

June 9, 2016

Baseline Water Project #: 10-9000

Lor-Al Springs
Ms. S. Johnson
Box 200
Rimbey, Alberta
T0C 2J0**RE: 2016 Spring Water Source Testing – SW 12-044-02 W5M****INTRODUCTION**

Baseline Water Resource Inc. (Baseline Water) was retained by Lor-Al Springs to conduct annual water sampling at a spring located in SW 12-044-02 W5M on May 12, 2016. The spring is the source of high quality groundwater used in the active bottled water operation.

SAMPLING PROCEDURE

Testing was completed by collecting water samples from the 4 inch polyvinyl chloride (PVC) source discharge pipe at the spring. Water samples were submitted to AGAT Laboratories (AGAT) in Calgary, Alberta for analysis of routine potability, microbiological (*E.coli*, Total Coliform Bacteria, Iron Related Bacteria, Sulphur Reducing Bacteria) and total/dissolved metals analysis.

WATER QUALITY RESULTS

Field parameters including electrical conductivity (EC), pH, temperature and flow rate were measured prior to water sample collection. Field parameter results are listed below.

pH	EC (µS/cm)	Temperature (°C)	Flow (L/min)
7.58	650	5.1	82

Water quality analytical results were compared to the “Guidelines for Canadian Drinking Water Quality” (GCDWQ) (Health Canada, 2014). For comparison, analytical results were also compared to the Canadian Bottled Water Association (CBWA) Model Bottled Water Code (CBWA, 2012). No water quality parameters exceeded the GCDWQ or CBWA guidelines. Complete laboratory results are summarized in Tables 1 – 3. A copy of the 2016 laboratory analytical report is attached.

DISCLAIMER

Baseline Water has used proficient skill and diligence conducting the water testing and preparation of this report. This report is a representation of the conditions and information present and available at the time of the water testing. Information received from all other sources is considered to be accurate, but cannot be guaranteed. Baseline Water Resource Inc. is not responsible for any individual interpretation of this material nor any decisions based upon findings in this report.

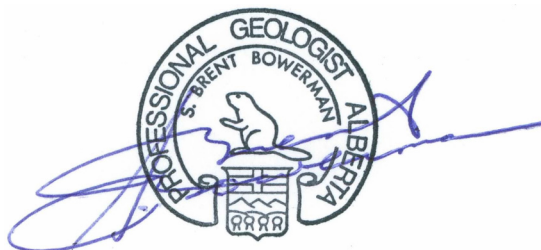
CLOSURE

Baseline Water Resource Inc. is pleased to submit this report as fulfillment of Lor-AI Springs request for spring water source testing.

Respectfully submitted,

Baseline Water Resource Inc.

APEGA Permit to Practice: P09366



S. Brent Bowerman, P.Geol.
President

REFERENCES

Canadian Bottled Water Association. 2012. Model Bottled Water Code. September 2012. Markham, Ontario, Canada.

Health Canada. 2014. Guidelines for Canadian Drinking Water Quality - Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario, Canada.

Table 1. Water Analytical Results: Routine Potability (Lor-AI Springs)

