Metribuzin	2.21	ug/L	0.10	110	70	130			
Naphthalene	2.00	ug/L	0.10	100	70	130			
Norflurazon	1.92	ug/L	0.10	96	70	130			
Oxidiazon	2.09	ug/L	0.10	104	70	130			
Oxyfluorfen	2.43	ug/L	0.10	122	70	130			
Pendimethalin	2.33	ug/L	0.10	117	70	130			
Phenanthrene	2.12	ug/L	0.10	106	70	130			
Profluralin	2.21	ug/L	0.10	110	70	130			
Propachlor	1.99	ug/L	0.10	100	70	130			
Pyrene	2.12	ug/L	0.10	106	70	130			
Simazine	2.21	ug/L	0.10	110	70	130			
trans-Nonachlor	2.02	ug/L	0.10	101	70	130			
Trifluralin	1.87	ug/L	0.10	94	70	130			
Vernolate	1.91	ug/L	0.10	96	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	102	70	130			
Surr: Perylene-d12			0.10	101	70	130			
Surr: Pyrene-d10			0.10	101	70	130			
Surr: Triphenylphosphate			0.10	103	70	130			
Lab ID: GLD_CCV_5	Continuing Calibration Verification Standard							03/13/15 11:27	
Chlordane	19.5	ug/L	1.0	98	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	106	70	130			
Surr: Perylene-d12			0.10	104	70	130			
Surr: Pyrene-d10			0.10	99	70	130			
Surr: Triphenylphosphate			0.10	111	70	130			
Lab ID: TOX_CCV_5	Continuing Calibration Verification Standard							03/13/15 12:06	
Toxaphene	42.3	ug/L	2.0	106	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene			0.10	101	70	130			
Surr: Perylene-d12			0.10	100	70	130			
Surr: Pyrene-d10			0.10	101	70	130			
Surr: Triphenylphosphate			0.10	111	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1							Analytical Run: SUB-C197144		
Lab ID: CCV	Continuing Calibration Verification Standard							03/13/15 21:46	
Aldicarb	8.8	ug/L	0.40	88	80	120			
Aldicarb sulfone	9.5	ug/L	0.40	95	80	120			
Aldicarb sulfoxide	9.3	ug/L	0.40	93	80	120			
Carbaryl	9.5	ug/L	0.40	95	80	120			
Carbofuran	9.8	ug/L	0.40	98	80	120			
3-Hydroxycarbofuran	9.2	ug/L	0.40	92	80	120			
Methiocarb	9.4	ug/L	0.40	94	80	120			
Methomyl	9.5	ug/L	0.40	95	80	120			
Oxamyl	9.6	ug/L	0.40	96	80	120			
Baygon	9.3	ug/L	0.40	93	80	120			
Surr: BDMC			0.40	127	70	130			
Lab ID: CCV	Continuing Calibration Verification Standard							03/14/15 02:04	
Aldicarb	8.6	ug/L	0.40	86	80	120			
Aldicarb sulfone	9.2	ug/L	0.40	92	80	120			
Aldicarb sulfoxide	9.3	ug/L	0.40	93	80	120			
Carbaryl	9.5	ug/L	0.40	95	80	120			
Carbofuran	9.8	ug/L	0.40	98	80	120			
3-Hydroxycarbofuran	8.8	ug/L	0.40	88	80	120			
Methiocarb	9.3	ug/L	0.40	93	80	120			
Methomyl	9.5	ug/L	0.40	95	80	120			
Oxamyl	9.5	ug/L	0.40	95	80	120			
Baygon	9.4	ug/L	0.40	94	80	120			
Surr: BDMC			0.40	124	70	130			
Method: E531.1							Batch: C_R197144		
Lab ID: MBLK	Method Blank		Run: SUB-C197144				03/13/15 10:37		
Aldicarb	ND	ug/L	0.1						
Aldicarb sulfone	ND	ug/L	0.1						
Aldicarb sulfoxide	ND	ug/L	0.1						
Carbaryl	ND	ug/L	0.08						
Carbofuran	ND	ug/L	0.04						
3-Hydroxycarbofuran	ND	ug/L	0.1						
Methiocarb	ND	ug/L	0.2						
Methomyl	ND	ug/L	0.1						
Oxamyl	ND	ug/L	0.1						
Baygon	ND	ug/L	0.05						
Surr: BDMC				135	70	130			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, this batch is approved.									
Lab ID: C15030376-001EMS	Sample Matrix Spike		Run: SUB-C197144				03/13/15 11:29		
Aldicarb	16	ug/L	0.40	103	65	135			
Aldicarb sulfone	15	ug/L	0.40	96	65	135			
Aldicarb sulfoxide	17	ug/L	0.40	105	65	135			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Montana Environmental Lab

