

National Assessment of First Nations Water and Wastewater Systems

British Columbia Regional Roll-Up Report FINAL

Department of Indian Affairs and
Northern Development

January 2011

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**National Assessment of First Nations
Water and Wastewater Systems**

**British Columbia Regional Roll-Up Report
Final**

**Department of Indian and Northern Affairs
Canada**

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Prepared for:

Department of Indian and Northern Affairs Canada

January 2011

File No: FGY163080.4

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This regional roll-up report has been prepared by Neegan Burnside Ltd. and a team of sub-consultants (Consultant) for the benefit of Indian and Northern Affairs Canada (Client). Regional summary reports have been prepared for the 8 regions, to facilitate planning and budgeting on both a regional and national level to address water and wastewater system deficiencies and needs.

The material contained in this Regional Roll-Up report is:

- preliminary in nature, to allow for high level budgetary and risk planning to be completed by the Client on a national level.
- based on a compilation of the data and findings from the individual community reports prepared and issued for a specific region.
- not proposing to identify the preferred solution to address deficiencies for each community. Rather this report will identify possible solution(s) and probable preliminary costs associated with solution(s) presented in greater detail in the community reports. Community specific studies including more detailed evaluation will be required to identify both preferred solutions and final costs.
- based on existing conditions observed by, or reported to the Consultant. This assessment does not wholly eliminate uncertainty regarding the potential for costs, hazards or losses in connection with a facility. Conditions existing but not recorded were not apparent given the level of study undertaken.
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Risk as it pertains to health and safety issues and building code compliance is based upon hazards readily identifiable during a simple walk through of the water and wastewater facilities, and does not constitute a comprehensive assessment with regard to health and safety regulations and or building code regulations.

The Consultant accepts no responsibility for any decisions made or actions taken as a result of this report.

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1.0 Introduction

The Government of Canada is committed to providing safe, clean drinking water in all First Nations communities, and to ensuring that wastewater services in all First Nations communities meet acceptable effluent quality standards. As part of this commitment, the Government announced the First Nations Water and Wastewater Action Plan (FNWWAP). The plan funds the construction and renovation of water and wastewater facilities, operator training, and public health activities related to water and wastewater on reserves. It also provided for a national, independent assessment – *The National Assessment of First Nations Water and Wastewater Systems* – which will inform the Government's future, long-term investment strategy. This assessment was also recommended by the Senate Standing Committee on Aboriginal Peoples.

The purpose of the *National Assessment* is to define the current deficiencies and the operational needs of water and wastewater systems, identify the long-term water and wastewater needs of each community and recommend sustainable, long-term infrastructure development strategies.

The objectives of the *National Assessment* are to:

- Identify which upgrades will be required for existing public systems to meet INAC's *Level of Service Standards*; INAC's *Protocol for Safe Drinking Water in First Nations Communities*; INAC's *Protocol for Wastewater Treatment and Disposal in First Nations Communities*; and applicable provincial regulations, codes, and standards
- Complete the Annual Inspection, Risk Assessment and Asset Condition Reporting Systems (ACRS) assessment for water and wastewater assets
- Conduct an overall community serviceability assessment of private, on-site communal and/or central systems
- Prepare Class "D" cost estimates for each of the communities visited. Class "D" estimates are preliminary, and are based on available site information. They indicate the approximate magnitude of the cost of the recommended actions, and they may be used to develop long-term capital plans. In addition, these estimates may be used in preliminary discussions of proposed capital projects.

This assessment involved collecting background data and information about each community, undertaking a site visit, and preparing individual community reports for each participating First Nation. Neegan Burnside Ltd. and its sub-consultants conducted an assessment for each of the eight regions. This report summarizes the findings for the British Columbia region.

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1.1 Site Visits

Site visits in the British Columbia Region were undertaken by personnel from sub-consultants, Urban Systems, Kerr Wood Leidal Associates and NovaTec. These site visits were undertaken during September, October and December of 2009 and during May, June, July and August of 2010. In addition to the consultant staff, additional participants including the Circuit Rider Trainer (CRT), INAC Representative, Environmental Health Officer (EHO) from Health Canada and Tribal Council Representative were invited to attend the site visits. The additional participants that were able to attend are identified in each community report.

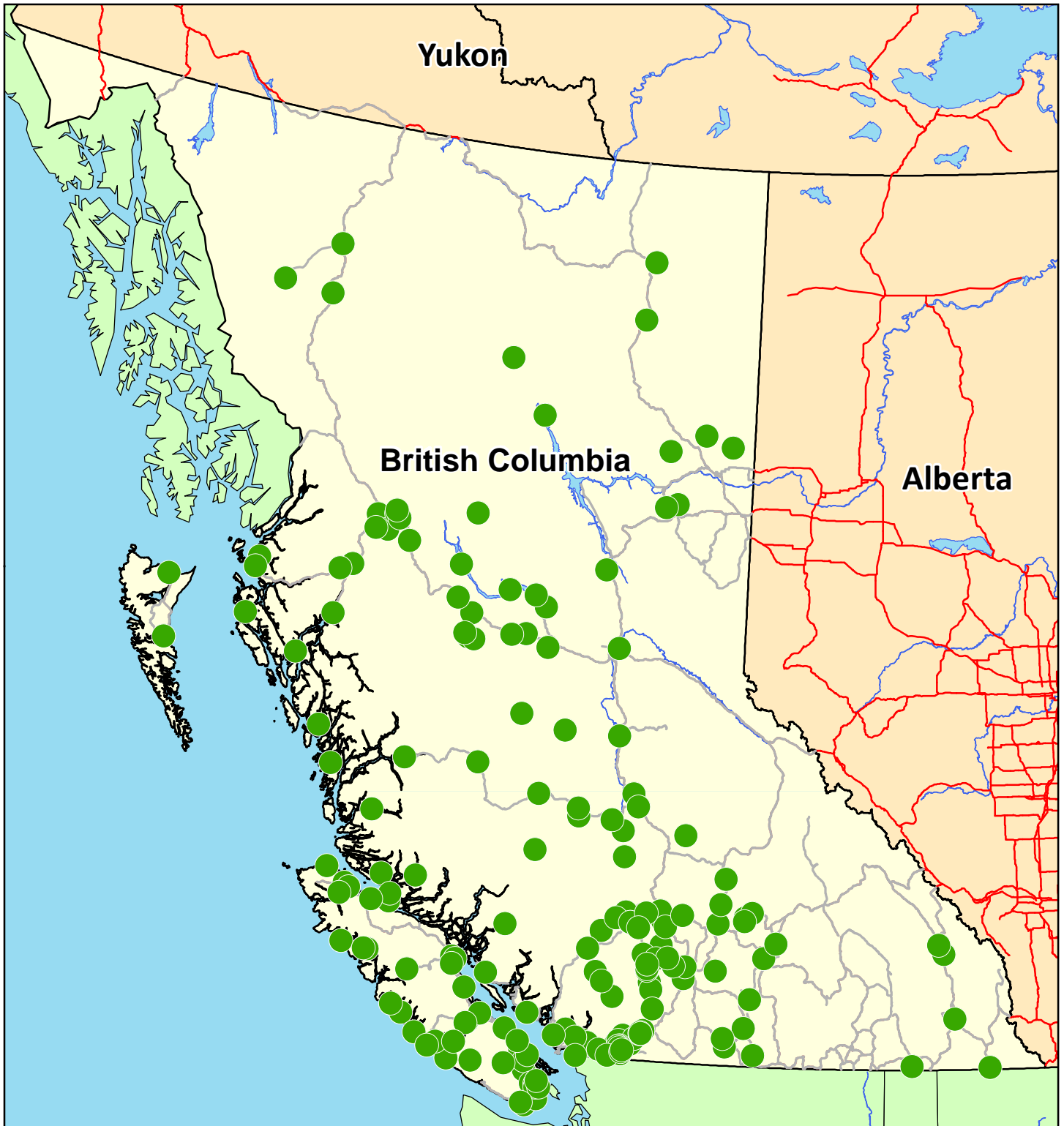
After confirming the various components that the First Nation uses to provide water and wastewater services to the community (i.e. number and types of systems, piping, individual systems, etc.) along with population and future servicing needs (planned development and population growth), an assessment was carried out of the water and wastewater systems, as well as 5% of the individual systems. The assessments were carried out over one day at each community system.

1.2 Reporting

Individual Community Reports have been prepared for each First Nation. In cases where the First Nation consisted of more than one community located in geographically distinct areas, a separate report was prepared for each community. In the British Columbia region, there was participation from 188 of the 198 First Nations, which resulted in the preparation of 223 individual community reports addressing the systems in 188 First Nations. A report was not submitted for seven of the First Nations, which did not have any members living on-site and had no assets, and three of the First Nations, who chose not to participate. Figure 1.1 indicates the location of each First Nation visited as a part of this study.

The reports include an assessment of existing communal systems and existing individual systems, identification of needs to meet departmental, federal and provincial protocols and guidelines, and an assessment of existing servicing of the community along with projections of population and flows for future servicing for the next 10 year period. Costing for the recommendations to meet departmental protocol, federal and provincial guidelines, and an evaluation of servicing alternatives along with life cycle costing for each feasible alternative are also included in each community report.

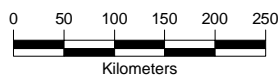
An annual water inspection, risk evaluation and Asset Condition Reporting System (ACRS) inspection was completed for each system and are included in the Appendices of each report.



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- BC First Nations (Visited)
- British Columbia Roads
- Major National Roads
- Major Lakes

Figure 1.1 - British Columbia First Nations Visited



NOTES

This map has been compiled with data of varying scale and accuracy. This is not a plan of survey.

SOURCES

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2.0 Regional Overview

A total of 188 First Nations were visited in British Columbia Region. There are 290 water systems (218 First Nation and 72 MTA) and 153 wastewater systems (94 First Nations and 59 MTA). First Nation water and wastewater systems, describes the situation where the systems are INAC funded assets and serve five or more residences or community buildings. A MTA (Municipal Type Agreement or Arrangement) describes the situation where First Nations are supplied with treated water from or send their wastewater to a nearby municipality or neighbouring First Nation or corporate entity as outlined in a formal agreement between the two parties. There are five cases where the First Nation supplies the local municipality with domestic water or treats their wastewater.

The First Nation community populations ranged from 13 to 9,400 people and household sizes ranged from 1.1 to 7.5 people per unit (ppu). The total number of homes was 21,505 and the average household size in the British Columbia region was 3.3 ppu.

2.1 Water Servicing

There are a total of 290 water systems, including:

- 72 systems that receive their water supply through a Municipal Type Agreement (MTA)
- 155 groundwater systems
- 15 GUDI (groundwater under the direct influence of surface water) systems
- 48 surface water systems.

For water distribution, the 290 systems include:

- 25 distribution systems that are maintained through a Municipal Type Agreement (MTA)
- 265 distribution systems that are maintained by the First Nation.

The following is a summary of the level of service being provided to the homes within the British Columbia Region

- 96% of the homes (20,585) are piped
- <1% of the homes (14) are on truck delivery
- 4% of the homes (898) are serviced by individual wells
- <1% of the homes (8) are reported to have no water service.

The following table provides an overview of the water systems by system classification, source type, treatment type and storage type.

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In general, the treatment system classification reflects the complexity of the treatment process and the distribution classification reflects the size (population) of the community being serviced. Treatment systems labeled as “Small System”, typically represent systems with either disinfection only or no treatment. The label “None” indicates the system has not been classified. The classification used for the British Columbia region follows the regulations for British Columbia.

Table 2.1 - Water Overview

System Classification	No.	% of Total
None	58	20%
Small System	122	42%
Level I	8	3%
Level II	20	7%
Level III	9	3%
Level IV	1	0%
MTA	72	25%

Source Type	No.	% of Total
Groundwater	155	53%
Surface Water	48	17%
Groundwater GUDI	15	5%
MTA	72	25%

Storage	No.	% of Total
None	96	33%
Elevated	24	8%
Standpipe	46	16%
Grade level	36	13%
Underground	88	30%

Treatment Type	No.	% of Total
None - Direct Use	115	40%
Disinfection Only	55	18%
Conventional	12	4%
Greensand Filtration	2	1%
Membrane Filtration	5	2%
Slow Sand	29	10%
MTA	72	25%

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2.2 Wastewater Servicing

There are a total of 153 wastewater systems serving 117 First Nations. The remaining 71 First Nations are serviced by individual wastewater systems.

For wastewater treatment, the 153 systems include:

- 59 wastewater systems are provided treatment through a Municipal Type Agreement (MTA)
- 94 First Nation wastewater treatment systems consisting of 31 systems using facultative or aerated lagoons, 11 systems using a mechanical plant, 42 systems using communal septic systems, 8 systems with other treatment, and 2 systems with no treatment.

For wastewater collection, the 153 systems include:

- 20 wastewater collection systems that are maintained through a Municipal Type Agreement (MTA)
- 133 wastewater collection systems that are maintained by the First Nation.

The following is a summary of the level of service being provided to the homes within the British Columbia Region

- 68% of the homes (14,590) are piped
- <1% of the homes (96) are on truck haul
- 32% of the homes (6,809) are serviced by individual systems
- <1% of the homes (10) homes reported to have no service.

The homes without service (10) are distributed across four First Nations.

The following table provides an overview of the wastewater systems by system classification and treatment type.

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Table 2.2 - Wastewater Overview

System Classification	No.	% of Total
None	9	6%
Small System	60	39%
Level I	17	11%
Level II	7	4%
Level III	1	1%
MTA	59	39%

Treatment Type	No.	% of Total
Aerated Lagoon	15	10%
Facultative Lagoon	16	10%
Mechanical Treatment	11	7%
MTA	59	39%
Septic System	42	28%
Other	8	5%
None	2	1%

The systems identified as having none for a treatment type describe situations where there was no treatment prior to a marine discharge. Other refers to systems such as solids removal in septic tanks followed by direct discharge, rapid infiltration basin etc.

3.0 Preliminary Results and Trends

3.1 Per Capita Consumption and Plant Capacity

Historical flow records were available for approximately 175 First Nations. For systems with no available flow data, an average per capita demand of 325 L/c/d for piped and 90 L/c/d for trucked was used. The average daily per capita demand of the actual flow records was 460 L/c/d. The median per capita demand was 325 L/c/d. The minimum average daily per capita demand was 52 L/c/d and six communities reported in excess of 1,000 L/c/d.

For the 290 water systems, 286 were piped only and the remaining 4 systems had a combination of trucked and piped. The four systems that included trucked service had average daily per capita demands ranging from 285 to 325 L/c/d.

Table 3.1 - Range of Per Capita Water Usage Rates

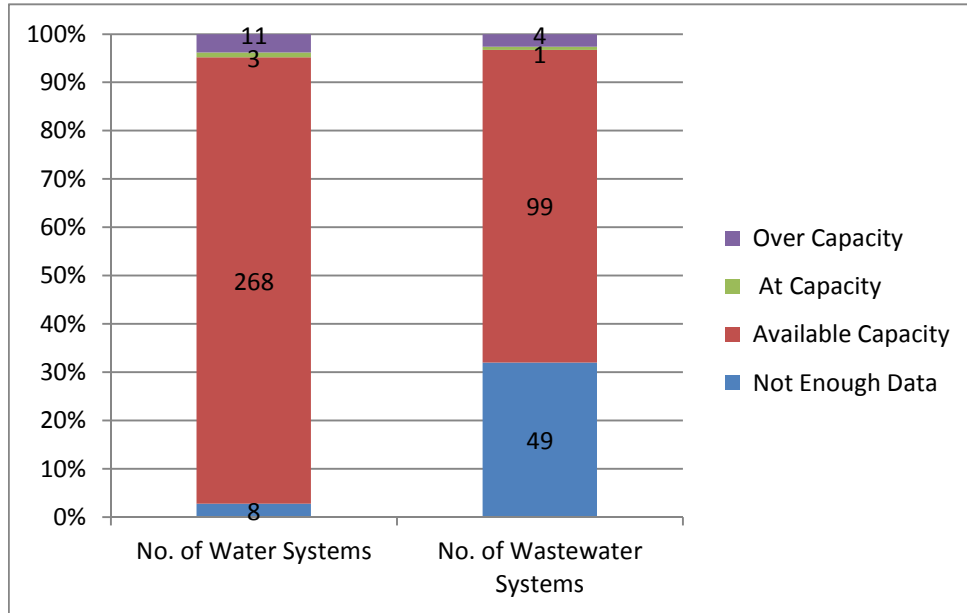
	No. of systems 2009
Less than 250 L/c/d	26
250 L/c/d to 375 L/c/d	213
Greater than 375 L/c/d	51

Historical flow data for wastewater was not available for most of the sewage systems. Therefore, to evaluate the ability of the existing infrastructure to meet the current and projected needs, an average daily flow has been calculated based on the actual or assumed per capita water consumption plus an infiltration allowance of 90 L/c/d for piped flow.

The following figure provides a summary of the plant capacities in the 188 participating First Nations:

- over capacity – the existing system was unable to meet the current needs
- at capacity – the existing system was able to meet the current needs
- available capacity – the existing system had sufficient capacity to meet more than the current needs
- not enough data – insufficient data was available to determine the actual system capacity.

Figure 3.1 - Water and Wastewater Treatment Capacities



Based on the data collected, 14 water systems and 5 wastewater systems are operating at or beyond their estimated capacities. The per capita demand for four of the water systems at or over capacity was in excess of 450 L/c/d.

3.2 Distribution and Collection

The household size ranged from 1.1 to 7.5 people per unit (ppu) with an average of 3.3 ppu. The total number of piped connections in the region has been determined to be 20,585 for water and 14,591 for wastewater. The total average length of watermain per connection is 60 m. The average length of sewer main per connection is 33 m.

As shown in the table and figures below, there is no real correlation between the size of the community and the length of pipe per connection. The length of watermain per connection is greater than the length of sanitary main per connection. This is likely resulting from communities that provide piped water service only and as such the homes are further apart to allow for the installation of private sewage systems. The data provided for watermain, in some cases, includes dedicated transmission main lengths (no service connections) and non-distribution mains (i.e. intake pipes, raw water pipes), which results in an inflated average, particularly for smaller communities where this additional pipe length is spread over a smaller number of connections. The tables and figures below include only those communities where suitable data was available.

The table below indicates the number of water and wastewater systems that have pipe lengths above and below 30 m/connection. It should be noted that this information was not available for all of the systems.

Table 3.2 - Average Water Distribution and Wastewater Collection Pipe Lengths

	Watermain	Sewer
Average m/connection	60	33
No. of systems with pipe lengths above 30 m/connection	215	72
No. of systems with pipe lengths below 30 m/connection	49	57

Figure 3.2 - Water Distribution - Average Pipe Length per Connection

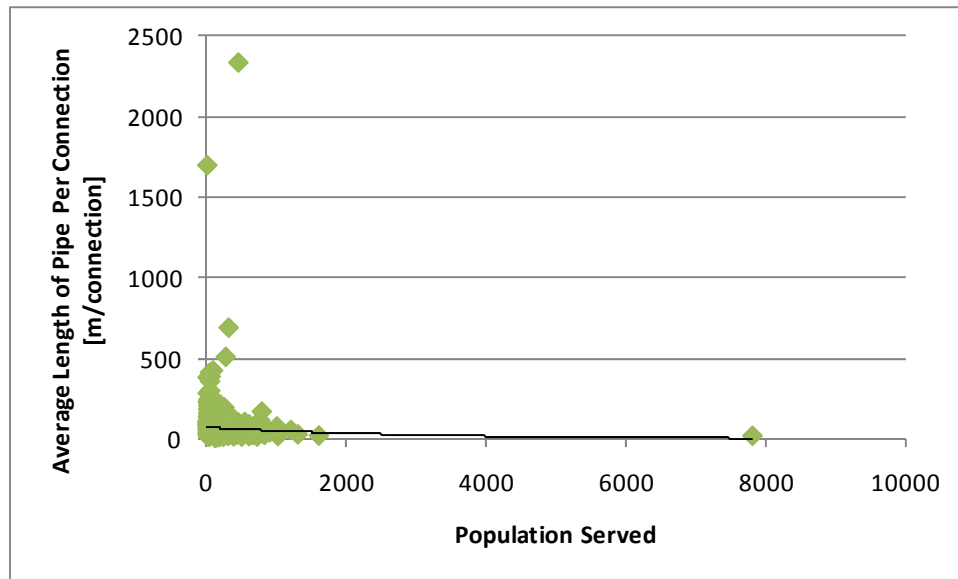
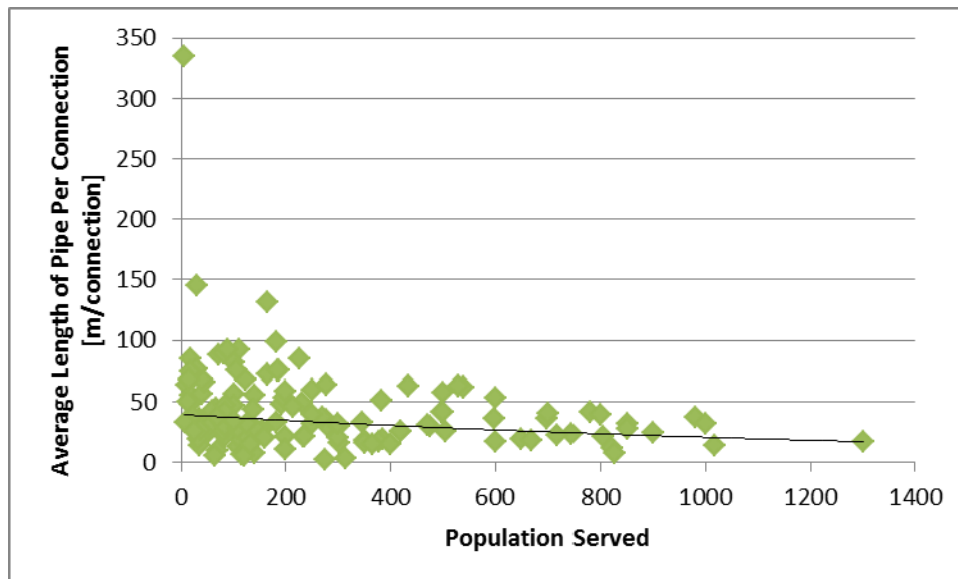


Figure 3.3 - Wastewater Collection - Average Pipe Length per Connection



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3.3 Water Risk Evaluation

A risk assessment has been completed for each water system according to the INAC Risk Level Evaluation Guidelines. Each facility is ranked in risk according to the following categories: Water Source, Design, Operation (and Maintenance), Reporting and Operators. The overall risk score is a weighted average of the component risk scores.

Each of the five risk categories, as well as the overall risk level of the entire system is ranked numerically from 1 to 10. Low, medium and high risks are defined as follows:

- **Low Risk (1.0 to 4.0):** These are systems that operate with minor deficiencies. Low-risk systems usually meet the water quality parameters that are specified by the appropriate Canadian Guidelines for drinking water (in particular, the *Guidelines for Canadian Drinking Water Quality (GCDWQ)*).
- **Medium Risk (4.1 to 7.0):** These are systems with deficiencies, which—individually or combined—pose a medium risk to water quality and to human health. These systems do not generally require immediate action, but the deficiencies should be corrected to avoid future problems.
- **High Risk (7.1 to 10.0):** These are systems with major deficiencies, which—individually or combined—pose a high risk to the quality of water. These deficiencies may lead to potential health and safety or environmental concerns. They could also result in water quality advisories against drinking the water (such as, but not limited to, boil water advisories), repetitive non-compliance with guidelines, and inadequate water supplies. Once systems are classified under this category, regions and First Nations must take immediate corrective action to minimize or eliminate deficiencies.

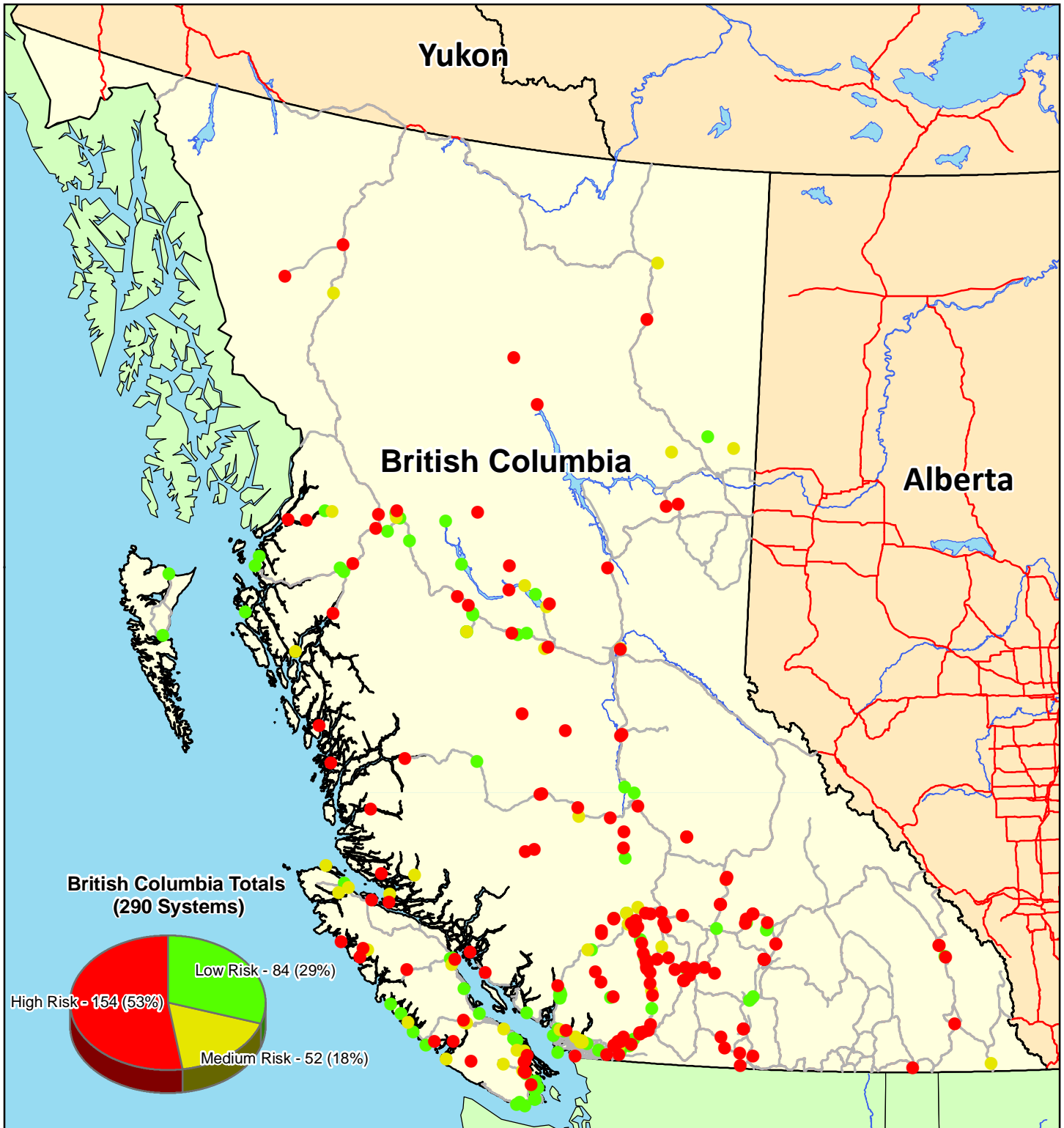
Regional Risk Summary:

Of the 290 water systems inspected:

- 154 are categorized as high overall risk
- 52 are categorized as medium overall risk
- 84 are categorized as low overall risk.

Appendix E.1 provides a table that summarizes the correlation between component risk and overall risk.

Figure 3.4 provides a geographical representation of the final risk for the water systems that were inspected.



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Figure 3.4 - British Columbia Water System Risk

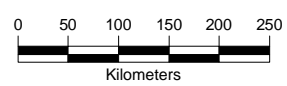
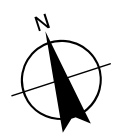
NOTES
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 Drawn By: B. Goll
 Projection: Geographic, Canada LCC

- Water System Risk Level**
- High
 - Medium
 - Low
- British Columbia Roads
 — Major National Roads
 ■ Major Lakes



3.3.1 Overall System Risk by Source

The following table summarizes the overall system risk by water source. 78% of groundwater systems, 67% of the GUDI systems, 38% of surface water systems and 7% of the Municipal Type Agreement (MTA) systems are classified as high overall risk. Typically, it is assumed that MTA systems will have a low risk, as it is assumed the municipality is operating their system in accordance with provincial legislation. For the British Columbia region, however, some of MTA water supplies did not meet the GCDWQ, which resulted in a higher risk score.

Table 3.3 - Summary of Overall Risk Levels by Water Source

Overall Risk Level	Groundwater	GUDI	Surface Water	MTA	TOTAL
High	121	10	18	5	154
Medium	19	3	11	19	52
Low	15	2	19	48	84
Total	155	15	48	72	290

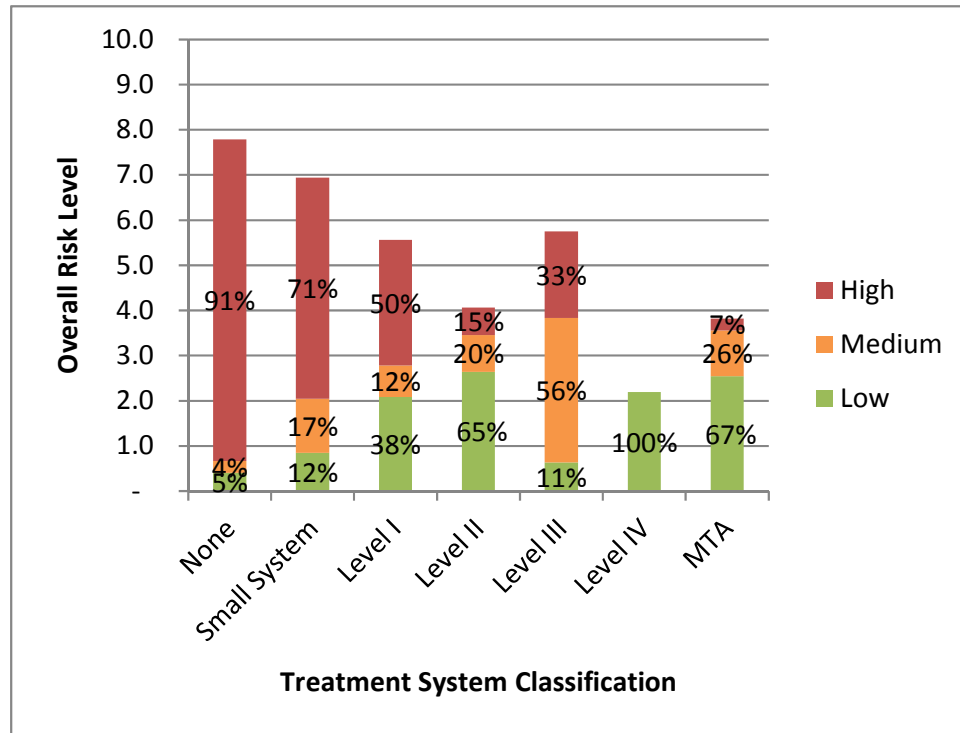
3.3.2 Overall System Risk by Treatment Classification

The following table summarizes the overall system risk by classification level of the treatment system. The simpler the plant classification the more likely it is that the system will have a high overall risk. This may be because sufficient resources have not been allocated to these systems.

Table 3.4 - Summary of Overall Risk Levels by Treatment System Classification

Overall Risk Level	None	Small System	Level I	Level II	Level III	Level IV	MTA	Total
High	53	86	4	3	3	0	5	154
Medium	2	21	1	4	5	0	19	52
Low	3	15	3	13	1	1	48	84
Total	58	122	8	20	9	1	72	290

Figure 3.5 - Risk Profile Based on Water Treatment System Classification



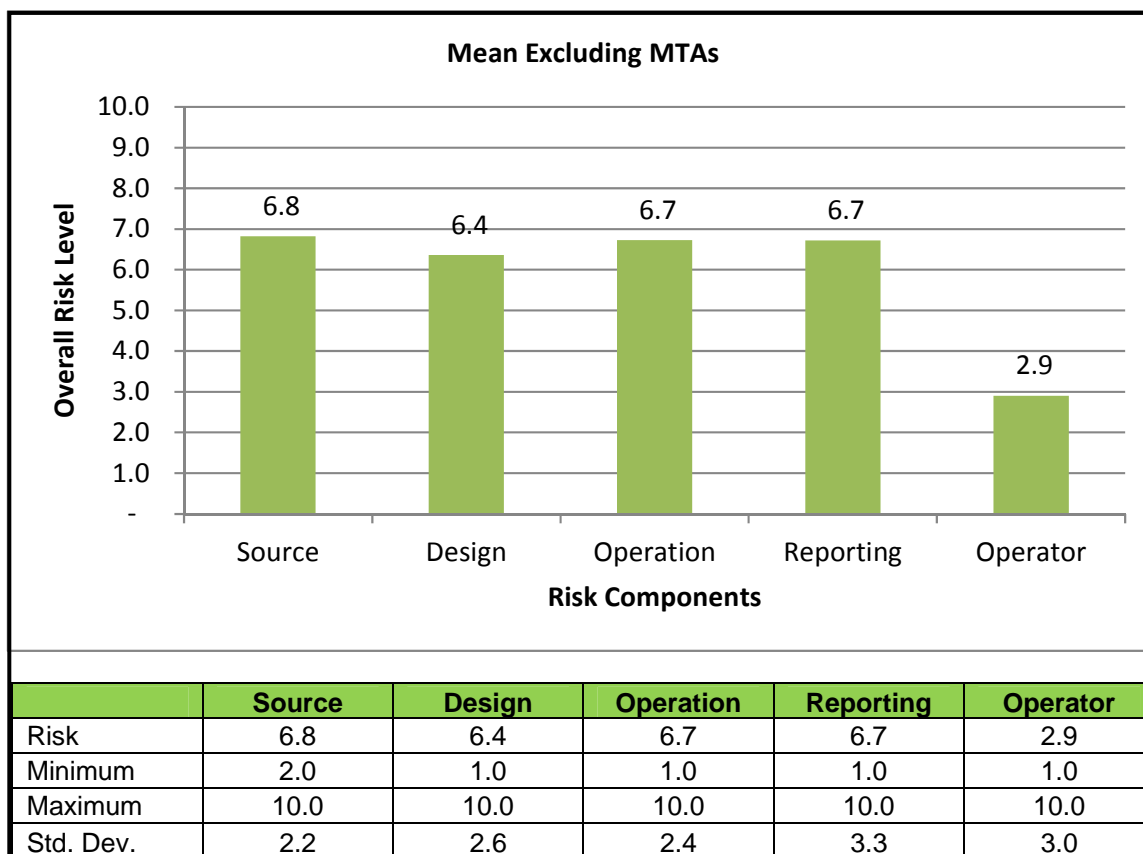
3.3.3 Overall Risk by Number of Connections

For the British Columbia region, systems serving more than 100 connections are evenly split between low, medium and high overall risk. For systems serving less than 100 connections, over 50% of the systems are high risk and the remaining systems are fairly evenly split between low and medium overall risk.

3.3.4 Component Risks: Water

The overall risk is comprised of five component risks: water source, design, operation, reporting and operator. Each of these component risk factors is discussed below.

Figure 3.6 - Water: Risk Profile Based on Risk Components (with MTA's excluded)



3.3.5 Component Risk - Water: Source

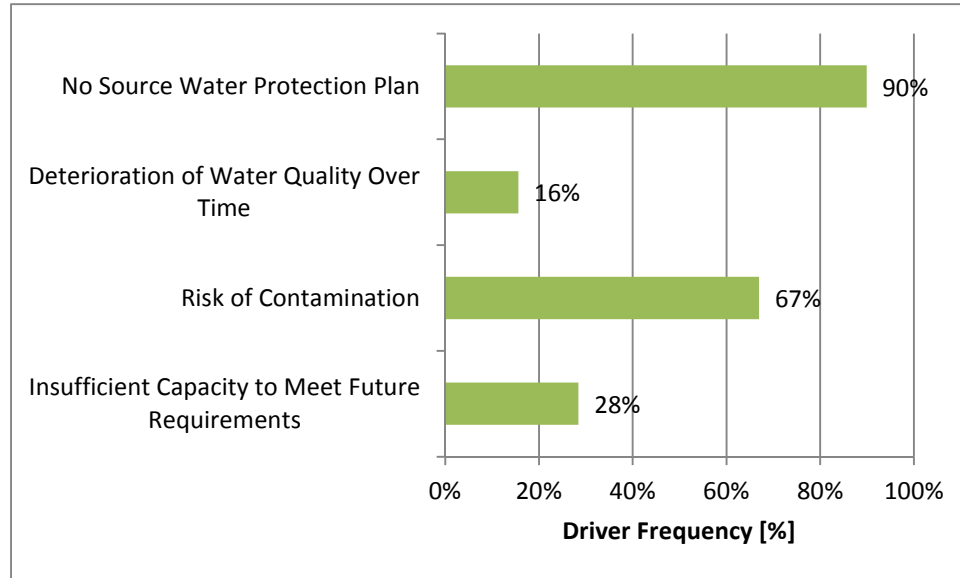
Source Risk has a mean score of 5.6 or 6.8 if MTA's are excluded. The mean source risk score by type of source is:

- Groundwater at 6.0
- groundwater under the direct influence of surface water (GUDI) at 8.5
- surface water at 8.9
- Municipal Type Agreement (MTA) at 1.9.

Based upon the data collected, systems which rely on GUDI or surface water typically have a higher component risk score than systems that rely on groundwater. The INAC risk formula automatically assigns a higher base risk to these types of systems.

The following figure identifies drivers contributing to source risk scores.

Figure 3.7 - Source Risk Drivers



3.3.6 Component Risk - Water: Design

Design Risk has a mean score of 5.5 overall, or 6.4 if MTA’s are excluded. The mean design risk score by type of source is:

- groundwater at 6.9
- groundwater under the direct influence of surface water (GUDI) at 6.9
- surface water at 4.4
- Municipal Type Agreement (MTA) at 2.8.

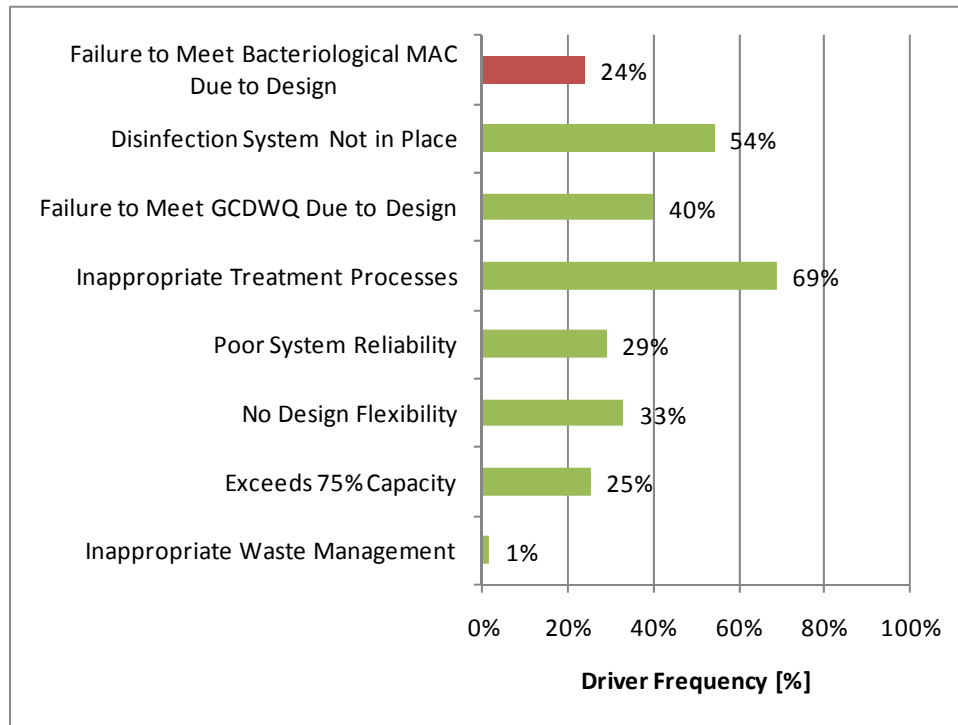
The higher design risk associated with groundwater and GUDI systems is generally attributed to a lack of adequate treatment to ensure that health limits, aesthetic limits and operational guidelines were being met. As part of the multi-barrier approach to water treatment, disinfection is now required for all water systems, and chemically assisted filtration and disinfection is required for GUDI and surface water sources.

Similarly, failure to meet Guidelines for Canadian Drinking Water Quality and exceeding the Maximum Acceptable Concentration of bacteria are also frequent drivers of elevated design risk scores.

The frequency that the following drivers are having a significant contribution to the design risk score for water systems in the region is presented in the figure below:

- failure to meet the *Guidelines for Canadian Drinking Water Quality* (GCDWQ)
- exceeding the GCDWQ Maximum Acceptable Concentration (MAC) for bacteria
- no disinfection system in place or a disinfection system that is not being used
- appropriate treatment not in place to meet Protocol requirements
- problems with system reliability
- systems approaching or exceeding design capacity
- systems not having appropriate waste management.

Figure 3.8 - Design Risk Drivers



It should be noted that the design risk drivers shown in red result in the entire water system being given a high risk score regardless of all of the other component risk scores.

3.3.7 Component Risk - Water: Operation

Operation Risk has a mean score of 6.4 or 6.7 if MTA’s are excluded. The mean operation risk score by type of source is:

- groundwater at 7.2
- groundwater under the direct influence of surface water (GUDI) at 6.7
- surface water at 5.2
- Municipal Type Agreement (MTA) at 5.4.

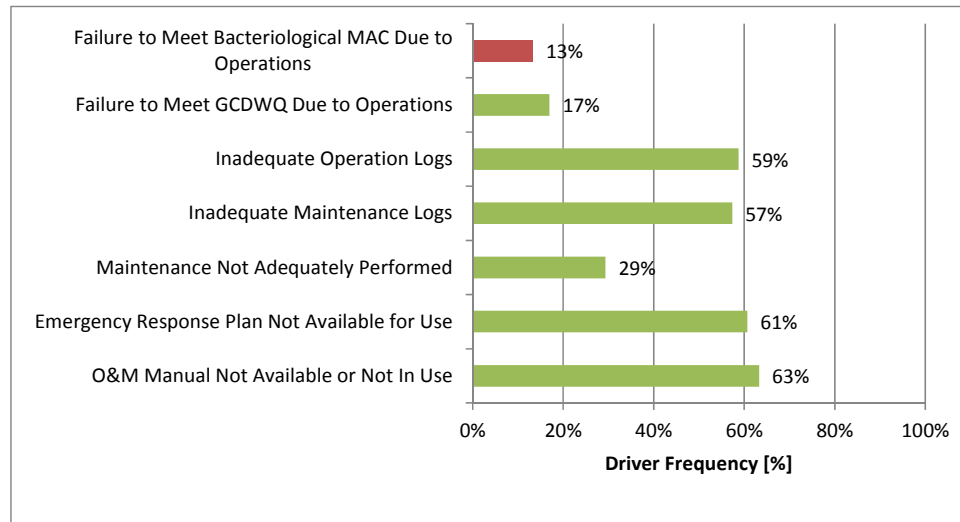
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Areas that increased risk included not maintaining records, not having or not using approved Operations & Maintenance manuals, not having an Emergency Response Plan, and not scheduling and performing maintenance activities. Increased effort focused on these areas would result in lowering both the component and overall risk scores.

The following drivers are identified as significantly contributing to operation risk scores for water systems in the region:

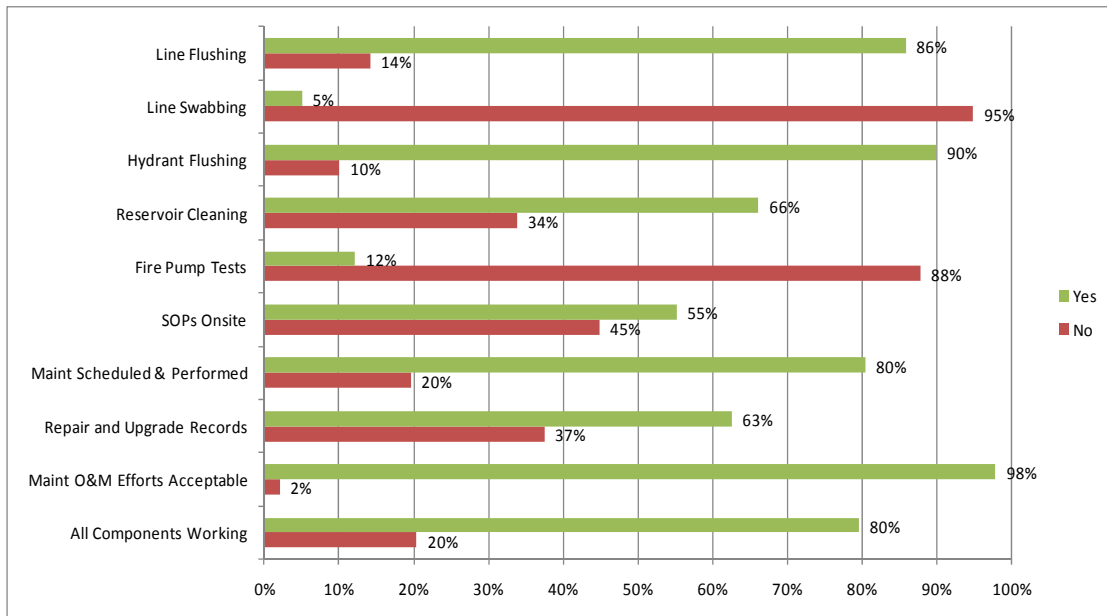
- failure to meet the *Guidelines for Canadian Drinking Water Quality* (GCDWQ)
- exceeding the GCDWQ Maximum Acceptable Concentration (MAC) for bacteria
- maintenance logs being inadequately maintained
- lack of general system maintenance
- Emergency Response Plan not in place
- Operations & Maintenance manual not available or not in use.

Figure 3.9 - Operations Risk Drivers



In addition, a failure to meet the Maximum Acceptable Concentration of bacteria, attributed to operations is a significant driver of risk, as this parameter automatically results in a high overall risk score for the system.

Figure 3.10 - Summary of Findings - Water Systems Operational Practices



One or more major components are not working for approximately 20% of the systems. Although the operators for approximately 85% of systems practice line and hydrant flushing, most do not regularly swab water mains. Approximately 35% do not clean reservoirs and few test fire pumps. Records of system maintenance and repairs were available for only 63% of the systems.

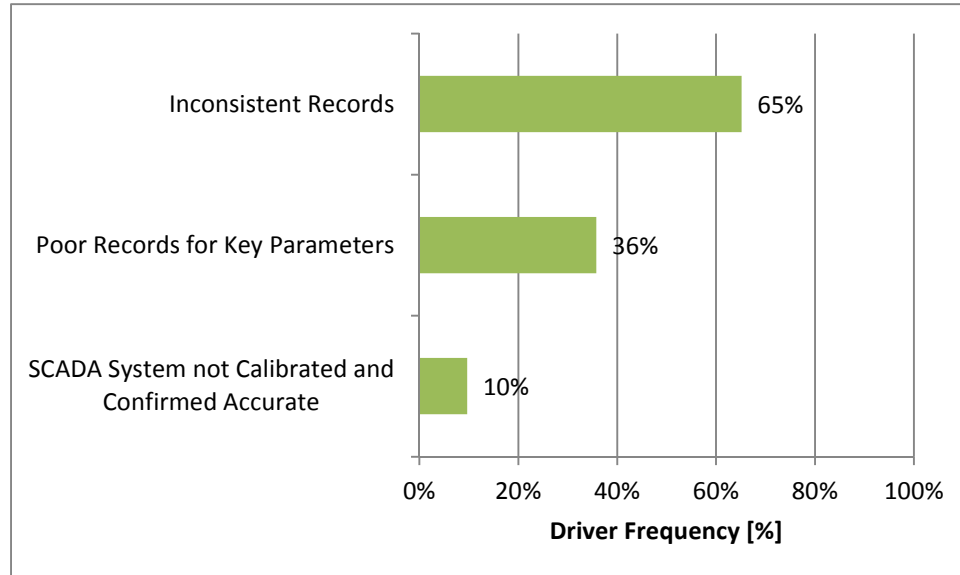
3.3.8 Component Risk - Water: Reporting

Reporting Risk has a mean score of 6.4 overall or 6.7 if MTA’s are excluded. The mean reporting risk score by type of source is:

- groundwater at 7.3
- groundwater under the direct influence of surface water (GUDI) at 5.9
- surface water at 5.0
- Municipal Type Agreement (MTA) at 5.6.

