



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1<sup>st</sup> to December 31<sup>st</sup>, (year)

Water System

Water System Owner

Primary Contact Name (Operator or Manager)

Phone Number (Operator or Manager)

E-mail (Operator or Manager)

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

Deep Well  Shallow Well  Surface Water  Other

If other, specify details:

Does the Drinking Water System have Primary Disinfection?

Yes  No

Chlorination  Ultraviolet Light  Ozone  Other

If other, specify details:

Does the Drinking Water System have Secondary Disinfection?

Yes  No

Chlorination  Other

If other, specify details:

Does the Drinking Water System have Filtration?

Yes  No

Check all boxes that apply

Cartridge Filter(s)  Carbon Filter  Sand Filtration  Reverse Osmosis  Other

If other, specify details:

PUBLIC REPORTING

Emergency Response & Contingency Plan (ERCP)

Is your ERCP up to Date?  Yes  No

How do you Inform the System Users of the ERCP?

Hand Delivered  Bulletin Board  Newspaper  Utility Bill Insert  Website

Other (specify details)

Drinking Water System Annual Report

How do you Inform the System Users of the Annual Report?

Hand Delivered  Bulletin Board  Newspaper  Utility Bill Insert  Website

Other (specify details)

**COMPLIANCE WITH OPERATING PERMIT**

*List the conditions of your Operating Permit (Contact the DWO for a copy if needed):*

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**Are you in compliance with your Operating Permit?**  Yes  No

**BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS**

**How many bacteriological samples were collected during this reporting period?** \_\_\_\_\_

**What is the minimum required sampling frequency for this system? (#samples/month)** \_\_\_\_\_

Additional sampling details:

**Was the minimum required sampling frequency achieved?**  Yes  No

Comments:

**Bacteriological summary attached to this report?**  Yes  No

**If no, how do the users of the system view the results?**

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**WATER QUALITY STANDARDS FOR POTABLE WATER**

<b>Parameter:</b>	<b>Standard:</b>	<b>Did this system meet standard?</b>	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, <b>and</b> No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

**If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.**

<b>Date</b>	<b>TC/100ml</b>	<b>E.coli/100ml</b>	<b>Reason</b>	<b>Corrective Action</b>

**CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD**

**Was any chemical sampling conducted during reporting period?**  Yes  No

**If no, when were the last chemical samples conducted for this system? (date)**  Don't know

**If yes, attach a list of the chemical results**

**If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.**

**Next scheduled full chemical test (date)**

Parameter	Result	Corrective Action / Treatment / Comments

**ADDITIONAL TESTING**

**Does the system have analyzers for continuous monitoring?**  Yes  No

**If yes, check all boxes that apply:**

Chlorine  Turbidity  Other (details)

**Are the results available on request?**

**If any additional testing or sampling was conducted, record results in the table below; attach additional sheets if necessary.**

Additional Testing & Reason for Sampling	Corrective Action Taken

**WATER QUALITY COMPLAINTS**

**Were there any water quality complaints in this reporting period? (e.g. taste, odour, colour etc.)**  Yes  No

**If yes, complete the table below; attach additional sheets if necessary.**

Date	Water Quality Complaint	Corrective Action / Treatment

**OPERATIONAL PROBLEMS**

*Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity etc.).*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Incident Date	Type of Operational Problem	Corrective Action Taken

**MAJOR UPGRADES/REPAIRS & EXPENSES**

*Were there any major upgrades/repairs or any major costs incurred during this reporting period?*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

**FUTURE IMPROVEMENTS**

*Are there any plans for future improvements?*  Yes  No

*If yes, complete the table below; attach additional sheets if necessary.*

Future Upgrades or Improvements	Estimated Date of Completion

<p><b>Click here to enter a date.</b> DATE COMPLETED:</p>	<p>COMPLETED BY:</p>
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Site Location: SPECT CT  
Your C.O.C. #: 568449-03-01

