island health

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2018 (year)

Water System Cumberland Lake Park Well

Water System Owner Village of Cumberland

Primary Contact Name (Operator or Manager) Dave Wing

Phone Number (Operator or Manager) 250-650-6293

E-mail (Operator or Manager) dwing@cumberland.ca

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

☒ Deep Well ☐ Shallow Well ☐ Surface Water ☐ Other

If other, specify details: 2008 documentation from McGill's Well Service states it is 65' deep.

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):

Operating permit to be updated. All actions identified in the 2018 inspection report have been completed - provide copy of annual report to environmental health and put copy in the office headquarters water binder; and, sample UVT.

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?	10
What is the minimum required sampling frequency for this system? (#samples/month)	1

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?

WATER QUALITY STANDARDS FOR POTABLE WATER

Parameter:	***Standard:***	**Did this system meet standard?**	
Escherichia coli (for all samples)	No detectable *Escherichia coli* per 100ml	■ Yes	☐ No
Total Coliform Bacteria *(if only 1 sample collected in a 30 day period)*	No detectable total coliform bacteria per 100ml	■ Yes	☐ 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, **and** No sample has more than 10 total coliform bacteria per 100ml	☐ Yes	■ 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.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action
Only 1 potable water sample collected per month in 2018				

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 Attached to this report.		
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) June/July 2021		

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
UVT | Requested by DWO	

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

Click here to enter a date. June 17, 2109 **DATE COMPLETED:**	Gavin Murgatroyd **COMPLETED BY:**

VANCOUVER ISLAND health authority

DRINKING WATER SYSTEM INSPECTION REPORT

Health Protection

SYSTEM NAME: Cumberland Lake Park Well | E.H.O. NAME: David Cherry

ADDRESS: 1100 Comox Lake Rd | POSTAL CODE: | SYSTEM NUMBER: 14312

OPERATOR: Village of Cumberland | INSPECTION DATE (DMY): 16/05/18 | TIME SPENT(Hrs. - nearest 1/4): 1.0

SYSTEM TYPE(CHECK One)

☐ > 20,000 (DWP) ☐ 10,001 - 20,000 (DWM) ☐ 301 - 10,000(DWT) ☐ 15 - 300(DWC) ☑ 2 - 14(DWS)

☐ 1 - SERVES PUBLIC (DWQ) ☐ 1 HAULER (DWH)

TYPE OF INSPECTION

☐ INITIAL ☑ ROUTINE

☐ COMPLAINT ☐ FOLLOW-UP

CRITICAL HAZARD

These items relate to Public Health Safety & **MUST RECEIVE IMMEDIATE ATTENTION**

Microbiological Contamination of Raw Water Supply Due to:

- ☐ 301 Flood
- ☐ 302 Sewage
- ☐ 303 Industrial
- ☐ 304 Agriculture
- ☐ 305 Other (Specify) _____
- ☐ 306 Chemical Contamination of Raw Water Suply
- ☐ 307 Contamination of Finished Water - Reservoir
- ☐ 308 Contamination of Finished Water - Mains
- ☐ 309 Cross-Connection
- ☐ 310 Use of Unapproved Source
- ☐ 311 Interruption of Treatment
- ☐ 312 Inadequate Treatment
- ☐ 313 Other (Specify) _____

SANITATION & MAINTENANCE

These items must be corrected within a designated time period

- ☐ 314 Improper Maintenance of Distribution Sytsem
- ☐ 315 Improper or No Disinfection of New or Repaired Main
- ☐ 316 Source Unprotected and Subject to Contamination
- ☐ 317 Inadequate or Improper Construction of Water Works
- ☐ 318 Inadequate Microbiological Analysis Data
- ☑ 319 Inadequate Chemical Analysis Data
- ☐ 320 Interruption of Treatment
- ☐ 321 Inadequate Treatment
- ☐ 322 Emergency Response Plan
- ☑ 323 Other (Specify) Annual Report

CODE	FINDINGS AND ACTIONS REQUIRED
	- log book maintained with Chlorine residual
	- Emergency response plan onsite
323	Provide copy of Annual report to environmental Health and put copy in office Headquarters water binder
319	Sample UVT monthly during operation

Page 1 of (

At the time of inspection this system has a hazard rating of ☐ HIGH ☐ MODERATE ☑ LOW ☐ Issue Permit ☐ Conditions of Permit

FOLLOW-UP ☐ VISIT ☐ PHONE Date / /

RECEIVED BY PRINT NAME E.H.O.

H:\EHO\FORM\DIRNKING WATER SYSTEM INSPECTION REPORT- APRIL 2010 WHITE COPY - OPERATOR YELLOW COPY - INTERNAL PINK COPY - E.H.O.