Report Date: 03/19/15

Project: Applied Water Consulting

Work Order: B15030653

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1							Batch: C_R197144		
Lab ID: C15030376-001EMS	Sample Matrix Spike		Run: SUB-C197144				03/13/15 11:29		
Carbaryl	15	ug/L	0.40	94	65	135			
Carbofuran	16	ug/L	0.40	102	65	135			
3-Hydroxycarbofuran	15	ug/L	0.40	92	65	135			
Methiocarb	15	ug/L	0.40	95	65	135			
Methomyl	17	ug/L	0.40	106	65	135			
Oxamyl	16	ug/L	0.40	102	65	135			
Baygon	16	ug/L	0.40	103	65	135			
Surr: BDMC			0.40	114	70	130			
Lab ID: C15030376-001EMSD	Sample Matrix Spike Duplicate		Run: SUB-C197144				03/13/15 12:20		
Aldicarb	18	ug/L	0.40	101	65	135	1.3	20	
Aldicarb sulfone	15	ug/L	0.40	95	65	135	1.2	20	
Aldicarb sulfoxide	17	ug/L	0.40	104	65	135	1.2	20	
Carbaryl	15	ug/L	0.40	94	65	135	0.0	20	
Carbofuran	16	ug/L	0.40	98	65	135	3.9	20	
3-Hydroxycarbofuran	15	ug/L	0.40	91	65	135	1.1	20	
Methiocarb	15	ug/L	0.40	95	65	135	0.0	20	
Methomyl	17	ug/L	0.40	105	65	135	1.1	20	
Oxamyl	16	ug/L	0.40	100	65	135	1.4	20	
Baygon	17	ug/L	0.40	104	65	135	1.5	20	
Surr: BDMC			0.40	115	70	130	0.0	20	
Lab ID: LCS	Laboratory Control Sample		Run: SUB-C197144				03/13/15 09:46		
Aldicarb	8.3	ug/L	0.40	104	80	120			
Aldicarb sulfone	7.4	ug/L	0.40	92	80	120			
Aldicarb sulfoxide	8.1	ug/L	0.40	101	80	120			
Carbaryl	7.5	ug/L	0.40	93	80	120			
Carbofuran	8.2	ug/L	0.40	103	80	120			
3-Hydroxycarbofuran	7.7	ug/L	0.40	97	80	120			
Methiocarb	7.4	ug/L	0.40	93	80	120			
Methomyl	8.6	ug/L	0.40	108	80	120			
Oxamyl	7.6	ug/L	0.40	96	80	120			
Baygon	8.2	ug/L	0.40	102	80	120			
Surr: BDMC			0.40	126	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Montana Environmental Lab

B15030653

Login completed by: Tamara C. Logan

Date Received: 3/10/2015

Reviewed by: BL2000/tedwards

Received by: dlf

Reviewed Date: 3/11/2015

Carrier name: Return-UPS Ground N/C

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	8.6°C Blue Ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Sample for Odor analysis was received past hold and in a plastic sample container, method specifies sample should be collected in glass container. Per phone call with Lorri Kriskovich proceed with analysis.

Chain of Custody had an analysis for 515.4-Herbicides Chlorinated SDWA long list. Per phone call from Jon Cuthbertson analyze by regular method for 515.4-Herbicides Chlorinated SDWA.