**Attention: Fred King**

K2 Parks Services Ltd  
S3, C9  
Galiano Island, BC  
Canada V0N1P0

**Report Date: 2018/11/06**

Report #: R2646764

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B894775**

**Received: 2018/10/29, 12:50**

Sample Matrix: Water  
# Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	1	N/A	2018/10/31	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	1	N/A	2018/11/01	BBY6SOP-00011	SM 22 4500-Cl- E m
True Colour (Single Wavelength) (1)	1	N/A	2018/11/01	VIC SOP-00010	SM23 2120 C m
Conductance - water	1	N/A	2018/10/31	BBY6SOP-00026	SM 22 2510 B m
Fluoride	1	N/A	2018/11/03	BBY6SOP-00048	SM 22 4500-F C m
Iron Bacteria (1)	1	N/A	2018/10/29	VIC SOP-00114	SM23 9240B m
Sulphide (as H <sub>2</sub> S) Calculation - total	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO <sub>3</sub> ) (2)	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Mercury (Total) by CVAF	1	2018/11/01	2018/11/01	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Heterotrophic Plate Count Water Mem. Filt (1)	1	N/A	2018/10/29	BBY4 SOP-00003	SM23 9215 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total)	1	N/A	2018/11/01	BBY7SOP-00003,	EPA 6020b R2 m
Nitrogen (Total)	1	N/A	2018/11/01	BBY6SOP-00016	SM 22 4500-N C m
Ammonia-N (Preserved)	1	N/A	2018/10/31	BBY6SOP-00009	EPA 350.1 m
Nitrate + Nitrite (N)	1	N/A	2018/11/01	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	1	N/A	2018/11/01	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Nitrogen (Tot. Organic) Calculation	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
pH Water (3)	1	N/A	2018/10/31	BBY6SOP-00026	SM 22 4500-H+ B m
Sat. pH and Langelier Index (@ 4.4C)	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Sat. pH and Langelier Index (@ 60C)	1	N/A	2018/11/02	BBY WI-00033	Auto Calc
Sulphate by Automated Colourimetry	1	N/A	2018/10/31	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate Reducing Bacteria (1)	1	N/A	2018/10/29	VIC SOP-00114	SM23 9240C m
Sulphide - total	1	N/A	2018/11/01	BBY6SOP-00006	SM 23 4500-S2- D m
Total Dissolved Solids (Filt. Residue) (1)	1	N/A	2018/10/31	VIC SOP-00008	SM23 2540C m
Total Coliform & E.Coli by MF-Chromocult (1)	1	N/A	2018/10/30	VIC SOP 00112	SM23 9222J
Carbon (Total Organic) (4)	1	N/A	2018/10/31	BBY6SOP-00003	SM 22 5310 C m
Turbidity	1	N/A	2018/10/30	BBY6SOP-00027	SM 22 2130 B m
UV absorbance @254nm-Unfiltered	1	N/A	2018/10/31	BBY6SOP-00055	SM 22 5910 B
UV transmittance @254nm-Unfiltered	1	N/A	2018/11/01	BBY WI-00033	Auto Calc

Site Location: SPECT CT  
Your C.O.C. #: 568449-03-01

**Attention: Fred King**

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S3, C9  
Galiano Island, BC  
Canada VON1P0

**Report Date: 2018/11/06**

Report #: R2646764

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B894775**

**Received: 2018/10/29, 12:50**

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing. Maxxam is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Victoria
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

BC Env Customer Service, BC Environmental Customer Service

Email: Enviro.CS.BC@maxxam.ca

Phone# (604) 734 7276

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**RESULTS OF CHEMICAL ANALYSES OF WATER**

<b>Maxxam ID</b>					UQ8300		
<b>Sampling Date</b>					2018/10/29 10:06		
<b>COC Number</b>					568449-03-01		
	<b>UNITS</b>	<b>MAC</b>	<b>AO</b>	<b>OG</b>	<b>COWICHAN RIVER PRO. PARK STOLTZ POOL GROUP SITE</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Physical Properties</b>							
Turbidity	NTU	see remark	see remark	see remark	8.37	0.10	9207848
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**VIHA PKG, WELLS/SPRINGS - VICTORIA (WATER)**