Water Well Name	Sample Date	Laboratory	Chloride (Cl) (mg/L)	Fluoride (F) (mg/L)	Nitrate & Nitrite as Nitrogen (mg/L)	Nitrate-Nitrogen (NO ₃ -N) (mg/L)	Nitrite-Nitrogen (NO ₂ -N) (mg/L)	Sulphate (SO ₄) (mg/L)	pH	Electrical Conductivity (EC) (µS/cm)	Ion Balance	Bicarbonate (HCO ₃) (mg/L)	Carbonate (CO ₃) (mg/L)	Hydroxide (OH) (mg/L)	P-Alkalinity (as CaCO ₃) (mg/L)	T-Alkalinity (as CaCO ₃) (mg/L)
GCDWQ¹ Criteria			250	1.5	10	10	1	500	6.5-8.5	nr²	nr	nr	nr	nr	nr	nr
CBWA SOQ⁵ Criteria			250	1	10	10	1	250	6.5-8.5	nr	nr	nr	nr	nr	nr	nr
Type of Objective (MAC or AO)⁶			AO	MAC	MAC	MAC	MAC	AO	AO	-	-	-	-	-	-	-
Lor-AI Springs	7-Dec-87	AEC ⁷	1.0	0.20	0.020	na	0.005	10.0	9.30	577	1.01	293	32.0	na	na	294
	22-May-91	AEC	2.0	0.08	0.798	na	0.001	7.0	8.16	442	1.00	280	na	na	na	230
	4-Jan-01	U of A ⁸	1.1	0.07	0.660	na	na	8.0	8.32	504	1.10	312	2.0	0	na	259
	9-Jul-04	MAI ⁹	16.6	0.14	0.340	0.340	<0.003	20.2	7.67	656	1.02	390	<0.5	<0.5	<0.5	320
	18-Jul-05	MAI	15.0	<0.10	0.500	0.500	<0.06	18.0	7.90	604	0.98	403	<1.0	<1.0	<1.0	330
	3-Dec-06	MAI	<0.5	0.12	0.225	0.225	<0.003	25.5	8.20	535	0.91	329	<0.5	<0.5	<0.5	270
	27-Jun-07	MAI	20.0	na	1.900	1.900	<0.06	9.0	8.30	543	0.94	304	2.0	<1.0	2.0	253
	6-Dec-07	ALS ¹⁰	9.9	<0.10	0.770	0.770	<0.05	12.4	8.10	538	95.3	339	<5.0	<5.0	na	278
	5-Aug-08	ALS	31.0	0.08	0.400	0.400	<0.05	14.8	8.10	658	98.0	363	<5.0	<5.0	na	297
	11-Feb-09	ALS	10.3	<0.10	0.240	0.240	<0.05	16.0	7.98	613	100	393	<5.0	<5.0	na	322
	18-May-10	ALS	49.5	<0.10	0.453	0.453	<0.050	23.7	8.00	607	95.0	395	<5.0	<5.0	na	324
	13-Aug-10	ALS	22.7	<0.10	1.400	1.400	<0.050	11.4	8.24	534	97.9	327	<5.0	<5.0	na	268
	16-May-11	ALS	30.9	<0.10	1.560	1.560	<0.050	10.6	8.16	595	93.4	317	<5.0	<5.0	na	260
	10-May-12	ALS	21.2	<0.10	0.614	0.614	<0.050	14.8	7.68	535	101.0	365	<5.0	<5.0	na	299
	22-May-13	ALS	18.3	<0.10	0.611	0.611	<0.050	12.5	8.08	587	94.3	337	<5.0	<5.0	na	276
13-May-14	ALS	18.7	<0.10	1.210	1.210	<0.020	9.0	7.99	490	102.0	305	<5.0	<5.0	na	250	
26-May-15	ALS	31.4	0.062	0.545	0.545	<0.010	15.1	8.09	606	93.0	347	<5.0	<5.0	na	285	
12-May-16	AGAT	46	0.070	0.410	0.410	<0.01	19.0	8.27	743	107.0	364	<5.0	<5.0	<5.0	300	

NOTES:

1. Health Canada, 2014. "Guidelines for Canadian Drinking Water Quality Summary Table (Prepared by the Federal-Provincial-Territorial Committee on Drinking Water)
2. 'nr' denotes parameter not directly regulated.
3. Guideline is based on conventional treatment (0.3 mg/L), slow sand or diatomaceous earth filtration (1.0 mg/L), and membrane filtration (0.1 mg/L).
This guideline is intended specifically for water treatment facilities, and is not directly comparable to private water wells or springs.
4. 'na' denotes value not applicable or not available.
5. Canadian Bottled Water Association, 2012, Standard of Quality.
6. MAC denotes "Maximum Acceptable Concentration" and AO denotes "Aesthetic Objective".
7. Alberta Environmental Centre in Vegreville, Alberta conducted the water analysis.
8. University of Alberta (U of A) in Edmonton, Alberta conducted the water analysis.
9. Maxxam Analytics Inc. in Edmonton, Alberta conducted the water analysis.
10. ALS Laboratory Group (ALS) in Calgary, Alberta conducted the water analysis.
11. **BOLD** denotes an exceedance in Health Canada 2014 criteria.