Inconsistent record keeping and reporting is the main driver for reporting risk for all systems (65%), while poor records for key parameters affected 36% of the systems.

Figure 3.11 - Reporting Risk Drivers



3.3.9 Component Risk - Water: Operator

Operator Risk has a mean score of 2.6 overall or 2.8 if MTA’s are excluded. Operator Risk had the lowest overall component risk score for all types of systems.

Although more complicated systems, based on treatment classification, require an operator with a higher level of training, Operator Risk was highest for groundwater systems. This was likely due to the operators not being trained or certified to any level. The mean operator risk score by type of source is:

- groundwater at 3.2
- groundwater under the direct influence of surface water (GUDI) at 2.9
- surface water at 2.1
- Municipal Type Agreement (MTA) at 2.0.

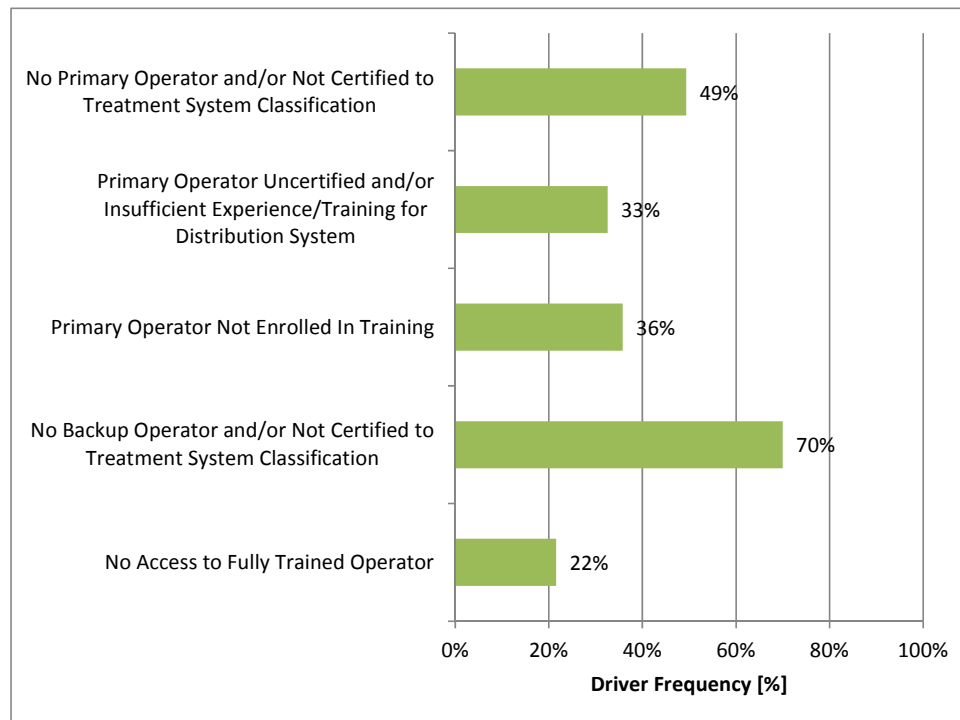
The extent to which existing systems have fully certified primary and backup operators is presented in Table 3.5. Of the 160 systems that require a certified operator for the water treatment system, 49% did not have a fully certified primary operator and 80% did not have a fully certified backup operator. Of the 261 systems that require a certified operator for the distribution system, 37% did not have a fully certified primary operator and 76% did not have a fully certified backup operator.

Table 3.5 - Water - Operator Status for British Columbia Region

	Primary Operator		Backup Operator	
	Treatment	Distribution	Treatment	Distribution
No. of Systems Currently Without an Operator	4	12	45	81
No. of Systems with Operator with No Certification	50	70	67	102
No. of Systems with Operator Certified but not to the Required Level of the System	25	15	16	15
No. of Systems with Operator with Adequate Certification	81	164	32	63
No. of Systems Not Requiring Operators with Certification	130	29	130	29
Total No. of Systems	290	290	290	290

Those factors which frequently contribute to increased operator risk are identified in Figure 3.12. A lack of certification, lack of training and the lack of primary or backup operator are common drivers that increase operator risk.

Figure 3.12 - Operator Risk Drivers



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3.4 Wastewater Risk Evaluation

A risk assessment was completed for each wastewater system according to INAC's *Risk Level Evaluation Guidelines*. The risk of each wastewater facility is ranked according to the following categories: effluent receiver, design, operation and maintenance, reporting, and operators. The overall risk score is a weighted average of the component risk scores.

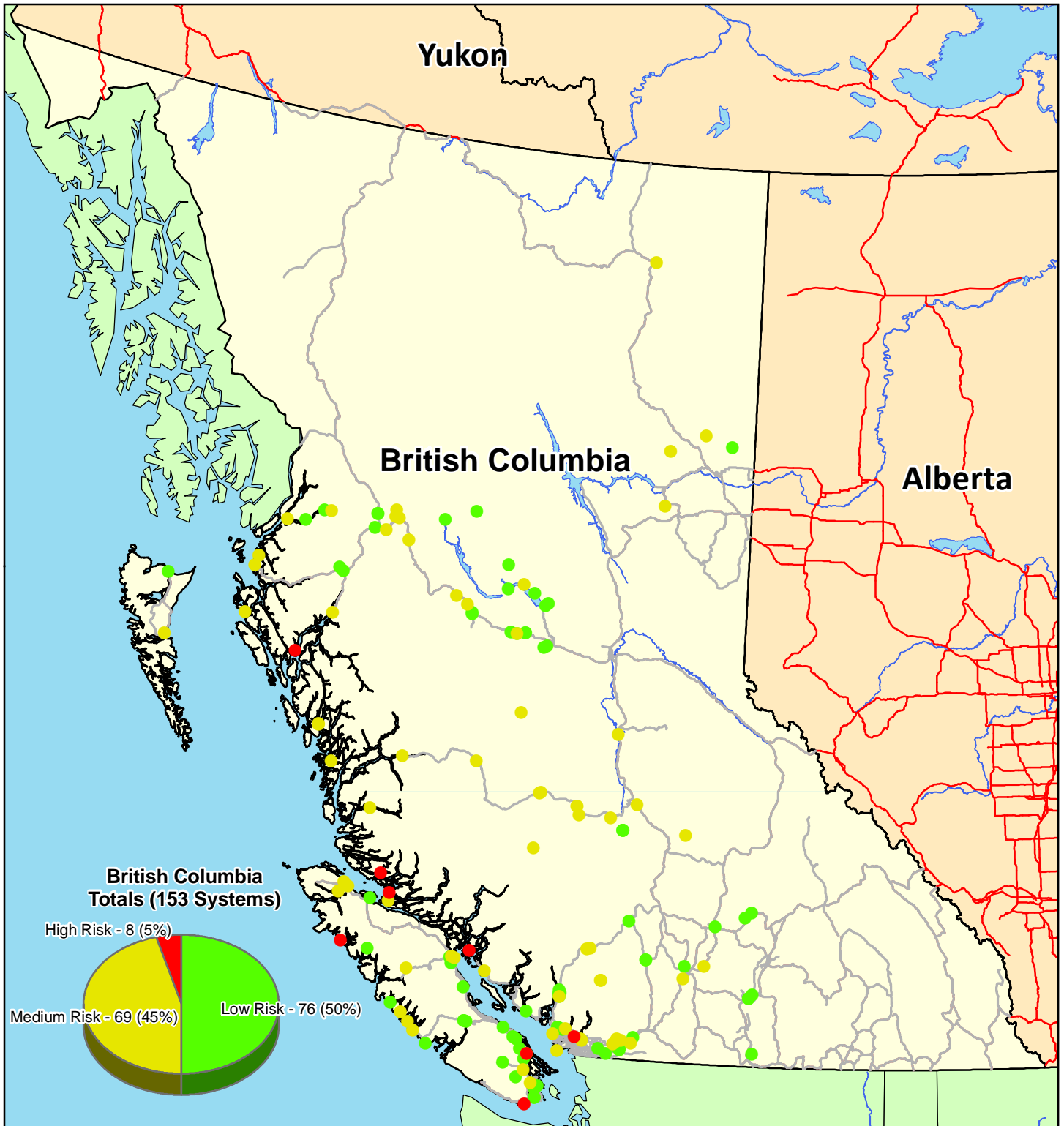
Each of the five risk categories, as well as the overall risk level of the entire system is ranked numerically from 1 to 10. A risk ranking of 1.0 to 4.0 represents low risk, a risk ranking of 4.1 to 7.0 represents a medium risk and a risk of 7.1 to 10.0 represents a high risk.

Of the 153 wastewater systems inspected:

- 8 are categorized as high overall risk
- 69 are categorized as medium overall risk
- 76 systems are categorized as low risk.

A table summarizing the correlation between component risk and overall risk is included in Appendix E.2.

Figure 3.13 provides a geographical representation of the final risk for the wastewater systems that were inspected.

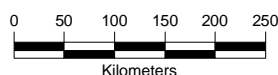
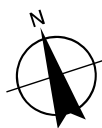


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Wastewater System Risk Level

- High
- Medium
- Low
- British Columbia Roads
- Major National Roads
- Major Lakes

Figure 3.13 - British Columbia Wastewater System Risk



NOTES

This map has been compiled with data of varying scale and accuracy. This is not a plan of survey.

SOURCES

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United States Boundaries © ESRI

Geobase® Aboriginal Lands (First Nations) - Accessed from <http://geobase.ca>.

DISCLAIMER

Neegan Burnside Ltd. and the above mentioned sources and agencies are not responsible for the accuracy of the spatial, temporal, or other aspects of the data represented on this map. It is recommended that users confirm the accuracy of the information represented.

Project: FGY16308
Drawn By: B. Goll

Projection: Geographic,
Canada LCC



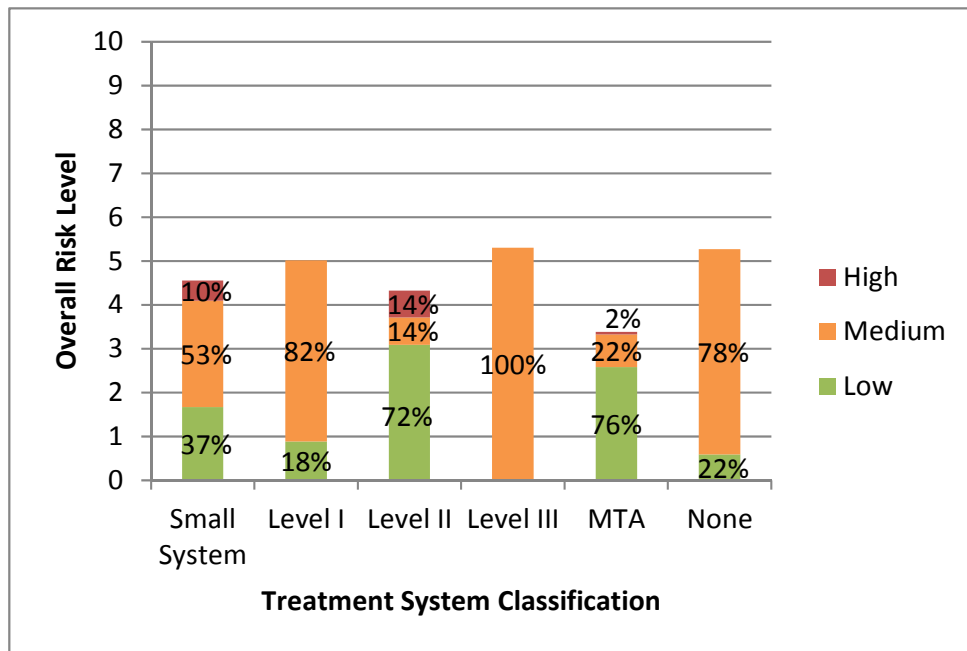
Indian and Northern
Affairs Canada Affaires indiennes
et du Nord Canada

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3.4.1 Overall System Risk by Treatment Classification

The following table demonstrates the correlation between the overall system risk and the classification level of the treatment system. For Municipal Type Agreement systems, it was assumed that the municipality is operating their system in accordance with provincial legislation and therefore results in a low risk effluent receiver. For the British Columbia region, it appears that the MTA systems are the most likely to be low risk. Although treatment complexity increases from Small System to Level III, this did not appear to be a driver for overall system risk. Level II plants are the most likely to be high risk, although a significant portion of the simpler systems are more likely to be medium or high risk when compared to the Level II plants.

Figure 3.14 - Risk Profile based on Wastewater Treatment System Classification



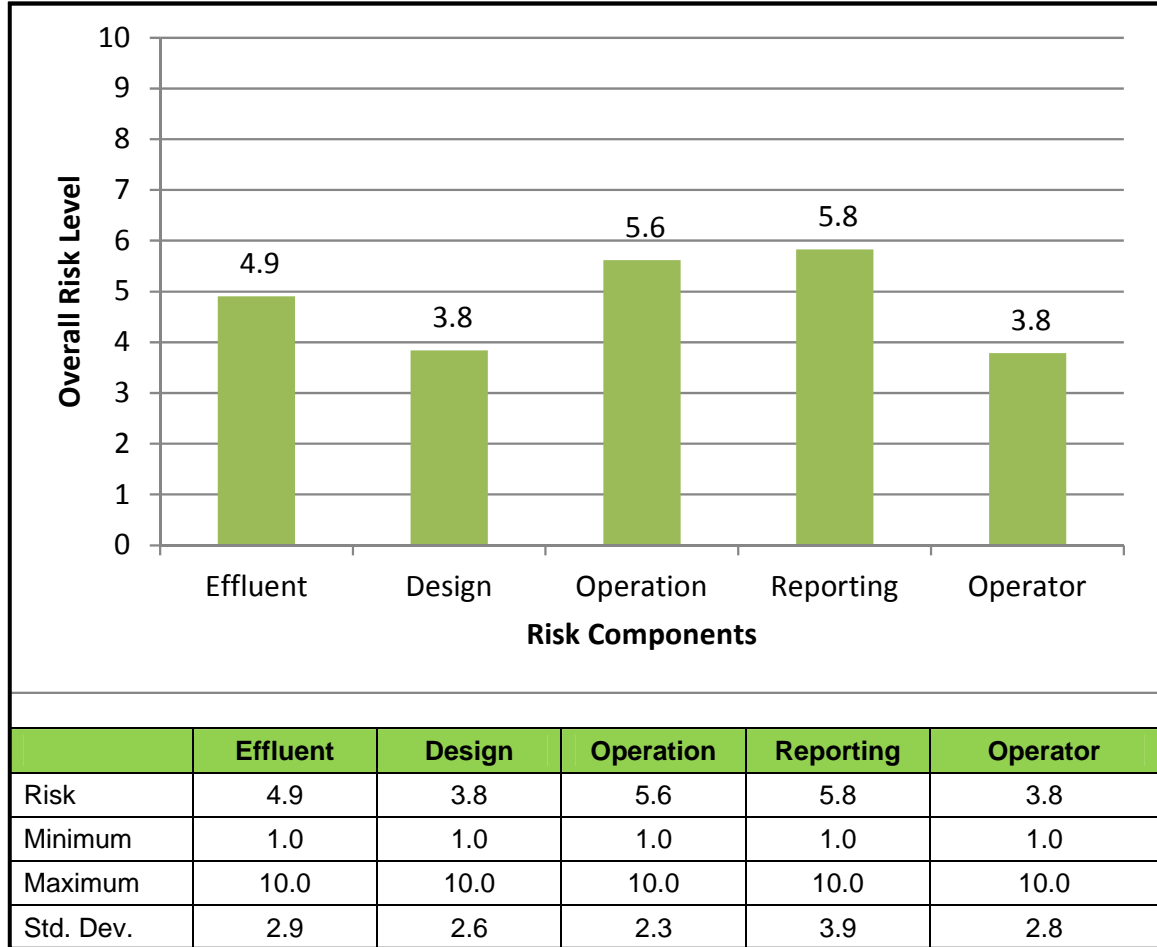
3.4.2 Overall System Risk by Number of Connections

For the British Columbia region, all of the high risk wastewater systems serve less than 100 connections. The systems serving 100 or more connections are spread evenly between low and medium risk. The systems serving less than 100 connections are generally more likely to be low risk.

3.4.3 Component Risks: Wastewater

The overall risk is comprised of five component risks: effluent receiver, design, operation, reporting and operators. Each of these component risk factors is discussed below.

Figure 3.15 - Wastewater: Risk Profile Based on Risk Components (with MTA's excluded)



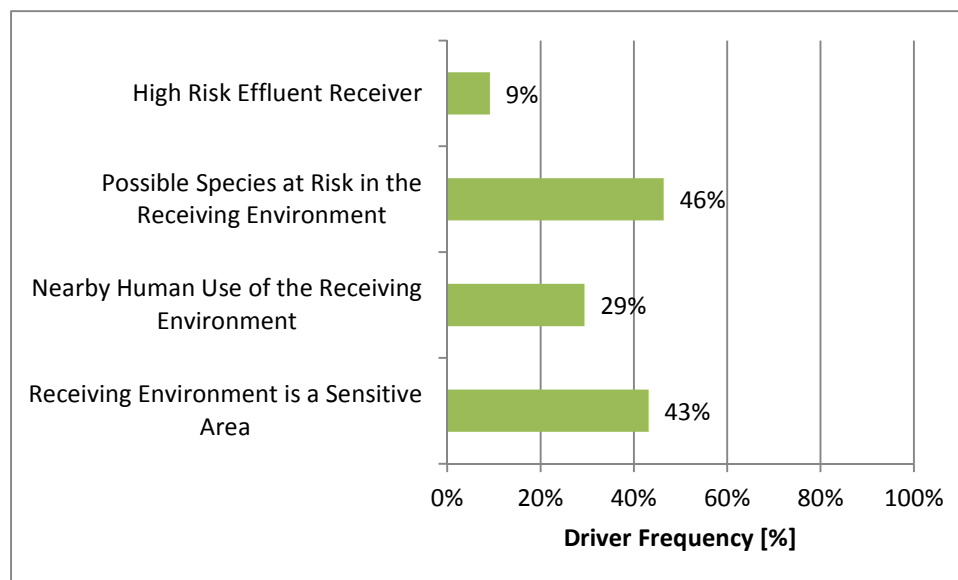
3.4.4 Component Risk - Wastewater: Effluent Receiver

The risk associated with the effluent receiver has a mean risk score of 4.2, or 4.9 if MTA's are excluded. The mean effluent receiver risk score by treatment type is:

- Septic Systems at 3.6
- Facultative Lagoon at 4.7
- Aerated Lagoons at 7.3
- Mechanical Treatment at 7.0
- Other at 3.8
- Municipal Type Agreement (MTA) at 3.1.

The data indicates that the aerated lagoon and mechanical treatment facilities possess higher effluent receiver risk. There are two key drivers to this risk score. They are the receiving environment and the extent to which the receiver is required to support other human uses such as fishing, recreational use or as a drinking water source.

Figure 3.16 - Effluent Risk Drivers



3.4.5 Component Risk - Wastewater: Design

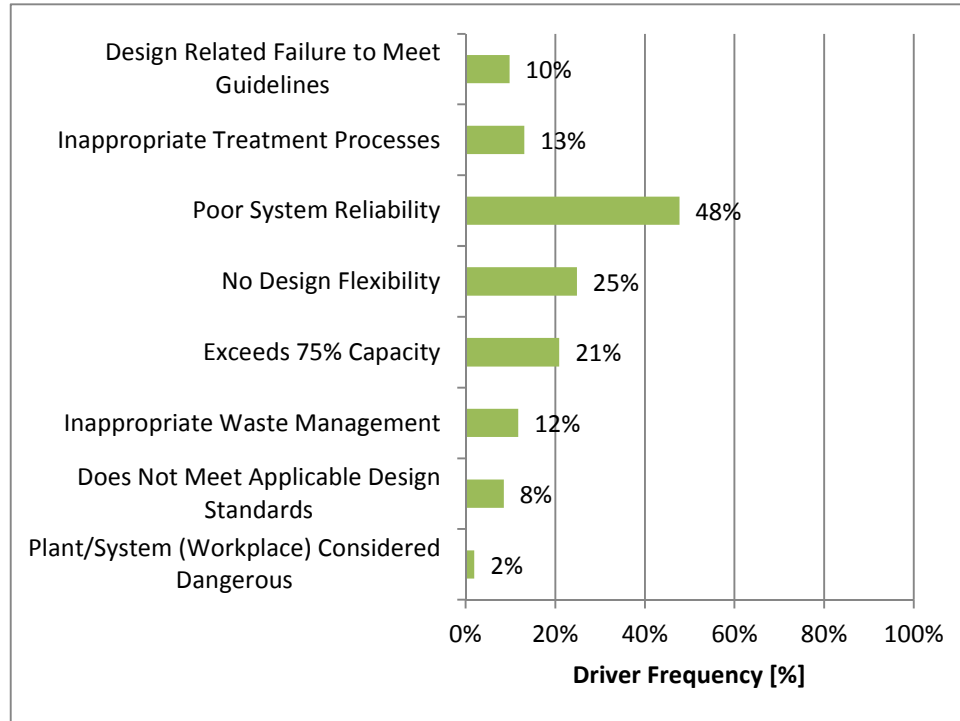
Design Risk has a mean score of 3.1, or 3.8 if MTA's are excluded. Design risk has the lowest mean component risk score. The mean design risk score by treatment type is:

- Septic Systems at 4.2
- Facultative Lagoon at 2.6
- Aerated Lagoons at 2.7
- Mechanical Treatment at 4.6
- Other at 4.5
- Municipal Type Agreement (MTA) at 2.0.

There are several key drivers of the design risk component score in the region, including:

- problems with system reliability
- system lacks the flexibility to meet future growth
- system has exceeded the design capacity
- inappropriate treatment process
- inappropriate waste management
- design related failure to meet effluent guidelines.

Figure 3.17 - Design Risk Drivers



3.4.6 Component Risk - Wastewater: Operation

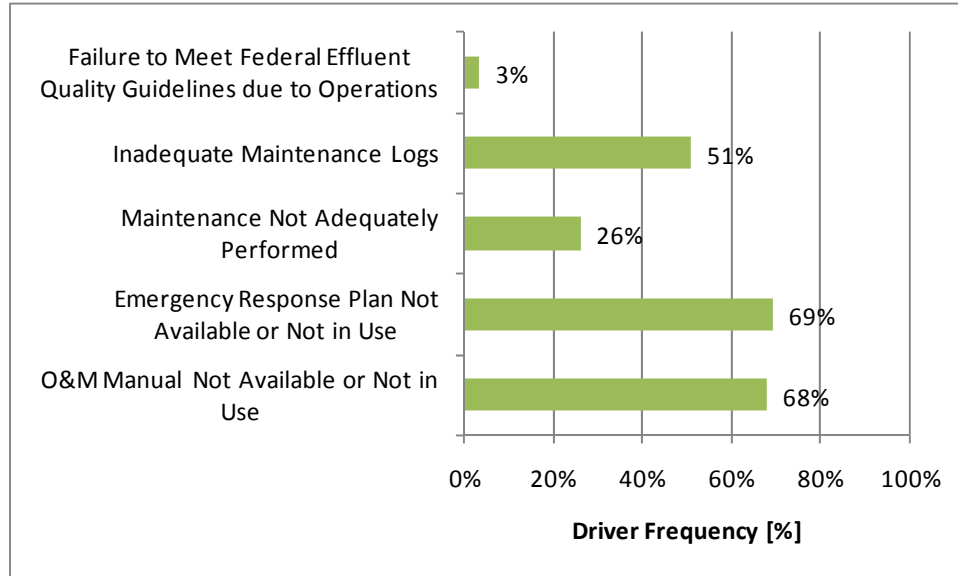
Operation Risk has a mean score of 5.4, or 5.6 if MTA's are excluded. Most of the wastewater systems have a medium or high risk score. This is identified as an area of opportunity for increased risk mitigation efforts. The mean operation risk score by treatment type is:

- Septic Systems at 5.8
- Facultative Lagoon at 5.0
- Aerated Lagoons at 5.0
- Mechanical Treatment at 5.3
- Other at 8.1
- Municipal Type Agreement (MTA) at 5.2.

The following drivers are identified as significantly contributing to operation risk scores for wastewater systems in the Region:

- failure to meet Federal Effluent Guidelines
- inadequate maintenance logs
- general maintenance not being performed adequately
- Emergency Response Plans not in place or not being used
- Operations & Maintenance manuals not available or not in use.

Figure 3.18 - Operation Risk Drivers



3.4.7 Component Risk - Wastewater: Reporting

Reporting Risk has a mean score of 5.3, or 5.8 if MTA’s are excluded. Reporting risk is associated with the maintenance of records of effluent testing and system monitoring. Poor record keeping is a significant factor in raising the overall risk ranking for many systems in this region. The mean reporting risk score by treatment type is:

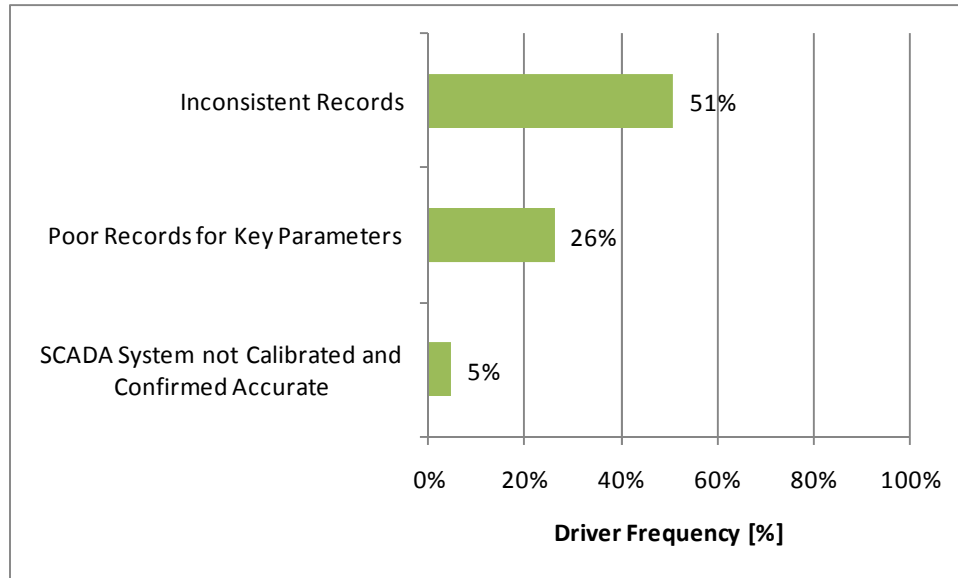
- Septic Systems at 5.8
- Facultative Lagoon at 4.2
- Aerated Lagoons at 5.3
- Mechanical Treatment at 6.1
- Other at 10.0
- Municipal Type Agreement (MTA) at 4.4.

74 systems have a low risk; 24 systems have a medium risk and 55 systems have a high reporting risk score.

There are two key drivers that contribute to reporting risk in the region:

- inconsistent record keeping
- inconsistent records for key parameters.

Figure 3.19 - Reporting Risk Drivers



3.4.8 Component Risk - Wastewater: Operator

Operator Risk has a mean score of 3.4, or 3.8 if MTA’s are excluded. Operator risk is associated with the certification of operators. The mean operator risk score by treatment type is:

- Septic Systems at 4.0
- Facultative Lagoon at 3.6
- Aerated Lagoons at 3.6
- Mechanical Treatment at 3.1
- Other at 4.3
- Municipal Type Agreement (MTA) at 2.8.

90 systems have a low operator risk, 49 systems have a medium operator risk and 14 systems have a high operator risk. Of the eight systems in the region with high overall risk, half have a high operator risk, and all have a medium operator risk or higher.

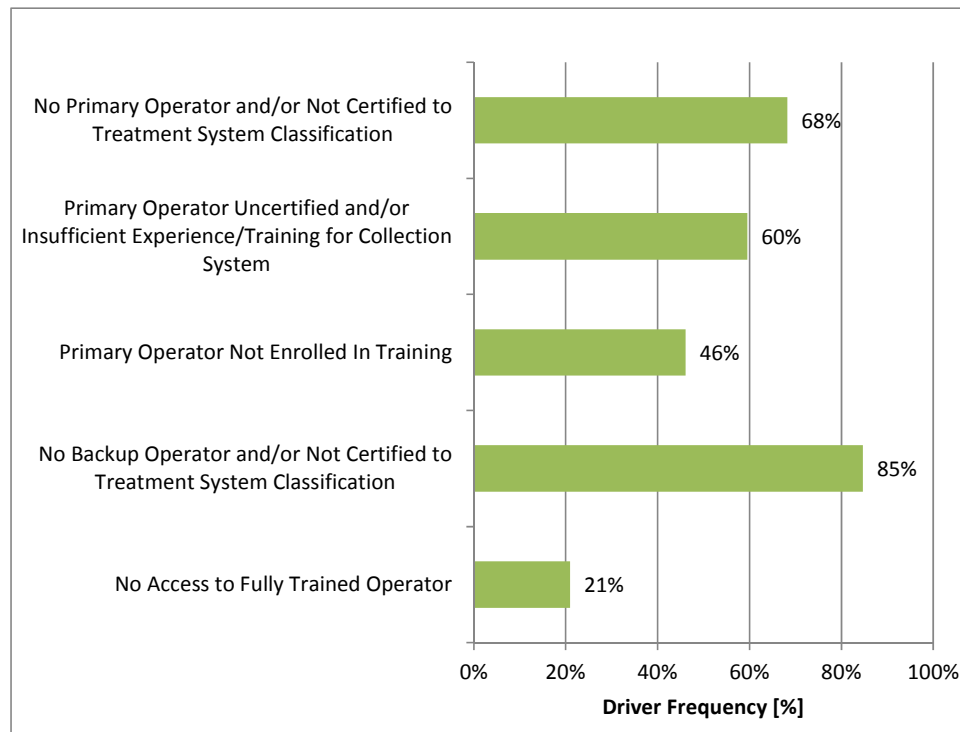
The extent to which existing wastewater systems have fully certified primary and backup operators is presented in Table 3.6. Of the 85 systems which require a certified operator for the wastewater treatment system, 68% did not have a fully certified primary operator and 94% did not have a fully certified backup operator. Of the 131 systems which require a certified operator for the collection system, 66% did not have a fully certified primary operator and 88% did not have a fully certified backup operator.

Table 3.6 - Wastewater - Operator Status for British Columbia Region

	Primary Operator		Backup Operator	
	Treatment	Collection	Treatment	Collection
No. of Systems Currently Without an Operator	0	8	30	48
No. of Systems with Operator with No Certification	49	66	42	60
No. of Systems with Operator Certified but not to the Required Level of the System	9	12	8	7
No. of Systems with Operator with Adequate Certification	27	45	5	16
No. of Systems Not Requiring Operators with Certification	68	22	68	22
Total No. of Systems	153	153	153	153

Those factors which frequently contribute to increased wastewater operator risk are identified in Figure 3.20. A lack of certification, lack of training and the lack of primary or backup operator are common drivers that increase operator risk.

Figure 3.20 - Operators Risk Drivers



3.5 Plans

Information was collected regarding the availability of various documents including Source Water Protection Plans (SWPP), Maintenance Management Plans (MMP), Operations and Maintenance manuals and Emergency Response Plans (ERP). The following tables provide a summary of the percentages of First Nations that have plans in place.

Table 3.7 - Plans Summary: Water

Source	Percentage of Water Systems that have a (an)...		
	Source Water Protection Plan	Maintenance Management Plan	Emergency Response Plan
Groundwater	10%	26%	40%
Groundwater GUDI	7%	27%	20%
MTA	N/A	19%	33%
Surface Water	13%	48%	50%
Overall	10%	28%	39%

Table 3.8 - Plans Summary: Wastewater

Percentage of Wastewater Systems that have a (an)...	
Maintenance Management Plan	Emergency Response Plan
31%	31%

3.5.1 Source Water Protection Plan (SWPP)

Source water protection planning is one component in a multi-barrier approach to providing safe drinking water. Source Water Protection Plans seek to identify threats to the water source, and put in place policies and practices that will prevent contamination of the water source and ensure the water service provider is equipped to take corrective action should a contamination event occur. Source water protection is appropriate for both groundwater and surface water sources.

For the British Columbia Region, 10% of the systems have a Source Water Protection Plan in place.

3.5.2 Maintenance Management Plans (MMP)

Maintenance Management Plans are intended to improve the effectiveness of maintenance activities and are focused on planning, scheduling and documenting preventative maintenance activities, as well as documenting unscheduled maintenance effort. The plans represent a change from reactive to proactive thinking, and when executed properly they optimize maintenance spending, minimize service disruption and extend asset life.

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For the British Columbia Region, 26% of groundwater systems; 27% of GUDI systems and 48% of surface water systems had an MMP in place. For wastewater systems, 31% of the systems have a Maintenance Management Plan in place. The above does not include the MTA's.

3.5.3 Emergency Response Plans (ERP)

Emergency Response Plans are intended to be a quick reference to assist operators and other stakeholders in managing and responding to emergency situations. ERP's should be in place for both water and wastewater systems. ERP's include key contact information for those to be notified, and that may be of assistance (agencies, contractors, suppliers, etc.) as well as standard communication and response protocols. ERP's will identify recommended corrective actions for "foreseeable" emergencies, as well as methodologies for addressing unforeseen situations. ERP's are essentially the last potential "barrier" in a multi-barrier approach to protecting the drinking water supply or natural environment and provide the last opportunity to mitigate damages.

39% of the water systems and 31% of the wastewater systems have an Emergency Response Plan in place.

4.0 Cost Analysis

4.1 Upgrade to Meet Protocol – Water

In 2006, INAC began to develop a series of Protocol documents for centralised and decentralised water and wastewater systems in First Nations communities. The Protocols contain standards for the design, construction, operation, maintenance, and monitoring of these systems.

One of the objectives of this study was to review the existing water and wastewater infrastructure and identify the potential upgrade costs to meet the INAC Protocol, as well as federal guidelines and provincial standards. The total estimated construction cost for water system upgrades to meet the INAC Protocol is \$209 million.

Table 4.1 provides a breakdown of the estimated total construction costs identified. A separate line item is included for engineering and contingency. Figure 4.1 provides a graphical comparison of each of the categories.

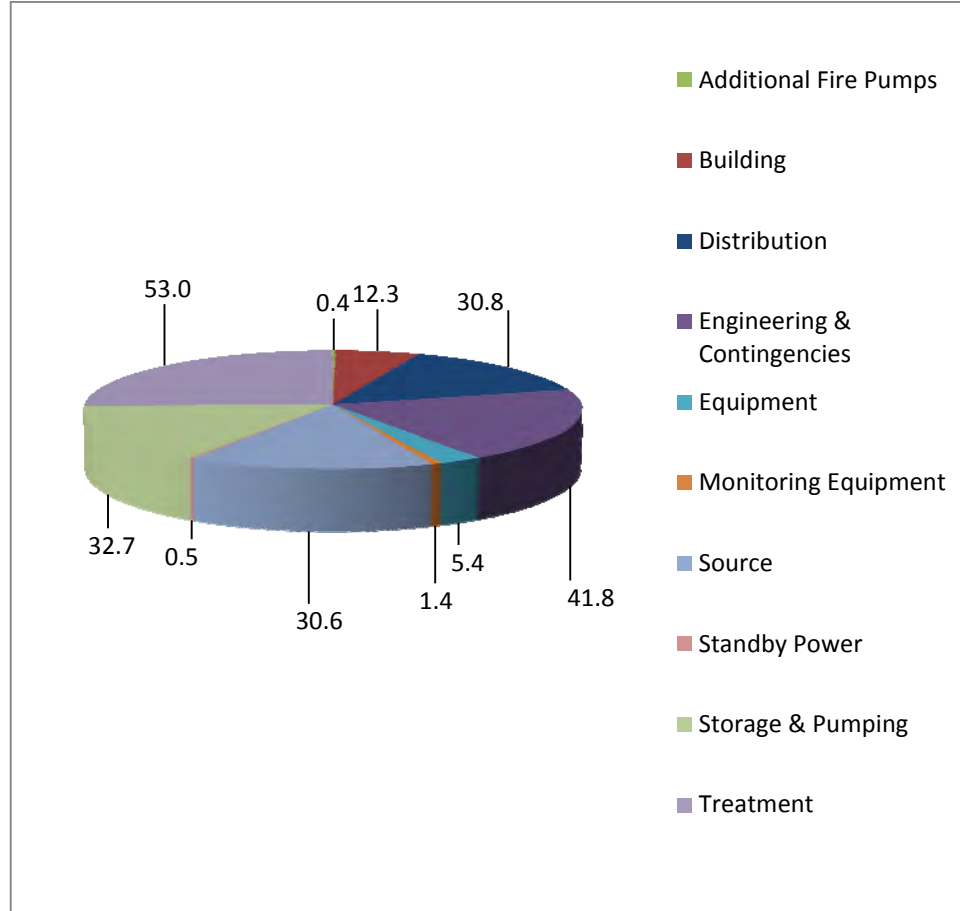
Table 4.1 - Estimated Total Construction Costs (Water)

	Protocol - Estimated Cost	Federal - Estimated Cost	Provincial - Estimated Cost
Building	\$12,320,500	\$8,730,500	\$9,662,500
Distribution	\$30,780,500	\$29,585,000	\$29,585,000
Equipment	\$5,350,000	\$5,289,000	\$5,313,500
Additional Fire Pumps	\$396,000	\$396,000	\$396,000
Monitoring Equipment	\$1,391,000	\$1,377,000	\$1,167,500
Source	\$30,596,500	\$26,179,000	\$26,061,700
Storage & Pumping	\$32,730,000	\$32,509,500	\$32,520,500
Treatment	\$53,000,000	\$43,700,000	\$43,355,000
Standby Power	\$494,500	\$4,500	\$4,500
Engineering & Contingencies	\$41,828,600	\$36,974,100	\$37,076,900
Construction Total Estimate	\$208,887,600	\$184,744,600	\$185,143,100

There are 90 water systems that may potentially have groundwater under the direct influence of surface water (GUDI) supplies. The upgrade costs for these systems have been estimated under the assumption that they will prove to be secure groundwater supplies, but further studies are recommended to confirm this assumption.

If the GUDI studies indicate that these supplies should be considered to be surface water rather than groundwater, then additional upgrade requirements will be necessary for these systems to meet INAC's Protocols. It is estimated that, depending on system capacity and site indices, an additional \$1.0 to \$2.5 million will be required for each system that needs to be upgraded to surface-water treatment.

Figure 4.1 - Breakdown of the Estimated Construction Costs to Meet Protocol (Water) (\$ - M)



The following lists provide a summary of the Protocol items for the three categories with the highest cumulative Protocol costs that are listed above.

Treatment

- Upgrade existing disinfection systems including contact facilities.
- Install disinfection systems (chlorination and UV).
- Provide redundant chemical feed and disinfection equipment.
- Constructing new buildings and water treatment facilities.
- Provide emergency eyewash and showers.
- Provide specific treatment equipment (i.e. arsenic, manganese, etc.).
- Provide contact piping.
- Upgrade capacity of existing water treatment plant.
- Provide standby power.
- Various studies (treatment plant performance).

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Storage and Pumping

- Expand existing reservoir.
- Construct new reservoir.
- Install dechlorination chambers.
- Install new highlift and fire pumps.
- Provide fence for security.
- Provide screens and vents for security.
- Provide standby power.
- Various studies (reservoir leakage, pump capacity).

Distribution

- Complete leakage/leak detection studies.
- Connection of water systems.
- Repair leaks.
- Install contact piping.
- Investigation and replacement of suspect watermain.
- Install isolation valves.
- Loop distribution system.
- Install additional fire hydrants.
- Replace small diameter watermain.

Table 4.2 - Estimated Total Non- Construction Costs (Water)

Description	Protocol - Estimated Cost	Federal Estimated Cost	Provincial - Estimated Cost
Training	\$4,919,000	\$4,919,000	\$4,919,000
GUDI Studies	\$1,772,000	\$1,447,000	\$1,772,000
Plans/Documentation	\$9,632,000	\$9,465,000	\$8,855,000
Studies	\$6,269,000	\$5,329,000	\$5,459,000
Non-Construction Total Estimate	\$22,592,000	\$21,160,000	\$21,005,000

Additional annual operations and maintenance costs, shown in Table 4.3, include costs that occur annually for items that are not currently being completed to meet protocols, such as calibrating monitoring equipment, additional sampling, cleaning the reservoir, and backup operator’s salary.

Table 4.3 - Estimated Additional Annual O&M Costs (Water)

Description	Estimated Cost
Sampling	\$1,464,500
Operations	\$116,500
Operator	\$2,315,000
Water O&M Total Estimated Cost	\$3,896,000

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The total estimated cost, including both construction and non-construction cost, for water system upgrades to meet the INAC Protocol is \$231 million. This excludes costs associated with additional upgrading of potentially GUDI systems which prove to be GUDI systems, as discussed previously.

4.2 Upgrade to Meet Protocol – Wastewater

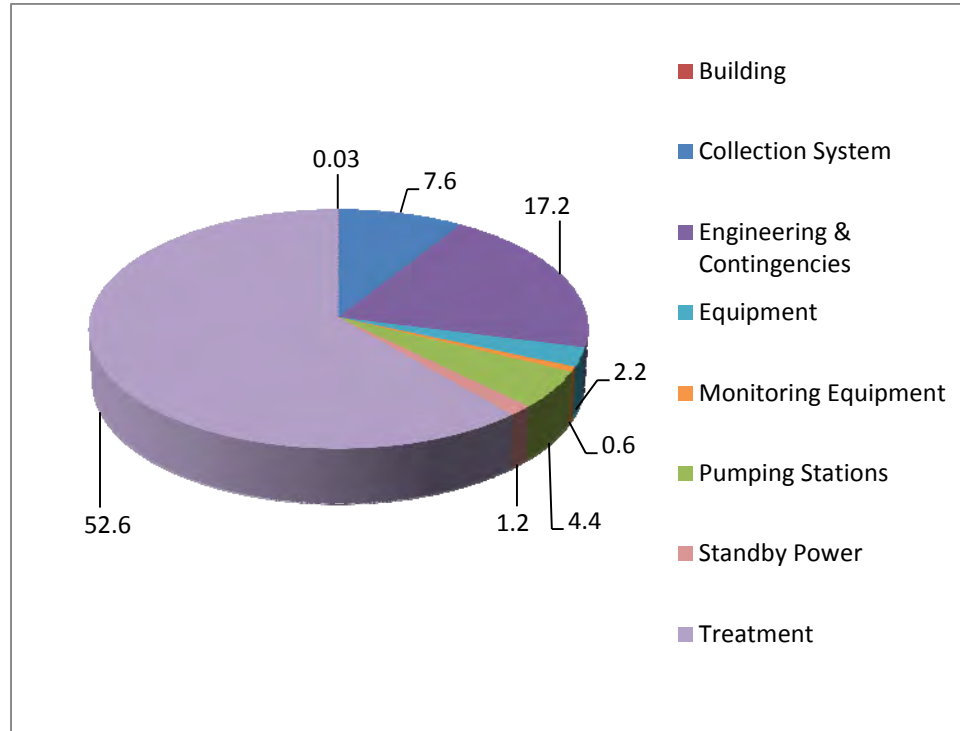
The total construction cost estimate for wastewater system upgrades to meet INAC’s Protocol is \$86 million. Specific needs along with the total cost for each is provided below.

Upgrading treatment capacity, upgrading the collection system and providing standby power represents over 90% of the cost associated with upgrades needed to meet Protocol.

Table 4.4 - Estimated Total Construction and Related Costs (Wastewater)

Description	Protocol - Estimated Cost	Federal - Estimated Cost	Provincial - Estimated Cost
Building	\$25,000	\$25,000	\$25,000
Collection System	\$7,640,000	\$7,555,000	\$7,555,000
Equipment	\$2,216,850	\$2,292,500	\$2,292,500
Monitoring Equipment	\$574,500	\$568,000	\$568,000
Pumping Stations	\$4,467,500	\$4,487,500	\$4,487,500
Treatment	\$52,625,500	\$51,625,500	\$51,625,500
Standby Power	\$1,220,000	\$1,220,000	\$1,220,000
Engineering & Contingencies	\$17,245,300	\$16,992,500	\$16,992,500
Construction Total Estimate	\$86,014,650	\$84,766,000	\$84,766,000

Figure 4.2 - Breakdown of the Estimated Construction Costs to Meet Protocol (Wastewater) (\$ - M)



The following lists provide a summary of the Protocol items for the three categories with the highest cumulative Protocol costs that are listed above.

Treatment

- Repair existing septics.
- Upgrades to existing facilities.
- Construct additional lagoon cell.
- Construct new mechanical treatment facility.
- Provide fence for security.
- Provide flow meter.
- Provide standby power.
- Provide disinfection facilities.
- Studies (sludge disposal, performance).

Collection

- Inflow and Infiltration studies.
- Extend collection system.
- Provide flow meters.
- Replace manholes and pipework.

Table 4.5 - Estimated Total Non-Construction and Related Costs (Wastewater)

Description	Protocol - Estimated Cost	Federal - Estimated Cost	Provincial - Estimated Cost
Training	\$2,705,000	\$2,705,000	\$2,705,000
Plans/Documentation	\$2,360,000	\$2,250,000	\$2,210,000
Studies	\$2,233,000	\$2,143,000	\$2,268,000
Non-Construction Total Estimate	\$7,298,000	\$7,098,000	\$7,183,000

Additional annual operations and maintenance costs, as shown in Table 4.6, include costs that occur annually, for items that are not currently being completed to meet protocols, such as calibrating monitoring equipment, additional sampling, and backup operator’s salary.

Table 4.6 - Estimated Additional Annual O&M Costs (Wastewater)

Description	Estimated Cost
Sampling	\$105,700
Operations	\$50,000
Operator	\$793,000
Wastewater O&M Total Estimated Cost	\$948,700

A number of the coastal First Nations are discharging to the ocean without a permit. Upgrade costs include the cost of obtaining a permit to discharge.

The total estimated cost, including construction and non-construction costs, for wastewater system upgrades is \$93.3 million.

4.3 Upgrade Cost Summary

Table 4.7 provides a summary of the upgrade costs for the Protocol, Federal and Provincial Guidelines.

Table 4.7 - Summary and Comparison of Upgrade Costs

	Total Estimated Cost	
	Water	Wastewater
Upgrade to meet Protocol	\$231,479,600	\$93,312,650
Upgrade to meet Federal Guidelines	\$205,904,600	\$91,864,000
Upgrade to meet Provincial Guidelines	\$206,148,100	\$91,949,000

The following tables present a breakdown of the Protocol upgrade costs by risk level.

Table 4.8 - Breakdown of Protocol Estimated Costs by Risk Level (Water)

Risk Level	Short Term	Long Term	Total
High	\$137,281,387	\$5,075,070	\$142,356,457
Medium	\$46,721,650	\$3,197,856	\$49,919,506
Low	\$37,014,571	\$2,189,067	\$39,203,637
Total	\$221,017,607	\$10,461,993	\$231,479,600

Table 4.9 - Breakdown of Protocol Estimated Costs by Risk Level (Wastewater)

Risk Level	Short Term	Long Term	Total
High	\$7,999,995	\$0	\$7,999,995
Medium	\$61,943,198	\$257,609	\$62,200,807
Low	\$22,455,557	\$656,290	\$23,111,847
Total	\$92,398,750	\$913,900	\$93,312,650

4.4 Asset Condition Reporting System Needs

Asset Condition Reporting System (ACRS) inspections were completed for all water and wastewater related assets. The following table summarizes the ACRS needs identified. For the purposes of this assessment, ACRS needs were limited to required repairs of existing facilities, and did not include any upgrade costs, in order to avoid duplication with the Upgrade to Protocol needs identified. The following two tables (Tables 4.10 and 4.11) provide a summary of the repairs required broken down by asset for both water and wastewater, respectively.