Maxxam ID					UQ8300		
Sampling Date					2018/10/29 10:06		
COC Number					568449-03-01		
	UNITS	MAC	AO	OG	COWICHAN RIVER PRO. PARK STOLTZ POOL GROUP SITE	RDL	QC Batch
<b>Misc. Inorganics</b>							
UV absorbance (254nm)	AU/cm	-	-	-	0.024	0.010	9208674
<b>ANIONS</b>							
Nitrite (N)	mg/L	1	-	-	< 0.0050	0.0050	9211409
<b>Calculated Parameters</b>							
Hardness (CaCO3)	mg/L	-	-	-	104	0.50	9204970
Nitrate (N)	mg/L	10	-	-	< 0.020	0.020	9205565
Organic Nitrogen (N)	mg/L	-	-	-	0.043	0.020	9205567
Transmittance at 254nm	%T/cm	-	-	-	94.7	N/A	9205241
<b>Misc. Inorganics</b>							
Fluoride (F)	mg/L	1.5	-	-	0.100	0.020	9214163
Alkalinity (Total as CaCO3)	mg/L	-	-	-	105	1.0	9209818
Organic Carbon (C)	mg/L	-	-	-	< 0.50	0.50	9208687
Alkalinity (PP as CaCO3)	mg/L	-	-	-	< 1.0	1.0	9209818
Bicarbonate (HCO3)	mg/L	-	-	-	128	1.0	9209818
Carbonate (CO3)	mg/L	-	-	-	< 1.0	1.0	9209818
Hydroxide (OH)	mg/L	-	-	-	< 1.0	1.0	9209818
<b>Anions</b>							
Sulphate (SO4)	mg/L	-	500	-	21.2	1.0	9210872
Chloride (Cl)	mg/L	-	250	-	4.5	1.0	9212595
<b>MISCELLANEOUS</b>							
Colour	Col. Unit	-	15	-	< 5	5	9211388
<b>Nutrients</b>							
Ammonia (N)	mg/L	-	-	-	0.16	0.020	9209803
Nitrate plus Nitrite (N)	mg/L	-	-	-	< 0.020	0.020	9211407
Nitrogen (N)	mg/L	-	-	-	0.199	0.020	9210005
<b>Physical Properties</b>							
Conductivity	uS/cm	-	-	-	259	2.0	9209816
pH	pH	-	-	7.0:10.5	8.12	N/A	9209815
<b>Physical Properties</b>							
Total Dissolved Solids	mg/L	-	500	-	151	10	9207696
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
N/A = Not Applicable							



Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**VIHA PKG, WELLS/SPRINGS - VICTORIA (WATER)**