Chain of Custody and Analytical Request Record

Company Name: **MONTANA ENVIRONMENTAL LAB LLC**
 1170 North Meridian Rd.
 P.O. Box 8900
 No Hard Copy Email/Dispatch, MT 59904

Report Mail Address (Required):
 Invoice Address (Required):

Project Name: PWS, Permit, Etc. **Applied Water Consulting**
 Sample Origin State: **MT**

Contact Name: **Phone/Fax:**
 Cell: **Invoice Contact & Phone:**
 Quote/Bottle Order: **1961**

EPA/State Compliance: Yes No
 Sampler: (Please Print)

Number of Containers	Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water	MATRIX	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	ANALYSIS REQUESTED	Standard Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Receipt Temp	Shipped by:	
			Format:	Collection Date								Collection Time	On Ice:
1		DW-10	Moorena Accession Control	3/8/15	16:10	<input checked="" type="checkbox"/> VOC524-Low/Lst <input checked="" type="checkbox"/> ES15-Low/Lst <input checked="" type="checkbox"/> ES25-Low/Lst <input checked="" type="checkbox"/> ES31 <input checked="" type="checkbox"/> ES32 <input checked="" type="checkbox"/> ES33 <input checked="" type="checkbox"/> ES34 <input checked="" type="checkbox"/> ES35 <input checked="" type="checkbox"/> ES36 <input checked="" type="checkbox"/> ES37 <input checked="" type="checkbox"/> ES38 <input checked="" type="checkbox"/> ES39 <input checked="" type="checkbox"/> ES40 <input checked="" type="checkbox"/> ES41 <input checked="" type="checkbox"/> ES42 <input checked="" type="checkbox"/> ES43 <input checked="" type="checkbox"/> ES44 <input checked="" type="checkbox"/> ES45 <input checked="" type="checkbox"/> ES46 <input checked="" type="checkbox"/> ES47 <input checked="" type="checkbox"/> ES48 <input checked="" type="checkbox"/> ES49 <input checked="" type="checkbox"/> ES50 <input checked="" type="checkbox"/> ES51 <input checked="" type="checkbox"/> ES52 <input checked="" type="checkbox"/> ES53 <input checked="" type="checkbox"/> ES54 <input checked="" type="checkbox"/> ES55 <input checked="" type="checkbox"/> ES56 <input checked="" type="checkbox"/> ES57 <input checked="" type="checkbox"/> ES58 <input checked="" type="checkbox"/> ES59 <input checked="" type="checkbox"/> ES60 <input checked="" type="checkbox"/> ES61 <input checked="" type="checkbox"/> ES62 <input checked="" type="checkbox"/> ES63 <input checked="" type="checkbox"/> ES64 <input checked="" type="checkbox"/> ES65 <input checked="" type="checkbox"/> ES66 <input checked="" type="checkbox"/> ES67 <input checked="" type="checkbox"/> ES68 <input checked="" type="checkbox"/> ES69 <input checked="" type="checkbox"/> ES70 <input checked="" type="checkbox"/> ES71 <input checked="" type="checkbox"/> ES72 <input checked="" type="checkbox"/> ES73 <input checked="" type="checkbox"/> ES74 <input checked="" type="checkbox"/> ES75 <input checked="" type="checkbox"/> ES76 <input checked="" type="checkbox"/> ES77 <input checked="" type="checkbox"/> ES78 <input checked="" type="checkbox"/> ES79 <input checked="" type="checkbox"/> ES80 <input checked="" type="checkbox"/> ES81 <input checked="" type="checkbox"/> ES82 <input checked="" type="checkbox"/> ES83 <input checked="" type="checkbox"/> ES84 <input checked="" type="checkbox"/> ES85 <input checked="" type="checkbox"/> ES86 <input checked="" type="checkbox"/> ES87 <input checked="" type="checkbox"/> ES88 <input checked="" type="checkbox"/> ES89 <input checked="" type="checkbox"/> ES90 <input checked="" type="checkbox"/> ES91 <input checked="" type="checkbox"/> ES92 <input checked="" type="checkbox"/> ES93 <input checked="" type="checkbox"/> ES94 <input checked="" type="checkbox"/> ES95 <input checked="" type="checkbox"/> ES96 <input checked="" type="checkbox"/> ES97 <input checked="" type="checkbox"/> ES98 <input checked="" type="checkbox"/> ES99 <input checked="" type="checkbox"/> ES100	SEE ATTACHED	↑	METALS METALS ANTIMONY ARSENIC BARIUM BISMUTH BORON CADMIUM CHROMIUM LEAD MANGANESE MERCURY MOLYBDENUM NICKEL SILICA SELENIUM ZINC COPPER MANGANESE ALUMINUM SILICA THALLIUM CALCIUM MAGNESIUM SODIUM	8.6 °C	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	On Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> On Cooler: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	Shipped by: AmOps Grad Cooler (Yes):
2			JES 90414 BTS SAMP0203										