Table 4.10 - ACRS Identified Costs (Water)

Asset Code	Description	Estimated Cost
A5A	Buildings	\$959,490
B1B	Watermains	\$2,040,325
B1C/B1D	Treatment	\$819,400
B1E	Reservoirs	\$1,718,500
B1F	Community Wells	\$1,650,880
B1I	Low Lift Pumping	\$127,450
B1H	High Lift Pumping	\$89,100
B1Z	Other	\$61,950
	Water ACRS Total Estimated Cost	\$7,467,095

Table 4.11 - ACRS Identified Costs (Wastewater)

Asset Code	Description	Estimated Cost
A5B	Buildings	\$150,450
B2A	Sewers	\$1,758,410
B2H/B2J	Lift Stations & Forcemains	\$1,029,665
B2C/B2D	Treatment	\$163,000
B2E/B2I	Lagoons	\$185,000
B2F	Septic Systems	\$288,400
E3A	Trucks	\$50,900
	Wastewater ACRS Total Estimated Cost	\$3,625,825

4.5 Community Servicing

An analysis was completed to evaluate future servicing alternatives for a 10 year design period. Alternatives considered include expanding existing systems, developing new systems, establishing local Municipal Type Agreements (if applicable), and use of individual systems. A theoretical operations and maintenance cost has been developed for each alternative along with a 30 year life cycle cost. The cost for upgrades to meet protocol is included in the new servicing cost, if appropriate, i.e. for new servicing alternatives that included continued use of the existing system. A summary of the capital cost along with the estimated O&M cost for the recommended servicing alternatives are shown below.

Table 4.12 - Future Servicing Costs

	Total Estimated Cost		Cost Per Connection	
	Water	Wastewater	Water	Wastewater
Future Servicing Cost	\$400,000,000	\$310,000,000	\$13,700	\$10,500
Annual O&M to service future growth	\$50,200,000	\$31,600,000	\$1,700	\$1,100

The evaluation of future servicing included continuing to service the existing population with the same level of service that was currently in place and then evaluating the options for providing service to the future 10 year growth for the community.

Predominantly, it was found that the life cycle costs for extending piped water and wastewater servicing for the future growth was the most cost effective solution. This assumes that future homes would be constructed in a compact setting adjacent to the existing serviced area. This assumption, however, will need to be confirmed through detailed studies for each community.

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January 2011

5.0 Regional Summary

In the British Columbia region 188 of 198 First Nations participated in the study and were visited during the completion of this project. The 188 First Nations were serviced by 290 water systems (including 72 Municipal Type Agreement systems) and 153 wastewater systems (including 59 Municipal Type Agreement systems).

In the British Columbia region, 96% of the homes are serviced by communal water (95% piped and 1% trucked) and the remaining 4% are serviced by individual wells or have no service.

The region is characterized by many small communities; one third of the communities have a population of less than 100 people, and two thirds of the communities have a population of less than 300 people.

The majority of the water systems are groundwater, with 40% of the systems relying on direct use of water without treatment or disinfection.

There are 72 First Nations serviced by Municipal Type Agreement systems. Four First Nations provide water to municipalities as well as the First Nation community.

Of the 153 wastewater systems, 42 are communal septic systems, 31 are either facultative or aerated lagoons, 11 are mechanical treatment, 59 are Municipal Type Agreement systems, 8 are "other" and 2 are "none". In addition, 32% of the homes are serviced by individual systems or have no service.

There are a number of coastal communities that discharge wastewater directly to the ocean without a permit or monitoring, which is an environmental and a health concern.

There are 154 high-risk water systems and eight high-risk wastewater systems in the British Columbia region. Although there are multiple factors that contribute to risk, design and operational concerns are given the most weight, particularly when the concern is related to the protection of public health or the environment. The high risk systems in the region typically require system upgrades or improved operational procedures to meet the guidelines for treated water quality or sewage effluent quality.

Another area to be addressed would be the lack of planning tools including Source Water Protection Plans, Operations & Maintenance Manuals, Maintenance Management Plans and Emergency Response Plans.

First Nations commented that current O&M budgets are often insufficient to retain operators, to provide ongoing component replacement, and to perform all of the monitoring and recording requirements.

Wastewater sampling prior to effluent discharge appears to be an area where a significant impact on the overall risk could be addressed. Sampling, testing and recording of effluent quality and volumes prior to and during discharge would result in reducing the reporting risk for these systems.

Appendix A
Glossary

Appendix A: Glossary of Terms and Acronyms

Aeration (see also lagoon): The process of bringing air into contact with a liquid (typically water), usually by bubbling air through the liquid, spraying the liquid into the air, allowing the liquid to cascade down a waterfall, or by mechanical agitation. Aeration serves to (1) strip dissolved gases from solution, and/or (2) oxygenate the liquid. (Gowen Environmental)

Aesthetic Objective (AO): Aesthetic objectives are set for drinking water quality parameters such as colour or odour, where exceeding the objective may make the water less pleasant, but not unsafe. (INAC *Protocol for Decentralised Water and Wastewater*)

Ammonia (See also: Potable water; Effluent quality requirements): A pungent colorless gaseous alkaline compound of nitrogen and hydrogen (NH₃) that is very soluble in water and can easily be condensed to a liquid by cold and pressure (*Merriam-Webster*). Ammonia is used in several areas of water and wastewater treatment, such as pH control. It is also used in conjunction with chlorine to produce potable water. The existence of ammonia in wastewater is common in industrial sectors as a by-product of cleaning agents. This chemical impacts both human and environmental conditions. Treatment of ammonia can be completed in lagoon systems and mechanical plants. (R.M. Technologies)

Arsenic: A metallic element that forms a number of compounds. It is found in nature at low levels, mostly in compounds with oxygen, chlorine, and sulphur; these are called inorganic arsenic compounds. Organic arsenic in plants and animals combines with carbon and hydrogen. Inorganic arsenic is a human poison. Organic arsenic is less harmful. High levels of inorganic arsenic in food or water can be fatal. (Medicinenet.com)

Aquifer (confined): A layer of soil or rock below the land surface that is saturated with water. There are layers of impermeable material both above and below it, and it is under pressure so that when the aquifer is penetrated by a well, the water will rise above the top of the aquifer. (INAC *Protocol for Decentralised Water and Wastewater Systems*)

Aquifer (unconfined): An unconfined aquifer is one whose upper water surface (water table) is at atmospheric pressure, and thus is able to rise and fall. (INAC *Protocol for Decentralised Water and Wastewater Systems*)

As-built/record drawings: Revised set of drawing submitted by a contractor upon completion of a project or a particular job. They reflect all changes made in the specifications and working drawings during the construction process, and show the exact dimensions, geometry, and location of all elements of the work completed under the contract. Also called as-built drawings or just as-builts.

ACRS Inspection (Asset Condition Reporting System Inspection): For centralised water and wastewater systems, an ACRS (asset condition reporting system) inspection of the system is to be performed once every three (3) years by a qualified person (consulting engineer, Tribal Council engineer), who is not from the First Nation involved, to assess the condition of the asset, adequacy of maintenance efforts, and need for additional maintenance work. The ACRS inspection report will be discussed with, and submitted to, the First Nation council and the INAC regional office. Inspections will be conducted in accordance with the ACRS Manual, a copy of which can be obtained from the INAC regional office.

Bacteria (plural) bacterium (singular): Microscopic living organisms usually consisting of a single cell. Bacteria can aid in pollution control by consuming or breaking down organic matter in sewage and/or other water pollutants. Some bacteria may also cause human, animal, and plant health problems. Bacteria are predominantly found in the intestines and feces of humans and animals. The presence of *coliform* bacteria in water indicates the contamination of water by raw or partially treated sewage. (*INAC Protocol for Decentralised Water and Wastewater Systems*)

Baffle (concrete and/or curtain): Vertical/horizontal impermeable barriers in a pond or reservoir. Baffles direct the flow of water into the longest possible path through the reservoir in order to eliminate short-circuiting in the water treatment system. In potable water treatment, short-circuiting can reduce the effectiveness of disinfectants. In effluent treatment, short-circuiting may result in an increase of pollutants at the outlet. Short-circuiting occurs when water flows directly from the inlet to the outlet across a pond or reservoir. (Layfield)

BOD₅ (Biochemical Oxygen Demand): The most widely used parameter of organic pollution applied to both wastewater and surface water is the 5-day BOD (BOD₅). This determination involves the measurement of the dissolved oxygen used by microorganisms in the biochemical oxidation of organic matter. BOD test results are used to: determine the approximate quantity of oxygen that will be required to biologically stabilize the organic matter present; to determine the size of waste treatment facilities; to measure the efficiency of some treatment processes; and to determine compliance with wastewater discharge permits. (Metcalf & Eddy)

Capacity (actual vs. design): Refers to the capacity of the treatment system, with the “design capacity” being the flow rate proposed by the designer or manufacturer. If the system is not operating to design levels, the “actual capacity” could be limited by failing pumps, clogged filters or not meeting the Protocol (i.e. Protocol requires two filter trains such that one could operate while another is being cleaned/repared and this was previously not explicitly required; therefore, the actual capacity is half of the design capacity).

Chemical feed equipment: All equipment associated with introducing chemicals to the raw water as part of the treatment process including coagulants, coagulant aids, disinfectants, etc.

Chlorine: A disinfectant used in either gas or liquid form that is added to water to protect the consumer from bacteria and other micro-organisms. It is widely used because it is inexpensive and easily injected into water. Because of its concentration, a gallon can treat a large amount of water. However, chlorine use does have drawbacks: when chlorine is used as a disinfectant it combines with naturally occurring decaying organic matter to form Trihalomethanes (THMs). (Vital Life Systems)

Chlorination: The application of chlorine to water, sewage or industrial wastes for disinfection (reduction of pathogens) or to oxidize undesirable compounds. (City of Toronto)

Chlorine Residual: The chlorine level in potable water immediately after it has been treated. (Ontario Ministry of the Environment)

Circuit Rider (see also Circuit Rider Training Program): Under the department's Circuit Rider Trainer Program (CRTP) INAC provides funds to engage circuit riders (third party water and wastewater system experts who provide water and wastewater system operators with on-site, mentoring, training, and emergency assistance). The third-party service providers that provide circuit rider services also provide operators with a 24/7 emergency hotline. (INAC *Protocol for Centralised Wastewater Systems in First Nations Communities*)

Circuit Rider Training Program: The main vehicle by which most First Nations operators receive the required training to operate their systems. This program provides qualified experts who rotate through a circuit of communities, providing hands-on training for the operators on their own system. Circuit rider trainers also help the First Nations with minor troubles and issues of operation and maintenance of their systems. (INAC *Plan of Action*)

Cistern: A tank for storing potable water or other liquids, usually placed above the ground. (Bow River Basin Council, cited in Alberta Environment *Glossary*)

Class “D” Cost Estimates: A preliminary estimate, for each community visited, based on available site information, which indicates the approximate magnitude (+/- 40%) of the cost of the actions recommended in the report, and which may be used in developing long-term capital plans and for a preliminary discussion of proposed capital projects.

Collection piping: Sanitary sewer collecting wastewater from individual buildings and homes, for treatment and disposal at a public facility.

Component risk / component risk factors: The overall risk is determined by five component risks: water source/effluent, design, operation, reporting, and operator.

Community Health Representatives (CHRs): Health Canada's local health representatives. They undertake bacteriological and chlorine residual sampling of distributed water within most First Nation communities.

Contact piping: Dedicated watermain to provide chlorine contact time before potable water is distributed to the first user.

Containment liners (for on-site fuel storage): A form of secondary containment used for diesel driven generators or fire pumps.

Continuous discharge to a receiving body: The release of treated wastewater effluent to a lake, river, stream, etc. where the rate of release is continuous (i.e. not batch discharge).

Conventional Wastewater Treatment: Consists of preliminary processes, primary settling to remove heavy solids and floatable materials, secondary biological aeration to metabolize and flocculate colloidal and dissolved organics, and secondary settling to remove additional solids. Tertiary treatment such as disinfection or filtration to further treat the wastewater depending on the level of treatment required for discharge. Waste sludge drawn from these operations is thickened and processed for ultimate disposal, usually either land application or landfilling. Preliminary treatment processes include coarse screening, medium screening, shredding of solids, flow measuring, pumping, grit removal, and pre-aeration. Chlorination of raw wastewater sometimes is used for odor control and to improve settling characteristics of the solids.

Conventional Water Treatment: Consists of a combination of coagulation (adding chemicals called coagulants), flocculation (particles binding together with coagulants) and sedimentation (settling of particles) to remove a large amount of organic compounds and suspended particles, filtration (water passing through porous media) to remove bacteria protozoa and viruses (slow sand filtration) or suspended particles (rapid sand filtration), and disinfection to ensure all the bacteria protozoa and viruses are removed, and provide safe drinking water.

Cross connections: A cross connection is a link between a possible source of pollution and a potable water supply. A pollutant may enter the potable water system when a) the pressure of the pollution source exceeds the pressure of the potable water source or b) when a sudden loss of pressure occurs in the water system and "backflow" occurs. The flow through a water treatment plant should have no instances of treated water coming into contact with raw or wastewater. Backflow preventers should be tested regularly and any actual physical links should be removed.

Decentralized System: A group or groups of communal (as opposed to private) on-site water or wastewater systems. (*INAC Protocol for Decentralised Water and Wastewater Systems*)

Dedicated transmission main: A length of watermain which has no service connections or hydrants; can refer to the length of raw watermain from a raw water source to the water treatment plant or in the distribution system where there are larger distances between homes.

Discharge Frequency: The frequency in which treated wastewater is discharged; could be continuous, seasonal, annual, etc.

Discharge quality data: Data acquired through the completion of a laboratory analysis of treated wastewater effluent prior to obtaining permission to discharge. Relevant parameters for testing include: 5 day Biochemical Oxygen Demand, Suspended Solids, Fecal Coliforms, pH, Phenols, Oils & Greases, Phosphorus and Temperature.

Disinfectant: A disinfectant is a chemical (commonly chlorine, chloramines, or ozone) or physical process (e.g., ultraviolet light) that inactivates or kills microorganisms such as bacteria, viruses, and protozoa. (INAC *Protocol for Decentralised Water and Wastewater Systems*)

Disinfection: A process that has as its objective destroying or inactivating pathogenic micro-organisms in water. (Government of Alberta, *Environmental Protection and Enhancement Act*, cited in Alberta Environment *Glossary*)

Disinfection By-products: Disinfection by-products are chemical, organic and inorganic substances that can form during a reaction of a disinfectant with naturally present organic or anthropogenic matter in the water. (Lenntech)

Distribution Classification > piped / trucked: Refers to the classification of the delivery of potable water leaving the water treatment plant. This can be either piped (via watermain) or trucked (via truck delivery to individual homes/cisterns). The level of classification involves the number of house connections (population served).

Domestic flows: All demands in the water system excluding fire flows.

Drinking Water: Water of sufficiently high quality that can be consumed or used without risk of immediate or long term harm.

Drinking Water Advisory (DWA): Drinking Water Advisories (DWAs) are preventive measures that are regularly issued in municipalities and communities across Canada; they protect public health from waterborne contaminants that can be present in drinking water. A DWA can be issued in any community and may include *boil water advisories*, *do not consume advisories* and *do not use advisories*. (INAC “Fact Sheet”)

Effluent: 1. The liquid waste of municipalities/communities, industries, or agricultural operations. Usually the term refers to a treated liquid released from a wastewater treatment process. (Bow River) 2. The discharge from any *on-site sewage* treatment component. (Alberta Municipal Affairs; cited in Alberta Environment *Glossary*)

Effluent quality data: Any test results or monitoring data that describes the condition of treated wastewater effluent.

Effluent Quality Requirements: All effluents from wastewater systems in Canada must comply with all applicable federal legislation including the *Canadian Environmental Protection Act, 1999* and the *Fisheries Act*, as well as any other applicable legislation, including provincial, depending on the geographical location of the system. In addition, all discharges from First Nations wastewater systems shall meet the quality requirements found in the *Guidelines for Effluent Quality and Wastewater Treatment at Federal Establishments* - EPS 1-EC-76-1 (1976 Guidelines).

For the purposes of determining effluent quality related to ammonia and chlorine, the *Notice Requiring the Preparation and Implementation of Pollution Prevention Plans for Inorganic Chloramines and Chlorinated Wastewater Effluents* and the *Guideline for the Release of Ammonia Dissolved in Water Found in Wastewater Effluents* contain additional and/or updated information to the requirements provided in the 1976 Guidelines.

A copy of the *Guideline for the Release of Ammonia Dissolved in Water Found in Wastewater Effluents* can be found at Environment Canada's website. (*INAC Protocol for Centralised Wastewater Systems in First Nations Communities*)

Effluent Receiver (also referred to as the receiving body; the receiving environment; the receiver) (see also Effluent and Component risks): The environment that receives treated wastewater, including lakes, rivers, wetlands, sub-surfaces, title fields, open marines, and enclosed bays. It may also refer to a community's method for dealing with wastewater (e.g. Municipal Type Agreements or evaporation).

Elevated Storage: A water tower, which is a reservoir or storage tank mounted on a tower-like structure at the summit of an area of high ground in a place where the water pressure would otherwise be inadequate for distribution at a uniform pressure. (Collins)

Emergency Response Plan (ERP): Emergency response plans for water and wastewater systems are intended to be a quick reference to assist operators and other stakeholders in managing and responding to emergency situations. They include key contact information for persons to be notified and for persons who may be of assistance (e.g. agencies, contractors, suppliers, etc.), as well as standard communication and response protocols. Emergency response plans identify recommended action for "foreseeable" emergencies, and provide methodologies for unforeseen situations.

Facultative Lagoon: The most common type of wastewater treatment lagoon used by small communities and individual households. Facultative lagoons rely on both aerobic and anaerobic decomposition of waste, can be adapted for use in most climates and require no machinery to treat wastewater.

Filter: A device used to remove solids from a mixture or to separate materials. Materials are frequently separated from water using filters. (Edwards Aquifier)

Filter train equipment: Includes all components that form part of the water filtration process from where the raw water enters the filter process to where the filtered water leaves the treatment unit. This does not refer to the disinfection equipment.

Filtration: The mechanical process which removes particulate matter by separating water from solid material, usually by passing it through sand. (Edwards Aquifier)

Fire pump tests: A monthly test for the basic operation and functionality of the fire pump.

Grade Level Storage: A treated water storage reservoir that is constructed at grade, typically with earth mounded on top to provide some frost protection.

GPS: Global Positioning System (GPS) - A navigational system involving satellites and computers that can determine the latitude and longitude of a receiver on Earth by computing the time difference for signals from different satellites to reach the receiver.

Groundwater: Groundwater is any water that is obtained from a subsurface water-bearing soil unit (called an aquifer). 1) Water that flows or seeps downward and saturates soil or rock, supplying springs and wells. The upper surface of the saturate zone is called the water table. 2) Water stored underground in rock crevices and in the pores of geologic materials that make up the Earth's crust. (INAC, *Protocol for Decentralised Water and Wastewater Systems*)

Groundwater, confined: Groundwater that is under pressure significantly greater than atmospheric, with its upper limit the bottom of a bed with hydraulic conductivity distinctly lower than that of the material in which the confined water occurs. (INAC, *Protocol for Decentralised Water and Wastewater Systems*)

Groundwater, unconfined: Water in an aquifer that has a water table that is exposed to the atmosphere. (INAC *Protocol for Decentralised Water and Wastewater Systems*)

Groundwater under the direct influence of surface water (GUDI): This term refers to groundwater sources (e.g., wells, springs, infiltration galleries, etc.) where microbial pathogens are able to travel from nearby surface water to the groundwater source. (Government of Nova Scotia)

Guidelines: Guidelines as referred to in this Assessment include all federal and provincial water and wastewater guidelines for domestic potable water and household sanitary waste. These guidelines include the “Guidelines for Canadian Drinking Water Quality” and all its recommended health and aesthetic guidelines for water quality.

Guidelines for Canadian Drinking Water Quality (GCDWQ): Water quality guidelines developed by the Federal-Provincial-Territorial Committee on Drinking Water and have been published by Health Canada since 1968.

Canadian drinking water supplies are generally of excellent quality. However, water in nature is never "pure." It picks up traces of everything it comes into contact with, including minerals, silt, vegetation, fertilizers, and agricultural run-off. While most of these substances are harmless, some may pose a health risk. To address this risk, Health Canada works with the provincial and territorial governments to develop guidelines that set out the maximum acceptable concentrations of these substances in drinking water. These drinking water guidelines are designed to protect the health of the most vulnerable members of society, such as children and the elderly. The guidelines set out the basic parameters that every water system should strive to achieve in order to provide the cleanest, safest and most reliable drinking water possible.

The Guidelines for Canadian Drinking Water Quality deal with microbiological, chemical and radiological contaminants. They also address concerns with physical and aesthetic characteristics of water, such as taste and odour. (Health Canada)

Guidelines for Effluent Quality and Wastewater Treatment at Federal Establishments, April 1976: The purpose of these guidelines is to indicate the degree of treatment and effluent quality that will be applicable to all wastewater discharged from existing and proposed Federal installations. Use of these guidelines is intended to promote a consistent wastewater approach towards the cleanup and prevention of water pollution and ensure that the best practicable control technologies used. (Government of Canada)

Highlift Pumping: Refers to pumps installed that provide treated water into the water distribution system at pressure; either directly or via water tower.

Hydrant Flushing (see line flushing and swabbing)

Influent: Water, wastewater, or other liquid flowing into a reservoir, basin or treatment plant. (Gowen)

Lagoon: A shallow pond where sunlight, bacterial action, and oxygen work to purify wastewater. Lagoons are typically used for the storage of wastewaters, sludges, liquid wastes, or spent nuclear fuel. (Edwards Aquifer)

Lagoon, aerated: See Aeration

Lagoon, facultative: See Facultative Lagoon.

L/c/d: Measurement of daily water usage as Litres per capita, per day.

Level of Service Standards (INAC): The Level of Service Standards (LOSS), determined on a national basis, are the levels of service that the Department of Indian Affairs and Northern Development (DIAND) is prepared to financially support to assist First Nations in providing community services comparable to the levels of service that would generally be available in non-native communities of similar size and circumstances.

The Level of Service Standards provide a description of criteria which will be used to establish the level of funding for safe, cost-effective, domestic water supply and wastewater disposal systems for on-reserve housing units and administrative, operative, institutional and recreational buildings. (INAC “Water and Sewage Systems”)

Lift Station (also Pumping Station): A point in the sewer system where the wastewater needs to be pumped (lifted) to a higher elevation so that gravity can be used to bring the wastewater to the treatment plant. (Hailey City Hall Public Works)

Line flushing and swabbing (also referred to as watermain swabbing and flushing): Watermain swabbing entails inserting a soft material shaped like a bullet into the watermain through a fire hydrant. The diameter is slightly larger than the watermain and the bullet (swab) is pushed along the watermain by water pressure. As it passes through the watermain, the swab executes a scouring action on the sediment inside the watermain.

During watermain flushing, high velocity water flowing from hydrants is used to remove loose sediment from watermains. (City of Guelph)

L/p/d: Measurement of daily water usage as Litres per person, per day.

MAC (Maximum acceptable concentration): In the Guidelines for Canadian Drinking Water Quality (GCDWQ), Maximum Acceptable Concentrations (MACs) have been established for certain physical, chemical, radiological and microbiological parameters or substances that are known or suspected to cause adverse effects on health. For some parameters, Interim Maximum Acceptable Concentrations (IMACs) are also recommended in the guidelines.

Drinking water that continually has a substance at a greater concentration than the specified MACs will contribute significantly to consumer exposure to the substance and may, in some instances, produce harmful health effects. However, the short-term presence of substances above the MAC levels does not necessarily mean the water constitutes a risk to health. (INAC, *National Assessment Summary Report*)

Maintenance Management Plan (MMP): Maintenance management plans apply to both water and wastewater systems. They are intended to improve the effectiveness of maintenance activities and are focused on planning, scheduling, and documenting preventative maintenance activities and on documenting unscheduled maintenance.

Manganese: Manganese is a mineral that naturally occurs in rocks and soil and is a normal constituent of the human diet. In some places, it exists in well water as a naturally occurring groundwater mineral, but may also be present due to underground pollution sources. Manganese may become noticeable in tap water at concentrations greater than 0.05 milligrams per liter (mg/L) of water by imparting a colour, odour, or taste to the water. However, health effects from manganese are not a concern until concentrations are approximately 10 times higher. (Connecticut Dept. of Health)

Mechanical Plant/ Mechanical Treatment: Refers to any type of wastewater treatment plant including treatments systems consisting of rotating biological contactors (RBC), sequencing batch reactors (SBR), extended aeration (EA), etc. It does not include natural forms of wastewater treatment like lagoons or septic systems.

Metals Scan (Full): A full metal scan refers to what laboratories call Inductively Coupled Plasma Mass Spectrometry (ICP-MS) analysis for the evaluation of trace metals in water samples. This test covers a complete scan of over 20 trace metals in a single analysis.

Municipal Type Agreement (MTA): The situation where First Nations are supplied with treated water from or send their wastewater to a nearby municipality, as outlined in a formal agreement between the two parties. The term is also used in this report to describe a system where the First Nation is supplied with treated water or wastewater treatment services by another First Nation or other independent body such as a corporate entity such as a Casino etc.

Multi-Barrier Approach: Approach used to ensure that drinking water is safe. In the past, the term „multi-barrier’ referred only to the barriers involved in the actual treatment of raw water to provide quality drinking water. This approach has now been expanded to include a number of key elements that are an integral part of a drinking water program to ensure delivery of safe, secure supplies of drinking water. Barriers may be physical (eg: filter) or administrative (eg: planning) in nature. (Alberta Environment, *Glossary & Alberta’s Drinking Water Program*)

None: Indicates that the treatment and/or distribution/collection system has not been classified.

O & M: Operation and Maintenance.

Operational Plan (OP): An Operational Plan is the primary instrument for communicating the Community’s quality management system (QMS) from the public works departments (water and wastewater) to Chief and Council, and from Council to INAC, Health Canada and the community members.

Phosphorus: A non-metallic element of the nitrogen family that occurs widely especially as phosphates (*Merriam-Webster*). Phosphorus occurs naturally in rocks, soil, animal waste, plant material, and even the atmosphere. In addition to these natural sources, phosphorus comes from human activities such as agriculture, discharge of industrial and municipal waste, and surface water runoff from residential and urban areas. Nutrients held in soil can be dissolved in water and carried off by leaching, tile drainage or surface runoff.

Phosphorus does not pose a direct threat to human health; it is an essential component of all cells and is present in bones and teeth. It does, however, pose an indirect threat to both aesthetics and to human health by affecting source waters used for drinking and recreation. For example, excessive nutrients can promote the growth of algal blooms, which can contribute to a wide range of water quality problems by affecting the potability, taste, odour, and colour of the water. (Canadian Council of Ministers of the Environment)

Piped Distribution System: A water distribution system which relies on pipes to convey water through pumping or elevated storage to the end user. Different from trucked distribution in that a trucked distribution system delivers water to end users in batch quantities to individual holding tanks (cisterns).

Potable water: Potable water is water that is destined for human consumption. For the purposes of the *Protocol for Centralised Drinking Water Systems in First Nations Communities*, water destined for human consumption is water that is consumed directly as drinking water, water that is used in cooking, water that is used to wash food, and water that is used for bathing infants (individuals under 1 year in age). (INAC, *Protocol for Centralised Drinking Water Systems in First Nations Communities*)

PPU: People per unit. Measurement to describe housing density.

Primary Operator: The main operator of a water or wastewater system. The primary operator must be certified to the level of the treatment and distribution/collection system.

Primary Wastewater Treatment: Removal of particulate materials from domestic wastewater, usually done by allowing the solid materials to settle as a result of gravity. Typically, the first major stage of treatment encountered by domestic wastewater as it enters a treatment facility. Primary treatment plants generally remove 25 to 35 percent of the *Biological Oxygen Demand (BOD)* and 45 to 65 percent of the total suspended matter. Also, any process used for the decomposition, stabilization, or disposal of sludges produced by settling. (North American Lake Management Society; cited in Alberta Environment *Glossary*)

Protocol for Safe Drinking Water in First Nations Communities: Standards for design, construction, operation, maintenance, and monitoring of drinking water systems and is intended for use by First Nations staff responsible for water systems. It is also intended for use by Indian and Northern Affairs Canada (INAC) staff, Public Works and Government Services Canada (PWGSC) for INAC staff, and all others involved in providing advice or assistance to First Nations in the design, construction, operation, maintenance, and monitoring of their drinking water systems in their communities, in accordance with established federal or provincial standards, whichever are the most stringent.

Any water system that produces drinking water destined for human consumption, that is funded in whole or in part by INAC, and that serves five or more households or a public facility, must comply with the requirements of this protocol. (*INAC Protocol*)

Quality Assurance/Quality Control (QA/QC): A quality management system that focuses on fulfilling quality requirements and providing confidence that quality requirements will be fulfilled.

Reporting Risk: The Reporting risk level is the risk inherent with the operational method of recording data and providing the required reports. This would include both manual and automatic methods of record keeping. The reporting risk ranking is based on the adequacy of the operational records and the number of reports submitted during the year compared to the total number of records and reports required according to the appropriate legislation, standards, and operation procedures of the system in question.

Reservoir: A man-made lake that collects and stores water for future use. During periods of low river flow, reservoirs can release additional flow if water is available. (Government of Alberta, *Water for Life*, cited in *Alberta Glossary*)

Reservoir Cleaning: This involves the pump-down, clean-out, removal of settled material, disinfection and refill of a water storage reservoir. This activity requires confined space entry equipment and training.

Retrofit: 1. To furnish with new or modified parts or equipment not available or considered necessary at the time of manufacture; 2. To install (new or modified parts or equipment) in something previously manufactured or constructed; 3. To adapt to a new purpose or need: modify. (*Merriam-Webster*)

Rotating Biological Contactor (RBC): A technology used to treat wastewater classified as mechanical treatment.

Risk (Management Risk Level/Management Risk Score): Risk is defined in INAC's *Management Risk Level Evaluation Guidelines for Water and Wastewater Systems in First Nations Communities* (Revised 2010). These guidelines follow the Multi-Barrier Approach for water management. This approach, developed by the Federal-Provincial-Territorial Committee on Drinking Water and the Canadian Council of Ministers of the Environment (CCME) Water Quality Task Group, is intended to prevent the presence of water-borne contaminants in drinking water by ensuring effective safeguards are in place at each stage of a drinking water system.

Following that approach, INAC assesses five main components of a system to determine an overall system management risk score:

- Source Water (drinking water systems) or Effluent Receiver (wastewater systems)
- System Design
- Operation and Maintenance
- Records and Reporting
- Operator Training and Experience

Each of these components is assigned a risk score, which are then weighed to determine the overall management risk score of a system. The resulting score will then result in the management of the system as being classified as either high risk, medium risk, or low risk.

-High Risk: Major deficiencies in most of the components. Should a problem arise, the system and management as a whole is unlikely to be able to compensate, thus there is a high probability that any problem could result in unsafe water. Issues should be addressed as soon as possible.

-Medium Risk: Minor deficiencies in several components, or major deficiencies in one or two components. Should a problem arise, the system and management can probably compensate for the problem, but the noted deficiencies makes this uncertain, thus there is a medium probability that any problem could result in unsafe water. Issues need to be addressed.

-Low Risk: Minor or no deficiencies with the system or management. Should a problem occur, it is likely that the system and management as a whole will be able to compensate and continue to provide safe water while the issue is being resolved.

It is important to distinguish between INAC's system management risk level and drinking water quality. The actual quality of the water produced by a system is but one part of determining the overall system management risk level.

Unsafe drinking water is noted through the implementation of Drinking Water Advisories (DWA), not by the management risk level of the system. DWA come in multiple forms, the most common being the boil water advisory.

A system with a high-risk ranking under INAC's management evaluation is, because of its multiple deficiencies, likely to be unable to cope with problems that may occur in the system that result in a DWA. This means that DWA are likely to occur more frequently and to have a longer-term duration on a high-risk system. On the other hand, while problems can and do occur in low-risk systems, because of better overall risk management, these systems are more likely to address the problem in the short term, resulting in the rapid removal of problems and DWA.

This means that a high-risk drinking system can still produce perfectly safe and potable water. Deficiencies should be addressed as quickly as possible, however, before any issues arise with the water quality. (INAC, *Management Risk Level Evaluation Guidelines*)

SCADA (Supervisory Control and Data Acquisition) system: Refers to a control and/or computer system that can monitor, record and control infrastructure, or facility-based processes.

Screened reservoir vents: Reservoir vents should be screened to allow air movement and to prevent vermin from entering.

Seasonal discharge: Discharge of wastewater at times of maximum or substantial stream flow. This may vary from location to location.

Secondary containment for treatment chemicals: Secondary containment is required for the storage of all regulated hazardous materials. Secondary containment must be constructed using materials capable of containing a spill or leak for at least as long as the period between monitoring inspections. A means of providing overflow protection for any primary container may be required. This may be an overflow prevention device and/or an attention getting high level alarm. Materials that in combination may cause a fire or explosion, the production of a flammable, toxic, poisonous gas, or the deterioration of a primary or secondary container will be separated in both the primary and secondary treatment containment so as to avoid intermixing.

Secondary Treatment: involving the biological process of reducing suspended, colloidal, and dissolved organic/inorganic matter in effluent from primary treatment systems and which generally removes 80 to 95 percent of the *Biochemical Oxygen Demand (BOD)* and suspended matter. Secondary wastewater treatment may be accomplished by biological or chemical-physical methods. Activated sludge and trickling filters are two of the most common means of secondary treatment. (North American Lake Management Society, cited in Alberta *Glossary*)

Septic tank: A tank used to detain domestic wastes to allow the settling of solids prior to distribution to a leach field for soil absorption. Septic tanks are used when a piped wastewater collection system is not available to carry them to a treatment plant. A settling tank in which settled sludge is in immediate contact with sewage flowing through the tank, and wherein solids are decomposed by anaerobic bacterial action. (INAC *Protocol for Centralised Wastewater*)

Septic system: A combination of underground pipe(s) and holding tank(s) which are used to hold, decompose, and clean wastewater for subsurface disposal. (Bow River, cited in Alberta *Glossary*)

Sequencing Batch Reactor (SBR): A treatment technology used to treat wastewater classified as mechanical treatment.

Sewage treatment plant (STP) (also known as Wastewater Treatment Plant (WWTP) or Water Pollution Control Plant (WPCP)): Facility designed to treat wastewater (sewage) by removing materials that may damage water quality and threaten public health. (Ontario Ministry of Environment)

Sewage treatment systems: Facility or system designed to treat wastewater (sewage) by removing materials that may damage water quality and threaten public health. (Ontario Ministry of Environment)

Shoot-out: A septic system consisting of a septic tank with untreated wastewater effluent being discharged to the surface; this poses a health risk.

Sludge: The accumulated wet or dry solids that are separated from wastewater during treatment. This includes precipitates resulting from the chemical or biological treatment of wastewater. (Government of Alberta, *Activities*, cited in Alberta *Glossary*)

Source Classification: The determination of the water source classification in this assessment includes the options of: surface water, groundwater, GUDI or MTA. Surface water includes water from lakes or rivers; groundwater includes any well water that is not influenced by surface water infiltration; GUDI is any groundwater source under the direct influence of surface water; MTA as a source refers to the community acquiring the treated water from a municipality.

Source risk: The risk inherent in the quality and quantity of the raw source water prior to treatment.

Source Water Protection: 1. The prevention of pollution of the lakes, reservoirs, rivers, streams, and groundwater that serve as sources of drinking water. Wellhead protection would be an example of a source water protection approach that protects groundwater sources, whereas management of land around a lake or reservoir used for drinking water would be an example for surface water supplies. Source water protection programs typically include: delineating source water protection areas; identifying sources of

contamination; implementing measures to manage these changes; and planning for the future. (North American Lake Management Society, cited in *Alberta Glossary*)

2. Action taken to control or minimize the potential for introduction of chemicals or contaminants in source waters, including water used as a source of drinking water (Alberta Environment, *Standards and Guidelines*, cited in *Alberta Glossary*).

SPS: An abbreviation of the term sewage pumping station.

Standard Operating Procedures (SOPs): An SOP is a written document or instruction detailing all steps and activities of a process or procedure. This would include all procedures used in water/wastewater treatment processes that could affect the quality.

Standpipe Storage: An above-grade storage facility where the storage volume is contained within the entirety of the structure. This type of storage is most feasible for use where there is sufficient change in the topography to allow for maximum usable volume in the standpipe.

Storage Type: Refers to whether the community water storage is via grade-level, below-grade or elevated storage (including standpipes and towers). In some cases there is no storage thus the storage type would be considered “direct pump.”

Surface water: Surface water is any water that is obtained from sources, such as lakes, rivers, and reservoirs that are open to the atmosphere. (INAC, *Protocol for Centralised Drinking Water*)

System Designer: A system designer is a person, such as a professional engineer, who is qualified to design a water or wastewater systems. (INAC, *Protocol for Centralised Drinking Water*)

System Operator: A system operator is a First Nation employee or third party under contract to a First Nation who is tasked with managing a water or wastewater system. (INAC, *Protocol for Centralised Drinking Water*)

System Manager: A system manager is a First Nation employee or third party under contract to a First Nation who is tasked with managing a water or wastewater system. (INAC, *Protocol for Centralised Drinking Water*)

Tertiary Treatment: Selected biological, physical, and chemical separation processes to remove organic and inorganic substances that resist conventional treatment practices. *Tertiary Treatment* processes may consist of flocculation basins, clarifiers, filters, and chlorine basins or ozone or ultraviolet radiation processes. Tertiary techniques may also involve the application of wastewater to land to allow the growth of plants to remove plant nutrients. Can include advanced nutrient removal processes. (North American Lake Management Society, cited in *Alberta Glossary*)

Trihalomethanes (THMs): Chemical compounds that can be formed when water is disinfected using chlorine or bromine as the chemical disinfection agent. These chemical compounds are formed when organic material present in the raw source water reacts with chlorine or bromine. Therefore, THMs are classified as disinfection by-products (DBPs). The primary source of organic material comes from decaying vegetation found in lakes, rivers and streams and for this reason, THMs are more commonly observed in water systems that use a surface water source. The four chemical compounds that are measured and used to calculate total THMs are: chloroform, bromoform, bromodichloromethane (BDCM) and chlorodibromomethane (CDBM). THMs are a concern in potable water because there is scientific evidence that they may pose a risk in the development of cancer.

Treatment Certification: The treatment level to which an operator is certified for water treatment and distribution and wastewater treatment and collection systems (see Treatment Classification).

Treatment Classification: The size (flow) and complexity of a water or wastewater system is used to determine the Class of a system using a point template. The knowledge and experience it takes to operate a system is closely related to its classification and is reflected in the level of certification of the operator. Systems that are small and relatively simple, are classified as Small Water or Wastewater Systems. Larger or more complex systems are ranked as Class I, II, III, and IV with the highest being Class IV. Systems should be operated under the supervision of an operator certified to at least the same level of the facility.

TSS (Total Suspended Solids): Measure of the amount of non-dissolved solid material present in water or wastewater. Total suspended solids (TSS) can cause: a) interference with light penetration (in UV applications), b) build-up of sediment and c) can carry nutrients and other toxic pollutants that cause algal blooms and potential reduction in aquatic habitat (wastewater).

Underground Storage: A water storage facility (reservoir/clearwell) which is located 100% below-grade. Often located below the water treatment plant.

Waste: Any solid or liquid material, product, or combination of them that is intended to be treated or disposed of or that is intended to be stored and then treated or disposed. This does not include recyclables. (Government of Alberta, Activities Designation Regulation, cited in Alberta *Glossary*)

Waste management plan: A Waste Management Plan identifies and describes types of waste generated during operations and how they are managed and disposed of.

Wastewater (*Industrial Wastewater, Domestic Wastewater*): A combination of liquid and water-carried pollutants from homes, businesses, industries, or farms; a mixture of water and dissolved or suspended solids. (North American Lake Management Society, cited in Alberta *Glossary*)

Wastewater System: an organized process and associated structures for collecting, treating, and disposing of wastewater. For the purposes of this report, it is a system serving five or more houses. It includes any or all of the following:

1. Sewers and pumping stations that make up a wastewater collection system.
2. Sewers and pumping stations that transport untreated wastewater from a wastewater collection system to a wastewater treatment plant.
3. Wastewater treatment plants.
4. Facilities that provide storage for treated wastewater.
5. Wastewater sludge treatment and disposal facilities.
6. Sewers that transport treated wastewater from a wastewater treatment plant to the place where it is disposed of.
7. Treated wastewater outfall facilities, including the outfall structures to a watercourse or any structures for disposal of treated wastewater to land or to wetlands. (Government of Alberta, *Environmental Protection and Enhancement Act*, cited in *Alberta Glossary*)

Wastewater Treatment: Any of the mechanical, chemical or biological processes used to modify the quality of wastewater (sewage) in order to make it more compatible or acceptable to man and his/her environment. (North American Lake Management System, cited in *Alberta Glossary*)

Wastewater Treatment Plant: Any structure, thing, or process used for the physical, chemical, biological, or radiological treatment of wastewater before it is returned to the environment. The term also includes any structure, thing, or process used for wastewater storage or disposal, or sludge treatment, storage, or disposal. (Government of Alberta, *Activities*, cited in *Alberta Glossary*)

Watermain: A principal pipe in a system of pipes for conveying water, especially one installed underground. (*American Heritage Dictionary*)

Water quality: The term used to describe the chemical, physical, and biological characteristics of water, usually with respect to its suitability for a particular purpose. (INAC, *Protocol for Centralised Drinking Water*)

Water use: The term water use refers to water that is used for a specific purpose, such as for domestic use, irrigation, or industrial processing. Water use pertains to human interaction with and influence on the hydrolic cycle, and includes elements, such as water withdrawal from surface- and ground-water sources, water delivery to homes and businesses, consumptive use of water, water released from wastewater-treatment plants, water returned to the environment, and in-stream uses, such as using water to produce hydroelectric power. (INAC, *Protocol for Centralised Drinking Water*)

Water Well: An opening in the ground, whether drilled or altered from its natural state, that is used for the production of groundwater, obtaining data on groundwater, or recharging an underground formation from which groundwater can be recovered. By definition in the provincial Water Act, a water well also includes any related equipment, buildings, and structures. (Government of Alberta, *Water for Life*, cited in Alberta, *Glossary*)

Wellhead Protection Area: A protected surface and subsurface zone surrounding a well or well field supplying a public water system to keep contaminants from reaching the well water. (Edwards Aquifer)

Wellhead Protection Plan: A wellhead protection plan defines the wellhead protection area, identifies potential sources of contamination, manages the potential contaminant sources including properly decommissioning abandoned wells, identifies emergency and contingency plans (i.e. what to do if the well becomes contaminated or requires additional capacity) and provides overall public awareness.

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Appendix B

Water System Summary

Appendix B.1

Water System Summary

Regional Roll-Up Summary

Region: BRITISH COLUMBIA
Total No. of First Nations: 198
Participating No. of First Nations: 188
Participation Level: 95%
No. of Community Reports Issued: 223

Water

		Groundwater	GUDI	Surface	MTA	Totals
Total No. of Systems		155	15	48	72	290
System Age						
	0-5 years (2006 - 2010)	8	0	1	2	11
	6-10 years (2001 - 2005)	9	0	6	2	17
	10-15 years (1996 - 2000)	22	2	16	4	44
	15 -20 years (1991 - 1995)	22	0	9	10	41
	> 20 years (≤ 1990)	94	13	16	54	177
Treatment						
	None - Direct Use	101	9	5	22	137
	Disinfection only	41	3	11	2	57
	Conventional Filtration	13	3	32	0	48
	MTA	0	0	0	48	48
Classification - Treatment						
	Small system	96	8	18	0	122
	Level I	5	0	3	0	8
	Level II	4	1	15	0	20
	Level III	2	0	7	0	9
	Level IV	0	0	1	0	1
	MTA	0	0	0	72	72
	None	48	6	4	0	58

		Groundwater	GUDI	Surface	MTA	Totals
Total No. of Systems		155	15	48	72	290
Classification - Distribution						
	Small system	138	13	23	41	215
	Level I	13	2	18	5	38
	Level II	1	0	6	0	7
	Level III	0	0	1	0	1
	MTA	0	0	0	25	25
	None	3	0	0	1	4
Distribution						
	Piped	154	15	48	70	287
	Trucked	0	0	0	0	0
	Self Haul	0	0	0	0	0
	Combined	1	0	0	2	3
Water Quality						
Fails Health						
	Yes, fails health due to:	56	6	21	11	94
	Design	36	5	7	5	53
	Operation	7	1	8	4	20
	Combination	9	0	6	1	16
	Unknown	4	0	0	1	5
Fails Aesthetic						
	Yes, fails aesthetic due to:	38	6	8	6	58
	Design	30	6	3	2	41
	Operation	1	0	2	0	3
	Combination	4	0	3	0	7
	Unknown	3	0	0	4	7
Primary Operator - Treatment						
	Not certified	41	2	7	0	50
	No operator	3	0	1	0	4
	Not required	48	6	4	72	130
	Certified to Level	56	6	19	0	81
	Certified	7	1	17	0	25

		Groundwater	GUDI	Surface	MTA	Totals	
Total No. of Systems		155	15	48	72	290	
Back-up Operator - Treatment							
	Not certified	44	3	20	0	67	
	No operator	36	3	6	0	45	
	Not required	48	6	4	72	130	
	Certified to Level	22	3	7	0	32	
	Certified	5	0	11	0	16	
Primary Operator - Distribution							
	Not certified	44	3	9	14	70	
	No operator	7	0	2	3	12	
	Not required	3	0	0	26	29	
	Certified to Level	93	12	31	28	164	
	Certified	8	0	6	1	15	
Back-up Operator - Distribution							
	Not certified	53	7	25	17	102	
	No operator	54	3	8	16	81	
	Not required	3	0	0	26	29	
	Certified to Level	39	4	10	10	63	
	Certified	6	1	5	3	15	
Risk (mean)						Mean	Mean excluding MTA
	Final	7.2	6.9	5.4	3.8	6.0	6.8
	Source	6.0	8.5	8.9	1.9	5.6	6.8
	Design	6.9	6.9	4.4	2.8	5.5	6.4
	Operations	7.2	6.7	5.2	5.4	6.4	6.7
	Reporting	7.3	5.9	5.0	5.6	6.4	6.7
	Operator	3.2	2.9	2.1	2.0	2.7	2.9

Appendix B.2

Wastewater System Summary

Regional Roll-Up Summary

Region: BRITISH COLUMBIA
Total No. of First Nations: 198
Participating No. of First Nations: 188
Participation Level: 95%
No. of Community Reports Issued: 223

Wastewater

		Septic	Aerated Lagoon	Facultative Lagoon	Mechanical	Other	MTA	Totals
Total No. of Systems		42	15	16	11	10	59	153
System Age								
	0-5 years (2006 - 2010)	6	4	0	0	0	4	14
	6-10 years (2001 - 2005)	4	1	0	3	1	7	16
	10-15 years (1996 - 2000)	7	4	1	2	1	6	21
	15-20 years (1991 - 1995)	7	0	3	1	2	6	19
	> 20 years (\leq 1990)	18	6	12	5	6	36	83
Classification - Treatment								
	Small System	35	5	14	1	5	0	60
	MTA	0	0	0	0	0	59	59
	Level I	3	8	2	4	0	0	17
	Level II	0	2	0	5	0	0	7
	Level III	0	0	0	1	0	0	1
	None	4	0	0	0	5	0	9
Classification - Collection								
	Small System	36	7	13	3	8	32	99
	Level I	5	7	3	6	1	6	28
	Level II	0	1	0	2	0	1	4
	MTA	0	0	0	0	0	20	20
	None	1	0	0	0	1	0	2
Collection								
	Piped	41	14	15	10	10	59	149
	Trucked	0	0	0	0	0	0	0
	Combined	1	1	1	1	0	0	4
Effluent Quality								
	No data	15	3	2	1	6	28	55
	Meets	20	11	13	5	1	31	81
	Does not meet	7	1	1	5	3	0	17

	Septic	Aerated Lagoon	Facultative Lagoon	Mechanical	Other	MTA	Totals
Total No. of Systems	42	15	16	11	10	59	153
Primary Operator - Treatment							
Not certified	26	7	8	5	3	0	49
No operator	0	0	0	0	0	0	0
Not required	4	0	0	0	5	59	68
Certified to Level	11	4	8	2	2	0	27
Certified	1	4	0	4	0	0	9
Back-Up Operator - Treatment							
Not certified	21	8	5	5	3	0	42
No operator	15	4	7	2	2	0	30
Not required	4	0	0	0	5	59	68
Certified to Level	1	1	3	0	0	0	5
Certified	1	2	1	4	0	0	8
Primary Operator - Collection							
Not certified	22	6	8	5	7	18	66
No operator	0	0	0	0	0	8	8
Not required	1	0	0	0	1	20	22
Certified to Level	18	5	7	2	2	11	45
Certified	1	4	1	4	0	2	12
Back-Up Operator - Collection							
Not certified	18	7	5	7	7	16	60
No operator	15	4	7	2	2	18	48
Not required	1	0	0	0	1	20	22
Certified to Level	7	2	3	1	0	3	16
Certified	1	2	1	1	0	2	7
Receiver							
Other	1	1	0	0	0	0	2
River	0	5	2	1	0	0	8
Lake, reservoir	0	1	1	0	0	0	2
Open marine, enclosed bay	8	4	0	8	4	0	24
Wetland	0	1	6	0	0	0	7
Sub-surface / Ground	8	1	4	1	2	0	16
Tile field	25	2	1	1	4	0	33
Evaporation	0	0	2	0	0	0	2
MTA	0	0	0	0	0	59	59

		Septic	Aerated Lagoon	Facultative Lagoon	Mechanical	Other	MTA	Totals		
Total No. of Systems		42	15	16	11	10	59	153		
Risk (mean)								Mean	Mean excluding MTA	
	Final	4.6	4.6	3.9	5.1	5.8	3.4	4.2	4.7	
	Effluent Receiver	3.6	7.3	4.7	7.0	3.8	3.1	4.2	4.9	
	Design	4.2	2.7	2.6	4.6	4.5	2.0	3.1	3.8	
	Operations	5.8	5.0	5.0	5.3	8.1	5.2	5.4	5.6	
	Reporting	5.8	5.3	4.2	6.1	10.0	4.4	5.3	5.8	
	Operator	4.0	3.6	3.6	3.1	4.3	2.8	3.4	3.8	

Appendix C

Site Visit Methodology

Site Visits

Typical Day

Arrive in Community – Lead/Senior Inspector & Technical Support

- Meet with Circuit Rider and/or DIAND representative and First Nation/Tribal Council Representatives to undergo introductions and provide a brief synopsis of the activities to be undertaken for the day. This is based on the assumption that the First Nation has been fully briefed by DIAND on the purpose, process and benefits for the First Nation to cooperate and collaborate with the project.
- Confirm the various components that the First Nation uses to provide water to the entire community (i.e. number and types of distribution systems, source types, private wells, etc.) to help build assessment form for the community.
- Pre-select areas to undertake private system evaluations on community map.
- Confirm any missing background data that may be available allowing the First Nation time during the day to have Public Works Director/Supervisor/Secretary/etc to locate such materials.