Maxxam ID					UQ8300		
Sampling Date					2018/10/29 10:06		
COC Number					568449-03-01		
	UNITS	MAC	AO	OG	COWICHAN RIVER PRO. PARK STOLTZ POOL GROUP SITE	RDL	QC Batch
<b>Elements</b>							
Mercury (Hg)	ug/L	1	-	-	0.0037	0.0020	9210268
<b>Total Metals by ICPMS</b>							
Aluminum (Al)	ug/L	-	-	100	< 3.0	3.0	9208679
Antimony (Sb)	ug/L	6	-	-	< 0.50	0.50	9208679
Arsenic (As)	ug/L	10	-	-	0.15	0.10	9208679
Barium (Ba)	ug/L	1000	-	-	2.4	1.0	9208679
Beryllium (Be)	ug/L	-	-	-	< 0.10	0.10	9208679
Bismuth (Bi)	ug/L	-	-	-	< 1.0	1.0	9208679
Boron (B)	ug/L	5000	-	-	52	50	9208679
Cadmium (Cd)	ug/L	5	-	-	< 0.010	0.010	9208679
Chromium (Cr)	ug/L	50	-	-	< 1.0	1.0	9208679
Cobalt (Co)	ug/L	-	-	-	< 0.20	0.20	9208679
Copper (Cu)	ug/L	-	1000	-	63.8	0.20	9208679
Iron (Fe)	ug/L	-	300	-	<b>1,830</b>	5.0	9208679
Lead (Pb)	ug/L	10	-	-	0.42	0.20	9208679
Manganese (Mn)	ug/L	-	50	-	<b>110</b>	1.0	9208679
Molybdenum (Mo)	ug/L	-	-	-	2.6	1.0	9208679
Nickel (Ni)	ug/L	-	-	-	< 1.0	1.0	9208679
Selenium (Se)	ug/L	50	-	-	< 0.10	0.10	9208679
Silicon (Si)	ug/L	-	-	-	3,290	100	9208679
Silver (Ag)	ug/L	-	-	-	< 0.020	0.020	9208679
Strontium (Sr)	ug/L	-	-	-	126	1.0	9208679
Thallium (Tl)	ug/L	-	-	-	< 0.010	0.010	9208679
Tin (Sn)	ug/L	-	-	-	< 5.0	5.0	9208679
Titanium (Ti)	ug/L	-	-	-	< 5.0	5.0	9208679
Uranium (U)	ug/L	20	-	-	< 0.10	0.10	9208679
Vanadium (V)	ug/L	-	-	-	< 5.0	5.0	9208679
Zinc (Zn)	ug/L	-	5000	-	61.0	5.0	9208679
Zirconium (Zr)	ug/L	-	-	-	< 0.10	0.10	9208679
Calcium (Ca)	mg/L	-	-	-	31.4	0.050	9205563
Magnesium (Mg)	mg/L	-	-	-	6.22	0.050	9205563
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**VIHA PKG, WELLS/SPRINGS - VICTORIA (WATER)**

Maxxam ID					UQ8300		
Sampling Date					2018/10/29 10:06		
COC Number					568449-03-01		
	UNITS	MAC	AO	OG	COWICHAN RIVER PRO. PARK STOLTZ POOL GROUP SITE	RDL	QC Batch
Potassium (K)	mg/L	-	-	-	0.800	0.050	9205563
Sodium (Na)	mg/L	-	200	-	12.6	0.050	9205563
Sulphur (S)	mg/L	-	-	-	8.1	3.0	9205563
<b>Microbiological Param.</b>							
Heterotrophic Plate Count	CFU/mL	-	-	-	1	1	9212790
Iron Bacteria	CFU/mL	-	-	-	150	25	9215129
Sulphate reducing bacteria	CFU/mL	-	-	-	< 75	75	9215133
Total Coliforms	CFU/100mL	0	-	-	0	N/A	9209762
E. coli	CFU/100mL	0	-	-	0	N/A	9209762
<b>Calculated Parameters</b>							
Langelier Index (@ 4.4C)	N/A	-	-	-	-0.280	N/A	9205570
Langelier Index (@ 60C)	N/A	-	-	-	0.761	N/A	9205572
Saturation pH (@ 4.4C)	N/A	-	-	-	8.40	N/A	9205570
Saturation pH (@ 60C)	N/A	-	-	-	7.36	N/A	9205572
Sulphide (as H <sub>2</sub> S)	mg/L	-	0.05	-	0.019	0.0050	9204969
<b>MISCELLANEOUS</b>							
Sulphide	mg/L	-	0.05	-	0.0174	0.0050	9209213
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
N/A = Not Applicable							

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

### GENERAL COMMENTS

MAC,AO,OG: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)  
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

**Turbidity Guidelines:**

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.
4. To ensure effectiveness of disinfection and for good operation of the distribution system, it is recommended that water entering the distribution system have turbidity levels of 1.0 NTU or less.

Measurement of Uncertainty has not been accounted for when stating conformity to the selected criteria, where applicable.