Table 1. Water Analytical Results: Routine Potability (Lor-AI Springs) cont'd

Water Well Name	Sample Date	Laboratory	Calcium (Ca) - Dissolved (mg/L)	Iron (Fe) - Total (mg/L)	Iron (Fe) - Dissolved (mg/L)	Magnesium (Mg) - Dissolved (mg/L)	Manganese (Mn) - Total (mg/L)	Manganese (Mn) - Dissolved (mg/L)	Potassium (K) - Dissolved (NTU)	Sodium (Na) - Dissolved (mg/L)	Total Dissolved Solids (TDS) (mg/L)	Hardness (as CaCO ₃) (mg/L)	Turbidity (NTU)	Colour (CU)	Flow Rate (L/min)
GCDWQ¹ Criteria			nr ²	0.3	0.3	nr	0.05	0.05	nr	200	500	nr	0.1 ³	15	na ⁴
CBWA SOQ⁵ Criteria			nr	0.3	0.3	nr	0.05	0.05	nr	nr	500	nr	0.5	5	na
Type of Objective (MAC or AO)⁶			-	AO	AO	-	AO	AO	-	AO	AO	-	MAC	AO	-
Lor-AI Springs	7-Dec-87	AEC ⁷	1.0	na	0.020	1.0	na	na	0.30	139.0	328	5	na	na	na
	22-May-91	AEC	54.0	na	<0.010	22.0	na	na	1.50	8.0	236	225	na	na	na
	4-Jan-01	U of A ⁸	60.0	na	<0.020	28.0	na	na	2.00	15.0	272	263	na	na	na
	9-Jul-04	MAI ⁹	73.1	na	0.050	33.2	na	<0.0040	2.10	23.3	362	320	0.30	na	71
	18-Jul-05	MAI	70.5	na	0.033	33.8	na	<0.0010	2.00	20.8	372	320	0.20	na	na
	3-Dec-06	MAI	32.3	na	<0.060	16.0	na	<0.0040	1.70	56.0	295	150	0.20	na	na
	27-Jun-07	MAI	58.9	na	<0.060	24.2	na	<0.0040	1.70	14.2	289	250	na	na	na
	6-Dec-07	ALS ¹⁰	59.5	0.061	<0.030	26.4	<0.0050	<0.0050	1.70	15.5	296	257	na	na	164
	5-Aug-08	ALS	69.8	<0.050	<0.050	29.8	<0.010	<0.0100	1.60	24.0	351	297	na	na	na
	11-Feb-09	ALS	67.1	<0.030	<0.030	31.5	<0.0050	<0.0005	2.22	25.4	347	297	0.35	<5.0	na
	18-May-10	ALS	73.4	<0.030	<0.030	34.2	<0.0050	<0.0050	2.22	33.2	413	324	<0.20	na	na
	13-Aug-10	ALS	61.7	<0.030	<0.030	26.2	<0.0050	<0.0050	1.93	21.1	312	262	<0.20	na	144
	16-May-11	ALS	58.9	<0.030	<0.030	25.3	<0.0050	<0.0050	1.84	20.9	311	251	<0.20	<5.0	192
	10-May-12	ALS	67.7	<0.030	<0.030	30.1	<0.0050	<0.0050	2.08	24.5	342	293	0.20	<5.0	132
	22-May-13	ALS	60.1	<0.030	<0.030	23.9	<0.0050	<0.0050	1.82	22.3	307	248	0.12	<5.0	227
13-May-14	ALS	60.4	<0.030	<0.030	23.6	<0.0050	<0.0050	1.91	20.3	289	248	0.16	na	176	
26-May-15	ALS	62.3	<0.030	<0.030	25.0	<0.0050	<0.0050	1.82	27.1	337	261	0.12	<5.0	97	
12-May-16	AGAT	72.3	<0.100	<0.100	32.8	<0.0050	<0.0050	2.00	43.7	440	316	<0.2	na	82	