Lead/Senior – Inspector

- Meet with Chief/Housing Manager/Band Manager/Finance Manager, to identify:
 - future servicing needs (planned development and population growth)
 - servicing constraints (source availability, soils, groundwater, bedrock, topography, etc.)
 - identify the extent to which non structural solutions or optimization strategies (water conservation, leak reduction, etc) have been previously investigated or implemented
 - confirm current population and housing numbers
 - obtain financial information not previously provided
 - note community concerns related to future servicing.
- Complete a walk through of the water plant from source to storage.
- Prepare a flow schematic (internal use).
- Complete the assessment questionnaire on treatment/storage/operations/operator(s) etc. with Operator/Circuit Rider.
- Take photographs.
- Travel to main sewage pumping station and wastewater treatment facility.
- Complete a walk through of the plant from influent to effluent.
- Prepare a flow schematic (internal use).
- Complete assessment questionnaire.
- Take photographs.
- Complete ACRS update.
- Repeat for additional water or wastewater facilities.
- Review information collected by Technical Support
- Gather all background/operational data gathered by First Nation.
- Complete overall notes.

Technical Support

- Gather any relevant operational data (water and wastewater), if not already provided and arrange with the First Nation to have copied/scanned that day.
- Obtain GPS coordinates of source(s) and treatment.
- Complete the source questions on the assessment questionnaire.
- Undertake sampling of the raw and/or treated water, if necessary.
- Take photographs.
- Complete ACRS update.
- Travel around community with First Nation representative and undertake private system assessments for water and/or septic including GPS coordinates, photographs, assessment forms and sampling.
- Meet back with Lead/Senior Inspector at wastewater location and assist with sampling, if required.

Sampling Requirements

Water Sampling

The terms of reference state, *“The sampling program for public water systems should reflect the requirements of the most stringent regulations applicable in the Province in which the community is located. However, should an adequate sampling program already be in place, then existing data may be used. Bidders should assume sampling and testing will be required for 5% of total wells, septics, and cisterns identified in SW5. Septics and cisterns only require a visual inspection. All bidders are required to carry a \$500,000 allowance for this purpose. Any variances should be identified in the Inception Report.”*

Health Canada data is anticipated to be available for the majority of the water systems. Where data is not available, sampling will be conducted as part of the inspection.

Minimum existing data required will include:

Community systems

- bacteriological – monthly available for previous year
- general chemistry – annually (treated)
- full Volatile Organic Compound analysis – within 5 years

Private wells

- bacteriological – one sample within past year
- basic chemistry – one sample within past year

For public systems where data is not available, treated water samples will be obtained and submitted to a laboratory for testing that would include; Basic Chemistry, Full Metals Scan, Bacteria and Volatile Organic Compounds.

For public systems that include a piped distribution system and where distributed water quality data is not available, a sample will be taken from the most remote point in the distribution system and sampled for Disinfection By-Products.

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National Assessment of First Nations Water and Wastewater Systems

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For individual wells, samples will be obtained from a representative number of wells (5% of total wells) in the community. The testing will include; Basic Chemistry, Full Metals Scan and Bacteria.

Wastewater Sampling

For systems lacking existing discharge quality data, and that will be discharging at the time of the site visit, representative samples will be obtained and submitted to a laboratory for testing. This would include seasonal discharges at the time of the site visit and from plants with continuous discharge to a receiving body. Sewage treatment systems providing an equivalent to secondary treatment (lagoons, and mechanical facilities) for which effluent quality data does not include the parameters of BOD₅, TSS, and E.Coli, will be sampled in the field, if they are in fact discharging at the time of site visit. Similarly, sewage treatment systems providing an equivalent to tertiary treatment for which effluent quality data does not include BOD₅, TSS, Ammonia, Total Phosphorous and E.Coli, will be sampled in the field, if they are in fact discharging at the time of the site visit.

Appendix D

First Nation Water Summaries

Appendix D.1

Individual First Nation Water Summary

First Nation Information		Water System Information									Storage Information		Distribution System Information						
Band #	Band Name	System #	System Name	Water Source	Treatment Class	Const Year	Design Capacity [m3/d]	Actual Capacity [m3/d]	Max Daily Volume [m3/d]	Disinfection	Storage Type	Storage Capacity	Distribution Class	Population Served	Homes Piped	Homes Trucked	Number of Trucks in Service	Pipe Length	Pipe Length / Connection
697	Upper Nicola	6868	DOUGLAS LAKE NO. 3 - Community Water Supply & Distribution Syste	Groundwater	None	1997	N/A	N/A	690	No	Underground	595	Small System	190	69	0	0	14620	211
697	Upper Nicola	6867	NICOLA LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	None	1985	N/A	N/A	N/A	No	Underground	255	Small System	154	55	0	0	3306	60
599	Upper Similkameen	6910	CHUCHUWAYHA NO. 2 - Community Water Supply & Distribution System	Groundwater	None	1987	N/A	N/A	N/A	No	None	0	Small System	40	14	0	0	841	60
545	West Moberly First Nations	6819	WEST MOBERLY LAKE NO. 168A - Community Water Supply & Distributi	Surface Water	Level I	1996	691	691	102	Yes	Standpipe	225	Level I	105	35	0	0	4479	127
601	Westbank First Nation	6914	TSINSTIKEPTUM NO. 10 - Community Water Supply & Distribution Sys	Surface Water	None	1985	4100	4100	2992	Yes	Underground	6380	Level II	1600	486	0	0	8885	18
601	Westbank First Nation	6913	TSINSTIKEPTUM NO. 9 - Community Water Supply & Distribution Syst	Surface Water	None	1991	10350	10350	10122	Yes	Underground	9290	Level III	7800	2363	0	0	40450	17
725	Wetsuweten First Nation	6922	DUNCAN LAKE NO. 2 - Community Water Supply & Distribution System	Groundwater	None	1992			5	No	None		NA	5	5	0	0		
725	Wetsuweten First Nation	6921	PALLING NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	1995			81	Yes	Standpipe	390	Small System	100	20	0	0	2778	138
702	Whispering Pines/Clinton	7073	WHISPERING PINES NO. 4 - Band Office & Community Water System	Groundwater	Small System	2000	Unknown	Unknown	Unknown	No	None		Small System	9	4	0	0	340	85
702	Whispering Pines/Clinton	7074	WHISPERING PINES NO. 4 - Community Water Supply & Distribution S	Groundwater	Small System	1988	75.2	48.4	Unknown	No	Underground	10.92	Small System	28	9	0	0	610	67
702	Whispering Pines/Clinton		WHISPERING PINES NO. 4 - Ed Lebourdais Community Water System	Groundwater	None	0	Unknown	Unknown	Unknown	No	None		NA	16	6	0	0	1100	183
719	Williams Lake	7063	WILLIAMS LAKE NO. 1 - Community Water Supply & Distribution Syst	Groundwater	Small System	1986				No	Underground	364	Small System	278	88	0	0	8670	98
592	Xaxli'p	7033	CHILHIL NO. 6 - Community Water Supply & Distribution System - S	Groundwater	Small System	1985				No	Underground	180	Small System	128	30	0	0	1300	43
592	Xaxli'p	7031	FOUNTAIN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	1983	432			No	Underground	453	Small System	209	49	0	0	6465	131
714	Xeni Gwet'in First Nations Government	7055	CHILCO LAKE NO. 1A - Community Water Supply & Distribution Syste	Surface Water	Small System	1994				No	None		Small System	28	7	0	0	1055	150
714	Xeni Gwet'in First Nations Government	7056	LOHBIEE NO. 3 - Community Water Supply & Distribution System - S	Groundwater	Small System	1998	388	388		Yes	Elevated	300	Small System	269	59	0	0	29977	508
576	Yakwekwioose	9671	YAKWEKWIOOSE NO. 12 - Community Water Supply & Distribution Sys	MTA	MTA	0				MTA	None	MTA	MTA	29	12	0	0		
589	Yale First Nation	7027	LUKSEETSUSSUM NO. 9 - Community Water Supply & Distribution Syst	Groundwater	None	1984	N/A	N/A	11	No	None	0	Small System	12	6	0	0	300	50
589	Yale First Nation	7026	STULLAWHEETS NO. 8 - Community Water Supply & Distribution Syste	Groundwater	None	1984	N/A	N/A	9	No	None	0	Small System	15	5	0	0	130	26
728	Yekooche	6942	YE KOO CHE NO. 3 - Community Water Supply & Distribution System	Groundwater GUDI	Small System	1986	not known	129.6	97.5	No	Standpipe	241	Small System	100	47	0	0	2383	50

Table D.1 - 2: Regional Summary of Water Quality Information

First Nation Information		Water System Information			Water Quality Information							
Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
684	Adams Lake	NEW001	SAHHALTKUM NO. 4 - ANTHONY ANDREW AND ARNOUSE	Groundwater	High Freq AND High Mag	Design	Yes	Yes	Yes	No	Yes	1
684	Adams Lake	6830	SAHHALTKUM NO. 4 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	Yes	1
684	Adams Lake	6831	SWITSEMALPH NO. 6 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
659	Ahousaht	6805	MARKTOSIS NO. 15 (Maaqtusiis Village) - Community Water Supply &	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
604	Akisqnuq First Nation		COLUMBIA LAKE NO. 3 - CENTRAL COMMUNAL WATER SYSTEM	Groundwater		N/A	N/A	N/A	N/A	No	No	0
604	Akisqnuq First Nation	6917	COLUMBIA LAKE NO. 3- Community Water Supply & Distribution Syste	Groundwater	High Freq, Low Mag	Design	No	Yes	Yes	No		2
709	Alexandria	7043	ALEXANDRIA NO. 3- Community Water Supply & Distribution System -	Groundwater	High Freq OR High Mag	Design	Yes	Yes	Yes	No	No	0
710	Alexis Creek		MICHEL GARDENS NO. 36 - COMMUNITY WATER SYSTEM	Groundwater GUDI	High Freq AND High Mag	Design	Yes	No	Yes	No	Yes	1
710	Alexis Creek	7044	REDSTONE FLAT NO. 1 - Community Water Supply & Distribution Syst	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	Yes	1
685	Ashcroft	6832	ASHCROFT NO. 2 & NO. 4 - Community Water Supply & Distribution S	Groundwater	High Freq OR High Mag	Design	Yes	Yes	No	No	Yes	1
640	Beecher Bay	6787	BEECHER BAY NO. 1 - Community Water Supply & Distribution System	MTA		N/A	N/A	N/A	N/A	No	No	0
547	Blueberry River First Nations	6821	BLUEBERRY RIVER NO. 205 - Community Water Supply & Distribution	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
686	Bonaparte	6836	BONAPARTE NO. 3- Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
686	Bonaparte		BONAPARTE NO.1 UPPER HAT CREEK - COMMUNITY SUPPLY & DISTRIBUTIO	Surface Water	High Freq OR High Mag	Design	Yes	Yes	Yes	No	Yes	1
700	Boothroyd	6873	KAHMOOSE NO. 4- Community Water Supply & Distribution System - S	Groundwater GUDI	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
701	Boston Bar First Nation	6876	KOPCHITCHIN NO. 2 - Community Water Supply & Distribution System	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
701	Boston Bar First Nation	6875	TUCKKWIOWHUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
590	Bridge River	7028	BRIDGE RIVER NO. 1 (Main Village) - Community Water Supply & Dis	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
590	Bridge River	7030	BRIDGE RIVER NO. 1 (Orchard Springs) - Community Water Supply &	Surface Water	Low Freq, Low Mag	Design	Yes	Yes	No	No		2
619	Burns Lake	7068	BURNS LAKE NO. 18- Community Water Supply & Distribution System	MTA	Low Freq, Low Mag	Design	No	Yes	No	No	No	0
549	Burrard	6961	BURRARD INLET NO. 3- Community Water Supply & Distribution Syste	MTA	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	No	0
622	Campbell River	7125	CAMPBELL RIVER NO. 11- Community Water Supply & Distribution Sys	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
713	Canim Lake	9751	Canim Lake No. 1 (E. Subd) - Community Water Supply & Distributi	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
713	Canim Lake	9752	Canim Lake No. 1 (Main Village) - Community Water Supply & Distr	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
713	Canim Lake	9753	Canim Lake No. 1 (W. Subd) - Community Water Supply & Distributi	Groundwater	High Freq, Low Mag	Design	No	Yes	No	No	No	0
723	Canoe Creek	7053	CANOE CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
723	Canoe Creek	7054	DOG CREEK NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
623	Cape Mudge	9779	Cape Mudge No. 10 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Design	Yes	No	No	No	No	0
623	Cape Mudge	9778	Quisam No. 12 - Community Water Supply & Distribution System - S	MTA	Meets Requirements	N/A	No	N/A	No	No	No	0
591	Cayoos Creek	9794	CAYOOSH CREEK No. 1 - Community Water Supply & Distribution Syst	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
591	Cayoos Creek	9795	PASHILQUA No. 2 - Community Water Supply & Distribution System -	Groundwater GUDI	High Freq, Low Mag	Design	No	Yes	No	No	No	0
583	Chawathil	7017	CHAWATHIL NO. 4 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
583	Chawathil	7015	SCHKAM NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
584	Cheam		CHEAM NO. 1 - East Hillside Subdivision Water System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
584	Cheam	7020	CHEAM NO. 1- Community Water Supply & Distribution System - Syst	MTA	Meets Requirements	N/A	No	No	No	No	No	0
559	Chehalis	6982	CHEHALIS NO. 5 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Operation	Yes	No	No	Yes	No	0
641	Chemainus First Nation	6789	CHEMAINUS NO. 13 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
641	Chemainus First Nation	6788	OYSTER BAY NO. 12 (North) - Community Water Supply & Distributio	Groundwater	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
641	Chemainus First Nation	12280	SQUAW-HAY-ONE NO.11 - Community Water Supply & Distribution Syst	MTA	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
620	Cheslatta Carrier Nation	7069	CHESLATTA NO. 1 (3 Nations) Community Water Treatment System - S	Surface Water	Low Freq, Low Mag	Operation	No	Yes	No	No	No	0
693	Coldwater	6854	COLDWATER NO. 1 (Kwinshatin) - Community Water Supply & Distribu	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
693	Coldwater	6855	COLDWATER NO. 1 (Lower Kwinshatin) - Community Water Supply & Di	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
693	Coldwater	6853	COLDWATER NO. 1 (Skugan) - Community Water Supply & Distribution	Groundwater	High Freq OR High Mag	Both	Yes	No	Yes	Yes	Yes	1
624	Comox	9758	COMOX IR #1 - Community Water Supply & Distribution System - Sys	MTA	Meets Requirements	N/A	No	No	No	No	No	0
694	Cook's Ferry	6857	KUMCHEEN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	No	No	Yes	1
642	Cowichan	9774	COWICHAN NO. 1 & IR NO. 9 Community Water Supply & Distribution	MTA	High Freq, Low Mag	Unknown	No	No	No	No	No	0
642	Cowichan	9773	COWICHAN NO. 1 (Trestle /Miller Rd) - Community Water Supply & D	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	Yes	Yes	1
642	Cowichan		COWICHAN NO.1 - Community Water Supply and Distribution	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
642	Cowichan		COWICHAN NO.9 - (Peter Rd) - Community Water Supply & Distributi	Groundwater	Low Freq, Low Mag	Both	Yes	No	Yes	Yes	Yes	1
642	Cowichan		COWICHAN NO.9 - (River Bottom Rd) - Community Water Supply & Dis	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	No	No	No	0

First Nation Information		Water System Information			Water Quality Information							
Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
642	Cowichan		COWICHAN NO.9 - (Tommy Rd) - Community Water Supply & Distributi	Groundwater	Low Freq, Low Mag	Both	Yes	Yes	No	No	No	0
642	Cowichan	12259	THEIK NO. 2 & KIL-PAH-LAS NO. 3 - Community Water Supply & Distr	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
635	Da'naxda'xw First Nation	17018	DEAD POINT 5	Groundwater	Meets Requirements	N/A	No	No	N/A	No	No	0
662	Ditidaht	6809	MALACHAN NO. 11 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
548	Doig River	6822	Doig River NO. 206 - Community Water Supply & Distribution Syst	Groundwater	High Freq, Low Mag	Design	Yes	Yes	No	No	No	0
561	Douglas	6984	PORT DOUGLAS ON DOUGLAS NO. 8 - Community Water Supply & Distrib	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
561	Douglas	6983	TIPELLA ON DOUGLAS NO. 8 - Community Water Supply & Distribution	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
634	Ehattesaht	9856	CHENAHKINT NO. 12 - Community Water Supply & Distribution System	Surface Water	High Freq AND High Mag	Both	Yes	Yes	Yes	No	Yes	1
634	Ehattesaht	12239	EHATIS IR 11 - Community Water Supply & Distribution System - Sy	MTA	Meets Requirements	N/A	N/A	N/A	No	No	Yes	1
711	Esketemc	7046	ALKALI LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater	High Freq, Low Mag	Design	Yes	Yes	Yes	No	Yes	1
644	Esquimalt	6790	ESQUIMALT - Community Water Supply & Distribution System - Syst	MTA	Meets Requirements	N/A	No	No	No	No	No	0
543	Fort Nelson First Nation	6818	FORT NELSON NO. 2 - Community Water Supply & Distribution System	MTA	Low Freq, Low Mag	Design	Yes	No	No	No	No	0
531	Gitanmaax	6781	GITANMAAX NO. 1 - Community Water Supply & Distribution System -	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
537	Gitanyow	6785	GITANYOW NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
535	Gitsegukla	6784	GITSEGUKLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
536	Gitwangak	9782	Gitwangak 1 - Community Water Supply & Distribution System - Sys	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
672	Gitxaala Nation	6953	DOLPHIN ISLAND NO. 1 - Community Water Supply & Distribution Sys	Surface Water	Meets Requirements	Design	N/A	N/A	No	No	No	0
533	Glen Vowell	6782	SIK-E-DAKH NO. 2 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
724	GwaSala-Nakwaxdaxw	6825	TSULQUATE NO. 4 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	No	N/A	N/A	No	No	0
627	Gwawaenuk Tribe	7124	HOPETOWN NO. 10A - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
534	Hagwilget Village	6786	HAGWILGET NO. 1 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
645	Halalt	6791	HALALT NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
546	Halfway River First Nation	6820	HALFWAY RIVER NO. 168 - Community Water Supply & Distribution Sy	Groundwater GUDI	High Freq AND High Mag	Design	No	Yes	No	No	No	0
675	Hartley Bay	6956	KULKAYU (HARTLEY BAY) NO. 4 - Community Water Supply & Distribut	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
538	Heiltsuk	6957	BELLA BELLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	Yes	Yes	1
661	Hesquiaht	6808	REFUGE COVE NO. 6 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
552	Homalco	7098	HOMALCO NO. 9 - Community Water Supply & Distribution System - S	MTA	Low Freq, Low Mag	Unknown	No	Yes	No	No	No	0
664	Hupacasath First Nation	6811	AHAHSWINIS NO. 1 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
664	Hupacasath First Nation	6812	KLEHKOOT NO. 2 - Community Water Supply & Distribution System -	Surface Water	Meets Requirements	N/A	N/A	N/A	No	Yes	No	0
663	Huu-ay-aht First Nations	6810	ANACLA NO. 12 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
683	Iskut	7072	ISKUT NO. 6 - Community Water Supply & Distribution System - Sys	Groundwater	Meets Requirements	N/A	N/A	No	No	No	Yes	1
638	Ka:yu:kth/Che:k:tlas7eth First Nations	6829	HOUPSITAS NO. 6 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Operation	Yes	No	No	Yes	Yes	1
688	Kamloops	6839	KAMLOOPS NO. 1 - Community Water Supply & Distribution System -	Surface Water	Meets Requirements	N/A	No	No	N/A	No	No	0
704	Kanaka Bar	6877	NEKLIPTUM NO. 1 - Community Water Supply & Distribution System -	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	Yes	Yes	1
563	Katzie	6991	BARNSTON ISLAND NO. 3 - Community Water Supply & Distribution Sy	MTA	Meets Requirements	N/A	No	No	No	No	No	0
563	Katzie	6986	KATZIE NO. 1 - Community Water Supply & Distribution System - Sy	MTA	Meets Requirements	N/A	No	No	N/A	No	No	0
563	Katzie	6989	KATZIE NO. 2 - Community Water Supply & Distribution System - Sy	MTA	Meets Requirements	N/A	No	No	No	No	No	0
532	Kispiox	6783	KISPIOX NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
676	Kitamaat	6945	KITAMAAT NO. 2 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
540	Kitasoo	6959	KITASOO NO. 1 - Community Water Supply & Distribution System - Sy	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	Yes	No	0
680	Kitselas	6946	KITSELAS NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
680	Kitselas		KULSPA 6 - COMMUNITY WATER SYSTEM	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
681	Kitsumkalum	6947	KITSUMKAYLUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
553	Klahoose First Nation	6962	TORK NO. 7 - Community Water Supply & Distribution System - Syst	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
721	Kluskus	7065	KLUSKUS NO. 1 - Community Water Supply & Distribution System - S	Groundwater	High Freq AND High Mag	Both	Yes	Yes	Yes	Yes	Yes	1
610	Kwadacha First Nation	6944	Fort Ware NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
626	Kwakiutl	6824	FORT RUPERT NO. 1 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
564	Kwantlen First Nation	6992	MCMILLAN ISLAND NO. 6 - Community Water Distribution System	MTA	Meets Requirements	N/A	No	No	No	No	Yes	1
580	Kwaw-kwaw-Apilt		KWAW-KWAW-APILT 6 COMMUNITY WATER SYSTEM	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
625	Kwicksutaineuk-ah-kwaw-ah-mish	6823	GWAYASDUMS NO. 1 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
560	Kwikwetlem First Nation	17023	KWIKWETLAM Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	No	No	No	No	No	0
607	Lake Babine Nation	6930	Babine NO. 25 (Tachet) - Community Water Supply & Distribution	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
607	Lake Babine Nation	6929	Babine NO. 6 (Fort Babine) - Community Water Supply & Distributi	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0

First Nation Information		Water System Information			Water Quality Information							
Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
607	Lake Babine Nation	NEW001	WOYENNE NO. 27 - MTA WITH BURNS LAKE	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
643	Lake Cowichan First Nation	12281	COWICHAN LAKE - Community Water Supply & Distribution System -	MTA	High Freq AND High Mag	Both	Yes	No	No	No	No	0
674	Lax-kwalaams	6955	LAX KW'ALAAMS NO. 1 - Community Water Supply & Distribution Syst	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
579	Leq a: mel First Nation	7006	HOLACHTEN NO. 8 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
579	Leq a: mel First Nation	7008	LAKAHAHMEN NO. 11 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
579	Leq a: mel First Nation	7007	SKWEAHM NO. 10 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
611	Lheidli Tenneh	6926	FORT GEORGE NO. 2 (N. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	High Freq AND High Mag	Design	No	Yes	No	No	No	0
611	Lheidli Tenneh	6925	FORT GEORGE NO. 2 (S. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	Low Freq, Low Mag	Operation	Yes	No	No	Yes	No	0
689	Little Shuswap Lake	6845	NORTH BAY NO. 5 (Tappen System) - Community Water Supply & Distr	Groundwater	High Freq OR High Mag	Design	N/A	N/A	Yes	No	No	0
689	Little Shuswap Lake	6840	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Low Freq, Low Mag	Design	No	Yes	Yes	No	No	0
689	Little Shuswap Lake	6841	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
606	Lower Kootenay	6920	CRESTON NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
695	Lower Nicola	6864	Joeyaska No. 2 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	No	0
695	Lower Nicola	6860	Nicola Mameet No. 1 (Rocky Pines) - Community Water Supply & Di	Groundwater	Low Freq, Low Mag	N/A	N/A	N/A	No	No	No	0
695	Lower Nicola	6863	Nicola Mameet No. 1 (Shulus Springs) - Community Water Supply &	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No		3
695	Lower Nicola	6865	Zoht No. 4 - Community Water Supply & Distribution System - Syst	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
598	Lower Similkameen	6909	ASHNOLA NO. 10 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Unknown	Yes	No	Yes	Yes	No	0
598	Lower Similkameen	6906	BLIND CREEK NO. 6 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Unknown	Yes	No	Yes	Yes	No	0
598	Lower Similkameen	6907	CHOPAKA NO. 7 & 8 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Unknown	Yes	Yes	Yes	Yes	No	0
705	Lytton	6885	KITZOWIT NO. 20 - Community Water Supply & Distribution System -	Surface Water	Low Freq, Low Mag	Both	Yes	No	Yes	Yes	No	0
705	Lytton	6883	KLAHKAMICH NO. 17 - Community Water Supply & Distribution System	MTA	Low Freq, Low Mag	Design	Yes	No	Yes	No		26
705	Lytton	6884	KLICKKUMCHEEN NO. 18 - Community Water Supply & Distribution Sys	MTA	Low Freq, Low Mag	Design	Yes	No	Yes	No		26
705	Lytton	6882	LYTTON NO. 9A and NKAIH NO. 10) - Community Water Supply & Distr	Surface Water	Low Freq, Low Mag	Both	Yes	No	Yes	Yes	No	0
705	Lytton	6878	NICKEL PALM NO. 4 & 4A - Community Water Supply & Distribution S	Surface Water	Low Freq, Low Mag	Both	Yes	Yes	Yes	Yes	No	0
705	Lytton	6886	NICKEYEAH NO. 25 - Community Water Supply & Distribution System	Surface Water	Low Freq, Low Mag	Both	Yes	No	Yes	Yes	No	0
705	Lytton	6887	PAPYUM NO. 27 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
705	Lytton	6880	SEAH NO. 5 - Community Water Supply & Distribution System - Syst	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
705	Lytton	6881	STRYEN NO. 9, NUUAUTIN NO. 2, INKLUCKCHEEN NO. 21 - Community Wa	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
647	Malahat First Nation	6792	MALAHAT NO. 11 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	N/A	No	N/A	Yes	No	No	0
565	Matsqui	6993	MATSQUI MAIN NO. 2 - Community Water Supply & Distribution Syste	MTA	Meets Requirements	N/A	Yes	Yes	No	No	No	0
618	McLeod Lake	6927	MCLEOD LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	Meets Requirements	N/A	N/A	N/A	No	No	No	0
673	Metlakatla	6954	S1/2 TSIMPSEAN NO. 2 - Community Water Supply & Distribution Sys	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
530	Moricetown	6780	MORICETOWN NO. 1- Community Water Supply & Distribution System -	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
557	Mount Currie	6981	MOUNT CURRIE IR's: 10, 1, 8, 3 - Community Water Supply & Distri	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
557	Mount Currie	6980	MOUNT CURRIE NO. 6 - Community Water Supply & Distribution Syste	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
630	Mowachah/Muchalaht	9784	TSA XANA NO. 18 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	No	Yes	No	No	No	0
550	Musqueam	7070	MUSQUEAM NO. 2 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
612	Nadleh Whuten	6923	NAUTLEY NO. 1 (Fort Fraser) - Community Water Supply & Distribut	Groundwater	High Freq AND High Mag	Design	No	Yes	No	No	Yes	1
612	Nadleh Whuten	6924	SEASPUNKUT NO. 4 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
614	Nakazdli	6937	NAK'AZDLI - Community Water Supply & Distribution System - Syste	MTA	Low Freq, Low Mag	Unknown	No	Yes	No	No	No	0
614	Nakazdli	6939	WILLIAMS PRAIRIE MEADOW NO. 1A - Community Water Supply & Distri	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
631	Namgis First Nation	6826	ALERT BAY NO. 1 & NO. 1A - Community Water Supply & Distribution	Groundwater	Meets Requirements	N/A	No	No	No	No	No	0
649	Nanoose First Nation	6796	NANOOSE IR - Community Water Supply & Distribution System	Groundwater	Meets Requirements	Operation	Yes	No	No	No		2
720	Nazko	7064	NAZKO NO. 20 - Community Water Supply & Distribution System - Sy	Groundwater	High Freq AND High Mag	Design	Yes	Yes	Yes	No	Yes	1
726	Nee-Tahi-Buhn		THREE NATIONS WATER SYSTEM	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
690	Neskonlith	7116	NESKONLITH NO 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
690	Neskonlith	6846	NESKONLITH NO. 2 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	No	No	N/A	No	No	0
690	Neskonlith	6847	SWITSEMALPH NO. 3 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	No	No	No	No	No	0
696	Nicomen	6866	NICOMEN NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	Yes	1
671	Nisgaa Village of Gingolx	9669	KINCOLITH NO. 14 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
679	Nisgaa Village of Gitwinksihlkw	9665	GITWINKSIHLKW NO. 7 - Community Water Supply & Distribution Syst	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
678	Nisgaa Village of Laxgaltsap	9663	LACHKALTSAP NO. 9 (Village) - Community Water Supply & Distribut	Groundwater GUDI	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
677	Nisgaa Village of New Aiyansh	9667	NEW AIYANSH NO. 1 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0

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Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
699	Nooaitch	6871	NOOAITCH NO. 10 (Main Community) - Community Water Supply & Dist	Groundwater	Low Freq, Low Mag	Design	No	Yes	No	No	No	0
556	NQuatqua	6976	NEQUATQUE NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
556	NQuatqua	6977	NEQUATQUE NO. 2 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	No	0
639	Nuchatlaht	9792	OCLUCJE NO. 7 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
539	Nuxalk Nation	6958	BELLA COOLA NO. 1 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
616	Okanagan	6893	OKANAGAN NO. 1 (Bradley Creek) - Community Water Supply & Distri	Groundwater GUDI	High Freq OR High Mag	Design	Yes	Yes	Yes	Yes	Yes	1
616	Okanagan	6898	OKANAGAN NO. 1 (Irish Creek) - Community Water Supply & Distribu	Groundwater GUDI	Low Freq, Low Mag	Design	Yes	N/A	Yes	Yes	No	0
616	Okanagan	6896	OKANAGAN NO. 1 (Round Lake) - Community Water Supply & Distribut	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
616	Okanagan	6900	OKANAGAN NO. 1 (Salmon River) - Community Water Supply & Distrib	Groundwater	Low Freq, Low Mag	Design	N/A	N/A	No	No	No	0
616	Okanagan	6894	OKANAGAN NO. 1 (Six Mile) - Community Water Supply & Distributio	Groundwater	Low Freq, Low Mag	Design	N/A	N/A	No	No	No	0
616	Okanagan	6895	OKANAGAN NO. 1 (Whiteman Creek) - Community Water Supply & Distr	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
669	Old Massett Village Council	6951	MASSET NO. 1 - Community Water Supply & Distribution System - Sy	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
692	Oregon Jack Creek	6852	Upper Nepa No. 6 - Community Water Supply & Distribution System	Groundwater	High Freq OR High Mag	Design	No	Yes	No	No	No	0
596	Osoyoos	6901	OSOYOOS NO. 1 (Main System) - Community Water Supply & Distribut	Groundwater	High Freq OR High Mag	Both	Yes	Yes	Yes	Yes	Yes	1
541	Oweekeno/Wuikinuxv Nation	6960	KATIT NO. 1 - Community Water Supply & Distribution System - Sys	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No		2
652	Pauquachin	6799	COLE BAY NO. 3 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
650	Penelakut	6797	KUPER ISLAND NO. 7 - Community Water Supply & Distribution Syste	Groundwater	Low Freq, Low Mag	Unknown	Yes	Yes	No	Yes	No	0
650	Penelakut	12279	TSUSSIE No. 6 - Community Water Supply & Distribution System - S	MTA	Low Freq, Low Mag	Operation	Yes	No	No	Yes	No	0
597	Penticton	6903	PENTICTON NO. 1 (L. Village) - Community Water Supply & Distribu	Groundwater	Low Freq, Low Mag	Design	Yes	No	No	No	No	0
597	Penticton	6904	PENTICTON NO. 1 (U. Village) - Community Water Supply & Distribu	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
544	Prophet River First Nation	6817	PROPHET RIVER NO. 4 - Community Water Supply & Distribution Syst	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
651	Qualicum First Nation	6798	QUALICUM - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
633	Quatsino	7075	QUATSINO SUBDIVISION NO. 18 - Community Water Supply & Distribut	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
715	Red Bluff	7058	QUESNEL NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
615	Saikuz First Nation	6936	LAKETOWN NO. 3 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	No	Yes	No	No	No	0
615	Saikuz First Nation	6935	STONY CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Design	No	Yes	No	No	No	0
567	Samahquam	6994	BAPTISTE SMITH NO. 1B - Community Water Supply & Distribution Sy	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No		2
542	Saulteau First Nations	6816	EAST MOBERLY LAKE NO. 169 - Community Water Supply & Distributio	Groundwater	Low Freq, Low Mag	Design	Yes	No	No	No	No	0
568	Scowlitz	6995	SCOWLITZ NO. 1 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Operation	No	Yes	No	No	Yes	1
568	Scowlitz	6996	SQUAWKUM CREEK NO. 3 - Community Water Supply & Distribution Sys	Groundwater	Meets Requirements	N/A	No	No	No	No	No	0
581	Seabird Island	7009	SEABIRD ISLAND - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
551	Sechelt	9790	SECHELT NO. 2 - Community Water Supply & Distribution System - S	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
569	Semiahmoo	6997	SEMIAMMOO IR - Community Water Supply & Distribution System - Sy	MTA	High Freq OR High Mag	Design	Yes	No	Yes	No	Yes	1
595	Seton Lake	7041	SLOSH NO. 1 (Seton Portage) - Community Water Supply & Distribut	Groundwater	Low Freq, Low Mag	Both	Yes	N/A	No	Yes	Yes	1
595	Seton Lake	7040	SLOSH NO. 1 (Shalath) - Community Water Supply & Distribution Sy	Groundwater	Low Freq, Low Mag	Both	Yes	No	Yes	No	No	0
595	Seton Lake	7042	SLOSH NO. 1 (Skiel Mtn) - Community Water Supply & Distribution	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
698	Shackan	6869	SHACKAN NO. 11 (Main Village) - Community Water Supply & Distrib	Groundwater GUDI	Low Freq, Low Mag	Design	No	Yes	No	No	No	0
605	Shuswap	NEW001	KINBASKET TRAILER PARK WATER SYSTEM	Surface Water	High Freq AND High Mag	Design	Yes	No	Yes	No	Yes	1
605	Shuswap	6918	SHUSWAP (Shuswap Village) - Community Water Supply & Distributio	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
605	Shuswap	6919	SHUSWAP (Stoddard Village) - Community Water Supply & Distributi	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
570	Shxwhá:y Village	9858	SKWAY NO. 5 - Community Water Supply & Distribution System - Sys	MTA	Meets Requirements	N/A	No	No	No	No	No	0
587	Shxw'ow'hamel First Nation	7025	OHAMIL NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	Yes	1
691	Simpcw First Nation	6848	NORTH THOMPSON NO. 1 (Newhykulston Creek - Main Village)- Commu	Groundwater	High Freq OR High Mag	Design	No	Yes	No	No	No	0
691	Simpcw First Nation	6849	NORTH THOMPSON NO. 1 (Chinook Cove) - Community Water Supply & D	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
691	Simpcw First Nation	6850	NORTH THOMPSON NO. 1 (Louisa Jules) - Community Water Supply & D	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
706	Siska	6888	SISKA FLAT NO. 3 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
706	Siska	6889	SISKA FLAT NO. 5B - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
562	Skatin Nations	6985	SKOOKUMCHUCK NO. 4 - Community Water Supply & Distribution Syste	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
582	Skawahlook First Nation	7011	RUBY CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
687	Skeetchestn		SKEETCHESTN - SOUTH ECONOMIC DEVELOPMENT PARCEL WATER SYSTEM	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
687	Skeetchestn	6837	SKEETCHESTN (Main Community) - Community Water Supply & Distribu	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
687	Skeetchestn	6838	SKEETCHESTN (Main Community)- Community Water Supply & Distribut	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
670	Skidegate	6952	SKIDEGATE NO. 1 - Community Water Supply & Distribution System -	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0

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Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
729	Skin Tyee		THREE NATIONS WATER SYSTEM	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
571	Skowkale		SKOWKALE COMMUNITY WATER SYSTEM	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
707	Skuppah	6890	SKUPPAH NO. 2 - Community Water Supply & Distribution System - S	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	Yes	Yes	1
573	Skwah	7114	SKWAH NO. 4 - Community Water Supply & Distribution System - Sys	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
554	Sliammon	6963	SLIAMMON NO. 1 - Community Water Supply & Distribution System -	Surface Water	Low Freq, Low Mag	Operation	Yes	N/A	No	Yes	No	0
648	Snuneymuxw First Nation	6794	NANAIMO RIVER NO. 3 - Community Water Supply & Distribution Syst	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
648	Snuneymuxw First Nation	6795	NANAIMO RIVER NO. 4 - Community Water Supply & Distribution Syst	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
648	Snuneymuxw First Nation	6793	NANAIMO TOWN NO. 1 - Community Water Supply & Distribution Syste	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
716	Soda Creek	7060	DEEP CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater GUDI	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
716	Soda Creek	7059	SODA CREEK NO. 1 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
656	Songhees First Nation	9788	NEW SONGHEES NO. 1A - Community Water Supply & Distribution Syst	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
572	Sowahlie	6999	SOOWAHLIE NO. 14 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
600	Spallumcheen	6911	ENDERBY NO. 2 (Canyon) - Community Water Supply & Distribution S	Groundwater	Low Freq, Low Mag	Design	No	Yes	Yes	No	No	0
600	Spallumcheen	6912	ENDERBY NO. 2 (Jack Pine) - Community Water Supply & Distributio	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	No	0
708	Spuzzum	6892	SPUZZUM NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
555	Squamish	6966	CAPILANO NO. 5 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
555	Squamish	6972	CHEAKAMUS NO. 11 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
555	Squamish		KOWTAIN NO. 17 - Community Water System	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
555	Squamish	6964	MISSION NO. 1 - Community Water Supply & Distribution System - S	MTA	Low Freq, Low Mag	Unknown	No	Yes	No	No	No	0
555	Squamish	6965	SEYMOUR CREEK NO. 2 - Community Water Supply & Distribution Syst	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
555	Squamish	6975	STAWAMUS NO. 24 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
555	Squamish	6974	WAIWAKUM NO. 14 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
555	Squamish		YEKWAUPSUM NO. 18 - Community Water System	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
574	Squiala First Nation	7000	SQUIAALA NO. 7 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	No	No	No	No	No	0
574	Squiala First Nation		SQUIAALA NO. 8 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
602	St. Marys	6915	KOOTENAY NO. 1 - Community Water Supply & Distribution System -	Groundwater	Low Freq, Low Mag	Design	Yes	No	No	No	No	0
613	Stellat'en First Nation	6932	STELLAQUO (STELLA) NO. 1 (Northside Subd)- Community Water Supp	Groundwater	High Freq OR High Mag	Design	Yes	Yes	Yes	No	No	0
717	Stone	7061	STONE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
578	Sumas First Nation	7005	UPPER SUMAS NO. 6 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Operation	Yes	No	No	Yes	No	0
682	Tahltan	6950	DEASE LAKE NO. 9 - Community Water Supply & Distribution System	Groundwater	High Freq OR High Mag	Operation	Yes	No	No	Yes	No	0
682	Tahltan	6949	TELEGRAPH CREEK NO. 6 - Community Water Supply & Distribution Sy	Groundwater	High Freq, Low Mag	Both	Yes	Yes	No	No	No	0
608	Takla Lake First Nation	6931	NORTH TAKLA LAKE NO. 7 - Community Water Supply & Distribution S	Surface Water	Low Freq, Low Mag	Operation	Yes	Yes	No	Yes	No	0
593	T'it'q'et	7037	LILLOOET NO. 1 (T'it'q'et Heights Subd) - Community Water Supply	MTA	Meets Requirements	N/A	N/A	N/A	No	No	Yes	1
593	T'it'q'et	7035	MCCARTNEY'S FLAT NO. 4 - Community Water Supply & Distribution S	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
593	T'it'q'et	7036	SETON LAKE NO. 5 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
593	T'it'q'et	7034	TOWINOCK NO. 2 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
660	Tla-o-qui-aht First Nations	6807	ESOWISTA NO. 3 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
660	Tla-o-qui-aht First Nations	6806	OPITSAT NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
632	Tlatlasikwala	6827	HOPE ISLAND NO. 1 - Community Water Supply & Distribution System	Surface Water	Meets Requirements	N/A	N/A	N/A	No	No	No	0
617	Tl'azt'en Nation	6941	BINCHE NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater GUDI	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
617	Tl'azt'en Nation	6943	DZITLINE LEE NO. 9 (Middle River aka Gelangle 1) - Community Wat	Surface Water	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
617	Tl'azt'en Nation	6940	TACHE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Low Freq, Low Mag	Operation	No	No	No	No	Yes	1
712	Tl'etinnox-t'in Government Office	7048	ANAHIM'S FLAT NO. 1 (Main System) - Community Water Supply & Dis	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
603	Tobacco Plains	6916	TOBACCO PLAINS NO. 2 - Community Water Supply & Distribution Sys	Groundwater	High Freq OR High Mag	Both	Yes	No	No	No	Yes	1
718	Toosey	7062	TOOSEY NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	Low Freq, Low Mag	Design	Yes	Yes	Yes	No	Yes	1
666	Toquaht	7123	MACOAH NO. 1 - Community Water Supply & Distribution System - Sy	Surface Water	High Freq AND High Mag	Design	Yes	Yes	Yes	No	Yes	1
653	Tsartlip	9836	SOUTH SAANICH NO. 1 - Community Water Supply & Distribution Syst	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
636	Tsawataineuk	6828	QUAEE NO. 7 - Community Water Supply & Distribution System - Sys	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
654	Tsawout First Nation	6800	EAST SAANICH NO. 2- Community Water Supply & Distribution System	MTA	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0
577	Tsawwassen First Nation	7004	TSAWWASSEN - Community Water Supply & Distribution System - Syst	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
609	Tsay Keh Dene	7106	FINLAY RIVER (reserve name not changed yet) - Community Water Su	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
665	Tsashaht	6813	TSAHAHEH NO. 1 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
655	Tseycum	6801	UNION BAY NO. 4 - Community Water Supply & Distribution System -	MTA	Low Freq, Low Mag	Operation	Yes	No	No	No	No	0

First Nation Information		Water System Information			Water Quality Information							
Band #	Band Name	System #	System Name	Water Source	Meets/Does Not Meet GCDWQ	Cause of Failure	Quality - Fails Health Guidelines	Fails Aesthetic Guidelines	Fails MAC by Design	Fails MAC by Operation	DWA In Effect	DWA Count
594	Tskwaylaxw First Nation	7039	Marble Canyon No. 3 (aka Marble Canyon 3A) - Community Water Sup	Groundwater	High Freq OR High Mag	Design	Yes	Yes	Yes	No	No	0
594	Tskwaylaxw First Nation	7038	PAVILION NO. 1 - Community Water Supply & Distribution System -	Groundwater	High Freq OR High Mag	Design	No	Yes	No	No	Yes	1
657	TSou-ke First Nation	6802	T'SOU-KE NO. 1 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
657	TSou-ke First Nation	6803	T'SOU-KE NO. 2 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
575	Tzeachten	7003	TZEACHTEN NO. 13 - Community Water Supply & Distribution System	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
667	Uchucklesaht	6814	ELHLATEESE NO. 2 - Community Water Supply & Distribution System	Groundwater	Low Freq, Low Mag	Design	Yes	No	No	No	Yes	1
668	Ucluelet First Nation	6815	ITTATSOO NO. 1 - Community Water Supply & Distribution System -	MTA	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
722	Ulkatcho	7067	ULKATCHO NO. 14A - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	No	No	N/A	No	No	0
697	Upper Nicola	6868	DOUGLAS LAKE NO. 3 - Community Water Supply & Distribution Syste	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	Yes	1
697	Upper Nicola	6867	NICOLA LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	High Freq OR High Mag	Design	Yes	Yes	No	No	No	0
599	Upper Similkameen	6910	CHUCHUWAYHA NO. 2 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
545	West Moberly First Nations	6819	WEST MOBERLY LAKE NO. 168A - Community Water Supply & Distributi	Surface Water	High Freq, Low Mag	Both	Yes	Yes	No	Yes	No	0
601	Westbank First Nation	6914	TSINSTIKEPTUM NO. 10 - Community Water Supply & Distribution Sys	Surface Water	High Freq AND High Mag	Design	Yes	No	No	No	No	0
601	Westbank First Nation	6913	TSINSTIKEPTUM NO. 9 - Community Water Supply & Distribution Syst	Surface Water	High Freq AND High Mag	Design	Yes	No	No	No	No	0
725	Wetsuweten First Nation	6922	DUNCAN LAKE NO. 2 - Community Water Supply & Distribution System	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
725	Wetsuweten First Nation	6921	PALLING NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Low Freq, Low Mag	Design	Yes	No	Yes	No	No	0
702	Whispering Pines/Clinton	7073	WHISPERING PINES NO. 4 - Band Office & Community Water System	Groundwater	High Freq AND High Mag	Design	Yes	Yes	Yes	No	Yes	1
702	Whispering Pines/Clinton	7074	WHISPERING PINES NO. 4 - Community Water Supply & Distribution S	Groundwater	Low Freq, Low Mag	Design	N/A	Yes	No	No	No	0
702	Whispering Pines/Clinton		WHISPERING PINES NO. 4 - Ed Lebourdais Community Water System	Groundwater	High Freq AND High Mag	Design	No	No	No	No	No	0
719	Williams Lake	7063	WILLIAMS LAKE NO. 1 - Community Water Supply & Distribution Syst	Groundwater	High Freq OR High Mag	Design	Yes	Yes	Yes	No	Yes	1
592	Xaxli'p	7033	CHILHIL NO. 6 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
592	Xaxli'p	7031	FOUNTAIN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0
714	Xeni Gwet'in First Nations Government	7055	CHILCO LAKE NO. 1A - Community Water Supply & Distribution Syste	Surface Water	High Freq AND High Mag	Design	Yes	No	Yes	No	Yes	1
714	Xeni Gwet'in First Nations Government	7056	LOHBIEE NO. 3 - Community Water Supply & Distribution System - S	Groundwater	Meets Requirements	Unknown	No	No	No	No	Yes	1
576	Yakweakwoose	9671	YAKWEAKWIOOSE NO. 12 - Community Water Supply & Distribution Sys	MTA	Meets Requirements	N/A	N/A	N/A	No	No	No	0
589	Yale First Nation	7027	LUKSEETSISUM NO. 9 - Community Water Supply & Distribution Syst	Groundwater	Low Freq, Low Mag	Design	Yes	N/A	No	No	No	0
589	Yale First Nation	7026	STULLAWHEETS NO. 8 - Community Water Supply & Distribution Syste	Groundwater	Meets Requirements	N/A	N/A	N/A	No	No	No	0
728	Yekooche	6942	YE KOO CHE NO. 3 - Community Water Supply & Distribution System	Groundwater GUDI	Meets Requirements	N/A	N/A	N/A	N/A	No	No	0