Received by (print): **[Signature]** Date/Time: **3/15 1:50**

Received by (print): **[Signature]** Date/Time: **3/15 09:15**

Received by Laboratory: **3/15 09:15** Date/Time: **3/15 09:15**

Signature: **[Signature]**

Signature: **[Signature]**

Signature: **[Signature]**

Lab Disposal: **3/15 09:15**

Return to Client:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly rotated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule forms and links.

MONTANA ENVIRONMENTAL LABORATORY LLC
1170 N. Meridian Rd., P.O. Box 8900, Kalispell, MT 59904
Phone: (406) 755-2131 Fax: (406) 257-5359 www.melab.us

Certified by the state of
Montana Public Health
Laboratory according to Federal
EPA Drinking Water Standards

SAMPLES MUST ARRIVE WITHIN 24 HRS OF COLLECTION
Keep sample COOL, NOT frozen. It is important to sample
correctly. SEE BACK OF FORM FOR SAMPLING PROCEDURES.

PLEASE FILL IN - PRESS FIRMLY

Collector of Sample: Royer Phone#: _____

ADDRESS WHERE SAMPLE WAS COLLECTED:

Montana Artesian Water
(street address, house #, legal description, property name, etc.)

Date Collected: 3/9/15 Time: 10:45

Please mail the test report to the following address:

Name: Applied Water Consulting

Street: _____

City: _____ State: _____ Zip: _____

Extra copies of the report are available for \$1.00 each.
Please Mail Email Fax an extra copy of the report to:

LAB USE ONLY

MO

LAB No.

1958-1

Received: 3/9/15 11:30 AM

Analyzed: 3/9/15 13:55

Reported: 3/10/15 11:10

BACTERIOLOGICAL RESULTS

Total Coliform Absent - Satisfactory at this time.

Total Coliform Present - Unsatisfactory

E. coli Absent E. coli Present

Comments: _____

Analyst: JS

A contaminated water supply should be disinfected and retested before it is used as drinking or household water.

Coliform Bacteria Test - \$25: _____

If using prepaid postage mailers,
add \$4.00 postage per mailer: _____

Additional reports - \$1.00 each: _____

Total Enclosed: _____

PD: INV

CK#: _____

PAYMENT MUST ACCOMPANY SAMPLE

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ADDRESS WHERE SAMPLE WAS COLLECTED:

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(street address, house #, legal description, property name, etc.)

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Please mail the test report to the following address:

Name: Applied Water Consulting

Street: PO Box 7667

City: _____ State: _____ Zip: _____

Extra copies of the report are available for \$1.00 each.
Please Mail Email Fax an extra copy of the report to:

LAB USE ONLY

MO

LAB No.

1958-2

Received: 3/9/15 11:30 AM

Analyzed: 3/9/15 13:55

Reported: 3/10/15 11:10

BACTERIOLOGICAL RESULTS

Total Coliform Absent - Satisfactory at this time.

Total Coliform Present - Unsatisfactory

E. coli Absent E. coli Present

Comments: _____

Analyst: JS

A contaminated water supply should be disinfected and retested before it is used as drinking or household water.

Coliform Bacteria Test - \$25: _____

If using prepaid postage mailers,
add \$4.00 postage per mailer: _____

Additional reports - \$1.00 each: _____

Total Enclosed: _____

PD: INV

CK#: _____

PAYMENT MUST ACCOMPANY SAMPLE