NOTES:

1. Health Canada, 2014. "Guidelines for Canadian Drinking Water Quality Summary Table (Prepared by the Federal-Provincial-Territorial Committee on Drinking Water)
2. 'nr' denotes parameter not directly regulated.
3. Guideline is based on conventional treatment (0.3 mg/L), slow sand or diatomaceous earth filtration (1.0 mg/L), and membrane filtration (0.1 mg/L). This guideline is intended specifically for water treatment facilities, and is not directly comparable to private water wells or springs.
4. 'na' denotes value not applicable or not available.
5. Canadian Bottled Water Association, 2012, Standard of Quality.
6. MAC denotes "Maximum Acceptable Concentration" and AO denotes "Aesthetic Objective".
7. Alberta Environmental Centre in Vegreville, Alberta conducted the water analysis.
8. University of Alberta (U of A) in Edmonton, Alberta conducted the water analysis.
9. Maxxam Analytics Inc. in Edmonton, Alberta conducted the water analysis.
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11. **BOLD** denotes an exceedance in Health Canada 2014 criteria.

Table 2. Water Analytical Results: Bacteriological Parameters (Lor-AI Springs)

Water Well Name	Sample Date	Laboratory	Total Coliform Bacteria (MPN/100mL)	Fecal Coliform Bacteria (MPN/100mL)	Escherichia coli Bacteria (MPN/100mL)	Iron Related Bacteria (CFU/mL)	Sulfur-Reducing Bacteria (CFU/mL)
GCDWQ¹ Criteria (MAC)⁶			0	0	0	nr²	nr
CBWA SOQ⁵ Criteria			<1	<1	<1	nr	nr
Type of Objective (MAC or AO)⁶			MAC	MAC	MAC	-	-
Lor-AI Springs	7-Dec-87	AEC ⁷	na ⁴	na	na	na	na
	22-May-91	AEC	na	na	na	na	na
	4-Jan-01	U of A ⁸	na	na	na	na	na
	9-Jul-04	MAI ⁹	na	na	na	520	<1
	18-Jul-05	MAI	na	na	na	na	<1
	3-Dec-06	MAI	<1	na	<1	9000	<200
	27-Jun-07	MAI	na	na	na	<30	<200
	19-Dec-07	ALS ¹⁰	<1	<1	na	9000	<200
	5-Aug-08	ALS	<1	<1	na	9000	<200
	11-Feb-09	ALS	<1	na	<1	500	<200
	18-May-09	ALS	<1	na	<1	2300	<200
	16-May-11	ALS	<1	na	<1	9000	<200
	10-May-12	ALS	<1	na	<1	9000	<200
	22-May-13	ALS	<1	na	<1	9000	<200
	13-May-14	ALS	<1	na	<1	9000	<200
26-May-15	ALS	<1	na	<1	9000	<200	
12-May-16	AGAT	<1	<1	<1	8	<1	

NOTES:

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Table 3. Water Analytical Results: Dissolved Metals (Lor-AI Springs)