Table D.1 - 3: Regional Summary of Water Operator Information

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
684	Adams Lake	NEW001	SAHHALTKUM NO. 4 - ANTHONY ANDREW AND ARNOUSE	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
684	Adams Lake	6830	SAHHALTKUM NO. 4 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
684	Adams Lake	6831	SWITSEMALPH NO. 6 - Community Water Supply & Distribution System	MTA	Yes	Not Required	Level I	Yes	Not Required	
659	Ahousaht	6805	MARKTOSIS NO. 15 (Maaqtusiis Village) - Community Water Supply &	Surface Water	Yes	Level I	No Certification	Yes	Not Required	No Certification
604	Akisqnuq First Nation		COLUMBIA LAKE NO. 3 - CENTRAL COMMUNAL WATER SYSTEM	Groundwater	Yes	Not Required	No Certification	No	Not Required	No Operator
604	Akisqnuq First Nation	6917	COLUMBIA LAKE NO. 3- Community Water Supply & Distribution Syste	Groundwater	Yes	Not Required	No Certification	No	Not Required	No Operator
709	Alexandria	7043	ALEXANDRIA NO. 3- Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	No	No Certification	No Certification
710	Alexis Creek		MICHEL GARDENS NO. 36 - COMMUNITY WATER SYSTEM	Groundwater GUDI	Yes	No Certification	No Operator	Yes	No Certification	No Certification
710	Alexis Creek	7044	REDSTONE FLAT NO. 1 - Community Water Supply & Distribution Syst	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
685	Ashcroft	6832	ASHCROFT NO. 2 & NO. 4 - Community Water Supply & Distribution S	Groundwater	Yes	Not Required	Level I	No	Not Required	No Operator
640	Beecher Bay	6787	BEECHER BAY NO. 1 - Community Water Supply & Distribution System	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
547	Blueberry River First Nations	6821	BLUEBERRY RIVER NO. 205 - Community Water Supply & Distribution	Groundwater	Yes	Level I	No Certification	Yes	Not Required	No Operator
686	Bonaparte	6836	BONAPARTE NO. 3- Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	No	No Certification	No Certification
686	Bonaparte		BONAPARTE NO.1 UPPER HAT CREEK - COMMUNITY SUPPLY & DISTRIBUTIO	Surface Water	Yes	No Certification	No Operator	No	Not Required	No Operator
700	Boothroyd	6873	KAHMOOSE NO. 4- Community Water Supply & Distribution System - S	Groundwater GUDI	Yes	Not Required	No Certification	Yes	No Certification	No Certification
701	Boston Bar First Nation	6876	KOPCHITCHIN NO. 2 - Community Water Supply & Distribution System	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification
701	Boston Bar First Nation	6875	TUCKKIOWHUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Yes	Level I	Level I	Yes	No Certification	No Certification
590	Bridge River	7028	BRIDGE RIVER NO. 1 (Main Village) - Community Water Supply & Dis	Surface Water	Yes	No Certification	No Operator	Yes	No Certification	No Certification
590	Bridge River	7030	BRIDGE RIVER NO. 1 (Orchard Springs) - Community Water Supply &	Surface Water	Yes	No Certification	No Operator	Yes	No Certification	No Certification
619	Burns Lake	7068	BURNS LAKE NO. 18- Community Water Supply & Distribution System	MTA	Yes	Not Required	No Certification	No	Not Required	No Certification
549	Burrard	6961	BURRARD INLET NO. 3- Community Water Supply & Distribution Syste	MTA	Yes	No Certification	No Operator	Yes	No Certification	No Certification
622	Campbell River	7125	CAMPBELL RIVER NO. 11- Community Water Supply & Distribution Sys	MTA	Yes	Not Required	No Certification	No	Not Required	No Certification
713	Canim Lake	9751	Canim Lake No. 1 (E. Subd) - Community Water Supply & Distributi	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
713	Canim Lake	9752	Canim Lake No. 1 (Main Village) - Community Water Supply & Distr	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
713	Canim Lake	9753	Canim Lake No. 1 (W. Subd) - Community Water Supply & Distributi	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
723	Canoe Creek	7053	CANOE CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
723	Canoe Creek	7054	DOG CREEK NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
623	Cape Mudge	9779	Cape Mudge No. 10 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
623	Cape Mudge	9778	Quisam No. 12 - Community Water Supply & Distribution System - S	MTA	Yes	No Certification	No Certification	No	Not Required	No Certification
591	Cayooshe Creek	9794	CAYOOSH CREEK No. 1 - Community Water Supply & Distribution Syst	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
591	Cayooshe Creek	9795	PASHILQUA No. 2 - Community Water Supply & Distribution System -	Groundwater GUDI	Yes	No Certification	No Operator	Yes	No Certification	No Certification
583	Chawathil	7017	CHAWATHIL NO. 4 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
583	Chawathil	7015	SCHKAM NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
584	Cheam		CHEAM NO. 1 - East Hillside Subdivision Water System	Groundwater	Yes	Not Required	No Certification	Yes	Not Required	No Certification
584	Cheam	7020	CHEAM NO. 1- Community Water Supply & Distribution System - Syst	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
559	Chehalis	6982	CHEHALIS NO. 5 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
641	Chemainus First Nation	6789	CHEMAINUS NO. 13 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
641	Chemainus First Nation	6788	OYSTER BAY NO. 12 (North) - Community Water Supply & Distributio	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
641	Chemainus First Nation	12280	SQUAW-HAY-ONE NO.11 - Community Water Supply & Distribution Syst	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
620	Cheslatta Carrier Nation	7069	CHESLATTA NO. 1 (3 Nations) Community Water Treatment System - S	Surface Water	Yes	Not Required	No Operator	Yes	Not Required	No Operator
693	Coldwater	6854	COLDWATER NO. 1 (Kwinshatin) - Community Water Supply & Distribu	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
693	Coldwater	6855	COLDWATER NO. 1 (Lower Kwinshatin) - Community Water Supply & Di	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
693	Coldwater	6853	COLDWATER NO. 1 (Skugan) - Community Water Supply & Distribution	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
624	Comox	9758	COMOX IR #1 - Community Water Supply & Distribution System - Sys	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
694	Cook's Ferry	6857	KUMCHEEN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
642	Cowichan	9774	COWICHAN NO. 1 & IR NO. 9 Community Water Supply & Distribution	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
642	Cowichan	9773	COWICHAN NO. 1 (Trestle /Miller Rd) - Community Water Supply & D	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
642	Cowichan		COWICHAN NO.1 - Community Water Supply and Distribution	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
642	Cowichan		COWICHAN NO.9 - (Peter Rd) - Community Water Supply & Distributi	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
642	Cowichan		COWICHAN NO.9 - (River Bottom Rd) - Community Water Supply & Dis	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
642	Cowichan		COWICHAN NO.9 - (Tommy Rd) - Community Water Supply & Distributi	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
642	Cowichan	12259	THEIK NO. 2 & KIL-PAH-LAS NO. 3 - Community Water Supply & Distr	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
635	Da'naxda'xw First Nation	17018	DEAD POINT 5	Groundwater	Yes	No Certification	No Operator	No	No Certification	No Certification
662	Ditidaht	6809	MALACHAN NO. 11 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	Level I	Yes	No Certification	No Certification
548	Doig River	6822	Doig River NO. 206 - Community Water Supply & Distribution Syst	Groundwater	Yes	Level I	No Operator	Yes	Not Required	No Operator
561	Douglas	6984	PORT DOUGLAS ON DOUGLAS NO. 8 - Community Water Supply & Distrib	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
561	Douglas	6983	TIPELLA ON DOUGLAS NO. 8 - Community Water Supply & Distribution	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
634	Ehattesaht	9856	CHENAHKINT NO. 12 - Community Water Supply & Distribution System	Surface Water	No	Not Required	No Operator	No	Not Required	No Operator
634	Ehattesaht	12239	EHATIS IR 11 - Community Water Supply & Distribution System - Sy	MTA	Yes	No Certification	No Certification	No	Not Required	
711	Esketemc	7046	ALKALI LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
644	Esquimalt	6790	ESQUIMALT - Community Water Supply & Distribution System - Syst	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
543	Fort Nelson First Nation	6818	FORT NELSON NO. 2 - Community Water Supply & Distribution System	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
531	Gitanmaax	6781	GITANMAAX NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level II	Level II	Yes	Level II	Level II
537	Gitanyow	6785	GITANYOW NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
535	Gitsegukla	6784	GITSEGUKLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification
536	Gitwangak	9782	Gitwangak 1 - Community Water Supply & Distribution System - Sys	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
672	Gitxaala Nation	6953	DOLPHIN ISLAND NO. 1 - Community Water Supply & Distribution Sys	Surface Water	Yes	Level I	Level I	Yes	Not Required	No Operator
533	Glen Vowell	6782	SIK-E-DAKH NO. 2 - Community Water Supply & Distribution System	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification
724	GwaSala-Nakwaxdaxw	6825	TSULQUATE NO. 4 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	Level I	No	Not Required	
627	Gwawaenuk Tribe	7124	HOPETOWN NO. 10A - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Certification	No	No Certification	No Certification
534	Hagwilget Village	6786	HAGWILGET NO. 1 - Community Water Supply & Distribution System -	MTA	Yes	Level I	Level I	No	Not Required	
645	Halalt	6791	HALALT NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
546	Halfway River First Nation	6820	HALFWAY RIVER NO. 168 - Community Water Supply & Distribution Sy	Groundwater GUDI	Yes	Not Required	No Operator	Yes	No Certification	No Certification
675	Hartley Bay	6956	KULKAYU (HARTLEY BAY) NO. 4 - Community Water Supply & Distribut	Surface Water	Yes	Level I	Level I	No	Not Required	No Operator
538	Heiltsuk	6957	BELLA BELLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Yes	Level II	Level I	Yes	No Certification	No Operator
661	Hesquiaht	6808	REFUGE COVE NO. 6 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	Level II	Yes	No Certification	No Operator
552	Homalco	7098	HOMALCO NO. 9 - Community Water Supply & Distribution System - S	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
664	Hupacasath First Nation	6811	AHAHSWINIS NO. 1 - Community Water Supply & Distribution System	MTA	No	No Certification	No Certification	No	No Certification	No Certification
664	Hupacasath First Nation	6812	KLEHKOOT NO. 2 - Community Water Supply & Distribution System -	Surface Water	No	No Certification	No Certification	No	No Certification	No Certification
663	Huu-ay-aht First Nations	6810	ANACLA NO. 12 - Community Water Supply & Distribution System - S	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
683	Iskut	7072	ISKUT NO. 6 - Community Water Supply & Distribution System - Sys	Groundwater	Yes	Not Required	No Certification	Yes	Not Required	Level I
638	Ka:yu:kth/Che:k:tes7eth First Nations	6829	HOUPSITAS NO. 6 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
688	Kamloops	6839	KAMLOOPS NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level II	No Certification	Yes	Level II	No Certification
704	Kanaka Bar	6877	NEKLIPTUM NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification
563	Katzie	6991	BARNSTON ISLAND NO. 3 - Community Water Supply & Distribution Sy	MTA	Yes	No Certification	No Certification	Yes	Not Required	
563	Katzie	6986	KATZIE NO. 1 - Community Water Supply & Distribution System - Sy	MTA	Yes	No Certification	No Certification	Yes	Not Required	
563	Katzie	6989	KATZIE NO. 2 - Community Water Supply & Distribution System - Sy	MTA	Yes	No Certification	No Certification	Yes	Not Required	
532	Kispiox	6783	KISPIOX NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	Level I	Level I	Yes	Not Required	No Operator
676	Kitamaat	6945	KITAMAAT NO. 2 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	Level I	Yes	No Certification	No Certification
540	Kitasoo	6959	KITASOO NO. 1- Community Water Supply & Distribution System - Sy	Surface Water	Yes	Level II	Level II	Yes	No Certification	No Certification
680	Kitselas	6946	KITSELAS NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	Not Required	No Operator
680	Kitselas		KULSPA 6 - COMMUNITY WATER SYSTEM	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
681	Kitsumkalum	6947	KITSUMKAYLUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Yes	Level I	Level I	Yes	Level I	Level I
553	Klahoose First Nation	6962	TORK NO. 7 - Community Water Supply & Distribution System - Syst	Groundwater	Yes	No Certification	No Certification	No	No Certification	No Certification
721	Kluskus	7065	KLUSKUS NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
610	Kwadacha First Nation	6944	Fort Ware NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Certification	Yes	No Certification	No Certification
626	Kwakiutl	6824	FORT RUPERT NO. 1 - Community Water Supply & Distribution System	MTA	No	Not Required		No	Not Required	
564	Kwantlen First Nation	6992	MCMILLAN ISLAND NO. 6 - Community Water Distribution System	MTA	Yes	Not Required	No Certification	No	No Certification	No Certification
580	Kwaw-kwaw-Apilt		KWAW-KWAW-APILT 6 COMMUNITY WATER SYSTEM	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
625	Kwicksutaineuk-ah-kwaw-ah-mish	6823	GWAYASDUMS NO. 1 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	No	No Certification	No Certification
560	Kwikwetlem First Nation	17023	KWIKWETLAM Community Water Supply & Distribution System	MTA	Yes	No Certification	No Certification	No	No Certification	No Certification
607	Lake Babine Nation	6930	Babine NO. 25 (Tachet) - Community Water Supply & Distribution	Surface Water	Yes	Level II	Level II	Yes	Not Required	No Certification
607	Lake Babine Nation	6929	Babine NO. 6 (Fort Babine) - Community Water Supply & Distributi	Surface Water	Yes	No Certification	No Certification	Yes	Level I	Level I

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
607	Lake Babine Nation	NEW001	WOYENNE NO. 27 - MTA WITH BURNS LAKE	MTA	No	Not Required		No	Not Required	
643	Lake Cowichan First Nation	12281	COWICHAN LAKE - Community Water Supply & Distribution System -	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
674	Lax-kwalaams	6955	LAX KW'ALAAMS NO. 1 - Community Water Supply & Distribution Syst	Surface Water	Yes	No Certification	No Certification	Yes	No Certification	No Certification
579	Leq a: mel First Nation	7006	HOLACHTEN NO. 8 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
579	Leq a: mel First Nation	7008	LAKAHAHMEN NO. 11 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
579	Leq a: mel First Nation	7007	SKWEAHM NO. 10 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
611	Lheidli Tenneh	6926	FORT GEORGE NO. 2 (N. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	Yes	Not Required	No Operator	Yes	Not Required	No Operator
611	Lheidli Tenneh	6925	FORT GEORGE NO. 2 (S. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	Yes	Not Required	No Operator	Yes	Not Required	No Operator
689	Little Shuswap Lake	6845	NORTH BAY NO. 5 (Tappen System) - Community Water Supply & Distr	Groundwater	Yes	Level I	Level II	Yes	Not Required	No Operator
689	Little Shuswap Lake	6840	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	Level I	Level II	Yes	Not Required	No Operator
689	Little Shuswap Lake	6841	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	Level I	Level II	Yes	Not Required	No Operator
606	Lower Kootenay	6920	CRESTON NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
695	Lower Nicola	6864	Joeyaska No. 2 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
695	Lower Nicola	6860	Nicola Mameet No. 1 (Rocky Pines) - Community Water Supply & Di	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
695	Lower Nicola	6863	Nicola Mameet No. 1 (Shulus Springs) - Community Water Supply &	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
695	Lower Nicola	6865	Zoht No. 4 - Community Water Supply & Distribution System - Syst	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
598	Lower Similkameen	6909	ASHNOLA NO. 10 - Community Water Supply & Distribution System -	Groundwater	No	No Certification	No Certification	No	No Certification	No Certification
598	Lower Similkameen	6906	BLIND CREEK NO. 6 - Community Water Supply & Distribution System	Groundwater	No	No Certification	No Certification	No	No Certification	No Certification
598	Lower Similkameen	6907	CHOPAKA NO. 7 & 8 - Community Water Supply & Distribution System	Groundwater	No	No Certification	No Certification	No	No Certification	No Certification
705	Lytton	6885	KITZOWIT NO. 20 - Community Water Supply & Distribution System -	Surface Water	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6883	KLAKHAMICH NO. 17 - Community Water Supply & Distribution System	MTA	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6884	KLICKKUMCHEEN NO. 18 - Community Water Supply & Distribution Sys	MTA	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6882	LYTTON NO. 9A and NKAIH NO. 10) - Community Water Supply & Distr	Surface Water	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6878	NICKEL PALM NO. 4 & 4A - Community Water Supply & Distribution S	Surface Water	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6886	NICKEYEAH NO. 25 - Community Water Supply & Distribution System	Surface Water	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6887	PAPYUM NO. 27 - Community Water Supply & Distribution System - S	Groundwater	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6880	SEAH NO. 5 - Community Water Supply & Distribution System - Syst	Groundwater	Yes	Level II	Level I	Yes	Level I	Level I
705	Lytton	6881	STRYEN NO. 9, NUUAUTIN NO. 2, INKLUCKCHEEN NO. 21 - Community Wa	Surface Water	Yes	Level II	Level I	Yes	Level I	Level I
647	Malahat First Nation	6792	MALAHAT NO. 11 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
565	Matsqui	6993	MATSQUI MAIN NO. 2 - Community Water Supply & Distribution Syste	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
618	McLeod Lake	6927	MCLEOD LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	Yes	Not Required	No Operator	No	No Certification	No Certification
673	Metlakatla	6954	S1/2 TSIMPSEAN NO. 2 - Community Water Supply & Distribution Sys	Surface Water	Yes	Level I	No Operator	Yes	No Certification	No Certification
530	Moricetown	6780	MORICETOWN NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level I	Level I	Yes	Level I	Level I
557	Mount Currie	6981	MOUNT CURRIE IR's: 10, 1, 8, 3 - Community Water Supply & Distri	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
557	Mount Currie	6980	MOUNT CURRIE NO. 6 - Community Water Supply & Distribution Syste	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
630	Mowachaht/Muchalaht	9784	TSA XANA NO. 18 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
550	Musqueam	7070	MUSQUEAM NO. 2 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	No Certification	Yes	Not Required	
612	Nadleh Whuten	6923	NAUTLEY NO. 1 (Fort Fraser) - Community Water Supply & Distribut	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
612	Nadleh Whuten	6924	SEASPUNKUT NO. 4 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
614	Nakazdli	6937	NAK'AZDLI - Community Water Supply & Distribution System - Syste	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
614	Nakazdli	6939	WILLIAMS PRAIRIE MEADOW NO. 1A - Community Water Supply & Distri	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
631	Namgis First Nation	6826	ALERT BAY NO. 1 & NO. 1A - Community Water Supply & Distribution	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
649	Nanoose First Nation	6796	NANOOSE IR - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	Level III	Yes	Not Required	No Operator
720	Nazko	7064	NAZKO NO. 20 - Community Water Supply & Distribution System - Sy	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
726	Nee-Tahi-Buhn		THREE NATIONS WATER SYSTEM	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
690	Neskonlith	7116	NESKONLITH NO 1 - Community Water Supply & Distribution System -	Groundwater	Yes	Level II	Level I	Yes	No Certification	No Certification
690	Neskonlith	6846	NESKONLITH NO. 2 - Community Water Supply & Distribution System	Surface Water	Yes	Level II	Level I	Yes	No Certification	No Certification
690	Neskonlith	6847	SWITSEMALPH NO. 3 - Community Water Supply & Distribution System	MTA	Yes	No Certification	Level II	Yes	Level IV	No Certification
696	Nicomien	6866	NICOMEN NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
671	Nisgaa Village of Gingolx	9669	KINCOLITH NO. 14 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
679	Nisgaa Village of Gitwinksihlkw	9665	GITWINKSIHLKW NO. 7 - Community Water Supply & Distribution Syst	Surface Water	Yes	Level I	Level II	Yes	Level I	Level II
678	Nisgaa Village of Laxgaltsap	9663	LACHKALTSAP NO. 9 (Village) - Community Water Supply & Distribut	Groundwater GUDI	Yes	Not Required	Level I	Yes	Not Required	No Operator
677	Nisgaa Village of New Aiyansh	9667	NEW AIYANSH NO. 1 - Community Water Supply & Distribution System	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
699	Nooaitch	6871	NOOAITCH NO. 10 (Main Community) - Community Water Supply & Dist	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
556	NQuatqua	6976	NEQUATQUE NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
556	NQuatqua	6977	NEQUATQUE NO. 2 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
639	Nuchatlaht	9792	OCLUCJE NO. 7 - Community Water Supply & Distribution System - S	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
539	Nuxalk Nation	6958	BELLA COOLA NO. 1 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	Level I	Yes	No Certification	No Certification
616	Okanagan	6893	OKANAGAN NO. 1 (Bradley Creek) - Community Water Supply & Distri	Groundwater GUDI	Yes	No Certification	Level I	Yes	No Certification	Level I
616	Okanagan	6898	OKANAGAN NO. 1 (Irish Creek) - Community Water Supply & Distribu	Groundwater GUDI	Yes	No Certification	Level I	Yes	No Certification	Level I
616	Okanagan	6896	OKANAGAN NO. 1 (Round Lake) - Community Water Supply & Distribut	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
616	Okanagan	6900	OKANAGAN NO. 1 (Salmon River) - Community Water Supply & Distrib	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
616	Okanagan	6894	OKANAGAN NO. 1 (Six Mile) - Community Water Supply & Distributio	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
616	Okanagan	6895	OKANAGAN NO. 1 (Whiteman Creek) - Community Water Supply & Distr	Groundwater	Yes	No Certification	Level I	Yes	No Certification	Level I
669	Old Massett Village Council	6951	MASSET NO. 1 - Community Water Supply & Distribution System - Sy	MTA	Yes	Not Required	Level I	Yes	Not Required	
692	Oregon Jack Creek	6852	Upper Nepa No. 6 - Community Water Supply & Distribution System	Groundwater	No	Not Required	No Operator	No	Not Required	No Operator
596	Osoyoos	6901	OSOYOOS NO. 1 (Main System) - Community Water Supply & Distribut	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
541	Oweekeno/Wuikinuxv Nation	6960	KATIT NO. 1 - Community Water Supply & Distribution System - Sys	Groundwater	Yes	Not Required	Level I	Yes	Not Required	No Operator
652	Pauquachin	6799	COLE BAY NO. 3 - Community Water Supply & Distribution System -	MTA	No	Not Required		No	Not Required	
650	Penelakut	6797	KUPER ISLAND NO. 7 - Community Water Supply & Distribution Syste	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
650	Penelakut	12279	TSUSSIE No. 6 - Community Water Supply & Distribution System - S	MTA	Yes	Not Required	No Certification	No	Not Required	No Certification
597	Penticton	6903	PENTICTON NO. 1 (L. Village) - Community Water Supply & Distribu	Groundwater	Yes	No Certification	Level I	No	No Certification	No Certification
597	Penticton	6904	PENTICTON NO. 1 (U. Village) - Community Water Supply & Distribu	Groundwater	Yes	No Certification	Level I	No	Not Required	No Operator
544	Prophet River First Nation	6817	PROPHET RIVER NO. 4 - Community Water Supply & Distribution Syst	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
651	Qualicum First Nation	6798	QUALICUM - Community Water Supply & Distribution System	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
633	Quatsino	7075	QUATSINO SUBDIVISION NO. 18 - Community Water Supply & Distribut	MTA	Yes	No Certification	No Certification	No	Not Required	
715	Red Bluff	7058	QUESNEL NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
615	Saikuz First Nation	6936	LAKETOWN NO. 3 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
615	Saikuz First Nation	6935	STONY CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
567	Samahquam	6994	BAPTISTE SMITH NO. 1B - Community Water Supply & Distribution Sy	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
542	Saulteau First Nations	6816	EAST MOBERLY LAKE NO. 169 - Community Water Supply & Distributio	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
568	Scowlitz	6995	SCOWLITZ NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
568	Scowlitz	6996	SQUAWKUM CREEK NO. 3 - Community Water Supply & Distribution Sys	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
581	Seabird Island	7009	SEABIRD ISLAND - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
551	Sechelt	9790	SECHELT NO. 2 - Community Water Supply & Distribution System - S	MTA	Yes	No Certification	No Certification	No	Not Required	
569	Semiahmoo	6997	SEMIAMMOO IR - Community Water Supply & Distribution System - Sy	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
595	Seton Lake	7041	SLOSH NO. 1 (Seton Portage) - Community Water Supply & Distribut	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
595	Seton Lake	7040	SLOSH NO. 1 (Shalath) - Community Water Supply & Distribution Sy	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
595	Seton Lake	7042	SLOSH NO. 1 (Skiei Mtn) - Community Water Supply & Distribution	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
698	Shackan	6869	SHACKAN NO. 11 (Main Village) - Community Water Supply & Distrib	Groundwater GUDI	Yes	No Certification	No Operator	Yes	No Certification	No Certification
605	Shuswap	NEW001	KINBASKET TRAILER PARK WATER SYSTEM	Surface Water	Yes	No Certification	Level I	No	Not Required	No Operator
605	Shuswap	6918	SHUSWAP (Shuswap Village) - Community Water Supply & Distributio	Groundwater	Yes	No Certification	Level I	No	Not Required	No Operator
605	Shuswap	6919	SHUSWAP (Stoddard Village) - Community Water Supply & Distributi	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
570	Shxwhá:y Village	9858	SKWAY NO. 5 - Community Water Supply & Distribution System - Sys	MTA	Yes	No Certification	No Certification	No	Not Required	
587	Shxw'ow'hamel First Nation	7025	OHAMIL NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
691	Simpcw First Nation	6848	NORTH THOMPSON NO. 1 (Newhykulston Creek - Main Village)- Commu	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
691	Simpcw First Nation	6849	NORTH THOMPSON NO. 1 (Chinook Cove) - Community Water Supply & D	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
691	Simpcw First Nation	6850	NORTH THOMPSON NO. 1 (Louisa Jules) - Community Water Supply & D	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
706	Siska	6888	SISKA FLAT NO. 3 - Community Water Supply & Distribution System	Groundwater	No	Not Required	No Operator	No	Not Required	No Operator
706	Siska	6889	SISKA FLAT NO. 5B - Community Water Supply & Distribution System	Groundwater	No	Not Required	No Operator	No	Not Required	No Operator
562	Skatin Nations	6985	SKOOKUMCHUCK NO. 4 - Community Water Supply & Distribution Syste	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
582	Skawahlook First Nation	7011	RUBY CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
687	Skeetchestn		SKEETCHESTN - SOUTH ECONOMIC DEVELOPMENT PARCEL WATER SYSTEM	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
687	Skeetchestn	6837	SKEETCHESTN (Main Community) - Community Water Supply & Distribu	Groundwater	Yes	No Certification	No Operator	No	No Certification	No Certification
687	Skeetchestn	6838	SKEETCHESTN (Main Community)- Community Water Supply & Distribut	Groundwater	Yes	No Certification	No Operator	No	No Certification	No Certification
670	Skidegate	6952	SKIDEGATE NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level II	Level I	Yes	Level I	No Certification

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
729	Skin Tyee		THREE NATIONS WATER SYSTEM	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
571	Skowkale		SKOWKALE COMMUNITY WATER SYSTEM	MTA	Yes	No Certification	No Certification	No	Not Required	No Certification
707	Skuppah	6890	SKUPPAH NO. 2 - Community Water Supply & Distribution System - S	Surface Water	Yes	Level I	No Certification	Yes	No Certification	No Certification
573	Skwah	7114	SKWAH NO. 4 - Community Water Supply & Distribution System - Sys	MTA	Yes	Not Required	No Certification	No	No Certification	No Certification
654	Sliammon	6963	SLIAMMON NO. 1 - Community Water Supply & Distribution System -	Surface Water	Yes	Level I	Level II	Yes	No Certification	No Certification
648	Snuneymuxw First Nation	6794	NANAIMO RIVER NO. 3 - Community Water Supply & Distribution Syst	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
648	Snuneymuxw First Nation	6795	NANAIMO RIVER NO. 4 - Community Water Supply & Distribution Syst	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
648	Snuneymuxw First Nation	6793	NANAIMO TOWN NO. 1 - Community Water Supply & Distribution Syste	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
716	Soda Creek	7060	DEEP CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater GUDI	Yes	Level I	Level I	No	Not Required	No Operator
716	Soda Creek	7059	SODA CREEK NO. 1 - Community Water Supply & Distribution System	Surface Water	Yes	Level I	Level I	No	No Certification	No Certification
656	Songhees First Nation	9788	NEW SONGHEES NO. 1A - Community Water Supply & Distribution Syst	MTA	Yes	Not Required	No Certification	No	Not Required	
572	Soowahlie	6999	SOOWAHLIE NO. 14 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
600	Spallumcheen	6911	ENDERBY NO. 2 (Canyon) - Community Water Supply & Distribution S	Groundwater	Yes	Not Required	No Certification	No	Not Required	No Operator
600	Spallumcheen	6912	ENDERBY NO. 2 (Jack Pine) - Community Water Supply & Distributio	Groundwater	Yes	Not Required	No Certification	No	Not Required	No Operator
708	Spuzzum	6892	SPUZZUM NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Yes	Not Required	No Certification	Yes	No Certification	No Certification
555	Squamish	6966	CAPILANO NO. 5 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
555	Squamish	6972	CHEAKAMUS NO. 11 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
555	Squamish		KOWTAIN NO. 17 - Community Water System	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
555	Squamish	6964	MISSION NO. 1 - Community Water Supply & Distribution System - S	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
555	Squamish	6965	SEYMOUR CREEK NO. 2 - Community Water Supply & Distribution Syst	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
555	Squamish	6975	STAWAMUS NO. 24 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
555	Squamish	6974	WAIWAKUM NO. 14 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
555	Squamish		YEKWAUPSUM NO. 18 - Community Water System	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
574	Squiala First Nation	7000	SQUIAALA NO. 7 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
574	Squiala First Nation		SQUIAALA NO. 8 - Community Water Supply & Distribution System	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
602	St. Marys	6915	KOOTENAY NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	Not Required	No Certification	Yes	No Certification	No Certification
613	Stellat'en First Nation	6932	STELLAQUO (STELLA) NO. 1 (Northside Subd)- Community Water Supp	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
717	Stone	7061	STONE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Yes	No Certification	No Certification	Yes	No Certification	No Certification
578	Sumas First Nation	7005	UPPER SUMAS NO. 6 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	Level I	Yes	No Certification	No Certification
682	Tahltan	6950	DEASE LAKE NO. 9 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
682	Tahltan	6949	TELEGRAPH CREEK NO. 6 - Community Water Supply & Distribution Sy	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
608	Takla Lake First Nation	6931	NORTH TAKLA LAKE NO. 7 - Community Water Supply & Distribution S	Surface Water	Yes	Level II	No Operator	Yes	Level I	No Operator
593	T'it'q'et	7037	LILLOOET NO. 1 (T'it'q'et Heights Subd) - Community Water Supply	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
593	T'it'q'et	7035	MCCARTNEY'S FLAT NO. 4 - Community Water Supply & Distribution S	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
593	T'it'q'et	7036	SETON LAKE NO. 5 - Community Water Supply & Distribution System	Surface Water	Yes	Not Required	No Operator	Yes	No Certification	No Certification
593	T'it'q'et	7034	TOWINOCK NO. 2 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
660	Tla-o-qui-aht First Nations	6807	ESOWISTA NO. 3 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	Level I	Yes	Not Required	
660	Tla-o-qui-aht First Nations	6806	OPITSAT NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Yes	Level I	No Certification	Yes	Level I	No Certification
632	Tlatlasikwala	6827	HOPE ISLAND NO. 1 - Community Water Supply & Distribution System	Surface Water	Yes	Not Required	No Operator	No	No Certification	No Certification
617	Tl'azt'en Nation	6941	BINCHE NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater GUDI	Yes	No Certification	No Certification	Yes	No Certification	No Certification
617	Tl'azt'en Nation	6943	DZITLINE LEE NO. 9 (Middle River aka Gelangle 1) - Community Wat	Surface Water	Yes	Not Required	No Operator	Yes	No Certification	No Certification
617	Tl'azt'en Nation	6940	TACHE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Yes	No Certification	No Certification	Yes	No Certification	No Certification
712	Tl'etinqox-t'in Government Office	7048	ANAHIM'S FLAT NO. 1 (Main System) - Community Water Supply & Dis	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
603	Tobacco Plains	6916	TOBACCO PLAINS NO. 2 - Community Water Supply & Distribution Sys	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
718	Toosey	7062	TOOSEY NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
666	Toquaht	7123	MACOAH NO. 1 - Community Water Supply & Distribution System - Sy	Surface Water	Yes	Not Required	No Operator	Yes	Not Required	No Certification
653	Tsartlip	9836	SOUTH SAANICH NO. 1 - Community Water Supply & Distribution Syst	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
636	Tsawataineuk	6828	QJAE NO. 7 - Community Water Supply & Distribution System - Sys	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
654	Tsawout First Nation	6800	EAST SAANICH NO. 2- Community Water Supply & Distribution System	MTA	Yes	Level I	Level I	Yes	No Certification	No Certification
577	Tsawwassen First Nation	7004	TSAWWASSEN - Community Water Supply & Distribution System - Syst	MTA	Yes	Level I	No Certification	Yes	No Certification	No Certification
609	Tsay Keh Dene	7106	FINLAY RIVER (reserve name not changed yet) - Community Water Su	Groundwater	Yes	Not Required	No Certification	Yes	No Certification	No Certification
665	Tseshah	6813	TSAHAHEH NO. 1 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification
655	Tseycum	6801	UNION BAY NO. 4 - Community Water Supply & Distribution System -	MTA	Yes	No Certification	No Certification	Yes	No Certification	No Certification

First Nation Information		Water System Information			Operator Information					
Band #	Band Name	System #	System Name	Water Source	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Distribution Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Distribution Class
594	Tskwaylaxw First Nation	7039	Marble Canyon No. 3 (aka Marble Canyon 3A) - Community Water Sup	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
594	Tskwaylaxw First Nation	7038	PAVILION NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Operator	No	Not Required	No Operator
657	TSou-ke First Nation	6802	T'SOU-KE NO. 1 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	Level I	Yes	Not Required	No Certification
657	TSou-ke First Nation	6803	T'SOU-KE NO. 2 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	Level I	Yes	Not Required	No Certification
575	Tzeachten	7003	TZEACHTEN NO. 13 - Community Water Supply & Distribution System	MTA	Yes	Not Required	No Certification	Yes	Not Required	No Certification
667	Uchucklesaht	6814	ELHLATEESE NO. 2 - Community Water Supply & Distribution System	Groundwater	Yes	No Certification	No Certification	No	Not Required	No Operator
668	Ucluelet First Nation	6815	ITTATSOO NO. 1 - Community Water Supply & Distribution System -	MTA	Yes	Not Required	No Certification	Yes	No Certification	No Certification
722	Ulkatcho	7067	ULKATCHO NO. 14A - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	No Certification	No Certification
697	Upper Nicola	6868	DOUGLAS LAKE NO. 3 - Community Water Supply & Distribution Syste	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Certification
697	Upper Nicola	6867	NICOLA LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	Yes	No Certification	Level I	Yes	No Certification	No Certification
599	Upper Similkameen	6910	CHUCHUWAYHA NO. 2 - Community Water Supply & Distribution System	Groundwater	No	No Certification	No Certification	No	No Certification	No Certification
545	West Moberly First Nations	6819	WEST MOBERLY LAKE NO. 168A - Community Water Supply & Distributi	Surface Water	Yes	Level I	Level I	Yes	No Certification	No Certification
601	Westbank First Nation	6914	TSINSTIKEPTUM NO. 10 - Community Water Supply & Distribution Sys	Surface Water	Yes	No Certification	Level III	Yes	No Certification	Level II
601	Westbank First Nation	6913	TSINSTIKEPTUM NO. 9 - Community Water Supply & Distribution Syst	Surface Water	Yes	No Certification	Level III	Yes	No Certification	Level II
725	Wetsuweten First Nation	6922	DUNCAN LAKE NO. 2 - Community Water Supply & Distribution System	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
725	Wetsuweten First Nation	6921	PALLING NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
702	Whispering Pines/Clinton	7073	WHISPERING PINES NO. 4 - Band Office & Community Water System	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
702	Whispering Pines/Clinton	7074	WHISPERING PINES NO. 4 - Community Water Supply & Distribution S	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
702	Whispering Pines/Clinton		WHISPERING PINES NO. 4 - Ed Lebourdais Community Water System	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
719	Williams Lake	7063	WILLIAMS LAKE NO. 1 - Community Water Supply & Distribution Syst	Groundwater	Yes	Not Required	No Operator	Yes	Not Required	No Operator
592	Xaxli'p	7033	CHILHIL NO. 6 - Community Water Supply & Distribution System - S	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
592	Xaxli'p	7031	FOUNTAIN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Yes	No Certification	No Certification	Yes	No Certification	No Certification
714	Xeni Gwet'in First Nations Government	7055	CHILCO LAKE NO. 1A - Community Water Supply & Distribution Syste	Surface Water	Yes	Not Required	No Operator	No	Not Required	No Operator
714	Xeni Gwet'in First Nations Government	7056	LOHBIEE NO. 3 - Community Water Supply & Distribution System - S	Groundwater	Yes	Not Required	No Operator	No	Not Required	No Operator
576	Yakwekwioose	9671	YAKWEAKWIOOSE NO. 12 - Community Water Supply & Distribution Sys	MTA	NR	Not Required	Not Required	No	Not Required	Not Required
589	Yale First Nation	7027	LUKSEETSISSUM NO. 9 - Community Water Supply & Distribution Syst	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
589	Yale First Nation	7026	STULLAWHEETS NO. 8 - Community Water Supply & Distribution Syste	Groundwater	Yes	No Certification	No Operator	Yes	No Certification	No Operator
728	Yekooche	6942	YE KOO CHE NO. 3 - Community Water Supply & Distribution System	Groundwater GUDI	Yes	No Certification	No Certification	No	No Certification	No Certification

Appendix D.2

Individual First Nation Wastewater Summary

Table D.2 - 1: Regional Summary of Wastewater Treatment

First Nation Information				Wastewater System Information										
Band #	Band Name	System #	System Name	Const Year	Receiver Name	Treatment Class	Design Capacity [m3/d]	Max Daily Volume [m3/d]	Wastewater System Type	Wastewater Treatment Level	Wastewater Disinfection Chlorine	Wastewater Disinfection UV	Discharge Frequency	Wastewater Sludge Treatment
684	Adams Lake		SAHHALTKUM NO.4 - Community Wastewater System	2007	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
659	Ahousesht	7547	MARKTOSIS NO. 15 (Maaqtusiis Village) - Community Sewage Collect	1985	Open Marine	Level I	Unknown	439	Septic	Primary	No	No	Continuous	No
558	Aitchelitz	7653	AITCHELITCH NO. 9 - Community Sewage Collection & Treatment Syst	1991	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
710	Alexis Creek		MICHEL GARDENS NO. 36 - Community Wastewater System	0	Tile Field	None		6	Other	Primary	No	No	Continuous	No
710	Alexis Creek	7617	REDSTONE FLAT NO. 1- Community Sewage Collection & Treatment Sys	1994	Sub-Surface/Ground	Small System		83	Other	Primary	No	No	Continuous	No
640	Beecher Bay	7535	BEECHER BAY NO. 1- Community Sewage Collection & Treatment Syste	1997	Open Marine	Level II	40	35	ActivatedSludgePlant	Secondary	No	No	Continuous	No
547	Blueberry River First Nations	7556	BLUEBERRY RIVER NO. 205 - Community Sewage Collection & Treatmen	1989	Lake, Reservoir	Small System	unknown	80 (est.)	Aerated lagoon	Secondary			Continuous	No
619	Burns Lake	7624	BURNS LAKE NO. 18- Community Sewage Collection & Treatment Syste	1987	MTA	MTA		22	MTA	MTA	MTA	MTA	MTA	MTA
549	Burrard	7599	BURRARD INLET NO. 3 - Community Sewage Collection & Treatment Sy	1961	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
622	Campbell River	7692	CAMPBELL RIVER NO. 11- Community Sewage Collection & Treatment S	1972	MTA	MTA	Unknown	145 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
713	Canim Lake	9755	Canim Lake No. 1 (E. Subd) - Community Sewage Collection & Treat	1996	Other	Small System			Aerated lagoon	Secondary	No	No	Continuous	No
623	Cape Mudge	9780	Cape Mudge No. 10 - Community Sewage Collection & Treatment Syst	1985	Open Marine	Small System	216	135	Aerated lagoon	Secondary	No	No	Continuous	No
623	Cape Mudge	9781	Quinsam No. 12 - Community Sewage Collection & Treatment System	1980	MTA	MTA	N/A	125	MTA	MTA	MTA	MTA	MTA	MTA
584	Cheam		CHEAM NO. 1 - East Hillside Subdivision Wastewater System	2007	Tile Field	None	24.6		Septic	Primary	No	No	Continuous	Yes
641	Chemainus First Nation	NEW001	CHEMAINUS No.13 - Community Wastewater System	2004	Tile Field	Level I	unknown	224 (est.)	Aerated lagoon	Primary	No	No	Continuous	No
641	Chemainus First Nation	NEW001	SQUAW-HAY-ONE NO.11 - Community Wastewater System	0	MTA	MTA	Unknown	13 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
693	Coldwater	7563	COLDWATER NO. 1 - Community Sewage Collection & Treatment System	1997	Tile Field	Small System	Unknown	15	Septic	Primary	No	No	Continuous	No
624	Comox	9757	COMOX IR #1 - Community Sewage Collection & Treatment System - S	1973	MTA	MTA	Unknown	83 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
642	Cowichan	9775	COWICHAN NO 1 - Community Sewage Collection & Treatment System -	1967	MTA	MTA	unknown	340 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
635	Da'naxda'xw First Nation	17022	DEAD POINT 5	2002	Open Marine	Small System	Unknown	Unknown	Mechanical	Secondary	No	No	Continuous	No
548	Doig River	7557	Doig River No. 206 - Community Sewage Collection & Treatment Sys	1985	Wetland	Small System	unknown	52 (est.)	Faculative lagoon	Secondary	No	No	Continuous	No
634	Ehattesaht	9777	EHATIS NO. 11 - Community Sewage Collection & Treatment System -	1989	MTA	MTA	45	200	MTA	MTA	MTA	MTA	MTA	MTA
711	Esketemc	7913	ALKALI LAKE NO 1 - Community Sewage Collection & Treatment Syste	2008	Tile Field	Small System	Unknown	5.6	Septic	Primary	No	No	Continuous	No
711	Esketemc	NEW001	ALKALI LAKE NO.1 - Eagleview Ridge Community Wastewater System	2008	Tile Field	Small System	76	19.5	Septic	Primary	No	No	Continuous	No
711	Esketemc	NEW002	ALKALI LAKE NO.1 - Mobile Home Park Community Wastewater System	2008	Tile Field	Small System	18	11	Septic	Primary	No	No	Continuous	No
644	Esquimalt	7536	ESQUIMALT - Community Sewage Collection & Treatment System - Sys	1990	MTA	MTA	1200		MTA	MTA	MTA	MTA	MTA	MTA
543	Fort Nelson First Nation	7553	FORT NELSON NO. 2 - Community Sewage Collection & Treatment Syst	1994	Wetland	Level I	205	207 (est.)	Faculative lagoon	Secondary	No	No	Other	No
531	Gitanmaax	7531	GITANMAAX NO. 1 - Community Sewage Collection & Treatment System	1998	MTA	MTA	Unknown	306	MTA	MTA	MTA	MTA	MTA	MTA
537	Gitanyow	7753	GITANYOW NO 1 - New Subdivision Sewage System	2005	Tile Field	Small System	Unknown	Unknown	Septic	Primary			Continuous	No
537	Gitanyow		GITANYOW NO.1 - Community Wastewater System	2010	Wetland	Level II	247	165	Aerated lagoon	Tertiary	No	Yes	Other	No
535	Gitsegukla	7533	GITSEGUKLA NO. 1- Community Sewage Collection & Treatment System	1986	River	Level I	265	260	RBC	Secondary	No	No	Continuous	No
536	Gitwangak	NEW001	GITWANGAK 1 - COMMUNITY WASTEWATER TREATMENT & COLLECTION SYSTEM	2009	Sub-Surface/Ground	Level I	452	163	Aerated lagoon	Secondary			Continuous	No
672	Gitxaala Nation	7591	DOLPHIN ISLAND NO. 1 - Community Sewage Collection & Treatment S	1982	Open Marine	None	Unknown	160	Septic	Primary	No	No	Continuous	No
724	GwaSala-Nakwaxdaxw	7559	TSULQUATE NO. 4 - Community Sewage Collection & Treatment System	1984	MTA	MTA	N/A	249	MTA	MTA	MTA	MTA	MTA	MTA
627	Gwawaenuk Tribe	7691	HOPETOWN NO. 10A - Community Sewage Collection & Treatment Syst	1980	Open Marine	Small System			Other	Primary	No	No	Continuous	No
534	Hagwilget Village	7534	HAGWILGET NO. 1 - Community Sewage Collection & Treatment System	1986	River	Level I	183	104	Aerated lagoon	Secondary			Continuous	No
546	Halfway River First Nation	7555	HALFWAY RIVER NO. 168 - Community Sewage Collection & Treatment	1982	Sub-Surface/Ground	Small System	unknown	58 (est.)	Septic	Primary	No	No	Continuous	No
675	Hartley Bay	7594	KULKAYU (HARTLEY BAY) NO. 4 - Community Sewage Collection & Trea	1991	Other	Small System	95	75	Septic	Primary	No	No	Continuous	No
538	Heiltsuk	7595	BELLA BELLA NO. 1 - Community Sewage Collection & Treatment Syst	1998	Open Marine	Level I	2940	1650	Aerated lagoon	Secondary	No	No	Continuous	No
661	Hesquiaht	7550	REFUGE COVE NO. 6 - Community Sewage Collection & Treatment Syst	0	Open Marine	Small System	Unknown	44	Septic	Primary	No	No	Continuous	No
552	Homalco	7638	HOMALCO NO. 9 - Community Sewage Collection & Treatment System -	1992	MTA	MTA	Unknown	115 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
664	Hupacasath First Nation		AHASWINIS WASTEWATER MTSA	0	MTA	MTA	Not Available	Not Available	MTA	MTA	MTA	MTA	MTA	MTA
638	Ka:yu:kth/Che:k:tlas7eth First Nations	7561	HOUPSITAS NO. 6 - Community Sewage Collection & Treatment System	1970	Open Marine	Small System	42.5	60	Septic	Primary	No	No	Continuous	No
688	Kamloops	17042	KAMLOOPS IR#1 - Community Sewage Collection & Treatment System	1992	MTA	MTA	7200	220	MTA	MTA	MTA	MTA	MTA	MTA
563	Katzie	7608	KATZIE NO. 1 - Community Sewage Collection & Treatment System -	1985	MTA	MTA	Unknown	Unknown	MTA	MTA	MTA	MTA	MTA	MTA
563	Katzie	NEW001	KATZIE NO. 2 - Community Sewage Collection & Treatment System	2009	MTA	MTA	28.7	Unknown	MTA	MTA	MTA	MTA	MTA	MTA
532	Kispiox	7532	KISPIOX NO. 1 - Community Sewage Collection & Treatment System -	1998	River	Level I	366	323	Aerated lagoon	Secondary	No	No	Continuous	No
676	Kitamaat	7587	KITAMAAT NO. 2 - Community Sewage Collection & Treatment System	1975	Open Marine	Level I	300	179	RBC	Secondary	No	No	Continuous	No
540	Kitasoo	7597	KITASOO NO. 1 (N. Shore) - Community Sewage Collection & Treatme	1993	Open Marine	Small System		12.5	Septic	Primary	No	No	Continuous	No
540	Kitasoo	7596	KITASOO NO. 1 (S. Shore) - Community Sewage Collection & Treatme	1972	Open Marine	Small System		114	Septic	Primary	No	No	Other	No
680	Kitselas		KULSPAI 6 - Community Wastewater System	2003	MTA	MTA		33.6	MTA	MTA	MTA	MTA	MTA	MTA
681	Kitsumkalum	7588	KITSUMKAYLUM NO. 1 - Community Sewage Collection & Treatment Sys	1983	MTA	MTA	816.5	173.1	MTA	MTA	MTA	MTA	MTA	MTA
553	Klahoose First Nation	7600	TORK NO. 7 - Community Sewage Collection & Treatment System - Sy	1978	Tile Field	Small System	Unknown	23 (est.)	Septic	Primary	No	No	Continuous	No
721	Kluskus	7926	KLUSKUS NO. 1 - ARCHIVED WW System #7926	1991	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
626	Kwakiutl	7769	FORT RUPERT NO. 1 - Community Sewage Collection & Treatment Syst	1985	MTA	MTA	n/a	n/a	MTA	MTA	MTA	MTA	MTA	MTA
625	Kwicksutaineuk-ah-kwaw-ah-mish	7558	GWAYASDUMS NO. 1 - Community Sewage Collection & Treatment Syste	1988	Open Marine	Small System	33	10	Other	Primary	No	No	Other	No
560	Kwikwetlem First Nation	17024	COQUITLAM 1 WASTEWATER SYSTEM	2003	MTA	MTA	233	Unknown	MTA	MTA	MTA	MTA	MTA	MTA
607	Lake Babine Nation	7575	BABINE NO. 6 (Fort Babine) - Community Sewage Collection & Treat	1990	Tile Field	Small System	unknown	42	Septic	Primary			Continuous	No
607	Lake Babine Nation	NEW002	Woyenne No. 27 - MTA with Burns Lake	1992	MTA	MTA	unknown	303	MTA	MTA	MTA	MTA	MTA	MTA
643	Lake Cowichan First Nation		COWICHAN LAKE - Community Wastewater Collection System	0	MTA	MTA	unknown	12 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
674	Lax-walaams	7593	LAX KW'ALAAMS NO. 1 - Community Sewage Collection & Treatment Sy	1985	Open Marine	Level I	1892	323	Septic	Primary	No	No	Other	No