CUMBERLAND LAKE PARK WELL

Facility Location

1100 Comox Lake Road
Cumberland

Facility Information

Facility Type	2-14 (DWS)

Facility Sampling History

Location	Date	Total Coliform	E. Coli
Comox Lake Concession, Cumberland Lake Park	11-Jun-2019	L1	L1
Site B, Comox Lake	5-Jun-2019	L1	L1
Site B, Comox Lake	1-May-2019	L1	L1
Site B, Comox Lake	11-Apr-2019	L1	L1
Site B, Comox Lake	5-Sep-2018	L1	L1
Site B, Comox Lake	21-Aug-2018	L1	L1
Site B, Comox Lake	25-Jul-2018	L1	L1
Site B, Comox Lake	13-Jun-2018	L1	L1
Site B, Comox Lake	9-May-2018	L1	L1
Site B, Comox Lake	26-Apr-2018	L1	L1

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LAKE PARK 2018
ANNUAL TOTAL
CHEMICAL ANALYSIS
SITE B TREATED

Your P.O. #: 17-15
Your Project #: DRINKING WATER
Site Location: SITE B
Your C.O.C. #: WI13709

Attention: MARK SPRINGFORD

VILLAGE OF CUMBERLAND
PO BOX 340
CUMBERLAND, BC
CANADA V0R 1S0

Report Date: 2018/06/05
Report #: R2563736
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B841603
Received: 2018/05/30, 12:30

Sample Matrix: DRINKING WATER
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water (1)	1	N/A	2018/06/01	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry (1)	1	N/A	2018/05/31	BBY6SOP-00011	SM 22 4500-Cl- E m
Colour (True) by Kone Lab (1)	1	N/A	2018/06/01	BBY6SOP-00057	SM 22 2120 C m
Coliforms & E.coli by Quantitray (MPN)	1	N/A	2018/05/30	CTYSOP-00002	Based on SM-9223
Conductance - water (1)	1	N/A	2018/06/01	BBY6SOP-00026	SM 22 2510 B m
Fluoride (1)	1	N/A	2018/06/01	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (1, 2)	1	N/A	2018/06/04	BBY WI-00033	Auto Calc
Mercury (Total) by CVAF (1)	1	2018/06/01	2018/06/01	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (1)	1	N/A	2018/06/04	BBY WI-00033	Auto Calc
Elements by CRC ICPMS (total) (1)	1	N/A	2018/06/04	BBY7SOP-00003,	EPA 6020b R2 m
Nitrate + Nitrite (N) (1)	1	N/A	2018/05/31	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA (1)	1	N/A	2018/05/31	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) (1)	1	N/A	2018/06/01	BBY WI-00033	Auto Calc
pH Water (1, 3)	1	N/A	2018/06/01	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry (1)	1	N/A	2018/05/31	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue) (1)	1	2018/06/01	2018/06/04	BBY6SOP-00033	SM 22 2540 C m
Total Trihalomethanes Calculation (1)	1	N/A	2018/06/01	BBY WI-00033	Auto Calc
Turbidity (1)	1	N/A	2018/05/31	BBY6SOP-00027	SM 22 2130 B m
Field Residual Chlorine (1)	1	N/A	2018/05/30		
VOCs, VH, F1, LH in Water by HS GC/MS (1)	1	N/A	2018/06/01	BBY8SOP-00009/11/12	BCMOE BCLM Jul 2017

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.

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.

Maxxam Analytics International Corporation o/a Maxxam Analytics Courtenay: 2755B Moray Avenue V9N 8M9, Phone: (250) 338-7786. Toll free: (800) 665-8566

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Your P.O. #: 17-15
Your Project #: DRINKING WATER
Site Location: SITE B
Your C.O.C. #: WI13709

Attention: MARK SPRINGFORD

VILLAGE OF CUMBERLAND
PO BOX 340
CUMBERLAND, BC
CANADA V0R 1S0

Report Date: 2018/06/05
Report #: R2563736
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B841603
Received: 2018/05/30, 12:30

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.

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.
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 Vancouver
(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.

Encryption Key

Maxxam
05 Jun 2018 11:28:32

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Melissa McIntosh, Project Manager
Email: MMcIntosh@maxxam.ca
Phone# (250) 338 7786

==========

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Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

RESULTS OF CHEMICAL ANALYSES OF DRINKING WATER

Maxxam ID					TN5079	
Sampling Date					2018/05/30 12:00	
COC Number					WI13709	
	UNITS	MAC	AO	OG	LAKE PARK WELL (TREATED WATER) - SITE B	RDL
ANIONS						
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050
Calculated Parameters						
Nitrate (N)	mg/L	10	-	-	0.299	0.020
Field Parameters						
Field Residual Chlorine	mg/L	-	-	-	0.45	N/A
Misc. Inorganics						
Fluoride (F)	mg/L	1.5	-	-	0.024	0.020
Alkalinity (Total as CaCO3)	mg/L	-	-	-	21.1	1.0
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0
Bicarbonate (HCO3)	mg/L	-	-	-	25.7	1.0
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0
Anions						
Dissolved Sulphate (SO4)	mg/L	-	500	-	1.3	1.0
Dissolved Chloride (Cl)	mg/L	-	250	-	1.4	1.0
MISCELLANEOUS						
True Colour	Col. Unit	-	15	-	<5.0	5.0
Nutrients						
Nitrate plus Nitrite (N)	mg/L	-	-	-	0.299	0.020
Physical Properties						
Conductivity	uS/cm	-	-	-	51.2	2.0
pH	pH	-	-	7.0:10.5	7.31	
Physical Properties						
Total Dissolved Solids	mg/L	-	500	-	32	10
Turbidity	NTU	see remark	see remark	see remark	0.18	0.10