Water Well Name	Sample Date	Laboratory	Aluminum (Al) (mg/L)	Antimony (Sb) (mg/L)	Arsenic (As) (mg/L)	Barium (Ba) (mg/L)	Beryllium (Be) (mg/L)	Bismuth (Bi) (mg/L)	Boron (B) (mg/L)	Bromate (mg/L)	Bromide (mg/L)	Cadmium (Cd) (mg/L)	Chromium (Cr) (mg/L)	Cobalt (Co) (mg/L)	Copper (Cu) (mg/L)	Iron (Fe) (mg/L)	Lead (Pb) (mg/L)
GCDWQ¹ Criteria			0.1	0.006	0.01	1.0	nr	nr	5	0.01	nr	0.005	0.05	nr	1.0	0.3	0.01
CBWA SOQ⁵ Criteria			0.2	0.006	0.01	1.0	0.004	nr	nr	0.01	nr	0.005	0.05	nr	1.0	0.3	0.005
Type of Objective (MAC or AO)⁶			AO	MAC	MAC	MAC	-	-	MAC	MAC	-	MAC	MAC	-	AO	AO	MAC
Lor-AI Springs	7-Dec-87	AEC ⁷	na ⁴	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	22-May-91	AEC	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	4-Jan-01	U of A ⁸	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	9-Jul-04	MAI ⁹	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	18-Jul-05	MAI	<0.04	<0.02	<0.02	0.128	<0.001	<0.2	<0.05	na	na	<0.002	<0.007	<0.005	<0.009	0.033	<0.1
	3-Dec-06	MAI	<0.04	<0.0002	<0.001	0.08	<0.001	na	0.06	na	na	<0.0002	<0.01	<0.0003	0.0017	<0.06	<0.0002
	27-Jun-07	MAI	<0.04	na	na	0.10	na	na	<0.02	na	na	na	<0.01	na	na	<0.06	na
	5-Aug-08	ALS ¹⁰	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.05	na
	11-Feb-09	ALS	0.027	<0.00050	<0.00050	0.115	<0.0025	<0.0025	<0.050	<0.01	na	<0.00025	<0.0025	<0.00050	0.00089	na	0.00062
	18-May-10	ALS	<0.025	<0.00050	<0.00050	0.147	<0.0025	<0.0025	<0.050	na	<0.10	<0.00025	<0.0025	<0.00050	<0.00050	na	<0.00050
	16-May-11	ALS	<0.0050	<0.00010	0.00011	0.107	<0.00050	<0.00050	0.016	na	<0.10	<0.000050	<0.00050	<0.00010	0.00048	na	<0.00010
	10-May-12	ALS	<0.010	<0.00020	<0.00020	0.125	<0.0010	<0.0010	<0.020	na	<0.10	<0.00010	<0.0010	<0.00020	0.00045	na	<0.00020
	22-May-13	ALS	<0.0050	<0.00010	<0.00010	0.128	<0.00050	na	0.019	na	na	<0.000050	<0.00050	<0.00010	0.00034	<0.030	<0.00010
	13-May-14	ALS	<0.0010	<0.00010	<0.00010	0.115	<0.00050	na	0.013	na	na	<0.000010	0.00023	<0.00010	0.00020	<0.030	<0.000050
26-May-15	ALS	0.0043	<0.00010	<0.00010	0.132	<0.00010	na	0.023	na	<0.10	0.0000116	0.00022	<0.00010	0.00036	<0.030	<0.000050	
12-May-16	AGAT	<0.0040	<0.0010	<0.0010	0.140	<0.0010	na	0.030	na	<0.10	<0.000016	<0.0010	na	<0.00080	<0.1	<0.00050	

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10. ALS Laboratory Group (ALS) in Calgary, Alberta conducted the water analysis.
11. **BOLD** denotes an exceedance in Health Canada 2014 criteria.