First Nation Information				Wastewater System Information										
Band #	Band Name	System #	System Name	Const Year	Receiver Name	Treatment Class	Design Capacity [m ³ /d]	Max Daily Volume [m ³ /d]	Wastewater System Type	Wastewater Treatment Level	Wastewater Disinfection Chlorine	Wastewater Disinfection UV	Discharge Frequency	Wastewater Sludge Treatment
579	Leq a: mel First Nation	NEW001	HOLACHTEN NO. 8 - Community Wastewater System	2009	Tile Field	Small System	20		Septic	Primary	No	No	Continuous	No
579	Leq a: mel First Nation	NEW001	SKWEAHM NO. 10 - Community Wastewater System	2009	Tile Field	Small System	21.8		Septic	Primary	No	No	Continuous	No
689	Little Shuswap Lake	NEW001	QUAAOUT BAND MEMBER HOUSING	2000	Tile Field	Level I			Septic	Primary	No	No	Continuous	No
695	Lower Nicola		SHULUS SCHOOL AND SUBDIVISION WASTEWATER SYSTEM	2002	Tile Field	Small System			Septic	Primary	No	No	Other	No
705	Lytton	7565	KLAKAMICH NO. 17 - Community Sewage Collection & Treatment Syst	1975	MTA	MTA	not known	59	MTA	MTA	MTA	MTA	MTA	MTA
705	Lytton	7564	KLICKKUMCHEEN NO. 18 - Community Sewage Collection & Treatment S	2007	MTA	MTA	not known	105	MTA	MTA	MTA	MTA	MTA	MTA
647	Malahat First Nation	7537	MALAHAT NO. 11 - Community Sewage Collection & Treatment System	1991	Tile Field	Small System	60	175	Septic	Primary	No	No	Continuous	No
565	Matsqui	7609	MATSQUI MAIN NO. 2 - Community Sewage Collection & Treatment Sys	1982	MTA	MTA	Unknown	607	MTA	MTA	MTA	MTA	MTA	MTA
673	Metlakatla	7592	SI/2 TSIMPSEAN NO. 2 - Community Sewage Collection & Treatment S	1982	Open Marine	None	Unknown	35	None				Continuous	No
530	Moricetown	7530	MORICETOWN NO. 1- Community Sewage Collection & Treatment System	1997	River	Level I	587.5	266	Aerated lagoon	Secondary	No	No	Continuous	No
557	Mount Currie	12219	MOUNT CURRIE NO. 1, 10 - Community Sewage Collection & Treatment	1971	River	Small System	1400		Aerated lagoon	Secondary	No	No	Continuous	No
557	Mount Currie	7607	MOUNT CURRIE NO. 6 - Community Sewage Collection & Treatment Sys	1984	Tile Field	Small System	732		Septic	Primary	No	No	Other	No
630	Mowachaht/Muchalaht	9785	TSA XANA NO. 18 - Community Sewage Collection & Treatment System	1998	MTA	MTA	not known	163	MTA	MTA	MTA	MTA	MTA	MTA
550	Musqueam	7626	MUSQUEAM NO. 2 - Community Sewage Collection & Treatment System	1985	MTA	MTA	6910	Unknown	MTA	MTA	MTA	MTA	MTA	MTA
612	Nadleh Whuten	7571	NAUTLEY NO. 1 (N. Fort Fraser) - Community Sewage Collection & T	1985	Tile Field	Small System		41.5	Septic	Primary			Continuous	No
612	Nadleh Whuten	7570	NAUTLEY NO. 1 (S. Fort Fraser) - Community Sewage Collection & T	1993	Tile Field	Small System		41.5	Septic	Primary			Continuous	No
612	Nadleh Whuten	7573	SEASPUNKUT NO. 4 (E. End - Lejac) - Community Sewage Collection	1955	Sub-Surface/Ground	Small System		2.49	Faculative lagoon	Secondary	No	No	Continuous	No
612	Nadleh Whuten	7572	SEASPUNKUT NO. 4 (W. End) - Community Sewage Collection & Treatm	1977	Tile Field	Small System		7.89	Septic	Primary			Continuous	No
614	Nakazdli	7583	NAK'AZDLI - Community Sewage Collection & Treatment System - Sys	1984	MTA	MTA		278.1	MTA	MTA	MTA	MTA	MTA	MTA
614	Nakazdli	7847	WILLIAMS PRAIRIE MEADOW NO. 1A - Community Sewage Collection & T	1991	Evaporation	Small System		6.2	Faculative lagoon	Secondary	No	No	Other	No
631	Namgis First Nation	7560	ALERT BAY NO. 1 & NO. 1A - Community Sewage Collection & Treatme	1989	Open Marine	Level II	640	483	SBR	Tertiary	No	Yes	Other	Yes
649	Nanoose First Nation	NEW001	NANOOSE IR - Community Wastewater System	2005	Open Marine	Level II	119	135	ActivatedSludgePlant		No	Yes	Continuous	No
671	Nisgaa Village of Gingolx	9670	KINCOLITH NO. 14 - Community Sewage Collection & Treatment Syste	1970	Enclosed Bay, Estuary	None	not known	181 (est.)	None				Continuous	No
679	Nisgaa Village of Gitwinksihlkw	9666	GITWINKSIHLKW NO. 7 - Community Sewage Collection & Treatment Sy	1985	River	Small System	not known	95.5 (est.)	Aerated lagoon	Secondary	No	No	Continuous	No
678	Nisgaa Village of Laxgaltsap	9664	LACHKALTSAP NO. 9 - Community Sewage Collection & Treatment Syst	1992	Sub-Surface/Ground	Small System	not known	325 (est.)	Septic	Primary	No	No	Continuous	No
677	Nisgaa Village of New Aiyansh	9668	NEW AIYANSH NO. 1 - Community Sewage Collection & Treatment Syst	1979	River	Level I	not known	352 (est.)	Faculative lagoon	Secondary	No	No	Continuous	No
539	Nuxalk Nation	7866	BELLA COOLA NO. 1 - Community Sewage Collection & Treatment Syst	1984	Tile Field	Small System		15	Other	Primary	No	No	Continuous	No
669	Old Massett Village Council	7589	MASSET NO. 1 - Community Sewage Collection & Treatment System -	2006	Open Marine	Level II	3562	700	Aerated lagoon	Secondary		Yes	Continuous	No
596	Osoyoos	7566	OSOYOOS NO. 1 - Community Sewage Collection & Treatment System -	1998	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
541	Oweekeno/Wuikinuxv Nation	7598	KATIT NO. 1 - Community Sewage Collection & Treatment System - S	1999	Sub-Surface/Ground	None		37	Septic	Primary	No	No	Continuous	No
652	Pauquachin	7543	COLE BAY NO. 3 - Community Sewage Collection & Treatment System	2001	MTA	MTA	Unknown	93 (est.)	MTA	MTA	MTA	MTA	MTA	MTA
650	Penelakut	7539	KUPER ISLAND NO. 7 (E. Village) - Community Sewage Collection &	1999	Sub-Surface/Ground	Small System	unknown	48	Septic	Primary	No	No	Continuous	No
650	Penelakut	7540	KUPER ISLAND NO. 7 (W. Village) - Community Sewage Collection &	1999	Sub-Surface/Ground	Level II	unknown	112	RBC	Secondary	No	No	Continuous	No
633	Quatsino	7627	QUATSINO SUBD. NO. 18 - Community Sewage Collection & Treatment	1980	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
715	Red Bluff	7672	QUESNEL NO. 1 - Community Sewage Collection & Treatment System -	0	MTA	MTA	not known	not known	MTA	MTA	MTA	MTA	MTA	MTA
615	Saikuz First Nation	7582	LAKETOWN NO. 3 - Community Sewage Collection & Treatment System	1984	Tile Field	Small System		2.9	Faculative lagoon	Secondary	No	No	Other	No
615	Saikuz First Nation	7581	STONY CREEK NO. 1 - Community Sewage Collection & Treatment Syst	1980	Evaporation	Small System		81.4	Faculative lagoon	Secondary	No	No	Other	No
568	Scowlitz	7610	SCOWLITZ NO. 1 - Community Sewage Collection & Treatment System	2001	Tile Field	Small System	Unknown	Unknown	Other	Primary	No	No	Continuous	No
568	Scowlitz	7611	SQUAWKUM CREEK NO. 3 - Community Sewage Collection & Treatment S	2001	Tile Field	Level I	Unknown	Unknown	RBC	Secondary	No	No	Continuous	No
581	Seabird Island	NEW001	SEABIRD ISLAND - Community Wastewater Collection System	2002	MTA	MTA	2246	451	MTA	MTA	MTA	MTA	MTA	MTA
551	Sechelt	9791	SECHELT NO. 2 - Community Sewage Collection & Treatment System -	1978	MTA	MTA	4000	4000	MTA	MTA	MTA	MTA	MTA	MTA
570	Shxwhá:y Village	9787	SKWAY NO. 5 - Community Sewage Collection & Treatment System - S	2001	MTA	MTA	720	58	MTA	MTA	MTA	MTA	MTA	MTA
562	Skatin Nations		SKOOKUMCHUCK NO. 4 - Community Wastewater Disposal System	2000	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
562	Skatin Nations		SKOOKUMCHUCK NO. 4A - School Wastewater System	2003	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
670	Skidegate	7590	SKIDEGATE NO. 1 - Community Sewage Collection & Treatment System	2008	Open Marine	Level I	621	350	Aerated lagoon	Secondary	No	No	Continuous	No
571	Skowkale		SKOWKALE COMMUNITY WASTEWATER SYSTEM	2009	MTA	MTA	N/A	104	MTA	MTA	MTA	MTA	MTA	MTA
573	Skwah	7654	SKWAH NO. 4 - Community Sewage Collection & Treatment System - S	1980	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
554	Sliammon	7601	SLIAMMON NO. 1 - Community Sewage Collection & Treatment System	1983	Open Marine	Level I	unknown	249	RBC	Secondary	Yes	No	Continuous	No
648	Snuneymuxw First Nation		NANAIMO RIVER 4 - 12-plex Community Wastewater System	2000	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
648	Snuneymuxw First Nation	7538	NANAIMO TOWN NO. 1 - Community Sewage Collection & Treatment Sys	1965	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
656	Songhees First Nation	9789	NEW SONGHEES NO. 1A - Community Sewage Collection & Treatment Sy	1989	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish	7604	CAPILANO NO. 5 - Community Sewage Collection & Treatment System	0	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish		KOWTAIN NO. 17 - Community Wastewater System	0	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish	7602	MISSION NO. 1 - Community Sewage Collection & Treatment System -	0	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish	7603	SEYMOUR CREEK NO. 2 - Community Sewage Collection & Treatment Sy	1987	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish		STAWAMUS NO. 24 - Community Wastewater System	2003	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish		STAWAMUS NO.24 - Community Septic System	2005	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
555	Squamish	7605	WAIWAKUM NO. 14 - Community Sewage Collection & Treatment System	1970	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
555	Squamish		YEKWAPSUM NO. 18 - Community Wastewater System	0	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
574	Squiala First Nation	NEW001	SQUIAALA NO. 7 - Community Sewer Collection System	1998	MTA	MTA		37	MTA	MTA	MTA	MTA	MTA	MTA
613	Stellat'en First Nation	7579	STELLAQUO (STELLA) NO. 1 (Northside) - Community Sewage Collecti	1988	Wetland	Small System	unknown	68	Faculative lagoon	Secondary	No	No	Continuous	No
717	Stone	7620	STONE NO. 1 - Community Sewage Collection & Treatment System - S	1988	River	Small System	110	73.3	Faculative lagoon	Secondary	No	No	Other	No
578	Sumas First Nation	7615	UPPER SUMAS NO. 6 - Community Sewage Collection & Treatment Syst	1993	MTA	MTA	219	148	MTA	MTA	MTA	MTA	MTA	MTA

First Nation Information				Wastewater System Information										
Band #	Band Name	System #	System Name	Const Year	Receiver Name	Treatment Class	Design Capacity [m3/d]	Max Daily Volume [m3/d]	Wastewater System Type	Wastewater Treatment Level	Wastewater Disinfection Chlorine	Wastewater Disinfection UV	Discharge Frequency	Wastewater Sludge Treatment
608	Takla Lake First Nation	7577	NORTH TAKLA LAKE NO. 7 - Community Sewage Collection & Treatment	1987	Sub-Surface/Ground	Small System	1038	115	Septic	Primary	No	No	Continuous	No
593	Ti't'q'et		LILLOOET NO 1 - Community Wastewater System	1999	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
660	Tla-o-qui-aht First Nations	7549	ESOWISTA NO. 3 - Community Sewage Collection & Treatment System	1992	Tile Field	Small System	Not known	104	Septic	Primary	No	No	Continuous	No
660	Tla-o-qui-aht First Nations	7548	OPITSAT NO. 1 - Community Sewage Collection & Treatment System -	1980	Open Marine	Small System	Unknown	Unknown	Septic	Primary	No	No	Continuous	No
617	Tl'azt'en Nation	7848	BINCHE NO. 2 - Community Sewage Collection & Treatment System -	1980	Sub-Surface/Ground	Small System	not known	not known	Faculative lagoon	Secondary	No	No	Continuous	No
617	Tl'azt'en Nation	7853	DZITLINE LEE NO. 9 (Middle River aka Gelangle 1) - Community Sew	0	Sub-Surface/Ground	Small System	not known	not known	Septic	Primary	No	No	Continuous	No
617	Tl'azt'en Nation	7585	TACHE NO. 1 - Community Sewage Collection & Treatment System - S	1980	Lake, Reservoir	Small System	307 (est.)	291 (est.)	Faculative lagoon	Secondary	No	No	Fall	No
712	Tl'etinqox-t'in Government Office	7656	ANAHIM'S FLAT NO. 1 (Foot Ranch) - Community Sewage Collection &	1983	Tile Field	Small System			Septic	Primary	No	No	Continuous	No
712	Tl'etinqox-t'in Government Office	7664	ANAHIM'S FLAT NO. 1 (Main Village) - Community Sewage Collection	1983	Tile Field	Level I			Aerated lagoon	Secondary	No	No	Continuous	No
718	Toosey	7621	TOOSEY NO. 1 - Community Sewage Collection & Treatment System -	1988	Sub-Surface/Ground	Small System		68	Faculative lagoon	Secondary	No	No	Other	No
653	Tsartlip	9837	SOUTH SAANICH NO. 1 - Community Sewage Collection & Treatment Sy	2001	MTA	MTA	Unknown	207 (est)	MTA	MTA	MTA	MTA	MTA	MTA
654	Tsawout First Nation	7544	EAST SAANICH NO. 2- Community Sewage Collection & Treatment Syst	1972	Open Marine	Level II	Unknown	607	Mechanical	Secondary	No	No	Continuous	Yes
577	Tsawwassen First Nation	7614	TSAWWASSEN - Community Sewage Collection & Treatment System - Sy	1995	Enclosed Bay, Estuary	Level III	260	168	SBR	Tertiary	No	Yes	Continuous	No
665	Tseshah	7551	TSAHAHEH NO. 1 - ARCHIVED WW System #7551 (CS Tank)	1970	Sub-Surface/Ground	None	n/a	n/a	Septic	Secondary	No	No	Continuous	No
665	Tseshah	7766	TSAHAHEH NO. 1 - Community Sewage Collection & Treatment System	1997	MTA	MTA	Not Available	Not Available	MTA	MTA	MTA	MTA	MTA	MTA
655	Tseycum	7545	UNION BAY NO. 4 - Community Sewage Collection & Treatment System	1989	MTA	MTA	1300	58	MTA	MTA	MTA	MTA	MTA	MTA
575	Tzeachten	7613	TZEACHTEN NO. 13 - Community Sewage Collection & Treatment Syste	1994	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
668	Ucluelet First Nation	7552	ITTATSOO NO. 1 - Community Sewage Collection & Treatment System	0	MTA	MTA			MTA	MTA	MTA	MTA	MTA	MTA
722	Ulkatcho	7623	ULKATCHO NO. 14A - Community Sewage Collection & Treatment Syste	1999	Wetland	Small System	280	120	Faculative lagoon	Secondary			Spring	No
697	Upper Nicola		NICOLA LAKE NO.1 - Community Sewage Disposal System	1998	Tile Field	None	N/A	18.6	Other	Primary	No	No	Continuous	No
545	West Moberly First Nations	7554	WEST MOBERLY LAKE NO. 168A - Community Sewage Collection & Treat	1995	Wetland	Small System	unknown	44 (est.)	Faculative lagoon	Secondary	No	No	Other	No
601	Westbank First Nation		TSINSTIKEPTUM NO. 10 - Community Wastewater Collection/Treatment	1985	MTA	MTA	not available	664	MTA	MTA	MTA	MTA	MTA	MTA
601	Westbank First Nation		TSINSTIKEPTUM NO. 9 - Community Wastewater Collection/Treatment	1989	MTA	MTA	not available	3237	MTA	MTA	MTA	MTA	MTA	MTA
601	Westbank First Nation	7567	TSINSTIKEPTUM NO. 9 (Elk Road) - Community Sewage Collection & T	1989	MTA	MTA	not available	25	MTA	MTA	MTA	MTA	MTA	MTA
725	Wetsuweten First Nation	7569	DUNCAN LAKE NO. 2 - Community Sewage Collection & Treatment Syst	1992	Sub-Surface/Ground	None		2	Other	Secondary	No	No	Continuous	No
725	Wetsuweten First Nation	7568	PALLING NO. 1 - Community Sewage Collection & Treatment System -	1979	Wetland	Small System		42	Faculative lagoon	Secondary	No	No	Continuous	No
719	Williams Lake	7622	WILLIAMS LAKE NO. 1 - Community Sewage Collection & Treatment Sy	1990	Sub-Surface/Ground	Small System	67		Faculative lagoon	Secondary	No	No	Continuous	No
714	Xeni Gwet'in First Nations Government	7619	LOHBIEE NO. 3 - Community Sewage Collection & Treatment System -	1998	Tile Field	Small System	112.5		Septic	Primary			Continuous	No
728	Yekooche	7586	YE KOO CHE NO. 3 - Community Sewage Collection & Treatment Syste	1988	Sub-Surface/Ground	Small System	not known	41.5	Septic	Primary	No	No	Continuous	No

First Nation Information				Collection System Information										Effluent Quality		Operator Information					
Band #	Band Name	System #	System Name	Collection Type	Collection Class	Pop. Served	Homes Piped	Homes Trucked	No. of Trucks in Service	Pipe Length	Pipe Length / Connection	Low Pressure Sewer	No. of Pumping Stations	Meets Federal Guidelines (1976)	Cause of Failure	Primary Operator Exists	Primary Operator Treatment Class	Primary Operator Collection Class	Secondary Operator Exists	Secondary Operator Treatment Class	Secondary Operator Collection Class
725	Wetsuweten First Nation	7568	PALLING NO. 1 - Community Sewage Collection & Treatment System -	Piped	Small System	100	20	0	0	1630	81	No	1	Meets Requirements	Unknown	Yes	Small System	Small System	Yes	No Certification	No Certification
719	Williams Lake	7622	WILLIAMS LAKE NO. 1 - Community Sewage Collection & Treatment Sy	Piped	Small System	278	81	0	0	5174	63	No	0	Low Freq, Low Mag	Unknown	Yes	Small System	Small System	Yes	Small System	Small System
714	Xeni Gwet'in First Nations Government	7619	LOHBIEE NO. 3 - Community Sewage Collection & Treatment System -	Piped	Small System	111	25	0	0	2315	92	No	0	Unknown	Unknown	Yes	No Certification	No Certification	No	No Operator	No Operator
728	Yekooche	7586	YE KOO CHE NO. 3 - Community Sewage Collection & Treatment Syste	Piped	Small System	100	47	0	0	1606	34	No	3	Meets Requirements	Unknown	Yes	No Certification	No Certification	No	No Certification	No Certification

Appendix E
Risk Summary

Appendix E.1

Individual First Nation Water Risk Summary

Table E.1: Individual First Nation Water Risk Summary

Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
684	Adams Lake	NEW001	SAHHALTKUM NO. 4 - ANTHONY ANDREW AND ARNOUSE	Groundwater	Small System	8.0	8.0	8.0	10.0	1.0	8.0
684	Adams Lake	6830	SAHHALTKUM NO. 4 - Community Water Supply & Distribution System	Groundwater	Small System	4.0	3.0	2.0	5.0	1.0	2.6
604	Akisqnuq First Nation		COLUMBIA LAKE NO. 3 - CENTRAL COMMUNAL WATER SYSTEM	Groundwater	Small System	6.0	2.0	3.0	1.0	1.0	2.4
604	Akisqnuq First Nation	6917	COLUMBIA LAKE NO. 3- Community Water Supply & Distribution Syste	Groundwater	Small System	6.0	8.0	8.0	10.0	3.0	8.0
709	Alexandria	7043	ALEXANDRIA NO. 3- Community Water Supply & Distribution System -	Groundwater	Small System	8.0	8.0	8.0	10.0	1.0	8.0
710	Alexis Creek	7044	REDSTONE FLAT NO. 1 - Community Water Supply & Distribution Syst	Groundwater	None	6.0	8.0	8.0	10.0	1.0	8.0
685	Ashcroft	6832	ASHCROFT NO. 2 & NO. 4 - Community Water Supply & Distribution S	Groundwater	Small System	8.0	8.0	8.0	2.0	1.0	8.0
547	Blueberry River First Nations	6821	BLUEBERRY RIVER NO. 205 - Community Water Supply & Distribution	Groundwater	Level II	7.0	4.0	2.0	4.0	2.0	3.3
686	Bonaparte	6836	BONAPARTE NO. 3- Community Water Supply & Distribution System -	Groundwater	None	4.0	8.0	8.0	5.0	1.0	8.0
701	Boston Bar First Nation	6875	TUCKKIOWHUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Small System	8.0	8.0	8.0	3.0	1.0	8.0
713	Canim Lake	9751	Canim Lake No. 1 (E. Subd) - Community Water Supply & Distributi	Groundwater	Small System	6.0	8.0	8.0	1.0	1.0	8.0
713	Canim Lake	9752	Canim Lake No. 1 (Main Village) - Community Water Supply & Distr	Groundwater	Small System	4.0	3.0	7.0	10.0	1.0	4.6
713	Canim Lake	9753	Canim Lake No. 1 (W. Subd) - Community Water Supply & Distributi	Groundwater	Small System	6.0	8.0	8.0	1.0	1.0	8.0
723	Canoe Creek	7053	CANOE CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Small System	4.0	1.0	5.0	10.0	1.0	3.4
723	Canoe Creek	7054	DOG CREEK NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	5.0	8.0	8.0	10.0	1.0	8.0
623	Cape Mudge	9779	Cape Mudge No. 10 - Community Water Supply & Distribution System	Groundwater	Small System	10.0	8.0	8.0	5.0	1.0	8.0
591	Cayooshe Creek	9794	CAYOOSHE CREEK No. 1 - Community Water Supply & Distribution Syst	Groundwater	Small System	8.0	8.0	8.0	10.0	1.0	8.0
583	Chawathil	7017	CHAWATHIL NO. 4 - Community Water Supply & Distribution System -	Groundwater	None	5.0	8.0	8.0	10.0	9.0	8.1
583	Chawathil	7015	SCHKAM NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	None	4.0	8.0	8.0	10.0	9.0	8.0
584	Cheam		CHEAM NO. 1 - East Hillside Subdivision Water System	Groundwater	None	5.0	8.0	8.0	10.0	7.0	8.0
559	Chehalis	6982	CHEHALIS NO. 5 - Community Water Supply & Distribution System -	Groundwater	Small System	6.0	7.0	8.0	10.0	1.0	8.0
641	Chemainus First Nation	6789	CHEMAINUS NO. 13 - Community Water Supply & Distribution System	Groundwater	Small System	5.0	5.0	8.0	9.0	1.0	5.5
641	Chemainus First Nation	6788	OYSTER BAY NO. 12 (North) - Community Water Supply & Distributio	Groundwater	Small System	5.0	3.0	8.0	10.0	1.0	5.0
693	Coldwater	6854	COLDWATER NO. 1 (Kwinshatin) - Community Water Supply & Distribu	Groundwater	None	7.0	8.0	8.0	10.0	10.0	8.5
693	Coldwater	6855	COLDWATER NO. 1 (Lower Kwinshatin) - Community Water Supply & Di	Groundwater	None	7.0	8.0	8.0	10.0	10.0	8.5
693	Coldwater	6853	COLDWATER NO. 1 (Skugan) - Community Water Supply & Distribution	Groundwater	None	7.0	8.0	10.0	10.0	10.0	9.1
694	Cook's Ferry	6857	KUMCHEEN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	5.0	8.0	5.0	10.0	5.0	6.4
642	Cowichan	9773	COWICHAN NO. 1 (Trestle /Miller Rd) - Community Water Supply & D	Groundwater	Small System	10.0	8.0	8.0	10.0	1.0	8.0
642	Cowichan		COWICHAN NO.9 - (Peter Rd) - Community Water Supply & Distributi	Groundwater	Small System	9.0	8.0	9.0	10.0	1.0	8.0
642	Cowichan		COWICHAN NO.9 - (River Bottom Rd) - Community Water Supply & Dis	Groundwater	Small System	9.0	8.0	8.0	10.0	1.0	6.9
642	Cowichan		COWICHAN NO.9 - (Tommy Rd) - Community Water Supply & Distributi	Groundwater	Small System	4.0	8.0	9.0	10.0	1.0	6.7
635	Da'naxda'xw First Nation	17018	DEAD POINT 5	Groundwater	Small System	4.0	6.0	8.0	10.0	1.0	8.0
662	Ditidaht	6809	MALACHAN NO. 11 - Community Water Supply & Distribution System -	Groundwater	Small System	7.0	8.0	8.0	5.0	1.0	8.0
548	Doig River	6822	Doig River NO. 206 - Community Water Supply & Distribution Syst	Groundwater	Level III	5.0	8.0	4.0	5.0	2.0	5.0
561	Douglas	6984	PORT DOUGLAS ON DOUGLAS NO. 8 - Community Water Supply & Distrib	Groundwater	Small System	5.0	4.0	8.0	10.0	8.0	8.0
561	Douglas	6983	TIPELLA ON DOUGLAS NO. 8 - Community Water Supply & Distribution	Groundwater	Small System	3.0	1.0	2.0	9.0	8.0	3.7
711	Esketemc	7046	ALKALI LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater	Small System	7.0	8.0	8.0	4.0	1.0	8.0
537	Gitanyow	6785	GITANYOW NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	5.0	8.0	8.0	9.0	1.0	8.0
536	Gitwangak	9782	Gitwangak 1 - Community Water Supply & Distribution System - Sys	Groundwater	Small System	5.0	8.0	8.0	4.0	1.0	8.0
627	Gwawaenuk Tribe	7124	HOPETOWN NO. 10A - Community Water Supply & Distribution System	Groundwater	Small System	5.0	8.0	8.0	10.0	9.0	8.1
645	Halalt	6791	HALALT NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater	Small System	10.0	8.0	8.0	10.0	1.0	8.0
661	Hesquiaht	6808	REFUGE COVE NO. 6 - Community Water Supply & Distribution System	Groundwater	None	4.0	1.0	1.0	2.0	1.0	1.4
663	Huu-ay-aht First Nations	6810	ANACLA NO. 12 - Community Water Supply & Distribution System - S	Groundwater	Small System	7.0	8.0	2.0	4.0	1.0	4.3
683	Iskut	7072	ISKUT NO. 6 - Community Water Supply & Distribution System - Sys	Groundwater	Small System	8.0	6.0	5.0	10.0	1.0	5.3
638	Ka:yu:kth/Che:k:tlas7eth First Nations	6829	HOUPSITAS NO. 6 - Community Water Supply & Distribution System -	Groundwater	Small System	7.0	8.0	9.0	10.0	9.0	8.6
532	Kispiox	6783	KISPIOX NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Level II	4.0	1.0	8.0	3.0	1.0	8.0
676	Kitamaat	6945	KITAMAAT NO. 2 - Community Water Supply & Distribution System -	Groundwater	None	5.0	8.0	8.0	5.0	1.0	8.0
680	Kitselas	6946	KITSELAS NO. 1 - Community Water Supply & Distribution System -	Groundwater	None	5.0	8.0	8.0	9.0	4.0	8.0
681	Kitsumkalum	6947	KITSUMKAYLUM NO. 1 - Community Water Supply & Distribution Syste	Groundwater	Level II	4.0	1.0	3.0	4.0	1.0	2.2

Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
553	Klahoose First Nation	6962	TORK NO. 7 - Community Water Supply & Distribution System - Syst	Groundwater	Small System	10.0	8.0	8.0	6.0	6.0	8.0
721	Kluskus	7065	KLUSKUS NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	10.0	8.0	10.0	4.0	8.0	8.4
610	Kwadacha First Nation	6944	Fort Ware NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	6.0	8.0	8.0	10.0	1.0	8.0
625	Kwicksutaineuk-ah-kwaw-ah-mish	6823	GWAYASDUMS NO. 1 - Community Water Supply & Distribution System	Groundwater	Level III	6.0	2.0	5.0	10.0	6.0	4.9
579	Leq a: mel First Nation	7006	HOLACHTEN NO. 8 - Community Water Supply & Distribution System -	Groundwater	None	5.0	8.0	8.0	10.0	5.0	8.0
579	Leq a: mel First Nation	7008	LAKAHAMEN NO. 11 - Community Water Supply & Distribution System	Groundwater	Small System	8.0	8.0	8.0	10.0	5.0	8.0
579	Leq a: mel First Nation	7007	SKWEAHM NO. 10 - Community Water Supply & Distribution System -	Groundwater	Small System	6.0	8.0	8.0	10.0	5.0	8.0
689	Little Shuswap Lake	6845	NORTH BAY NO. 5 (Tappen System) - Community Water Supply & Distr	Groundwater	Small System	5.0	8.0	8.0	10.0	1.0	8.0
689	Little Shuswap Lake	6840	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	5.0	8.0	5.0	8.0	1.0	8.0
689	Little Shuswap Lake	6841	QUAAOUT NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	6.0	8.0	8.0	10.0	1.0	8.0
606	Lower Kootenay	6920	CRESTON NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	5.0	8.0	8.0	10.0	5.0	8.0
695	Lower Nicola	6864	Joeyaska No. 2 - Community Water Supply & Distribution System -	Groundwater	Small System	5.0	8.0	8.0	7.0	1.0	8.0
695	Lower Nicola	6860	Nicola Mameet No. 1 (Rockey Pines) - Community Water Supply & Di	Groundwater	Small System	4.0	2.0	1.0	7.0	1.0	2.2
695	Lower Nicola	6863	Nicola Mameet No. 1 (Shulus Springs) - Community Water Supply &	Groundwater	Small System	4.0	8.0	8.0	7.0	1.0	8.0
695	Lower Nicola	6865	Zoht No. 4 - Community Water Supply & Distribution System - Syst	Groundwater	Small System	5.0	8.0	8.0	7.0	1.0	8.0
598	Lower Similkameen	6909	ASHNOLA NO. 10 - Community Water Supply & Distribution System -	Groundwater	None	5.0	8.0	9.0	10.0	10.0	8.6
598	Lower Similkameen	6906	BLIND CREEK NO. 6 - Community Water Supply & Distribution System	Groundwater	None	7.0	8.0	9.0	10.0	10.0	8.8
598	Lower Similkameen	6907	CHOPAKA NO. 7 & 8 - Community Water Supply & Distribution System	Groundwater	None	4.0	8.0	9.0	10.0	10.0	8.5
705	Lytton	6887	PAPYUM NO. 27 - Community Water Supply & Distribution System - S	Groundwater	Small System	5.0	8.0	8.0	4.0	1.0	8.0
705	Lytton	6880	SEAH NO. 5 - Community Water Supply & Distribution System - Syst	Groundwater	Small System	4.0	8.0	1.0	4.0	1.0	3.7
647	Malahat First Nation	6792	MALAHAT NO. 11 - Community Water Supply & Distribution System -	Groundwater	None	8.0	8.0	8.0	6.0	1.0	8.0
557	Mount Currie	6981	MOUNT CURRIE IR's: 10, 1, 8, 3 - Community Water Supply & Distri	Groundwater	Level I	5.0	4.0	5.0	4.0	4.0	4.4
557	Mount Currie	6980	MOUNT CURRIE NO. 6 - Community Water Supply & Distribution Syste	Groundwater	Level I	6.0	2.0	1.0	3.0	4.0	2.6
630	Mowachaht/Muchalaht	9784	TSA XANA NO. 18 - Community Water Supply & Distribution System	Groundwater	None	5.0	8.0	8.0	10.0	4.0	8.0
612	Nadleh Whuten	6923	NAUTLEY NO. 1 (Fort Fraser) - Community Water Supply & Distribut	Groundwater	Small System	5.0	8.0	1.0	1.0	1.0	3.5
612	Nadleh Whuten	6924	SEASPUNKUT NO. 4 - Community Water Supply & Distribution System	Groundwater	Small System	4.0	1.0	3.0	1.0	1.0	1.9
614	Nakazdli	6939	WILLIAMS PRAIRIE MEADOW NO. 1A - Community Water Supply & Distri	Groundwater	Small System	4.0	8.0	8.0	5.0	1.0	8.0
631	Namgis First Nation	6826	ALERT BAY NO. 1 & NO. 1A - Community Water Supply & Distribution	Groundwater	Level I	4.0	8.0	8.0	8.0	1.0	8.0
649	Nanoose First Nation	6796	NANOOSE IR - Community Water Supply & Distribution System	Groundwater	Small System	4.0	2.0	6.0	10.0	3.0	4.4
720	Nazko	7064	NAZKO NO. 20 - Community Water Supply & Distribution System - Sy	Groundwater	Small System	9.0	8.0	8.0	1.0	1.0	8.0
690	Neskonlith	7116	NESKONLITH NO 1 - Community Water Supply & Distribution System -	Groundwater	Small System	9.0	8.0	8.0	10.0	1.0	8.0
696	Nicomen	6866	NICOMEN NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	10.0	8.0	8.0	9.0	1.0	8.0
671	Nisgaa Village of Gingolx	9669	KINCOLITH NO. 14 - Community Water Supply & Distribution System	Groundwater	Small System	6.0	8.0	8.0	1.0	1.0	8.0
699	Nooaitch	6871	NOOAITCH NO. 10 (Main Community) - Community Water Supply & Dist	Groundwater	None	8.0	8.0	8.0	1.0	8.0	8.0
556	NQuatqua	6976	NEQUATQUE NO. 1 - Community Water Supply & Distribution System -	Groundwater	None	4.0	8.0	8.0	4.0	1.0	8.0
556	NQuatqua	6977	NEQUATQUE NO. 2 - Community Water Supply & Distribution System -	Groundwater	None	6.0	8.0	8.0	8.0	1.0	8.0
639	Nuchatlaht	9792	OCLUCJE NO. 7 - Community Water Supply & Distribution System - S	Groundwater	Small System	10.0	8.0	8.0	10.0	1.0	8.0
539	Nuxalk Nation	6958	BELLA COOLA NO. 1 - Community Water Supply & Distribution System	Groundwater	Level I	4.0	1.0	8.0	4.0	1.0	8.0
616	Okanagan	6896	OKANAGAN NO. 1 (Round Lake) - Community Water Supply & Distribut	Groundwater	None	4.0	8.0	8.0	10.0	1.0	8.0
616	Okanagan	6900	OKANAGAN NO. 1 (Salmon River) - Community Water Supply & Distrib	Groundwater	None	6.0	8.0	8.0	10.0	1.0	8.0
616	Okanagan	6894	OKANAGAN NO. 1 (Six Mile) - Community Water Supply & Distributio	Groundwater	None	5.0	8.0	8.0	10.0	1.0	8.0
616	Okanagan	6895	OKANAGAN NO. 1 (Whiteman Creek) - Community Water Supply & Distr	Groundwater	None	5.0	8.0	8.0	10.0	1.0	8.0
692	Oregon Jack Creek	6852	Upper Nepa No. 6 - Community Water Supply & Distribution System	Groundwater	Small System	6.0	8.0	8.0	10.0	10.0	8.4
596	Osoyoos	6901	OSOYOOS NO. 1 (Main System) - Community Water Supply & Distribut	Groundwater	None	10.0	8.0	8.0	6.0	7.0	8.0
541	Oweekeno/Wuikinuxv Nation	6960	KATIT NO. 1 - Community Water Supply & Distribution System - Sys	Groundwater	None	4.0	8.0	8.0	7.0	1.0	8.0
650	Penelakut	6797	KUPER ISLAND NO. 7 - Community Water Supply & Distribution Syste	Groundwater	Small System	6.0	8.0	8.0	2.0	1.0	8.0
597	Penticton	6903	PENTICTON NO. 1 (L. Village) - Community Water Supply & Distribu	Groundwater	None	6.0	8.0	8.0	1.0	1.0	8.0
597	Penticton	6904	PENTICTON NO. 1 (U. Village) - Community Water Supply & Distribu	Groundwater	None	8.0	8.0	8.0	1.0	1.0	8.0
544	Prophet River First Nation	6817	PROPHET RIVER NO. 4 - Community Water Supply & Distribution Syst	Groundwater	Small System	5.0	6.0	8.0	10.0	6.0	8.0
715	Red Bluff	7058	QUESNEL NO. 1 - Community Water Supply & Distribution System - S	Groundwater	None	6.0	8.0	8.0	10.0	6.0	8.0
615	Saikuz First Nation	6936	LAKETOWN NO. 3 - Community Water Supply & Distribution System -	Groundwater	Small System	4.0	8.0	3.0	10.0	1.0	4.9
615	Saikuz First Nation	6935	STONY CREEK NO. 1 - Community Water Supply & Distribution System	Groundwater	Small System	5.0	8.0	8.0	5.0	1.0	8.0

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Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
567	Samahquam	6994	BAPTISTE SMITH NO. 1B - Community Water Supply & Distribution Sy	Groundwater	None	10.0	8.0	8.0	4.0	1.0	8.0
542	Saulteau First Nations	6816	EAST MOBERLY LAKE NO. 169 - Community Water Supply & Distributio	Groundwater	Small System	10.0	8.0	8.0	10.0	1.0	8.0
568	Scowlitz	6995	SCOWLITZ NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	9.0	8.0	8.0	10.0	7.0	8.1
568	Scowlitz	6996	SQUAWKUM CREEK NO. 3 - Community Water Supply & Distribution Sys	Groundwater	Small System	4.0	8.0	8.0	10.0	6.0	8.0
581	Seabird Island	7009	SEABIRD ISLAND - Community Water Supply & Distribution System -	Groundwater	Small System	6.0	2.0	1.0	5.0	1.0	2.2
595	Seton Lake	7041	SLOSH NO. 1 (Seton Portage) - Community Water Supply & Distribut	Groundwater	None	4.0	8.0	8.0	5.0	4.0	8.0
595	Seton Lake	7040	SLOSH NO. 1 (Shalath) - Community Water Supply & Distribution Sy	Groundwater	None	7.0	8.0	8.0	5.0	1.0	8.0
595	Seton Lake	7042	SLOSH NO. 1 (Skial Mtn) - Community Water Supply & Distribution	Groundwater	Small System	4.0	1.0	6.0	5.0	1.0	3.2
605	Shuswap	6918	SHUSWAP (Shuswap Village) - Community Water Supply & Distributio	Groundwater	Small System	7.0	2.0	5.0	10.0	2.0	4.2
605	Shuswap	6919	SHUSWAP (Stoddard Village) - Community Water Supply & Distributi	Groundwater	Small System	8.0	8.0	8.0	10.0	5.0	8.0
587	Shxw'ow'hamel First Nation	7025	OHAMIL NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	Small System	4.0	8.0	8.0	10.0	1.0	8.0
691	Simpco First Nation	6848	NORTH THOMPSON NO. 1 (Newhykulston Creek - Main Village)- Commu	Groundwater	Small System	7.0	8.0	8.0	10.0	1.0	8.0
691	Simpco First Nation	6849	NORTH THOMPSON NO. 1 (Chinook Cove) - Community Water Supply & D	Groundwater	Small System	5.0	5.0	6.0	7.0	1.0	4.7
691	Simpco First Nation	6850	NORTH THOMPSON NO. 1 (Louisa Jules) - Community Water Supply & D	Groundwater	Small System	4.0	8.0	8.0	4.0	1.0	8.0
706	Siska	6888	SISKA FLAT NO. 3 - Community Water Supply & Distribution System	Groundwater	Small System	5.0	8.0	8.0	10.0	10.0	8.3
706	Siska	6889	SISKA FLAT NO. 5B - Community Water Supply & Distribution System	Groundwater	Small System	9.0	8.0	8.0	10.0	10.0	8.7
562	Skatin Nations	6985	SKOOKUMCHUCK NO. 4 - Community Water Supply & Distribution Syste	Groundwater	None	7.0	8.0	8.0	7.0	1.0	8.0
582	Skawahlook First Nation	7011	RUBY CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater	None	4.0	8.0	8.0	10.0	1.0	8.0
687	Skeetchestn		SKEETCHESTN - SOUTH ECONOMIC DEVELOPMENT PARCEL WATER SY	Groundwater	Level II	4.0	8.0	8.0	7.0	10.0	8.0
687	Skeetchestn	6837	SKEETCHESTN (Main Community) - Community Water Supply & Distribu	Groundwater	Small System	6.0	2.0	7.0	4.0	3.0	4.3
687	Skeetchestn	6838	SKEETCHESTN (Main Community)- Community Water Supply & Distribut	Groundwater	None	4.0	8.0	8.0	6.0	1.0	8.0
572	Soowahlie	6999	SOOWAHLIE NO. 14 - Community Water Supply & Distribution System	Groundwater	None	5.0	8.0	8.0	10.0	1.0	8.0
600	Spallumcheen	6911	ENDERBY NO. 2 (Canyon) - Community Water Supply & Distribution S	Groundwater	Small System	4.0	8.0	8.0	9.0	2.0	8.0
600	Spallumcheen	6912	ENDERBY NO. 2 (Jack Pine) - Community Water Supply & Distributio	Groundwater	Small System	8.0	8.0	8.0	9.0	2.0	8.0
555	Squamish	6972	CHEAKAMUS NO. 11 - Community Water Supply & Distribution System	Groundwater	Small System	4.0	8.0	8.0	10.0	1.0	8.0
602	St. Marys	6915	KOOTENAY NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	4.0	8.0	8.0	9.0	1.0	8.0
613	Stellat'en First Nation	6932	STELLAQUO (STELLA) NO. 1 (Northside Subd)- Community Water Supp	Groundwater	Small System	8.0	8.0	1.0	1.0	8.0	8.0
578	Sumas First Nation	7005	UPPER SUMAS NO. 6 - Community Water Supply & Distribution System	Groundwater	Small System	9.0	2.0	8.0	9.0	4.0	8.0
682	Tahltan	6950	DEASE LAKE NO. 9 - Community Water Supply & Distribution System	Groundwater	Small System	8.0	4.0	10.0	10.0	7.0	8.0
682	Tahltan	6949	TELEGRAPH CREEK NO. 6 - Community Water Supply & Distribution Sy	Groundwater	Small System	5.0	8.0	8.0	10.0	7.0	7.7
593	T'it'q'et	7035	MCCARTNEY'S FLAT NO. 4 - Community Water Supply & Distribution S	Groundwater	None	4.0	8.0	8.0	10.0	1.0	8.0
593	T'it'q'et	7034	TOWINOCK NO. 2 - Community Water Supply & Distribution System -	Groundwater	None	4.0	8.0	8.0	10.0	1.0	8.0
712	Tl'etinqox-t'in Government Office	7048	ANAHIM'S FLAT NO. 1 (Main System) - Community Water Supply & Dis	Groundwater	Small System	5.0	8.0	8.0	10.0	6.0	8.0
603	Tobacco Plains	6916	TOBACCO PLAINS NO. 2 - Community Water Supply & Distribution Sys	Groundwater	Small System	9.0	8.0	8.0	8.0	1.0	6.7
718	Toosey	7062	TOOSEY NO. 1 - Community Water Supply & Distribution System - Sy	Groundwater	None	7.0	8.0	8.0	4.0	1.0	8.0
636	Tsawataineuk	6828	QUAEE NO. 7 - Community Water Supply & Distribution System - Sys	Groundwater	Small System	4.0	4.0	7.0	7.0	7.0	5.8
609	Tsay Keh Dene	7106	FINLAY RIVER (reserve name not changed yet) - Community Water Su	Groundwater	Small System	5.0	8.0	8.0	10.0	1.0	8.0
594	Tskwaylaxw First Nation	7039	Marble Canyon No. 3 (aka Marble Canyon 3A) - Community Water Sup	Groundwater	None	6.0	8.0	8.0	7.0	1.0	8.0
594	Tskwaylaxw First Nation	7038	PAVILION NO. 1 - Community Water Supply & Distribution System -	Groundwater	None	8.0	8.0	3.0	7.0	1.0	5.0
667	Uchucklesaht	6814	ELHLATEESE NO. 2 - Community Water Supply & Distribution System	Groundwater	None	5.0	8.0	8.0	4.0	10.0	8.0
722	Ulkatcho	7067	ULKATCHO NO. 14A - Community Water Supply & Distribution System	Groundwater	Level I	5.0	2.0	5.0	7.0	1.0	3.5
697	Upper Nicola	6868	DOUGLAS LAKE NO. 3 - Community Water Supply & Distribution Syste	Groundwater	None	2.0	8.0	8.0	5.0	1.0	8.0
599	Upper Similkameen	6910	CHUCHUWAYHA NO. 2 - Community Water Supply & Distribution System	Groundwater	None	5.0	8.0	8.0	10.0	10.0	8.3
725	Wetsuweten First Nation	6922	DUNCAN LAKE NO. 2 - Community Water Supply & Distribution System	Groundwater	None	4.0	8.0	8.0	4.0	1.0	8.0
725	Wetsuweten First Nation	6921	PALLING NO. 1 - Community Water Supply & Distribution System - S	Groundwater	Small System	8.0	8.0	7.0	7.0	1.0	8.0
702	Whispering Pines/Clinton	7073	WHISPERING PINES NO. 4 - Band Office & Community Water System	Groundwater	Small System	10.0	9.0	8.0	10.0	10.0	9.1
702	Whispering Pines/Clinton	7074	WHISPERING PINES NO. 4 - Community Water Supply & Distribution S	Groundwater	Small System	10.0	8.0	8.0	10.0	10.0	8.8
702	Whispering Pines/Clinton		WHISPERING PINES NO. 4 - Ed Lebourdais Community Water System	Groundwater	None	10.0	9.0	8.0	1.0	9.0	8.0
719	Williams Lake	7063	WILLIAMS LAKE NO. 1 - Community Water Supply & Distribution Syst	Groundwater	Small System	10.0	8.0	8.0	1.0	1.0	8.0
592	Xaxli'p	7033	CHILHIL NO. 6 - Community Water Supply & Distribution System - S	Groundwater	Small System	4.0	8.0	8.0	5.0	8.0	8.0
592	Xaxli'p	7031	FOUNTAIN NO. 1 - Community Water Supply & Distribution System -	Groundwater	Small System	7.0	8.0	8.0	5.0	9.0	8.0
714	Xeni Gwet'in First Nations Government	7056	LOHBIEE NO. 3 - Community Water Supply & Distribution System - S	Groundwater	Small System	5.0	2.0	8.0	8.0	1.0	8.0