**Results relate only to the items tested.**

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**QUALITY ASSURANCE REPORT**

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9207696	OMA	Spiked Blank	Total Dissolved Solids	2018/10/31		98	%	80 - 120
9207696	OMA	Method Blank	Total Dissolved Solids	2018/10/31	<10		mg/L	
9207848	EL7	Spiked Blank	Turbidity	2018/10/30		98	%	80 - 120
9207848	EL7	Method Blank	Turbidity	2018/10/30	<0.10		NTU	
9207848	EL7	RPD	Turbidity	2018/10/30	NC		%	20
9208674	MCU	Method Blank	UV absorbance (254nm)	2018/10/31	<0.010		AU/cm	
9208674	MCU	RPD	UV absorbance (254nm)	2018/10/31	3.3		%	20
9208679	JC8	Matrix Spike	Aluminum (Al)	2018/11/01		96	%	80 - 120
			Antimony (Sb)	2018/11/01		97	%	80 - 120
			Arsenic (As)	2018/11/01		97	%	80 - 120
			Barium (Ba)	2018/11/01		94	%	80 - 120
			Beryllium (Be)	2018/11/01		98	%	80 - 120
			Bismuth (Bi)	2018/11/01		96	%	80 - 120
			Boron (B)	2018/11/01		94	%	80 - 120
			Cadmium (Cd)	2018/11/01		96	%	80 - 120
			Chromium (Cr)	2018/11/01		97	%	80 - 120
			Cobalt (Co)	2018/11/01		96	%	80 - 120
			Copper (Cu)	2018/11/01		NC	%	80 - 120
			Iron (Fe)	2018/11/01		98	%	80 - 120
			Lead (Pb)	2018/11/01		NC	%	80 - 120
			Manganese (Mn)	2018/11/01		95	%	80 - 120
			Molybdenum (Mo)	2018/11/01		100	%	80 - 120
			Nickel (Ni)	2018/11/01		91	%	80 - 120
			Selenium (Se)	2018/11/01		100	%	80 - 120
			Silicon (Si)	2018/11/01		94	%	80 - 120
			Silver (Ag)	2018/11/01		96	%	80 - 120
			Strontium (Sr)	2018/11/01		96	%	80 - 120
			Thallium (Tl)	2018/11/01		96	%	80 - 120
			Tin (Sn)	2018/11/01		96	%	80 - 120
			Titanium (Ti)	2018/11/01		94	%	80 - 120
			Uranium (U)	2018/11/01		98	%	80 - 120
			Vanadium (V)	2018/11/01		97	%	80 - 120
			Zinc (Zn)	2018/11/01		NC	%	80 - 120
			Zirconium (Zr)	2018/11/01		99	%	80 - 120
9208679	JC8	Spiked Blank	Aluminum (Al)	2018/11/01		97	%	80 - 120
			Antimony (Sb)	2018/11/01		97	%	80 - 120
			Arsenic (As)	2018/11/01		96	%	80 - 120
			Barium (Ba)	2018/11/01		94	%	80 - 120
			Beryllium (Be)	2018/11/01		98	%	80 - 120
			Bismuth (Bi)	2018/11/01		96	%	80 - 120
			Boron (B)	2018/11/01		95	%	80 - 120
			Cadmium (Cd)	2018/11/01		96	%	80 - 120
			Chromium (Cr)	2018/11/01		96	%	80 - 120
			Cobalt (Co)	2018/11/01		96	%	80 - 120
			Copper (Cu)	2018/11/01		96	%	80 - 120
			Iron (Fe)	2018/11/01		98	%	80 - 120
			Lead (Pb)	2018/11/01		96	%	80 - 120
			Manganese (Mn)	2018/11/01		96	%	80 - 120
			Molybdenum (Mo)	2018/11/01		98	%	80 - 120
			Nickel (Ni)	2018/11/01		96	%	80 - 120
			Selenium (Se)	2018/11/01		99	%	80 - 120
			Silicon (Si)	2018/11/01		101	%	80 - 120
			Silver (Ag)	2018/11/01		95	%	80 - 120
			Strontium (Sr)	2018/11/01		97	%	80 - 120