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

VOLATILE ORGANICS BY GC-MS (DRINKING WATER)

Maxxam ID			TN5079	
Sampling Date			2018/05/30 12:00	
COC Number			WI13709	
	UNITS	MAC	LAKE PARK WELL (TREATED WATER) - SITE B	RDL
Volatiles				
Total Trihalomethanes	ug/L	100	<1.0	1.0

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

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VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

MICROBIOLOGY (DRINKING WATER)

Maxxam ID			TN5079
Sampling Date			2018/05/30 12:00
COC Number			WI13709
	UNITS	MAC	LAKE PARK WELL (TREATED WATER) - SITE B
Microbiological Param.			
Total Coliforms (QT)	MPN/100mL	0	0
E. coli (QT)	MPN/100mL	0	0

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

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VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

Maxxam ID					TN5079	
Sampling Date					2018/05/30 12:00	
COC Number					WI13709	
	UNITS	MAC	AO	OG	LAKE PARK WELL (TREATED WATER) - SITE B	RDL
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	-	-	-	20.4	0.50
Elements						
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	0.0020
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	-	-	100	<3.0	3.0
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50
Total Arsenic (As)	ug/L	10	-	-	<0.10	0.10
Total Barium (Ba)	ug/L	1000	-	-	<1.0	1.0
Total Beryllium (Be)	ug/L	-	-	-	<0.10	0.10
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	1.0
Total Boron (B)	ug/L	5000	-	-	<50	50
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20
Total Copper (Cu)	ug/L	-	1000	-	2.88	0.20
Total Iron (Fe)	ug/L	-	300	-	7.1	5.0
Total Lead (Pb)	ug/L	10	-	-	0.35	0.20
Total Manganese (Mn)	ug/L	-	50	-	<1.0	1.0
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10
Total Silicon (Si)	ug/L	-	-	-	6070	100
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020
Total Strontium (Sr)	ug/L	-	-	-	8.2	1.0
Total Thallium (Tl)	ug/L	-	-	-	<0.010	0.010
Total Tin (Sn)	ug/L	-	-	-	<5.0	5.0
Total Titanium (Ti)	ug/L	-	-	-	<5.0	5.0
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

TOT. METALS W/ CV HG FOR DRINKING WATER (DRINKING WATER)

Maxxam ID					TN5079	
Sampling Date					2018/05/30 12:00	
COC Number					WI13709	
	UNITS	MAC	AO	OG	LAKE PARK WELL (TREATED WATER) - SITE B	RDL
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	0.10
Total Calcium (Ca)	mg/L	-	-	-	5.66	0.050
Total Magnesium (Mg)	mg/L	-	-	-	1.53	0.050
Total Potassium (K)	mg/L	-	-	-	0.062	0.050
Total Sodium (Na)	mg/L	-	200	-	1.56	0.050
Total Sulphur (S)	mg/L	-	-	-	<3.0	3.0

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

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Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

TRIHALOMETHANES (THM) IN WATER

Maxxam ID		TN5079	
Sampling Date		2018/05/30 12:00	
COC Number		WI13709	
	UNITS	LAKE PARK WELL (TREATED WATER) - SITE B	RDL
Volatiles			
Bromodichloromethane	ug/L	<1.0	1.0
Bromoform	ug/L	<1.0	1.0
Chlorodibromomethane	ug/L	<1.0	1.0
Chloroform	ug/L	<1.0	1.0
Surrogate Recovery (%)			
1,4-Difluorobenzene (sur.)	%	99	
4-Bromofluorobenzene (sur.)	%	86	
D4-1,2-Dichloroethane (sur.)	%	109	
RDL = Reportable Detection Limit			

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Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

GENERAL COMMENTS

Results relate only to the items tested.

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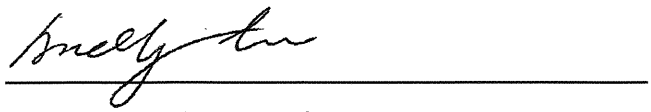
Maxxam Job #: B841603
Report Date: 2018/06/05

VILLAGE OF CUMBERLAND
Client Project #: DRINKING WATER
Site Location: SITE B
Your P.O. #: 17-15

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

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