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Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
589	Yale First Nation	7027	LUKSEETSISSUM NO. 9 - Community Water Supply & Distribution Syst	Groundwater	None	9.0	8.0	8.0	10.0	1.0	8.0
589	Yale First Nation	7026	STULLAWHEETS NO. 8 - Community Water Supply & Distribution Syste	Groundwater	None	5.0	8.0	8.0	10.0	1.0	8.0
710	Alexis Creek		MICHEL GARDENS NO. 36 - COMMUNITY WATER SYSTEM	Groundwater GUDI	None	10.0	8.0	9.0	10.0	1.0	8.0
700	Boothroyd	6873	KAHMOOSE NO. 4- Community Water Supply & Distribution System - S	Groundwater GUDI	Small System	7.0	8.0	8.0	1.0	1.0	8.0
591	Cayoose Creek	9795	PASHILQUA No. 2 - Community Water Supply & Distribution System -	Groundwater GUDI	None	8.0	8.0	6.0	10.0	1.0	6.2
546	Halfway River First Nation	6820	HALFWAY RIVER NO. 168 - Community Water Supply & Distribution Sy	Groundwater GUDI	Small System	10.0	8.0	4.0	5.0	1.0	5.3
611	Lheidli Tenneh	6926	FORT GEORGE NO. 2 (N. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	Small System	8.0	8.0	5.0	10.0	1.0	5.9
611	Lheidli Tenneh	6925	FORT GEORGE NO. 2 (S. Shelly) - Community Water Supply & Distrib	Groundwater GUDI	Small System	8.0	3.0	8.0	10.0	1.0	8.0
618	McLeod Lake	6927	MCLEOD LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	Small System	8.0	8.0	8.0	4.0	1.0	8.0
678	Nisgaa Village of Laxgaltsap	9663	LACHKALTSAP NO. 9 (Village) - Community Water Supply & Distribut	Groundwater GUDI	Small System	8.0	8.0	8.0	1.0	1.0	8.0
616	Okanagan	6893	OKANAGAN NO. 1 (Bradley Creek) - Community Water Supply & Distri	Groundwater GUDI	None	8.0	8.0	8.0	10.0	1.0	8.0
616	Okanagan	6898	OKANAGAN NO. 1 (Irish Creek) - Community Water Supply & Distribu	Groundwater GUDI	None	8.0	8.0	8.0	10.0	1.0	8.0
698	Shackan	6869	SHACKAN NO. 11 (Main Village) - Community Water Supply & Distrib	Groundwater GUDI	None	10.0	8.0	8.0	10.0	9.0	8.6
716	Soda Creek	7060	DEEP CREEK NO. 2 - Community Water Supply & Distribution System	Groundwater GUDI	Level II	7.0	2.0	1.0	1.0	2.0	2.1
617	Tl'az'en Nation	6941	BINCHE NO. 2 - Community Water Supply & Distribution System - Sy	Groundwater GUDI	Small System	9.0	2.0	3.0	1.0	6.0	3.7
697	Upper Nicola	6867	NICOLA LAKE NO. 1 - Community Water Supply & Distribution System	Groundwater GUDI	None	9.0	8.0	8.0	5.0	8.0	8.0
728	Yekoche	6942	YE KOO CHE NO. 3 - Community Water Supply & Distribution System	Groundwater GUDI	Small System	9.0	8.0	8.0	1.0	8.0	8.0
684	Adams Lake	6831	SWITSEMALPH NO. 6 - Community Water Supply & Distribution System	MTA	MTA	1.0	1.0	5.0	5.0	1.0	2.6
640	Beecher Bay	6787	BEECHER BAY NO. 1 - Community Water Supply & Distribution System	MTA	MTA	1.0	2.0	7.0	10.0	1.0	4.0
619	Burns Lake	7068	BURNS LAKE NO. 18- Community Water Supply & Distribution System	MTA	MTA	1.0	8.0	4.0	1.0	1.0	4.0
549	Burrard	6961	BURRARD INLET NO. 3- Community Water Supply & Distribution Syste	MTA	MTA	2.0	8.0	6.0	7.0	8.0	8.0
622	Campbell River	7125	CAMPBELL RIVER NO. 11- Community Water Supply & Distribution Sys	MTA	MTA	2.0	1.0	5.0	10.0	1.0	3.2
623	Cape Mudge	9778	Quisam No. 12 - Community Water Supply & Distribution System - S	MTA	MTA	1.0	2.0	6.0	7.0	1.0	3.4
584	Cheam	7020	CHEAM NO. 1- Community Water Supply & Distribution System - Syst	MTA	MTA	1.0	2.0	6.0	10.0	1.0	3.7
641	Chemainus First Nation	12280	SQUAW-HAY-ONE NO.11 - Community Water Supply & Distribution Syst	MTA	MTA	1.0	8.0	8.0	1.0	1.0	5.2
624	Comox	9758	COMOX IR #1 - Community Water Supply & Distribution System - Sys	MTA	MTA	1.0	1.0	5.0	1.0	1.0	2.2
642	Cowichan	9774	COWICHAN NO. 1 & IR NO. 9 Community Water Supply & Distribution	MTA	MTA	1.0	8.0	9.0	1.0	1.0	5.5
642	Cowichan		COWICHAN NO.1 - Community Water Supply and Distribution	MTA	MTA	1.0	1.0	3.0	1.0	1.0	1.6
642	Cowichan	12259	THEIK NO. 2 & KIL-PAH-LAS NO. 3 - Community Water Supply & Distr	MTA	MTA	1.0	1.0	7.0	1.0	1.0	2.8
634	Ehattesaht	12239	EHATIS IR 11 - Community Water Supply & Distribution System - Sy	MTA	MTA	2.0	6.0	6.0	1.0	1.0	4.1
644	Esquimalt	6790	ESQUIMALT - Community Water Supply & Distribution System - Syst	MTA	MTA	1.0	1.0	7.0	1.0	1.0	2.8
543	Fort Nelson First Nation	6818	FORT NELSON NO. 2 - Community Water Supply & Distribution System	MTA	MTA	2.0	8.0	1.0	7.0	4.0	4.4
724	GwaSala-Nakwaxdaxw	6825	TSULQUATE NO. 4 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	7.0	10.0	1.0	3.7
534	Hagwilget Village	6786	HAGWILGET NO. 1 - Community Water Supply & Distribution System -	MTA	MTA	3.0	1.0	4.0	9.0	1.0	2.9
552	Homalco	7098	HOMALCO NO. 9 - Community Water Supply & Distribution System - S	MTA	MTA	1.0	8.0	8.0	1.0	1.0	5.2
664	Hupacasath First Nation	6811	AHAHSWINIS NO. 1 - Community Water Supply & Distribution System	MTA	MTA	3.0	2.0	5.0	8.0	10.0	5.2
563	Katzie	6991	BARNSTON ISLAND NO. 3 - Community Water Supply & Distribution Sy	MTA	MTA	2.0	1.0	8.0	10.0	5.0	4.9
563	Katzie	6986	KATZIE NO. 1 - Community Water Supply & Distribution System - Sy	MTA	MTA	3.0	1.0	8.0	10.0	5.0	5.0
563	Katzie	6989	KATZIE NO. 2 - Community Water Supply & Distribution System - Sy	MTA	MTA	2.0	1.0	7.0	10.0	5.0	4.6
680	Kitselas		KULSPA 6 - COMMUNITY WATER SYSTEM	MTA	MTA	1.0	2.0	3.0	1.0	1.0	1.9
626	Kwakiutl	6824	FORT RUPERT NO. 1 - Community Water Supply & Distribution System	MTA	MTA	1.0	1.0	8.0	10.0	10.0	5.8
564	Kwantlen First Nation	6992	MCMILLAN ISLAND NO. 6 - Community Water Distribution System	MTA	MTA	2.0	1.0	5.0	4.0	1.0	2.6
580	Kwaw-kwaw-Apilt		KWAW-KWAW-APILT 6 COMMUNITY WATER SYSTEM	MTA	MTA	1.0	1.0	8.0	1.0	1.0	3.1
560	Kwikwetlem First Nation	17023	KWIKWETLAM Community Water Supply & Distribution System	MTA	MTA	3.0	1.0	8.0	10.0	7.0	5.4
607	Lake Babine Nation	NEW001	WOYENNE NO. 27 - MTA WITH BURNS LAKE	MTA	MTA	1.0	1.0	5.0	10.0	1.0	3.1
643	Lake Cowichan First Nation	12281	COWICHAN LAKE - Community Water Supply & Distribution System -	MTA	MTA	3.0	8.0	8.0	1.0	1.0	5.4
705	Lytton	6883	KLAHKAMICH NO. 17 - Community Water Supply & Distribution System	MTA	MTA	3.0	8.0	1.0	4.0	1.0	8.0
705	Lytton	6884	KLICKKUMCHEEN NO. 18 - Community Water Supply & Distribution Sys	MTA	MTA	3.0	8.0	1.0	4.0	1.0	8.0
565	Matsqui	6993	MATSQUI MAIN NO. 2 - Community Water Supply & Distribution Syste	MTA	MTA	3.0	1.0	5.0	4.0	1.0	2.7
550	Musqueam	7070	MUSQUEAM NO. 2 - Community Water Supply & Distribution System -	MTA	MTA	2.0	1.0	5.0	10.0	3.0	3.6
614	Nakazdli	6937	NAK'AZDLI - Community Water Supply & Distribution System - Syste	MTA	MTA	1.0	8.0	8.0	2.0	1.0	5.3
726	Nee-Tahi-Buhn		THREE NATIONS WATER SYSTEM	MTA	MTA	1.0	1.0	2.0	5.0	1.0	1.7

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Water

Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
690	Neskonlith	6847	SWITSEMALPH NO. 3 - Community Water Supply & Distribution System	MTA	MTA	1.0	1.0	2.0	1.0	1.0	1.3
669	Old Massett Village Council	6951	MASSET NO. 1 - Community Water Supply & Distribution System - Sy	MTA	MTA	1.0	2.0	5.0	9.0	1.0	3.3
652	Pauquachin	6799	COLE BAY NO. 3 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	6.0	10.0	1.0	3.4
650	Penelakut	12279	TSUSSIE No. 6 - Community Water Supply & Distribution System - S	MTA	MTA	1.0	4.0	8.0	10.0	1.0	8.0
651	Qualicum First Nation	6798	QUALICUM - Community Water Supply & Distribution System	MTA	MTA	1.0	3.0	1.0	1.0	1.0	1.6
633	Quatsino	7075	QUATSINO SUBDIVISION NO. 18 - Community Water Supply & Distribut	MTA	MTA	1.0	1.0	7.0	10.0	10.0	5.5
551	Sechelt	9790	SECHELT NO. 2 - Community Water Supply & Distribution System - S	MTA	MTA	6.0	1.0	1.0	1.0	1.0	1.5
569	Semiahmoo	6997	SEMAHMOO IR - Community Water Supply & Distribution System - Sy	MTA	MTA	3.0	8.0	3.0	1.0	1.0	8.0
570	Shxwhá:y Village	9858	SKWAY NO. 5 - Community Water Supply & Distribution System - Sys	MTA	MTA	4.0	6.0	5.0	10.0	6.0	5.9
729	Skin Tyee		THREE NATIONS WATER SYSTEM	MTA	MTA	1.0	1.0	2.0	5.0	1.0	1.7
571	Skowkale		SKOWKALE COMMUNITY WATER SYSTEM	MTA	MTA	1.0	1.0	5.0	10.0	1.0	3.1
573	Skwah	7114	SKWAH NO. 4 - Community Water Supply & Distribution System - Sys	MTA	MTA	1.0	1.0	6.0	1.0	1.0	2.5
648	Snuneymuxw First Nation	6794	NANAIMO RIVER NO. 3 - Community Water Supply & Distribution Syst	MTA	MTA	1.0	2.0	7.0	8.0	1.0	3.8
648	Snuneymuxw First Nation	6795	NANAIMO RIVER NO. 4 - Community Water Supply & Distribution Syst	MTA	MTA	1.0	2.0	7.0	8.0	1.0	3.8
648	Snuneymuxw First Nation	6793	NANAIMO TOWN NO. 1 - Community Water Supply & Distribution Syste	MTA	MTA	1.0	1.0	7.0	8.0	1.0	3.5
656	Songhees First Nation	9788	NEW SONGHEES NO. 1A - Community Water Supply & Distribution Syst	MTA	MTA	1.0	1.0	9.0	4.0	1.0	3.7
555	Squamish	6966	CAPILANO NO. 5 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	5.0	4.0	1.0	2.5
555	Squamish		KOWTAIN NO. 17 - Community Water System	MTA	MTA	1.0	1.0	7.0	1.0	1.0	2.8
555	Squamish	6964	MISSION NO. 1 - Community Water Supply & Distribution System - S	MTA	MTA	1.0	8.0	8.0	4.0	1.0	5.5
555	Squamish	6965	SEYMOUR CREEK NO. 2 - Community Water Supply & Distribution Syst	MTA	MTA	1.0	1.0	2.0	4.0	3.0	2.0
555	Squamish	6975	STAWAMUS NO. 24 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	7.0	4.0	1.0	3.1
555	Squamish	6974	WAIWAKUM NO. 14 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	7.0	10.0	1.0	3.7
555	Squamish		YEKWAUPSUM NO. 18 - Community Water System	MTA	MTA	1.0	1.0	7.0	1.0	1.0	2.8
574	Squiala First Nation	7000	SQUIAALA NO. 7 - Community Water Supply & Distribution System -	MTA	MTA	4.0	6.0	5.0	8.0	1.0	4.7
574	Squiala First Nation		SQUIAALA NO. 8 - Community Water Supply & Distribution System	MTA	MTA	4.0	6.0	5.0	7.0	1.0	4.6
593	T'it'q'et	7037	LILLOOET NO. 1 (T'it'q'et Heights Subd) - Community Water Supply	MTA	MTA	3.0	3.0	6.0	5.0	1.0	3.7
660	Tla-o-qui-aht First Nations	6807	ESOWISTA NO. 3 - Community Water Supply & Distribution System -	MTA	MTA	5.0	3.0	1.0	7.0	1.0	2.6
653	Tsartlip	9836	SOUTH SAANICH NO. 1 - Community Water Supply & Distribution Syst	MTA	MTA	5.0	1.0	6.0	10.0	1.0	3.8
654	Tsawout First Nation	6800	EAST SAANICH NO. 2- Community Water Supply & Distribution System	MTA	MTA	7.0	1.0	8.0	1.0	1.0	3.7
577	Tsawwassen First Nation	7004	TSAWWASSEN - Community Water Supply & Distribution System - Syst	MTA	MTA	1.0	1.0	4.0	1.0	1.0	1.9
665	Tseshaht	6813	TSAHAHEH NO. 1 - Community Water Supply & Distribution System -	MTA	MTA	10.0	3.0	5.0	10.0	6.0	5.6
655	Tseycum	6801	UNION BAY NO. 4 - Community Water Supply & Distribution System -	MTA	MTA	1.0	2.0	8.0	5.0	1.0	3.8
657	TSou-ke First Nation	6802	T'SOU-KE NO. 1 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	3.0	10.0	1.0	2.5
657	TSou-ke First Nation	6803	T'SOU-KE NO. 2 - Community Water Supply & Distribution System -	MTA	MTA	1.0	1.0	3.0	10.0	1.0	2.5
575	Tzeachten	7003	TZEACHTEN NO. 13 - Community Water Supply & Distribution System	MTA	MTA	1.0	2.0	5.0	10.0	1.0	3.4
668	Ucluelet First Nation	6815	ITTATSOO NO. 1 - Community Water Supply & Distribution System -	MTA	MTA	1.0	4.0	3.0	4.0	1.0	2.8
576	Yakwekwioose	9671	YAKWEAKWIOOSE NO. 12 - Community Water Supply & Distribution Sys	MTA	MTA	1.0	1.0	1.0	1.0	1.0	1.0
659	Ahousaht	6805	MARKTOSIS NO. 15 (Maaqtusiis Village) - Community Water Supply &	Surface Water	Level II	9.0	2.0	1.0	3.0	3.0	2.7
686	Bonaparte		BONAPARTE NO.1 UPPER HAT CREEK - COMMUNITY SUPPLY & DISTRIB	Surface Water	None	10.0	8.0	8.0	10.0	1.0	8.0
701	Boston Bar First Nation	6876	KOPCHITCHIN NO. 2 - Community Water Supply & Distribution System	Surface Water	Small System	8.0	2.0	8.0	5.0	1.0	4.5
590	Bridge River	7028	BRIDGE RIVER NO. 1 (Main Village) - Community Water Supply & Dis	Surface Water	Small System	6.0	3.0	3.0	7.0	4.0	3.9
590	Bridge River	7030	BRIDGE RIVER NO. 1 (Orchard Springs) - Community Water Supply &	Surface Water	Small System	8.0	8.0	3.0	7.0	1.0	5.0
620	Cheslatta Carrier Nation	7069	CHESLATTA NO. 1 (3 Nations) Community Water Treatment System - S	Surface Water	Level III	8.0	2.0	8.0	7.0	2.0	4.9
634	Ehatesaht	9856	CHENAHKINT NO. 12 - Community Water Supply & Distribution System	Surface Water	None	10.0	10.0	10.0	10.0	10.0	10.0
531	Gitanmaax	6781	GITANMAAX NO. 1 - Community Water Supply & Distribution System -	Surface Water	Level III	10.0	8.0	1.0	6.0	1.0	4.5
535	Gitsegukla	6784	GITSEGUKLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Level II	9.0	2.0	3.0	4.0	1.0	3.0
672	Gitxaala Nation	6953	DOLPHIN ISLAND NO. 1 - Community Water Supply & Distribution Sys	Surface Water	Level II	8.0	4.0	2.0	6.0	1.0	3.4
533	Glen Vowell	6782	SIK-E-DAKH NO. 2 - Community Water Supply & Distribution System	Surface Water	Level II	8.0	4.0	3.0	2.0	1.0	3.3
675	Hartley Bay	6956	KULKAYU (HARTLEY BAY) NO. 4 - Community Water Supply & Distribut	Surface Water	Level II	10.0	4.0	3.0	5.0	3.0	4.2
538	Heiltsuk	6957	BELLA BELLA NO. 1 - Community Water Supply & Distribution System	Surface Water	Level III	8.0	4.0	8.0	5.0	1.0	8.0
664	Hupacasath First Nation	6812	KLEHKOOT NO. 2 - Community Water Supply & Distribution System -	Surface Water	Small System	10.0	6.0	8.0	10.0	7.0	8.0
688	Kamloops	6839	KAMLOOPS NO. 1 - Community Water Supply & Distribution System -	Surface Water	Level IV	10.0	1.0	2.0	1.0	1.0	2.2

Band #	Band Name	System #	System Name	Water Source	Treatment Class	Legend:					
						Source Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
704	Kanaka Bar	6877	NEKLIPTUM NO. 1 - Community Water Supply & Distribution System -	Surface Water	Small System	7.0	2.0	8.0	6.0	1.0	8.0
540	Kitasoo	6959	KITASOO NO. 1- Community Water Supply & Distribution System - Sy	Surface Water	Level I	10.0	3.0	9.0	10.0	1.0	8.0
607	Lake Babine Nation	6930	Babine NO. 25 (Tachet) - Community Water Supply & Distribution	Surface Water	Level II	9.0	2.0	3.0	1.0	1.0	2.7
607	Lake Babine Nation	6929	Babine NO. 6 (Fort Babine) - Community Water Supply & Distributi	Surface Water	Level II	9.0	2.0	3.0	1.0	5.0	3.5
674	Lax-kwalaams	6955	LAX KW'ALAAMS NO. 1 - Community Water Supply & Distribution Syst	Surface Water	Level II	8.0	2.0	2.0	6.0	5.0	3.6
705	Lytton	6885	KITZOWIT NO. 20 - Community Water Supply & Distribution System -	Surface Water	Small System	8.0	8.0	8.0	4.0	1.0	8.0
705	Lytton	6882	LYTTON NO. 9A and NKAIH NO. 10) - Community Water Supply & Distr	Surface Water	Small System	8.0	8.0	8.0	4.0	1.0	8.0
705	Lytton	6878	NICKEL PALM NO. 4 & 4A - Community Water Supply & Distribution S	Surface Water	Small System	9.0	8.0	8.0	4.0	1.0	8.0
705	Lytton	6886	NICKEYEAH NO. 25 - Community Water Supply & Distribution System	Surface Water	Small System	10.0	8.0	8.0	4.0	1.0	8.0
705	Lytton	6881	STRYEN NO. 9, NUJAUTIN NO. 2, INKLUCKCHEEN NO. 21 - Community Wa	Surface Water	Small System	7.0	1.0	1.0	1.0	1.0	1.6
673	Metlakatla	6954	S1/2 TSIMPSEAN NO. 2 - Community Water Supply & Distribution Sys	Surface Water	Level II	9.0	2.0	2.0	6.0	1.0	2.9
530	Moricetown	6780	MORICETOWN NO. 1- Community Water Supply & Distribution System -	Surface Water	Level II	8.0	2.0	1.0	5.0	1.0	2.4
690	Neskonlith	6846	NESKONLITH NO. 2 - Community Water Supply & Distribution System	Surface Water	Level II	9.0	1.0	4.0	10.0	1.0	3.6
679	Nisgaa Village of Gitwinksihlkw	9665	GITWINKSIHLKW NO. 7 - Community Water Supply & Distribution Syst	Surface Water	Small System	8.0	6.0	2.0	1.0	1.0	3.5
677	Nisgaa Village of New Aiyansh	9667	NEW AIYANSH NO. 1 - Community Water Supply & Distribution System	Surface Water	Level II	8.0	3.0	5.0	10.0	1.0	4.4
605	Shuswap	NEW001	KINBASKET TRAILER PARK WATER SYSTEM	Surface Water	Small System	10.0	8.0	8.0	10.0	5.0	8.0
670	Skidegate	6952	SKIDEGATE NO. 1 - Community Water Supply & Distribution System -	Surface Water	Level III	7.0	2.0	3.0	2.0	1.0	2.6
707	Skuppah	6890	SKUPPAH NO. 2 - Community Water Supply & Distribution System - S	Surface Water	Level II	10.0	3.0	8.0	6.0	1.0	8.0
554	Sliammon	6963	SLIAMMON NO. 1 - Community Water Supply & Distribution System -	Surface Water	Level III	10.0	5.0	9.0	1.0	4.0	8.0
716	Soda Creek	7059	SODA CREEK NO. 1 - Community Water Supply & Distribution System	Surface Water	Level I	8.0	2.0	1.0	1.0	1.0	2.0
708	Spuzzum	6892	SPUZZUM NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Small System	8.0	2.0	2.0	2.0	3.0	2.8
717	Stone	7061	STONE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Level II	10.0	3.0	5.0	4.0	6.0	5.0
608	Takla Lake First Nation	6931	NORTH TAKLA LAKE NO. 7 - Community Water Supply & Distribution S	Surface Water	Level III	10.0	2.0	8.0	1.0	1.0	8.0
593	T'it'q'et	7036	SETON LAKE NO. 5 - Community Water Supply & Distribution System	Surface Water	Small System	9.0	3.0	7.0	10.0	1.0	5.1
660	Tla-o-qui-aht First Nations	6806	OPITSAT NO. 1 - Community Water Supply & Distribution System - S	Surface Water	Level II	8.0	3.0	8.0	5.0	2.0	5.0
632	Tlatlasikwala	6827	HOPE ISLAND NO. 1 - Community Water Supply & Distribution System	Surface Water	Small System	9.0	2.0	7.0	10.0	1.0	4.8
617	Tl'azt'en Nation	6943	DZITLINE LEE NO. 9 (Middle River aka Gelangle 1) - Community Wat	Surface Water	Small System	9.0	7.0	8.0	3.0	1.0	8.0
617	Tl'azt'en Nation	6940	TACHE NO. 1 - Community Water Supply & Distribution System - Sys	Surface Water	Level III	10.0	3.0	8.0	2.0	7.0	5.9
666	Toquaht	7123	MACOAH NO. 1 - Community Water Supply & Distribution System - Sy	Surface Water	Small System	10.0	9.0	8.0	4.0	1.0	8.0
545	West Moberly First Nations	6819	WEST MOBERLY LAKE NO. 168A - Community Water Supply & Distributi	Surface Water	Level I	10.0	8.0	8.0	4.0	1.0	8.0
601	Westbank First Nation	6914	TSINSTIKEPTUM NO. 10 - Community Water Supply & Distribution Sys	Surface Water	None	9.0	8.0	1.0	1.0	1.0	3.9
601	Westbank First Nation	6913	TSINSTIKEPTUM NO. 9 - Community Water Supply & Distribution Syst	Surface Water	None	10.0	8.0	1.0	1.0	1.0	4.0
714	Xeni Gwet'in First Nations Government	7055	CHILCO LAKE NO. 1A - Community Water Supply & Distribution Syste	Surface Water	Small System	9.0	8.0	8.0	10.0	1.0	8.0

Appendix E.2

Individual First Nation Wastewater Risk Summary

Table E.2: Individual First Nation Wastewater Risk Summary

Band #	Band Name	System #	System Name	Receiver Type	Treatment Class	Legend:					
						High Risk	Medium Risk	Low Risk	Effluent Risk	Design Risk	Operations Risk
671	Nisgaa Village of Gingolx	9670	KINCOLITH NO. 14 - Community Sewage Collection & Treatment Syste	Enclosed bay	None	10.0	8.0	3.0	1.0	5.0	5.8
577	Tsawwassen First Nation	7614	TSAWWASSEN - Community Sewage Collection & Treatment System - Sy	Enclosed bay	Level III	10.0	4.0	8.0	1.0	1.0	5.3
614	Nakazdli	7847	WILLIAMS PRAIRIE MEADOW NO. 1A - Community Sewage Collection & T	Evaporation	Small System	2.0	1.0	6.0	5.0	5.0	3.6
615	Saikuz First Nation	7581	STONY CREEK NO. 1 - Community Sewage Collection & Treatment Syst	Evaporation	Small System	2.0	1.0	3.0	5.0	1.0	2.1
547	Blueberry River First Nations	7556	BLUEBERRY RIVER NO. 205 - Community Sewage Collection & Treatmen	Lake, reservoir	Small System	10.0	4.0	8.0	10.0	1.0	6.2
617	Tl'azt'en Nation	7585	TACHE NO. 1 - Community Sewage Collection & Treatment System - S	Lake, reservoir	Small System	10.0	2.0	5.0	1.0	6.0	5.0
684	Adams Lake	0	SAHHALTKUM NO.4 - Community Wastewater System	MTA	MTA	1.0	1.0	1.0	5.0	1.0	1.4
558	Aitchelitz	7653	AITCHELITZ NO. 9 - Community Sewage Collection & Treatment Syst	MTA	MTA	1.0	1.0	5.0	1.0	1.0	2.0
619	Burns Lake	7624	BURNS LAKE NO. 18- Community Sewage Collection & Treatment Syste	MTA	MTA	6.0	1.0	6.0	5.0	1.0	3.6
549	Burrard	7599	BURRARD INLET NO. 3 - Community Sewage Collection & Treatment Sy	MTA	MTA	1.0	2.0	7.0	7.0	8.0	4.7
622	Campbell River	7692	CAMPBELL RIVER NO. 11- Community Sewage Collection & Treatment S	MTA	MTA	6.0	2.0	5.0	10.0	1.0	4.1
623	Cape Mudge	9781	Quinsam No. 12 - Community Sewage Collection & Treatment System	MTA	MTA	6.0	2.0	7.0	1.0	2.0	3.9
641	Chemainus First Nation	NEW001	SQUAW-HAY-ONE NO.11 - Community Wastewater System	MTA	MTA	1.0	1.0	5.0	1.0	1.0	2.0
624	Comox	9757	COMOX IR #1 - Community Sewage Collection & Treatment System - S	MTA	MTA	6.0	2.0	7.0	1.0	1.0	3.7
642	Cowichan	9775	COWICHAN NO 1 - Community Sewage Collection & Treatment System -	MTA	MTA	4.0	2.0	7.0	10.0	5.0	5.0
634	Ehattesah	9777	EHATIS NO. 11 - Community Sewage Collection & Treatment System -	MTA	MTA	1.0	7.0	7.0	1.0	1.0	4.0
644	Esquimalt	7536	ESQUIMALT - Community Sewage Collection & Treatment System - Sys	MTA	MTA	1.0	1.0	8.0	1.0	7.0	3.9
531	Gitanmaax	7531	GITANMAAX NO. 1 - Community Sewage Collection & Treatment System	MTA	MTA	5.0	2.0	6.0	7.0	2.0	4.1
724	GwaSala-Nakwaxdaxw	7559	TSULQUATE NO. 4 - Community Sewage Collection & Treatment System	MTA	MTA	1.0	2.0	7.0	10.0	6.0	4.6
552	Homalco	7638	HOMALCO NO. 9 - Community Sewage Collection & Treatment System -	MTA	MTA	6.0	2.0	6.0	1.0	1.0	3.5
664	Hupacasath First Nation	0	AHASWINIS WASTEWATER MTA	MTA	MTA	1.0	1.0	7.0	10.0	1.0	3.4
688	Kamloops	17042	KAMLOOPS IR#1 - Community Sewage Collection & Treatment System	MTA	MTA	1.0	2.0	2.0	7.0	5.0	2.9
563	Katzie	7608	KATZIE NO. 1 - Community Sewage Collection & Treatment System -	MTA	MTA	10.0	1.0	7.0	10.0	6.0	6.2
563	Katzie	NEW001	KATZIE NO. 2 - Community Sewage Collection & Treatment System	MTA	MTA	10.0	1.0	7.0	10.0	7.0	6.4
680	Kitselas	0	KULSPA 6 - Community Wastewater System	MTA	MTA	1.0	2.0	4.0	1.0	1.0	2.0
681	Kitsumkalum	7588	KITSUMKAYLUM NO. 1 - Community Sewage Collection & Treatment Sys	MTA	MTA	1.0	1.0	6.0	4.0	4.0	3.1
626	Kwakiutl	7769	FORT RUPERT NO. 1 - Community Sewage Collection & Treatment Syst	MTA	MTA	5.0	1.0	8.0	1.0	10.0	5.3
560	Kwikwetlem First Nation	17024	COQUITLAM 1 WASTEWATER SYSTEM	MTA	MTA	5.0	6.0	9.0	10.0	8.0	7.3
607	Lake Babine Nation	NEW002	Woyenne No. 27 - MTA with Burns Lake	MTA	MTA	1.0	2.0	3.0	1.0	1.0	1.7
643	Lake Cowichan First Nation	0	COWICHAN LAKE - Community Wastewater Collection System	MTA	MTA	1.0	2.0	4.0	1.0	1.0	2.0
705	Lytton	7565	KLAHKAMICH NO. 17 - Community Sewage Collection & Treatment Syst	MTA	MTA	4.0	2.0	2.0	4.0	1.0	2.4
705	Lytton	7564	KLICKKUMCHEEN NO. 18 - Community Sewage Collection & Treatment S	MTA	MTA	4.0	3.0	2.0	4.0	1.0	2.6
565	Matsqui	7609	MATSQUI MAIN NO. 2 - Community Sewage Collection & Treatment Sys	MTA	MTA	5.0	2.0	5.0	3.0	1.0	3.2
630	Mowachaht/Muchalht	9785	TSA XANA NO. 18 - Community Sewage Collection & Treatment System	MTA	MTA	6.0	4.0	5.0	5.0	5.0	4.9
550	Musqueam	7626	MUSQUEAM NO. 2 - Community Sewage Collection & Treatment System	MTA	MTA	10.0	1.0	5.0	8.0	4.0	5.1
614	Nakazdli	7583	NAK'AZDLI - Community Sewage Collection & Treatment System - Sys	MTA	MTA	1.0	1.0	6.0	2.0	5.0	3.1
596	Osoyoos	7566	OSOYOOS NO. 1 - Community Sewage Collection & Treatment System -	MTA	MTA	3.0	2.0	2.0	1.0	1.0	1.9
652	Pauquachin	7543	COLE BAY NO. 3 - Community Sewage Collection & Treatment System	MTA	MTA	8.0	2.0	6.0	1.0	1.0	3.9
633	Quatsino	7627	QUATSINO SUBD. NO. 18 - Community Sewage Collection & Treatment	MTA	MTA	5.0	1.0	7.0	10.0	10.0	6.0
715	Red Bluff	7672	QUESNEL NO. 1 - Community Sewage Collection & Treatment System -	MTA	MTA	1.0	3.0	5.0	7.0	6.0	4.1
581	Seabird Island	NEW001	SEABIRD ISLAND - Community Wastewater Collection System	MTA	MTA	1.0	2.0	2.0	5.0	4.0	2.5
551	Sechelt	9791	SECHELT NO. 2 - Community Sewage Collection & Treatment System -	MTA	MTA	1.0	4.0	2.0	1.0	1.0	2.0
570	Shxwhá:y Village	9787	SKWAY NO. 5 - Community Sewage Collection & Treatment System - S	MTA	MTA	1.0	2.0	5.0	10.0	1.0	3.1
571	Skowkale	0	SKOWKALE COMMUNITY WASTEWATER SYSTEM	MTA	MTA	1.0	2.0	7.0	1.0	2.0	2.9
573	Skwah	7654	SKWAH NO. 4 - Community Sewage Collection & Treatment System - S	MTA	MTA	1.0	1.0	5.0	1.0	1.0	2.0
648	Snuneymuxw First Nation	7538	NANAIMO TOWN NO. 1 - Community Sewage Collection & Treatment Sys	MTA	MTA	5.0	3.0	8.0	4.0	1.0	4.3
656	Songhees First Nation	9789	NEW SONGHEES NO. 1A - Community Sewage Collection & Treatment Sy	MTA	MTA	1.0	1.0	9.0	1.0	1.0	3.0
555	Squamish	7604	CAPILANO NO. 5 - Community Sewage Collection & Treatment System	MTA	MTA	6.0	1.0	5.0	4.0	4.0	3.9
555	Squamish	0	KOWTAIN NO. 17 - Community Wastewater System	MTA	MTA	1.0	2.0	8.0	1.0	1.0	3.0
555	Squamish	7602	MISSION NO. 1 - Community Sewage Collection & Treatment System -	MTA	MTA	1.0	1.0	6.0	4.0	5.0	3.3

Band #	Band Name	System #	System Name	Receiver Type	Treatment Class	Legend:					
						Effluent Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
555	Squamish	7603	SEYMOUR CREEK NO. 2 - Community Sewage Collection & Treatment Sy	MTA	MTA	1.0	1.0	5.0	4.0	5.0	3.1
555	Squamish	0	STAWAMUS NO. 24 - Community Wastewater System	MTA	MTA	5.0	3.0	8.0	1.0	1.0	4.0
555	Squamish	7605	WAIWAKUM NO. 14 - Community Sewage Collection & Treatment System	MTA	MTA	5.0	1.0	6.0	1.0	1.0	3.0
555	Squamish	0	YEKWAUPSUM NO. 18 - Community Wastewater System	MTA	MTA	1.0	2.0	7.0	1.0	1.0	2.7
574	Squiala First Nation	NEW001	SQUIAALA NO. 7 - Community Sewer Collection System	MTA	MTA	5.0	4.0	2.0	8.0	1.0	3.5
578	Sumas First Nation	7615	UPPER SUMAS NO. 6 - Community Sewage Collection & Treatment Syst	MTA	MTA	1.0	2.0	6.0	10.0	1.0	3.4
593	T'it'q'et	0	LILLOOET NO 1 - Community Wastewater System	MTA	MTA	1.0	1.0	7.0	3.0	7.0	3.9
653	Tsartlip	9837	SOUTH SAANICH NO. 1 - Community Sewage Collection & Treatment Sy	MTA	MTA	1.0	2.0	7.0	10.0	1.0	3.6
665	Tseshah	7766	TSAHAHEH NO. 1 - Community Sewage Collection & Treatment System	MTA	MTA	1.0	1.0	1.0	7.0	6.0	2.6
655	Tseycum	7545	UNION BAY NO. 4 - Community Sewage Collection & Treatment System	MTA	MTA	1.0	2.0	1.0	10.0	1.0	2.1
575	Tzeachten	7613	TZEACHTEN NO. 13 - Community Sewage Collection & Treatment Syste	MTA	MTA	1.0	2.0	1.0	10.0	1.0	2.1
668	Ucluelet First Nation	7552	ITTATSOO NO. 1 - Community Sewage Collection & Treatment System	MTA	MTA	1.0	2.0	1.0	1.0	1.0	1.2
601	Westbank First Nation	0	TSINSTIKEPTUM NO. 10 - Community Wastewater Collection/Treatment	MTA	MTA	1.0	2.0	5.0	1.0	1.0	2.2
601	Westbank First Nation	0	TSINSTIKEPTUM NO. 9 - Community Wastewater Collection/Treatment	MTA	MTA	1.0	2.0	2.0	1.0	1.0	1.5
601	Westbank First Nation	7567	TSINSTIKEPTUM NO. 9 (Elk Road) - Community Sewage Collection & T	MTA	MTA	7.0	3.0	2.0	1.0	1.0	2.9
659	Ahousah	7547	MARKTOSIS NO. 15 (Maaqtusiis Village) - Community Sewage Collect	Open marine	Level I	4.0	8.0	4.0	10.0	6.0	6.0
640	Beecher Bay	7535	BEECHER BAY NO. 1 - Community Sewage Collection & Treatment Syste	Open marine	Level II	8.0	5.0	10.0	10.0	7.0	7.7
623	Cape Mudge	9780	Cape Mudge No. 10 - Community Sewage Collection & Treatment Syst	Open marine	Small System	4.0	8.0	8.0	4.0	1.0	5.4
635	Da'naxda'xw First Nation	17022	DEAD POINT 5	Open marine	Small System	8.0	5.0	6.0	10.0	1.0	5.5
672	Gitxaala Nation	7591	DOLPHIN ISLAND NO. 1 - Community Sewage Collection & Treatment S	Open marine	None	8.0	8.0	5.0	10.0	5.0	6.8
627	Gwawaenuk Tribe	7691	HOPETOWN NO. 10A - Community Sewage Collection & Treatment Syst	Open marine	Small System	7.0	6.0	10.0	10.0	9.0	8.2
538	Heiltsuk	7595	BELLA BELLA NO. 1 - Community Sewage Collection & Treatment Syst	Open marine	Level I	7.0	2.0	6.0	9.0	1.0	4.5
661	Hesquiaht	7550	REFUGE COVE NO. 6 - Community Sewage Collection & Treatment Syst	Open marine	Small System	4.0	2.0	3.0	4.0	1.0	2.6
638	Ka:yu:kth/Che:k:tlas7eth First Nat	7561	HOUPSITAS NO. 6 - Community Sewage Collection & Treatment System	Open marine	Small System	4.0	8.0	7.0	10.0	9.0	7.3
676	Kitamaat	7587	KITAMAAT NO. 2 - Community Sewage Collection & Treatment System	Open marine	Level I	8.0	2.0	4.0	8.0	1.0	4.1
540	Kitasoo	7597	KITASOO NO. 1 (N. Shore) - Community Sewage Collection & Treatme	Open marine	Small System	7.0	8.0	7.0	10.0	1.0	6.3
540	Kitasoo	7596	KITASOO NO. 1 (S. Shore) - Community Sewage Collection & Treatme	Open marine	Small System	6.0	8.0	7.0	10.0	1.0	6.1
625	Kwicksutaineuk-ah-kwaw-ah-mish	7558	GWAYASDUMS NO. 1 - Community Sewage Collection & Treatment Syste	Open marine	Small System	8.0	8.0	8.0	10.0	6.0	7.8
674	Lax-kwalaams	7593	LAX KW'ALAAMS NO. 1 - Community Sewage Collection & Treatment Sy	Open marine	Level I	7.0	8.0	6.0	10.0	5.0	6.9
673	Metlakatla	7592	S1/2 TSIMPSEAN NO. 2 - Community Sewage Collection & Treatment S	Open marine	None	8.0	8.0	5.0	10.0	5.0	6.8
631	Namgis First Nation	7560	ALERT BAY NO. 1 & NO. 1A - Community Sewage Collection & Treatme	Open marine	Level II	7.0	1.0	3.0	7.0	3.0	3.7
649	Nanoose First Nation	NEW001	NANOOSE IR - Community Wastewater System	Open marine	Level II	6.0	2.0	5.0	4.0	1.0	3.5
669	Old Massett Village Council	7589	MASSET NO. 1 - Community Sewage Collection & Treatment System -	Open marine	Level II	8.0	1.0	3.0	6.0	1.0	3.4
670	Skidegate	7590	SKIDEGATE NO. 1 - Community Sewage Collection & Treatment System	Open marine	Level I	6.0	2.0	7.0	10.0	9.0	6.2
554	Sliammon	7601	SLIAMMON NO. 1 - Community Sewage Collection & Treatment System	Open marine	Level I	6.0	4.0	8.0	10.0	5.0	6.2
660	Tla-o-qui-aht First Nations	7548	OPITSAT NO. 1 - Community Sewage Collection & Treatment System -	Open marine	Small System	3.0	3.0	5.0	10.0	8.0	5.2
654	Tsawout First Nation	7544	EAST SAANICH NO. 2 - Community Sewage Collection & Treatment Syst	Open marine	Level II	4.0	8.0	2.0	1.0	1.0	3.6
713	Canim Lake	9755	Canim Lake No. 1 (E. Subd) - Community Sewage Collection & Treat	Other	Small System	10.0	3.0	8.0	1.0	4.0	5.6
675	Hartley Bay	7594	KULKAYU (HARTLEY BAY) NO. 4 - Community Sewage Collection & Trea	Other	Small System	10.0	8.0	8.0	10.0	8.0	8.6
535	Gitsegukla	7533	GITSEGUKLA NO. 1 - Community Sewage Collection & Treatment System	River	Level I	10.0	4.0	3.0	4.0	6.0	5.3
534	Hagwilget Village	7534	HAGWILGET NO. 1 - Community Sewage Collection & Treatment System	River	Level I	10.0	2.0	5.0	6.0	1.0	4.5
532	Kispiox	7532	KISPIOX NO. 1 - Community Sewage Collection & Treatment System -	River	Level I	10.0	4.0	6.0	9.0	1.0	5.6
530	Moricetown	7530	MORICETOWN NO. 1 - Community Sewage Collection & Treatment System	River	Level I	10.0	2.0	6.0	9.0	6.0	6.1
557	Mount Currie	12219	MOUNT CURRIE NO. 1, 10 - Community Sewage Collection & Treatment	River	Small System	9.0	2.0	4.0	4.0	5.0	4.7
679	Nisgaa Village of Gitwinksihlkw	9666	GITWINKSIHLKW NO. 7 - Community Sewage Collection & Treatment Sy	River	Small System	10.0	4.0	1.0	1.0	1.0	3.5
677	Nisgaa Village of New Aiyansh	9668	NEW AIYANSH NO. 1 - Community Sewage Collection & Treatment Syst	River	Level I	10.0	3.0	7.0	1.0	5.0	5.6
717	Stone	7620	STONE NO. 1 - Community Sewage Collection & Treatment System - S	River	Small System	10.0	2.0	5.0	10.0	10.0	6.7
710	Alexis Creek	7617	REDSTONE FLAT NO. 1 - Community Sewage Collection & Treatment Sys	Sub-surface / Ground	Small System	1.0	3.0	5.0	10.0	5.0	4.2
536	Gitwangak	NEW001	GITWANGAK 1 - COMMUNITY WASTEWATER TREATMENT & COLLECTION S	Sub-surface / Ground	Level I	5.0	1.0	1.0	1.0	6.0	2.8
546	Halfway River First Nation	7555	HALFWAY RIVER NO. 168 - Community Sewage Collection & Treatment	Sub-surface / Ground	Small System	2.0	4.0	7.0	10.0	4.0	4.9
612	Nadleh Whuten	7573	SEASPUNKUT NO. 4 (E. End - Lejac) - Community Sewage Collection	Sub-surface / Ground	Small System	5.0	1.0	6.0	1.0	1.0	3.0
678	Nisgaa Village of Laxgaltsap	9664	LACHKALTSAP NO. 9 - Community Sewage Collection & Treatment Syst	Sub-surface / Ground	Small System	1.0	3.0	3.0	5.0	1.0	2.4