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**QUALITY ASSURANCE REPORT(CONT'D)**

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Thallium (Tl)	2018/11/01		97	%	80 - 120
			Tin (Sn)	2018/11/01		96	%	80 - 120
			Titanium (Ti)	2018/11/01		92	%	80 - 120
			Uranium (U)	2018/11/01		98	%	80 - 120
			Vanadium (V)	2018/11/01		95	%	80 - 120
			Zinc (Zn)	2018/11/01		100	%	80 - 120
			Zirconium (Zr)	2018/11/01		99	%	80 - 120
9208679	JC8	Method Blank	Aluminum (Al)	2018/11/01	<3.0		ug/L	
			Antimony (Sb)	2018/11/01	<0.50		ug/L	
			Arsenic (As)	2018/11/01	<0.10		ug/L	
			Barium (Ba)	2018/11/01	<1.0		ug/L	
			Beryllium (Be)	2018/11/01	<0.10		ug/L	
			Bismuth (Bi)	2018/11/01	<1.0		ug/L	
			Boron (B)	2018/11/01	<50		ug/L	
			Cadmium (Cd)	2018/11/01	<0.010		ug/L	
			Chromium (Cr)	2018/11/01	<1.0		ug/L	
			Cobalt (Co)	2018/11/01	<0.20		ug/L	
			Copper (Cu)	2018/11/01	<0.20		ug/L	
			Iron (Fe)	2018/11/01	<5.0		ug/L	
			Lead (Pb)	2018/11/01	<0.20		ug/L	
			Manganese (Mn)	2018/11/01	<1.0		ug/L	
			Molybdenum (Mo)	2018/11/01	<1.0		ug/L	
			Nickel (Ni)	2018/11/01	<1.0		ug/L	
			Selenium (Se)	2018/11/01	<0.10		ug/L	
			Silicon (Si)	2018/11/01	<100		ug/L	
			Silver (Ag)	2018/11/01	<0.020		ug/L	
			Strontium (Sr)	2018/11/01	<1.0		ug/L	
			Thallium (Tl)	2018/11/01	<0.010		ug/L	
			Tin (Sn)	2018/11/01	<5.0		ug/L	
			Titanium (Ti)	2018/11/01	<5.0		ug/L	
			Uranium (U)	2018/11/01	<0.10		ug/L	
			Vanadium (V)	2018/11/01	<5.0		ug/L	
			Zinc (Zn)	2018/11/01	<5.0		ug/L	
			Zirconium (Zr)	2018/11/01	<0.10		ug/L	
9208679	JC8	RPD	Lead (Pb)	2018/11/01	1.3		%	20
9208687	IC4	Matrix Spike	Organic Carbon (C)	2018/10/31		98	%	80 - 120
9208687	IC4	Spiked Blank	Organic Carbon (C)	2018/10/31		100	%	80 - 120
9208687	IC4	Method Blank	Organic Carbon (C)	2018/10/31	<0.50		mg/L	
9208687	IC4	RPD	Organic Carbon (C)	2018/10/31	NC		%	20
9209213	MCU	Matrix Spike [UQ8300-06]	Sulphide	2018/11/01		94	%	80 - 120
9209213	MCU	Spiked Blank	Sulphide	2018/11/01		99	%	80 - 120
9209213	MCU	Method Blank	Sulphide	2018/11/01	<0.0050		mg/L	
9209213	MCU	RPD	Sulphide	2018/11/01	1.2		%	20
9209803	KAB	Matrix Spike	Ammonia (N)	2018/10/31		100	%	80 - 120
9209803	KAB	Spiked Blank	Ammonia (N)	2018/10/31		108	%	80 - 120
9209803	KAB	Method Blank	Ammonia (N)	2018/10/31	<0.020		mg/L	
9209803	KAB	RPD	Ammonia (N)	2018/10/31	0.71		%	20
9209815	CGP	Spiked Blank	pH	2018/10/31		101	%	97 - 103
9209816	CGP	Spiked Blank	Conductivity	2018/10/31		98	%	80 - 120
9209816	CGP	Method Blank	Conductivity	2018/10/31	<2.0		uS/cm	
9209818	CGP	Spiked Blank	Alkalinity (Total as CaCO3)	2018/10/31		95	%	80 - 120
9209818	CGP	Method Blank	Alkalinity (Total as CaCO3)	2018/10/31	<1.0		mg/L	
			Alkalinity (PP as CaCO3)	2018/10/31	<1.0		mg/L	