Table 3. Water Analytical Results: Dissolved Metals (Lor-AI Springs) cont'd

Water Well Name	Sample Date	Laboratory	Lithium (Li) (mg/L)	Magnesium (Mg) (mg/L)	Manganese (Mn) (mg/L)	Mercury (Hg) (mg/L)	Molybdenum (Mo) (mg/L)	Nickel (Ni) (mg/L)	Selenium (Se) (mg/L)	Silver (Ag) (mg/L)	Strontium (Sr) (mg/L)	Thallium (Tl) (mg/L)	Tin (Sn) (mg/L)	Titanium (Ti) (mg/L)	Uranium (U) (mg/L)	Vanadium (V) (mg/L)	Zinc (Zn) (mg/L)
GCDWQ ¹ Criteria			nr ²	nr	0.05	0.001	nr	nr	0.05	nr	nr	nr	nr	nr	0.02	nr	5.0
CBWA SOQ ⁵ Criteria			nr	nr	0.05	0.001	nr	0.1	0.01	0.025	nr	0.002	nr	nr	nr	nr	5.0
Type of Objective (MAC or AO) ⁶			-	-	AO	MAC	-	-	MAC	-	-	-	-	-	MAC	-	AO
Lor-AI Springs	7-Dec-87	AEC ⁷	na ⁴	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	22-May-91	AEC	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	4-Jan-01	U of A ⁸	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	9-Jul-04	MAI ⁹	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	18-Jul-05	MAI	0.03	34.1	0.0010	na	<0.00600	<0.0080	<0.03	<0.01	0.720	<0.050	<0.040	<0.006	<1.00	<0.050	<0.005
	3-Dec-06	MAI	0.03	16.0	<0.0040	na	0.00500	0.0014	<0.001	<0.0001	0.380	<0.0002	<0.001	0.002	0.0033	<0.001	0.035
	27-Jul-07	MAI	<0.02	24.2	<0.0040	na	na	na	na	na	0.560	na	na	na	na	na	na
	5-Aug-08	ALS ¹⁰	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11-Feb-09	ALS	<0.025	na	na	<0.000050	0.00333	<0.0025	<0.0050	<0.000050	0.613	<0.00050	<0.00050	<0.0050	0.00494	<0.0050	<0.025
	18-May-10	ALS	<0.025	na	na	<0.000050	0.00327	<0.0025	<0.0050	<0.000050	0.704	<0.00050	<0.00050	<0.0050	0.00489	<0.0050	<0.025
	16-May-11	ALS	0.0176	na	na	<0.000050	0.00276	<0.0005	<0.0010	<0.000010	0.518	<0.00010	<0.00010	<0.0010	0.00337	<0.0010	<0.0050
	10-May-12	ALS	0.0200	na	na	<0.000050	0.00302	<0.0010	<0.0020	<0.000020	0.583	<0.00020	0.00025	<0.0020	0.00423	<0.0020	<0.010
	22-May-13	ALS	0.0205	23.9	<0.0050	<0.00010	0.00309	<0.00050	<0.0010	<0.000010	na	<0.00010	<0.00010	<0.0010	0.00423	<0.0010	<0.0050
	13-May-14	ALS	0.0159	23.6	<0.0050	<0.000050	0.00267	0.00021	0.00043	<0.000010	na	<0.000050	<0.00010	<0.00030	0.00319	0.00036	<0.0050
26-May-15	ALS	0.0221	25.6	<0.0050	<0.0000050	0.00320	<0.00050	0.000687	<0.000010	na	<0.000010	<0.00010	<0.00030	0.00463	<0.00050	0.0025	
12-May-16	AGAT	na	32.8	<0.0050	<0.0000250	0.00300	<0.0030	0.000700	<0.000050	na	<0.00050	na	<0.001	0.00500	na	<0.01	

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1. Health Canada, 2014. "Guidelines for Canadian Drinking Water Quality Summary Table (Prepared by the Federal-Provincial-Territorial Committee on Drinking Water)
2. 'nr' denotes parameter not directly regulated.
3. Guideline is based on conventional treatment (0.3 mg/L), slow sand or diatomaceous earth filtration (1.0 mg/L), and membrane filtration (0.1 mg/L). This guideline is intended specifically for water treatment facilities, and is not directly comparable to private water wells.
4. 'na' denotes value not applicable or not available.
5. Canadian Bottled Water Association, 2012, Standard of Quality.
6. MAC denotes "Maximum Acceptable Concentration" and AO denotes "Aesthetic Objective".
7. Alberta Environmental Centre in Vegreville, Alberta conducted the water analysis.
8. University of Alberta (U of A) in Edmonton, Alberta conducted the water analysis.
9. Maxxam Analytics Inc. in Edmonton, Alberta conducted the water analysis.
10. ALS Laboratory Group (ALS) in Calgary, Alberta conducted the water analysis.
11. **BOLD** denotes an exceedance in Health Canada 2014 criteria.