Maxxam Job #: B894775  
Report Date: 2018/11/06

K2 Parks Services Ltd  
Site Location: SPECT CT

**QUALITY ASSURANCE REPORT(CONT'D)**

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bicarbonate (HCO3)	2018/10/31	<1.0		mg/L	
			Carbonate (CO3)	2018/10/31	<1.0		mg/L	
			Hydroxide (OH)	2018/10/31	<1.0		mg/L	
9210005	IC4	Matrix Spike	Nitrogen (N)	2018/11/01		91	%	80 - 120
9210005	IC4	Spiked Blank	Nitrogen (N)	2018/11/01		95	%	80 - 120
9210005	IC4	Method Blank	Nitrogen (N)	2018/11/01	<0.020		mg/L	
9210005	IC4	RPD	Nitrogen (N)	2018/11/01	3.6		%	20
9210268	EL2	Matrix Spike	Mercury (Hg)	2018/11/01		112	%	80 - 120
9210268	EL2	Spiked Blank	Mercury (Hg)	2018/11/01		106	%	80 - 120
9210268	EL2	Method Blank	Mercury (Hg)	2018/11/01	<0.0020		ug/L	
9210268	EL2	RPD	Mercury (Hg)	2018/11/01	NC		%	20
9210872	VT1	Matrix Spike	Sulphate (SO4)	2018/10/31		95	%	80 - 120
9210872	VT1	Spiked Blank	Sulphate (SO4)	2018/10/31		91	%	80 - 120
9210872	VT1	Method Blank	Sulphate (SO4)	2018/10/31	<1.0		mg/L	
9210872	VT1	RPD	Sulphate (SO4)	2018/10/31	2.3		%	20
9211388	OMA	Spiked Blank	Colour	2018/11/01		95	%	80 - 120
9211388	OMA	Method Blank	Colour	2018/11/01	<5		Col. Unit	
9211388	OMA	RPD	Colour	2018/11/01	NC		%	10
9211407	MO5	Matrix Spike	Nitrate plus Nitrite (N)	2018/11/01		99	%	80 - 120
9211407	MO5	Spiked Blank	Nitrate plus Nitrite (N)	2018/11/01		106	%	80 - 120
9211407	MO5	Method Blank	Nitrate plus Nitrite (N)	2018/11/01	<0.020		mg/L	
9211407	MO5	RPD	Nitrate plus Nitrite (N)	2018/11/01	NC		%	25
9211409	MO5	Matrix Spike	Nitrite (N)	2018/11/01		93	%	80 - 120
9211409	MO5	Spiked Blank	Nitrite (N)	2018/11/01		101	%	80 - 120
9211409	MO5	Method Blank	Nitrite (N)	2018/11/01	<0.0050		mg/L	
9211409	MO5	RPD	Nitrite (N)	2018/11/01	NC		%	20
9212595	BB3	Spiked Blank	Chloride (Cl)	2018/11/01		103	%	80 - 120
9212595	BB3	Method Blank	Chloride (Cl)	2018/11/01	<1.0		mg/L	
9214163	BO3	Matrix Spike	Fluoride (F)	2018/11/03		110	%	80 - 120
9214163	BO3	Spiked Blank	Fluoride (F)	2018/11/03		104	%	80 - 120
9214163	BO3	Method Blank	Fluoride (F)	2018/11/03	<0.020		mg/L	
9214163	BO3	RPD	Fluoride (F)	2018/11/03	0		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).