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Band #	Band Name	System #	System Name	Receiver Type	Treatment Class	Legend:					
						Effluent Risk	Design Risk	Operations Risk	Report Risk	Operator Risk	Final Risk Score
541	Oweekeno/Wuikinuxv Nation	7598	KATIT NO. 1 - Community Sewage Collection & Treatment System - S	Sub-surface / Ground	None	1.0	7.0	6.0	7.0	1.0	4.3
650	Penelakut	7539	KUPER ISLAND NO. 7 (E. Village) - Community Sewage Collection &	Sub-surface / Ground	Small System	5.0	8.0	5.0	6.0	6.0	8.0
650	Penelakut	7540	KUPER ISLAND NO. 7 (W. Village) - Community Sewage Collection &	Sub-surface / Ground	Level II	5.0	8.0	4.0	2.0	6.0	5.4
608	Takla Lake First Nation	7577	NORTH TAKLA LAKE NO. 7 - Community Sewage Collection & Treatment	Sub-surface / Ground	Small System	4.0	2.0	2.0	1.0	1.0	2.1
617	Tl'azt'en Nation	7848	BINCHE NO. 2 - Community Sewage Collection & Treatment System -	Sub-surface / Ground	Small System	5.0	2.0	3.0	1.0	7.0	3.7
617	Tl'azt'en Nation	7853	DZITLINE LEE NO. 9 (Middle River aka Gelangle 1) - Community Sew	Sub-surface / Ground	Small System	1.0	2.0	3.0	1.0	5.0	2.5
718	Toosey	7621	TOOSEY NO. 1 - Community Sewage Collection & Treatment System -	Sub-surface / Ground	Small System	1.0	4.0	5.0	7.0	6.0	4.3
665	Tseshah	7551	TSAHAHEH NO. 1 - ARCHIVED WW System #7551 (CS Tank)	Sub-surface / Ground	None	3.0	2.0	5.0	1.0	5.0	3.4
725	Wetsuweten First Nation	7569	DUNCAN LAKE NO. 2 - Community Sewage Collection & Treatment Syst	Sub-surface / Ground	None	5.0	5.0	9.0	10.0	1.0	5.7
719	Williams Lake	7622	WILLIAMS LAKE NO. 1 - Community Sewage Collection & Treatment Sy	Sub-surface / Ground	Small System	3.0	8.0	8.0	1.0	1.0	4.9
728	Yekooche	7586	YE KOO CHE NO. 3 - Community Sewage Collection & Treatment Syste	Sub-surface / Ground	Small System	3.0	1.0	4.0	1.0	7.0	3.3
710	Alexis Creek	0	MICHEL GARDENS NO. 36 - Community Wastewater System	Tile field	None	1.0	3.0	10.0	10.0	5.0	5.4
584	Cheam	0	CHEAM NO. 1 - East Hillside Subdivision Wastewater System	Tile field	None	3.0	1.0	7.0	1.0	7.0	4.1
641	Chemainus First Nation	NEW001	CHEMAINUS No.13 - Community Wastewater System	Tile field	Level I	1.0	3.0	4.0	7.0	5.0	3.6
693	Coldwater	7563	COLDWATER NO. 1 - Community Sewage Collection & Treatment System	Tile field	Small System	6.0	1.0	7.0	10.0	10.0	6.2
711	Esketemc	7913	ALKALI LAKE NO 1 - Community Sewage Collection & Treatment Syste	Tile field	Small System	3.0	1.0	4.0	1.0	1.0	2.1
711	Esketemc	NEW001	ALKALI LAKE NO.1 - Eagleview Ridge Community Wastewater System	Tile field	Small System	1.0	2.0	1.0	4.0	1.0	1.5
711	Esketemc	NEW002	ALKALI LAKE NO.1 - Mobile Home Park Community Wastewater System	Tile field	Small System	1.0	1.0	1.0	4.0	1.0	1.3
537	Gitanyow	7753	GITANYOW NO 1 - New Subdivision Sewage System	Tile field	Small System	3.0	4.0	8.0	1.0	1.0	3.9
553	Klahoose First Nation	7600	TORK NO. 7 - Community Sewage Collection & Treatment System - Sy	Tile field	Small System	3.0	8.0	7.0	10.0	7.0	8.0
721	Kluskus	7926	KLUSKUS NO. 1 - ARCHIVED WW System #7926	Tile field	Small System	5.0	3.0	9.0	1.0	7.0	5.5
607	Lake Babine Nation	7575	BABINE NO. 6 (Fort Babine) - Community Sewage Collection & Treat	Tile field	Small System	5.0	4.0	7.0	1.0	1.0	4.0
579	Leq a: mel First Nation	NEW001	HOLACHTEN NO. 8 - Community Wastewater System	Tile field	Small System	2.0	4.0	5.0	10.0	5.0	4.6
579	Leq a: mel First Nation	NEW001	SKWEAHM NO. 10 - Community Wastewater System	Tile field	Small System	3.0	2.0	5.0	10.0	5.0	4.3
689	Little Shuswap Lake	NEW001	QUAAOUT BAND MEMBER HOUSING	Tile field	Level I	5.0	1.0	5.0	5.0	1.0	3.2
695	Lower Nicola	0	SHULUS SCHOOL AND SUBDIVISION WASTEWATER SYSTEM	Tile field	Small System	1.0	1.0	4.0	5.0	1.0	2.1
647	Malahat First Nation	7537	MALAHAT NO. 11 - Community Sewage Collection & Treatment System	Tile field	Small System	5.0	4.0	5.0	6.0	6.0	5.0
557	Mount Currie	7607	MOUNT CURRIE NO. 6 - Community Sewage Collection & Treatment Sys	Tile field	Small System	1.0	2.0	7.0	10.0	4.0	4.2
612	Nadleh Whuten	7571	NAUTLEY NO. 1 (N. Fort Fraser) - Community Sewage Collection & T	Tile field	Small System	5.0	7.0	4.0	1.0	1.0	4.0
612	Nadleh Whuten	7570	NAUTLEY NO. 1 (S. Fort Fraser) - Community Sewage Collection & T	Tile field	Small System	5.0	1.0	3.0	1.0	1.0	2.3
612	Nadleh Whuten	7572	SEASPUNKUT NO. 4 (W. End) - Community Sewage Collection & Treatm	Tile field	Small System	5.0	10.0	9.0	10.0	1.0	6.9
539	Nuxalk Nation	7866	BELLA COOLA NO. 1 - Community Sewage Collection & Treatment Syst	Tile field	Small System	3.0	5.0	9.0	10.0	1.0	5.3
615	Saikuz First Nation	7582	LAKETOWN NO. 3 - Community Sewage Collection & Treatment System	Tile field	Small System	1.0	1.0	6.0	1.0	1.0	2.2
568	Scowlitz	7610	SCOWLITZ NO. 1 - Community Sewage Collection & Treatment System	Tile field	Small System	3.0	2.0	8.0	10.0	1.0	4.3
568	Scowlitz	7611	SQUAWKUM CREEK NO. 3 - Community Sewage Collection & Treatment S	Tile field	Level I	5.0	8.0	5.0	10.0	2.0	5.6
562	Skatin Nations	0	SKOOKUMCHUCK NO. 4 - Community Wastewater Disposal System	Tile field	Small System	3.0	4.0	9.0	10.0	8.0	6.4
562	Skatin Nations	0	SKOOKUMCHUCK NO. 4A - School Wastewater System	Tile field	Small System	2.0	4.0	9.0	10.0	8.0	6.2
648	Snuneymuxw First Nation	0	NANAIMO RIVER 4 - 12-plex Community Wastewater System	Tile field	Small System	1.0	3.0	7.0	4.0	1.0	3.3
555	Squamish	0	STAWAMUS NO.24 - Community Septic System	Tile field	Small System	4.0	4.0	8.0	1.0	1.0	4.1
660	Tla-o-qui-aht First Nations	7549	ESOWISTA NO. 3 - Community Sewage Collection & Treatment System	Tile field	Small System	1.0	8.0	8.0	10.0	1.0	5.4
712	Tl'etinqox-t'in Government Office	7656	ANAHIM'S FLAT NO. 1 (Foot Ranch) - Community Sewage Collection &	Tile field	Small System	3.0	2.0	8.0	1.0	5.0	4.2
712	Tl'etinqox-t'in Government Office	7664	ANAHIM'S FLAT NO. 1 (Main Village) - Community Sewage Collection	Tile field	Level I	3.0	2.0	7.0	1.0	6.0	4.1
697	Upper Nicola	0	NICOLA LAKE NO.1 - Community Sewage Disposal System	Tile field	None	2.0	4.0	6.0	10.0	6.0	5.1
714	Xeni Gwet'in First Nations Govern	7619	LOHBIIEE NO. 3 - Community Sewage Collection & Treatment System -	Tile field	Small System	3.0	3.0	8.0	1.0	8.0	5.0
548	Doig River	7557	Doig River No. 206 - Community Sewage Collection & Treatment Sys	Wetland	Small System	4.0	2.0	1.0	1.0	2.0	2.0
543	Fort Nelson First Nation	7553	FORT NELSON NO. 2 - Community Sewage Collection & Treatment Syst	Wetland	Level I	2.0	6.0	4.0	10.0	5.0	4.9
537	Gitanyow	0	GITANYOW NO.1 - Community Wastewater System	Wetland	Level II	6.0	1.0	1.0	1.0	6.0	3.0
613	Stellat'en First Nation	7579	STELLAQUO (STELLA) NO. 1 (Northside) - Community Sewage Collecti	Wetland	Small System	2.0	2.0	2.0	1.0	3.0	2.1
722	Ulkatcho	7623	ULKATCHO NO. 14A - Community Sewage Collection & Treatment Syste	Wetland	Small System	6.0	1.0	7.0	5.0	2.0	4.1
545	West Moberly First Nations	7554	WEST MOBERLY LAKE NO. 168A - Community Sewage Collection & Treat	Wetland	Small System	6.0	4.0	5.0	10.0	1.0	4.6
725	Wetsuweten First Nation	7568	PALLING NO. 1 - Community Sewage Collection & Treatment System -	Wetland	Small System	6.0	2.0	7.0	7.0	1.0	4.3



Appendix F

Protocol and Servicing Costs

Table F: Protocol and Servicing Costs (Water & Wastewater Combined)

Band #	Band Name	Community Name	Current Population	Current Homes	Forecast Population	Forecast Homes	Zone Markup	Upgrade To Protocol	Per Lot Upgrades to Protocol (Current Homes)	Recommended Servicing	Per Lot Recommended Servicing (Forecast Homes)	Recommended O&M	Per Lot O&M (Forecast Homes)
684	Adams Lake	Sahhaltkum No. 4	373	97	492	136	1.159	\$ 247,000	\$ 2,500	\$ 1,700,000	\$ 12,500	\$ 450,000	\$ 3,300
684	Adams Lake	Switsemalph 6	100	36	128	50	1.159	\$ -	\$ -	\$ 1,000,000	\$ 20,000	\$ 135,000	\$ 2,700
659	Ahousaht	Marktosis 15	900	165	1164	231	1.378	\$ 9,345,000	\$ 56,600	\$ 10,930,000	\$ 47,300	\$ 550,000	\$ 2,400
558	Aitchelitz	AITCHELITCH 9	37	5	54	9	1.026	\$ -	\$ -	\$ 1,350,000	\$ 150,000	\$ 135,000	\$ 15,000
604	Akisknuk First Nation	Columbia Lake 3	100	54	115	69	1.159	\$ 2,371,500	\$ 43,900	\$ 2,190,000	\$ 31,700	\$ 270,000	\$ 3,900
709	Alexandria	?Esdilagh (Alexandria)	53	15	64	18	1.269	\$ 839,000	\$ 55,900	\$ 855,000	\$ 47,500	\$ 165,000	\$ 9,200
710	Alexis Creek	Alexis Creek	214	75	258	97	1.269	\$ 1,524,000	\$ 20,300	\$ 2,080,000	\$ 21,400	\$ 430,000	\$ 4,400
685	Ashcroft	Ashcroft 4	95	39	120	51	1.159	\$ 2,390,000	\$ 61,300	\$ 3,340,000	\$ 65,500	\$ 300,000	\$ 5,900
640	Beecher Bay	Beecher Bay 1	120	39	169	55	1.026	\$ 1,211,000	\$ 31,100	\$ 1,960,000	\$ 35,600	\$ 280,000	\$ 5,100
547	Blueberry River First Nations	Blueberry River	192	63	250	82	1.352	\$ 5,955,000	\$ 94,500	\$ 6,800,000	\$ 82,900	\$ 370,000	\$ 4,500
686	Bonaparte	Bonaparte	238	83	290	109	1.159	\$ 1,395,000	\$ 16,800	\$ 2,480,000	\$ 22,800	\$ 230,000	\$ 2,100
686	Bonaparte	LOWER HAT CREEK 2	51	0	51	0	1.159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
686	Bonaparte	UPPER HAT CREEK 1	37	0	37	0	1.159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
700	Boothroyd	Kahmoose 4	112	41	131	50	1.159	\$ 1,019,000	\$ 24,900	\$ 1,120,000	\$ 22,400	\$ 175,000	\$ 3,500
701	Boston Bar First Nation	Kopchitchin (North Bend)	47	20	63	28	1.159	\$ 1,319,000	\$ 66,000	\$ 5,250,000	\$ 187,500	\$ 380,000	\$ 13,600
701	Boston Bar First Nation	Tuckkiowhum (Hicks)	45	18	61	26	1.159	\$ 1,089,000	\$ 60,500	\$ 1,235,000	\$ 47,500	\$ 200,000	\$ 7,700
590	Bridge River	Bridge River 1	224	82	296	118	1.159	\$ 4,065,000	\$ 49,600	\$ 4,950,000	\$ 41,900	\$ 360,000	\$ 3,100
619	Burns Lake	Burns Lake 18	53	18	79	31	1.269	\$ 745,000	\$ 41,400	\$ 1,920,000	\$ 61,900	\$ 220,000	\$ 7,100
549	Burrard	Burrard Inlet 3	303	115	389	158	1.026	\$ 40,000	\$ 300	\$ 2,110,000	\$ 13,400	\$ 390,000	\$ 2,500
622	Campbell River	Campbell River 11	350	91	486	136	1.064	\$ 1,011,000	\$ 11,100	\$ 4,660,000	\$ 34,300	\$ 570,000	\$ 4,200
713	Canim Lake	Canim Lake 1	408	79	508	104	1.269	\$ 2,516,000	\$ 31,800	\$ 2,820,000	\$ 27,100	\$ 450,000	\$ 4,300
723	Canoe Creek	Canoe Creek	217	78	285	112	1.269	\$ 1,221,500	\$ 15,700	\$ 2,250,000	\$ 20,100	\$ 480,000	\$ 4,300
623	Cape Mudge	Cape Mudge No. 10	250	73	313	94	1.064	\$ 4,269,000	\$ 58,500	\$ 5,200,000	\$ 55,300	\$ 310,000	\$ 3,300
623	Cape Mudge	Quinsam No. 12	300	92	376	117	1.064	\$ 313,000	\$ 3,400	\$ 2,660,000	\$ 22,700	\$ 260,000	\$ 2,200
591	Cayoos Creek	Cayoos Creek 1	63	30	76	36	1.159	\$ 602,000	\$ 20,100	\$ 1,050,000	\$ 29,200	\$ 220,000	\$ 6,100
591	Cayoos Creek	Pashilqua 2	33	16	47	23	1.159	\$ 1,637,000	\$ 102,300	\$ 2,120,000	\$ 92,200	\$ 330,000	\$ 14,300
583	Chawathil	Chawathil 4	158	46	220	66	1.026	\$ 1,075,000	\$ 23,400	\$ 1,440,000	\$ 21,800	\$ 280,000	\$ 4,200
583	Chawathil	Schkam 2	127	37	178	54	1.026	\$ 890,000	\$ 24,100	\$ 1,300,000	\$ 24,100	\$ 245,000	\$ 4,500
584	Cheam	Cheam 1	328	81	454	112	1.026	\$ 1,055,000	\$ 13,000	\$ 2,140,000	\$ 19,100	\$ 280,000	\$ 2,500
559	Chehalis	Chehalis 5	550	155	720	211	1.026	\$ 2,395,000	\$ 15,500	\$ 2,800,000	\$ 13,300	\$ 440,000	\$ 2,100
641	Chemainus First Nation	Chemainus	637	197	711	221	1.026	\$ 1,747,500	\$ 8,900	\$ 6,260,000	\$ 28,300	\$ 790,000	\$ 3,600
620	Cheslatta Carrier Nation	Cheslatta 1	152	47	219	69	1.269	\$ 1,035,000	\$ 22,000	\$ 8,800,000	\$ 127,500	\$ 590,000	\$ 8,600
693	Coldwater	Coldwater	297	113	345	137	1.064	\$ 3,817,500	\$ 33,800	\$ 4,105,000	\$ 30,000	\$ 645,000	\$ 4,700
624	Comox	Comox 1	277	79	369	109	1.026	\$ 50,000	\$ 600	\$ 3,000,000	\$ 27,500	\$ 400,000	\$ 3,700
694	Cook's Ferry	Kumcheen No. 1	21	19	25	23	1.159	\$ 814,000	\$ 42,800	\$ 845,000	\$ 36,700	\$ 215,000	\$ 9,300
642	Cowichan	Cowichan	2251	541	2581	623	1.026	\$ 3,975,000	\$ 7,300	\$ 8,170,000	\$ 13,100	\$ 1,910,000	\$ 3,100
635	Da'naxda'xw First Nation	New Vancouver	17	7	36	16	1.444	\$ 158,800	\$ 22,700	\$ 520,000	\$ 32,500	\$ 260,000	\$ 16,300
662	Ditidaht	MALACHAN 11	250	89	324	126	1.121	\$ 1,687,000	\$ 19,000	\$ 2,490,000	\$ 19,800	\$ 230,000	\$ 1,800
548	Doig River	Doig River	188	49	246	68	1.352	\$ 6,005,000	\$ 122,600	\$ 8,720,000	\$ 128,200	\$ 350,000	\$ 5,100
561	Douglas	Douglas	56	14	79	19	1.378	\$ 1,701,000	\$ 121,500	\$ 2,145,000	\$ 112,900	\$ 370,000	\$ 19,500
634	Ehattesaht	Ehattesaht	75	18	101	24	1.378	\$ 615,000	\$ 34,200	\$ 1,620,000	\$ 67,500	\$ 150,000	\$ 6,300
711	Esketemc	Alkali Lake	420	121	520	154	1.269	\$ 448,000	\$ 3,700	\$ 4,800,000	\$ 31,200	\$ 450,000	\$ 2,900
644	Esquimalt	Esquimalt	181	44	266	65	1.026	\$ 170,000	\$ 3,900	\$ 210,000	\$ 3,200	\$ 220,000	\$ 3,400
543	Fort Nelson First Nation	Fort Nelson	500	148	702	215	1.248	\$ 3,550,000	\$ 24,000	\$ 14,260,000	\$ 66,300	\$ 485,000	\$ 2,300
531	Gitanmaax	Gitanmaax	805	255	1099	353	1.352	\$ 1,151,500	\$ 4,500	\$ 970,000	\$ 2,700	\$ 600,000	\$ 1,700
537	Gitanyow	Gitanyow	435	125	501	147	1.352	\$ 613,000	\$ 4,900	\$ 910,000	\$ 6,200	\$ 250,000	\$ 1,700
535	Gitsegukla	Gitsegukla	475	140	510	151	1.352	\$ 1,427,000	\$ 10,200	\$ 1,850,000	\$ 12,300	\$ 500,000	\$ 3,300
536	Gitwangak	Gitwangak	530	150	610	176	1.352	\$ 577,500	\$ 3,900	\$ 680,000	\$ 3,900	\$ 390,000	\$ 2,200
672	Gitxaala Nation	Gitxaala	420	149	608	243	1.590	\$ 6,369,000	\$ 42,700	\$ 14,340,000	\$ 59,000	\$ 510,000	\$ 2,100
533	Glen Vowell	Glen Vowell	280	75	328	91	1.352	\$ 67,500	\$ 900	\$ 1,210,000	\$ 13,300	\$ 360,000	\$ 4,000
724	GwaSala-Nakwaxdaxw	Tsulquate	600	126	806	177	1.064	\$ 261,000	\$ 2,100	\$ 2,080,000	\$ 11,800	\$ 240,000	\$ 1,400
627	Gwawaenuk Tribe	Hopetown 10A	23	6	33	9	1.548	\$ 1,175,000	\$ 195,800	\$ 1,170,000	\$ 130,000	\$ 92,000	\$ 10,200

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Band #	Band Name	Community Name	Current Population	Current Homes	Forecast Population	Forecast Homes	Zone Markup	Upgrade To Protocol	Per Lot Upgrades to Protocol (Current Homes)	Recommended Servicing	Per Lot Recommended Servicing (Forecast Homes)	Recommended O&M	Per Lot O&M (Forecast Homes)
534	Hagwilget Village	Hagwilget	230	92	321	137	1.352	\$ 274,900	\$ 3,000	\$ 750,000	\$ 5,500	\$ 205,000	\$ 1,500
645	Halalt	Halalt 2	91	40	95	42	1.026	\$ 567,000	\$ 14,200	\$ 552,000	\$ 13,100	\$ 235,000	\$ 5,600
546	Halfway River First Nation	Halfway River 168	139	55	160	65	1.352	\$ 1,594,000	\$ 29,000	\$ 1,630,000	\$ 25,100	\$ 360,000	\$ 5,500
675	Hartley Bay	Hartley Bay	196	71	245	95	1.590	\$ 3,508,000	\$ 49,400	\$ 9,360,000	\$ 98,500	\$ 340,000	\$ 3,600
538	Heiltsuk	Bella Bella	1300	402	1490	465	2.232	\$ 326,000	\$ 800	\$ 7,020,000	\$ 15,100	\$ 1,070,000	\$ 2,300
661	Hesquiaht	Refuge Cove 6	85	46	105	66	1.472	\$ 4,190,000	\$ 91,100	\$ 4,530,000	\$ 68,600	\$ 310,000	\$ 4,700
552	Homalco	Homalco	210	54	308	86	1.064	\$ 195,000	\$ 3,600	\$ 3,220,000	\$ 37,400	\$ 305,000	\$ 3,500
664	Hupacasath First Nation	Hupacasath	160	68	230	103	1.026	\$ 650,000	\$ 9,600	\$ 4,500,000	\$ 43,700	\$ 350,000	\$ 3,400
663	Huu-ay-aht First Nations	Anacla No. 12	128	49	176	73	1.121	\$ 761,000	\$ 15,500	\$ 870,000	\$ 11,900	\$ 290,000	\$ 4,000
683	Iskut	Iskut	496	140	620	181	1.664	\$ 659,500	\$ 4,700	\$ 4,170,000	\$ 23,000	\$ 420,000	\$ 2,300
638	Ka:yu:kth/Che:k:tlas7eth First Nations	Ka:yu:kth/Che:k:tlas7eth	145	40	195	56	1.425	\$ 3,793,800	\$ 94,800	\$ 4,040,000	\$ 72,100	\$ 420,000	\$ 7,500
688	Kamloops	Kamloops 1	785	270	1028	391	1.064	\$ 120,000	\$ 400	\$ 5,880,000	\$ 15,000	\$ 1,960,000	\$ 5,000
704	Kanaka Bar	Kanaka Bar	66	19	93	28	1.159	\$ 982,000	\$ 51,700	\$ 5,780,000	\$ 206,400	\$ 410,000	\$ 14,600
563	Katzie	Barnston Island 3	57	17	76	23	1.026	\$ 66,300	\$ 3,900	\$ 1,900,000	\$ 82,600	\$ 95,000	\$ 4,100
563	Katzie	Katzie 1	292	68	390	92	1.026	\$ 804,400	\$ 11,800	\$ 960,000	\$ 10,400	\$ 100,000	\$ 1,100
563	Katzie	Katzie 2	38	15	50	21	1.026	\$ 175,700	\$ 11,700	\$ 155,000	\$ 7,400	\$ 110,000	\$ 5,200
532	Kispiox	Kispiox	780	220	1028	302	1.352	\$ 708,000	\$ 3,200	\$ 3,440,000	\$ 11,400	\$ 390,000	\$ 1,300
676	Kitamaat	Kitamaat 2	746	186	903	225	1.187	\$ 2,390,000	\$ 12,800	\$ 4,040,000	\$ 18,000	\$ 530,000	\$ 2,400
540	Kitasoo	Klemtu	305	100	327	107	2.232	\$ 7,705,000	\$ 77,100	\$ 8,640,000	\$ 80,700	\$ 790,000	\$ 7,400
680	Kitselas	Kitselas	312	104	381	127	1.187	\$ 2,355,000	\$ 22,600	\$ 2,540,000	\$ 20,000	\$ 410,000	\$ 3,200
681	Kitsumkalum	Kitsumkaylum 1	280	85	364	113	1.187	\$ 1,485,000	\$ 17,500	\$ 1,630,000	\$ 14,400	\$ 440,000	\$ 3,900
553	Klahoose First Nation	Tork 7	112	35	148	47	1.159	\$ 3,998,500	\$ 114,200	\$ 5,220,000	\$ 111,100	\$ 400,000	\$ 8,500
721	Kluskus	Kluskus 1	39	14	47	18	1.560	\$ 560,000	\$ 40,000	\$ 630,000	\$ 35,000	\$ 185,000	\$ 10,300
610	Kwadacha First Nation	Fort Ware 1	265	87	341	112	2.444	\$ 1,380,000	\$ 15,900	\$ 8,030,000	\$ 71,700	\$ 460,000	\$ 4,100
626	Kwakiutl	Kwakiutl	385	125	462	150	1.064	\$ 33,800	\$ 300	\$ 520,000	\$ 3,500	\$ 235,000	\$ 1,600
564	Kwantlen First Nation	Mcmillan Island	85	25	119	36	1.026	\$ 68,300	\$ 2,700	\$ 410,000	\$ 11,400	\$ 100,000	\$ 2,800
580	Kwaw-kwaw-Apilt	Kwaw-kwaw-Apilt	29	7	37	9	1.026	\$ 15,000	\$ 2,100	\$ 1,280,000	\$ 142,200	\$ 50,000	\$ 5,600
625	Kwicksutaineuk-ah-kwaw-ah-mish	Gwayasdums 1	45	17	71	30	1.425	\$ 720,500	\$ 42,400	\$ 2,500,000	\$ 83,300	\$ 620,000	\$ 20,700
560	Kwikwetlem First Nation	Kwikwetlem 1	39	17	47	21	1.026	\$ 277,500	\$ 16,300	\$ 410,000	\$ 19,500	\$ 135,000	\$ 6,400
607	Lake Babine Nation	Lake Babine Nation - Babine 6, Babine 25 and Woyenne 27	1150	282	1431	352	1.269	\$ 1,425,000	\$ 5,100	\$ 5,250,000	\$ 14,900	\$ 770,000	\$ 2,200
643	Lake Cowichan First Nation	Cowichan Lake	29	7	40	9	1.026	\$ 30,000	\$ 4,300	\$ 870,000	\$ 96,700	\$ 125,000	\$ 13,900
674	Lax-kwalaams	Lax Kw'alaams	850	250	1166	355	1.293	\$ 1,096,500	\$ 4,400	\$ 7,390,000	\$ 20,800	\$ 530,000	\$ 1,500
579	Leq a: mel First Nation	Holachten 8	168	46	222	64	1.026	\$ 1,461,000	\$ 31,800	\$ 3,160,000	\$ 49,400	\$ 340,000	\$ 5,300
579	Leq a: mel First Nation	Lakahahmen 11	44	12	55	15	1.026	\$ 80,000	\$ 6,700	\$ 2,805,000	\$ 187,000	\$ 157,000	\$ 10,500
579	Leq a: mel First Nation	Skweahm 10	73	20	102	29	1.026	\$ 165,000	\$ 8,300	\$ 1,460,000	\$ 50,300	\$ 90,000	\$ 3,100
611	Lheidli Tenneh	Lheidli T'enneh	94	36	138	58	1.165	\$ 1,809,000	\$ 50,300	\$ 2,340,000	\$ 40,300	\$ 355,000	\$ 6,100
689	Little Shuswap Lake	North Bay 5	45	18	58	24	1.159	\$ 2,285,000	\$ 126,900	\$ 3,295,000	\$ 137,300	\$ 89,000	\$ 3,700
689	Little Shuswap Lake	Quaaout 1	186	73	266	113	1.159	\$ 4,155,000	\$ 56,900	\$ 5,300,000	\$ 46,900	\$ 435,000	\$ 3,800
606	Lower Kootenay	Creston 1	175	54	237	74	1.121	\$ 1,353,500	\$ 25,100	\$ 2,120,000	\$ 28,600	\$ 440,000	\$ 5,900
695	Lower Nicola	Joeyaska 2	30	15	40	20	1.064	\$ 470,000	\$ 31,300	\$ 750,000	\$ 37,500	\$ 80,000	\$ 4,000
695	Lower Nicola	Nicola Mameet 1	480	210	683	311	1.064	\$ 170,000	\$ 800	\$ 3,790,000	\$ 12,200	\$ 800,000	\$ 2,600
695	Lower Nicola	Zoht 4	28	14	37	18	1.064	\$ 2,595,000	\$ 185,400	\$ 2,390,000	\$ 132,800	\$ 80,000	\$ 4,400
598	Lower Similkameen	Ashnola 10	63	26	78	33	1.026	\$ 805,000	\$ 31,000	\$ 725,000	\$ 22,000	\$ 330,000	\$ 10,000
598	Lower Similkameen	Blind Creek 6	24	10	29	12	1.026	\$ 555,000	\$ 55,500	\$ 525,000	\$ 43,800	\$ 240,000	\$ 20,000
598	Lower Similkameen	Chopaka 7 & 8	73	30	90	38	1.026	\$ 560,000	\$ 18,700	\$ 575,000	\$ 15,100	\$ 330,000	\$ 8,700
705	Lytton	Lytton	730	247	859	311	1.159	\$ 8,330,500	\$ 33,700	\$ 12,630,000	\$ 40,600	\$ 1,930,000	\$ 6,200
647	Malahat First Nation	Malahat 11	124	24	173	36	1.026	\$ 606,500	\$ 25,300	\$ 3,050,000	\$ 84,700	\$ 255,000	\$ 7,100
565	Matsqui	Matsqui Village	112	33	149	45	1.026	\$ 567,500	\$ 17,200	\$ 1,095,000	\$ 24,300	\$ 130,000	\$ 2,900
618	McLeod Lake	McLeod Lake	106	55	121	70	1.269	\$ 1,175,000	\$ 21,400	\$ 1,750,000	\$ 25,000	\$ 235,000	\$ 3,400
673	Metlakatla	Metlakatla	90	34	120	49	1.293	\$ 3,298,500	\$ 97,000	\$ 4,240,000	\$ 86,500	\$ 320,000	\$ 6,500
530	Moricetown	Moricetown	699	195	806	230	1.248	\$ 769,000	\$ 3,900	\$ 550,000	\$ 2,400	\$ 510,000	\$ 2,200
557	Mount Currie	Mount Currie	500	250	600	300	1.159	\$ 11,536,000	\$ 46,100	\$ 14,270,000	\$ 47,600	\$ 350,000	\$ 1,200
557	Mount Currie	Xit'olacw Village	800	250	1100	350	1.159	\$ 103,500	\$ 400	\$ 5,840,000	\$ 16,700	\$ 350,000	\$ 1,000
630	Mowachaht/Muchalaht	Tsa Xana No. 18	215	64	308	95	1.121	\$ 1,247,000	\$ 19,500	\$ 2,870,000	\$ 30,200	\$ 290,000	\$ 3,100

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Band #	Band Name	Community Name	Current Population	Current Homes	Forecast Population	Forecast Homes	Zone Markup	Upgrade To Protocol	Per Lot Upgrades to Protocol (Current Homes)	Recommended Servicing	Per Lot Recommended Servicing (Forecast Homes)	Recommended O&M	Per Lot O&M (Forecast Homes)
550	Musqueam	Musqueam Village	826	173	1087	238	1.026	\$ 1,020,000	\$ 5,900	\$ 550,000	\$ 2,300	\$ 245,000	\$ 1,000
612	Nadleh Whuten	Nautley and Seaspunkt	225	83	280	110	1.269	\$ 2,995,000	\$ 36,100	\$ 4,800,000	\$ 43,600	\$ 605,000	\$ 5,500
614	Nakazdli	Nakazdli	709	264	900	359	1.269	\$ 2,505,000	\$ 9,500	\$ 4,240,000	\$ 11,800	\$ 690,000	\$ 1,900
631	Namgis First Nation	Alert Bay 1 & 1a	980	220	1284	296	1.444	\$ 1,862,500	\$ 8,500	\$ 2,390,000	\$ 8,100	\$ 930,000	\$ 3,100
649	Nanoose First Nation	Nanoose	273	90	370	122	1.026	\$ 777,500	\$ 8,600	\$ 2,570,000	\$ 21,100	\$ 410,000	\$ 3,400
720	Nazko	Nazco 20	154	37	179	43	1.269	\$ 2,730,000	\$ 73,800	\$ 3,830,000	\$ 89,100	\$ 300,000	\$ 7,000
726	Nee-Tahi-Buhn	Nee-Tahi-Buhn	45	9	51	10	1.269	\$ -	\$ -	\$ 15,000	\$ 1,500	\$ 45,000	\$ 4,500
690	Neskonlith	Neskonlith	239	78	315	103	1.159	\$ 500,000	\$ 6,400	\$ 250,000	\$ 2,400	\$ 330,000	\$ 3,200
690	Neskonlith	Switsemalph 3	82	25	118	37	1.159	\$ -	\$ -	\$ 390,000	\$ 10,500	\$ 215,000	\$ 5,800
696	Nicomen	Nicomen	69	20	90	27	1.159	\$ 1,081,000	\$ 54,100	\$ 1,200,000	\$ 44,400	\$ 195,000	\$ 7,200
671	Nisgaa Village of Gingolx	Gingolx	384	124	475	154	1.696	\$ 9,235,000	\$ 74,500	\$ 11,260,000	\$ 73,100	\$ 550,000	\$ 3,600
679	Nisgaa Village of Gitwinksihlkw	Gitwinksihlkw	230	57	278	69	1.696	\$ 2,080,000	\$ 36,500	\$ 3,180,000	\$ 46,100	\$ 380,000	\$ 5,500
678	Nisgaa Village of Laxgaltsap	Laxgalts'ap	585	160	634	176	1.378	\$ 5,330,500	\$ 33,300	\$ 5,730,000	\$ 32,600	\$ 410,000	\$ 2,300
677	Nisgaa Village of New Aiyansh	New Aiyansh	847	330	1085	449	1.378	\$ 3,954,000	\$ 12,000	\$ 13,570,000	\$ 30,200	\$ 440,000	\$ 1,000
699	Nooaitch	Nooaitch 10	104	57	120	73	1.064	\$ 533,000	\$ 9,400	\$ 1,550,000	\$ 21,200	\$ 355,000	\$ 4,900
556	NQuatqua	Devine	20	5	20	5	1.159	\$ 492,000	\$ 98,400	\$ 470,000	\$ 94,000	\$ 51,000	\$ 10,200
556	NQuatqua	N'quatqua	204	64	272	86	1.159	\$ 515,000	\$ 8,000	\$ 1,970,000	\$ 22,900	\$ 285,000	\$ 3,300
639	Nuchatlaht	Nuchatlaht	39	12	50	15	1.378	\$ 1,654,000	\$ 137,800	\$ 1,510,000	\$ 100,700	\$ 220,000	\$ 14,700
539	Nuxalk Nation	Nuxalk	1200	268	1536	352	1.581	\$ 55,000	\$ 200	\$ 11,310,000	\$ 32,100	\$ 470,000	\$ 1,300
616	Okanagan	Okanagan No. 1	750	313	984	430	1.064	\$ 5,695,000	\$ 18,200	\$ 7,430,000	\$ 17,300	\$ 1,340,000	\$ 3,100
669	Old Massett Village Council	Old Massett	850	290	1130	430	1.590	\$ 130,000	\$ 400	\$ 3,080,000	\$ 7,200	\$ 530,000	\$ 1,200
692	Oregon Jack Creek	Upper Nepa 6	13	8	19	14	1.159	\$ 950,000	\$ 118,800	\$ 1,895,000	\$ 135,400	\$ 270,000	\$ 19,300
596	Osoyoos	Osoyoos 1	314	144	417	195	1.026	\$ 722,500	\$ 5,000	\$ 3,250,000	\$ 16,700	\$ 610,000	\$ 3,100
541	Oweekeno/Wuikinuxv Nation	Wuikinuxv	88	48	134	94	2.071	\$ 1,905,000	\$ 39,700	\$ 5,040,000	\$ 53,600	\$ 840,000	\$ 8,900
652	Pauquachin	Cole Bay 3	225	72	306	99	1.026	\$ 207,500	\$ 2,900	\$ 2,810,000	\$ 28,400	\$ 440,000	\$ 4,400
650	Penelakut	Kuper Island 7	387	105	493	140	1.121	\$ 693,500	\$ 6,600	\$ 1,240,000	\$ 8,900	\$ 460,000	\$ 3,300
650	Penelakut	Tsussie 6	74	21	94	27	1.121	\$ 265,500	\$ 12,600	\$ 655,000	\$ 24,300	\$ 80,000	\$ 3,000
597	Penticton	Penticton	512	194	695	285	1.026	\$ 610,000	\$ 3,100	\$ 3,200,000	\$ 11,200	\$ 720,000	\$ 2,500
544	Prophet River First Nation	Prophet River	128	47	172	69	1.352	\$ 489,000	\$ 10,400	\$ 1,230,000	\$ 17,800	\$ 250,000	\$ 3,600
651	Qualicum First Nation	Qualicum First Nation	65	25	87	36	1.121	\$ 765,000	\$ 30,600	\$ 1,450,000	\$ 40,300	\$ 90,000	\$ 2,500
633	Quatsino	Quatsino Subdivision	234	70	299	91	1.064	\$ 70,000	\$ 1,000	\$ 640,000	\$ 7,000	\$ 50,000	\$ 500
715	Red Bluff	Lhtako Dene (Red Bluff)	104	28	152	44	1.165	\$ 1,172,500	\$ 41,900	\$ 1,620,000	\$ 36,800	\$ 300,000	\$ 6,800
615	Saikuz First Nation	Saikuz	530	187	689	266	1.269	\$ 1,970,000	\$ 10,500	\$ 4,640,000	\$ 17,400	\$ 550,000	\$ 2,100
567	Samahquam	QaLaTKu7em	85	20	128	30	1.425	\$ 589,000	\$ 29,500	\$ 1,130,000	\$ 37,700	\$ 275,000	\$ 9,200
542	Saulteau First Nations	East Moberly Lake 169	450	136	607	188	1.352	\$ 1,285,000	\$ 9,400	\$ 18,490,000	\$ 98,400	\$ 590,000	\$ 3,100
568	Scowlitz	Scowlitz IR1	11	3	15	4	1.026	\$ 472,800	\$ 157,600	\$ 415,000	\$ 103,800	\$ 150,000	\$ 37,500
568	Scowlitz	Squawkum Creek	87	29	118	39	1.026	\$ 570,400	\$ 19,700	\$ 610,000	\$ 15,600	\$ 215,000	\$ 5,500
581	Seabird Island	Seabird Island	800	206	1086	301	1.026	\$ 516,500	\$ 2,500	\$ 2,740,000	\$ 9,100	\$ 430,000	\$ 1,400
551	Sechelt	Sechelt Band Lands(Sechelt) 2	827	339	1109	480	1.026	\$ 250,000	\$ 700	\$ 2,870,000	\$ 6,000	\$ 400,000	\$ 800
569	Semiahmoo	Semiahmoo	51	36	75	60	1.026	\$ -	\$ -	\$ 4,880,000	\$ 81,300	\$ 330,000	\$ 5,500
595	Seton Lake	Slosh 1	328	90	438	126	1.159	\$ 3,355,000	\$ 37,300	\$ 1,310,000	\$ 10,400	\$ 260,000	\$ 2,100
698	Shackan	Shackan	76	31	87	36	1.064	\$ 1,448,000	\$ 46,700	\$ 1,470,000	\$ 40,800	\$ 180,000	\$ 5,000
605	Shuswap	Shuswap	72	51	85	64	1.159	\$ 3,299,000	\$ 64,700	\$ 3,520,000	\$ 55,000	\$ 345,000	\$ 5,400
570	Shxwhá:y Village	Skway	120	32	196	57	1.026	\$ 299,400	\$ 9,400	\$ 950,000	\$ 16,700	\$ 215,000	\$ 3,800
587	Shxw'ow'hamel First Nation	Ohamil 1	73	21	114	34	1.026	\$ 230,000	\$ 11,000	\$ 630,000	\$ 18,500	\$ 185,000	\$ 5,400
691	Simpcw First Nation	Simpcw	309	103	386	128	1.159	\$ 2,755,000	\$ 26,700	\$ 3,580,000	\$ 28,000	\$ 490,000	\$ 3,800
706	Siska	Siska	84	35	102	44	1.159	\$ 1,297,000	\$ 37,100	\$ 1,445,000	\$ 32,800	\$ 240,000	\$ 5,500
562	Skatin Nations	Skookumchuck	100	31	150	47	1.378	\$ 3,724,000	\$ 120,100	\$ 4,680,000	\$ 99,600	\$ 350,000	\$ 7,400
582	Skawahlook First Nation	Ruby Creek No. 2	33	15	40	18	1.026	\$ 1,269,500	\$ 84,600	\$ 1,365,000	\$ 75,800	\$ 215,000	\$ 11,900
687	Skeetchestn	Skeetchestn	339	108	464	149	1.159	\$ 770,500	\$ 7,100	\$ 1,840,000	\$ 12,300	\$ 430,000	\$ 2,900
670	Skidegate	Skidegate	1000	385	1425	597	1.590	\$ 530,000	\$ 1,400	\$ 9,440,000	\$ 15,800	\$ 750,000	\$ 1,300
729	Skin Tyee	Skin Tyee	41	14	70	28	1.269	\$ -	\$ -	\$ 2,500,000	\$ 89,300	\$ 140,000	\$ 5,000
571	Skowkale	Skowkale	250	63	336	91	1.026	\$ 432,500	\$ 6,900	\$ 2,550,000	\$ 28,000	\$ 250,000	\$ 2,700
707	Skuppah	Skuppah	62	21	92	36	1.159	\$ 1,198,500	\$ 57,100	\$ 1,420,000	\$ 39,400	\$ 450,000	\$ 12,500

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Band #	Band Name	Community Name	Current Population	Current Homes	Forecast Population	Forecast Homes	Zone Markup	Upgrade To Protocol	Per Lot Upgrades to Protocol (Current Homes)	Recommended Servicing	Per Lot Recommended Servicing (Forecast Homes)	Recommended O&M	Per Lot O&M (Forecast Homes)
573	Skwah	Skwah 4	420	56	610	103	1.026	\$ 10,000	\$ 200	\$ 2,520,000	\$ 24,500	\$ 220,000	\$ 2,100
554	Sliammon	Sliammon	599	224	761	305	1.026	\$ 5,315,000	\$ 23,700	\$ 7,720,000	\$ 25,300	\$ 520,000	\$ 1,700
648	Snuneymuxw First Nation	Snuneymuxw First Nation	693	183	915	257	1.026	\$ 3,117,500	\$ 17,000	\$ 11,620,000	\$ 45,200	\$ 595,000	\$ 2,300
716	Soda Creek	Xat'sull (Soda Creek)	150	63	202	89	1.165	\$ 1,727,500	\$ 27,400	\$ 2,805,000	\$ 31,500	\$ 395,000	\$ 4,400
656	Songhees First Nation	New Songhees 1A	354	85	486	118	1.026	\$ 485,000	\$ 5,700	\$ 1,990,000	\$ 16,900	\$ 200,000	\$ 1,700
572	Soowahlie	Soowahlie 14	351	72	464	100	1.026	\$ 625,000	\$ 8,700	\$ 3,340,000	\$ 33,400	\$ 260,000	\$ 2,600
600	Spallumcheen	Enderby 2	410	119	550	165	1.064	\$ 880,000	\$ 7,400	\$ 2,930,000	\$ 17,800	\$ 500,000	\$ 3,000
708	Spuzzum	Spuzzum 1	43	17	55	23	1.121	\$ 950,000	\$ 55,900	\$ 1,095,000	\$ 47,600	\$ 290,000	\$ 12,600
555	Squamish	Capilano 5	1016	228	1366	315	1.026	\$ -	\$ -	\$ 3,080,000	\$ 9,800	\$ 1,180,000	\$ 3,700
555	Squamish	Cheakamus 11	67	15	79	18	1.026	\$ 561,000	\$ 37,400	\$ 710,000	\$ 39,400	\$ 160,000	\$ 8,900
555	Squamish	Kowtain 17	45	10	69	16	1.026	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ 5,300
555	Squamish	Mission 1	718	161	808	183	1.026	\$ -	\$ -	\$ 770,000	\$ 4,200	\$ 840,000	\$ 4,600
555	Squamish	Seymour Creek 2	116	26	206	48	1.026	\$ -	\$ -	\$ 770,000	\$ 16,000	\$ 155,000	\$ 3,200
555	Squamish	Stawamus 24	111	26	146	34	1.026	\$ 967,500	\$ 37,200	\$ 2,130,000	\$ 62,600	\$ 120,000	\$ 3,500
555	Squamish	Waiwakum 14	134	31	204	48	1.026	\$ 25,000	\$ 800	\$ -	\$ -	\$ 125,000	\$ 2,600
555	Squamish	Yekwaupsum 18	53	12	53	12	1.026	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ 7,100
574	Squiaala First Nation	Squiaala 7	109	36	145	48	1.026	\$ 401,500	\$ 11,200	\$ 910,000	\$ 19,000	\$ 215,000	\$ 4,500
574	Squiaala First Nation	Squiaala 8	19	7	25	10	1.026	\$ 99,000	\$ 14,100	\$ 145,000	\$ 14,500	\$ 61,000	\$ 6,100
602	St. Marys	Kootenay 1	180	58	236	76	1.026	\$ 1,005,000	\$ 17,300	\$ 2,720,000	\$ 35,800	\$ 335,000	\$ 4,400
613	Stella't'en First Nation	Stellaquo (Stella) No. 1	202	58	256	76	1.269	\$ 3,985,000	\$ 68,700	\$ 5,390,000	\$ 70,900	\$ 300,000	\$ 3,900
717	Stone	Stone 1	244	54	321	73	1.269	\$ 1,719,000	\$ 31,800	\$ 6,980,000	\$ 95,600	\$ 365,000	\$ 5,000
578	Sumas First Nation	Upper Sumas 6	306	58	385	77	1.026	\$ 350,000	\$ 6,000	\$ 2,570,000	\$ 33,400	\$ 245,000	\$ 3,200
682	Tahltan	Tahltan	522	131	657	176	1.664	\$ 1,774,500	\$ 13,500	\$ 4,580,000	\$ 26,000	\$ 600,000	\$ 3,400
608	Takla Lake First Nation	Takla Landing	250	92	336	135	1.664	\$ 1,795,000	\$ 19,500	\$ 4,550,000	\$ 33,700	\$ 460,000	\$ 3,400
593	T'it'q'et	Lillooet 1	183	71	224	91	1.159	\$ 209,000	\$ 2,900	\$ 460,000	\$ 5,100	\$ 215,000	\$ 2,400
593	T'it'q'et	McCartneys Flat 4	25	14	40	29	1.159	\$ 717,000	\$ 51,200	\$ 980,000	\$ 33,800	\$ 135,000	\$ 4,700
593	T'it'q'et	Seton Lake 5	12	5	24	11	1.159	\$ 545,000	\$ 109,000	\$ 775,000	\$ 70,500	\$ 160,000	\$ 14,500
593	T'it'q'et	Towinock 2	10	4	20	9	1.159	\$ 195,000	\$ 48,800	\$ 130,000	\$ 14,400	\$ 120,000	\$ 13,300
660	Tla-o-qui-aht First Nations	Esowista 3	250	40	320	57	1.378	\$ 1,103,000	\$ 27,600	\$ 5,120,000	\$ 89,800	\$ 310,000	\$ 5,400
660	Tla-o-qui-aht First Nations	Opitsaht	200	50	256	64	1.378	\$ 5,200,000	\$ 104,000	\$ 9,030,000	\$ 141,100	\$ 340,000	\$ 5,300
632	Tlatlasikwala	Hope Island 1	20	7	31	12	1.444	\$ 17,500	\$ 2,500	\$ 125,000	\$ 10,400	\$ 227,000	\$ 18,900
617	Tl'azt'en Nation	Binche, Middle River & Tache	880	229	958	255	1.269	\$ 3,797,500	\$ 16,600	\$ 6,170,000	\$ 24,200	\$ 900,000	\$ 3,500
712	Tl'etinqox-t'in Government Office	Anahims Flat 1	561	141	661	174	1.269	\$ 565,000	\$ 4,000	\$ 390,000	\$ 2,200	\$ 250,000	\$ 1,400
603	Tobacco Plains	Tobacco Plains	75	22	89	26	1.121	\$ 1,410,000	\$ 64,100	\$ 1,420,000	\$ 54,600	\$ 150,000	\$ 5,800
718	Toosey	Toosey	164	51	220	69	1.269	\$ 1,609,000	\$ 31,500	\$ 1,820,000	\$ 26,400	\$ 320,000	\$ 4,600
666	Toquaht	Macoah No. 1	30	9	36	11	1.121	\$ 1,827,500	\$ 203,100	\$ 2,775,000	\$ 252,300	\$ 193,000	\$ 17,500
653	Tsartlip	South Sannich 1	498	166	642	214	1.026	\$ 400,000	\$ 2,400	\$ 5,200,000	\$ 24,300	\$ 710,000	\$ 3,300
636	Tsawataineuk	Quaee	113	50	156	71	1.425	\$ 330,000	\$ 6,600	\$ 850,000	\$ 12,000	\$ 280,000	\$ 3,900
654	Tsawout First Nation	East Saanich 2	650	200	837	262	1.026	\$ 815,000	\$ 4,100	\$ 10,200,000	\$ 38,900	\$ 550,000	\$ 2,100
577	Tsawwassen First Nation	Tsawwassen First Nation	210	68	298	97	1.026	\$ 485,000	\$ 7,100	\$ 8,470,000	\$ 87,300	\$ 320,000	\$ 3,300
609	Tsay Keh Dene	Finlay River	198	52	228	62	2.122	\$ 690,000	\$ 13,300	\$ 1,320,000	\$ 21,300	\$ 420,000	\$ 6,800
665	Tseshah	Tsahaheh 1	480	186	619	255	1.026	\$ 673,500	\$ 3,600	\$ 3,540,000	\$ 13,900	\$ 700,000	\$ 2,700
655	Tseycum	Union Bay 4	140	37	176	49	1.026	\$ 604,000	\$ 16,300	\$ 2,610,000	\$ 53,300	\$ 240,000	\$ 4,900
594	Tskwaylaxw First Nation	Marble Canyon 3	125	27	179	40	1.159	\$ 422,000	\$ 15,600	\$ 880,000	\$ 22,000	\$ 400,000	\$ 10,000
594	Tskwaylaxw First Nation	Pavilion 1	99	24	117	28	1.159	\$ 742,000	\$ 30,900	\$ 925,000	\$ 33,000	\$ 180,000	\$ 6,400
657	TSou-ke First Nation	TSou-Ke 1	96	40	100	42	1.026	\$ 25,000	\$ 600	\$ 1,705,000	\$ 40,600	\$ 200,000	\$ 4,800
657	TSou-ke First Nation	TSou-Ke 2	134	44	231	76	1.026	\$ -	\$ -	\$ 1,410,000	\$ 18,600	\$ 165,000	\$ 2,200
575	Tzeachten	Tzeachten 13	376	94	542	135	1.026	\$ 1,130,000	\$ 12,000	\$ 3,910,000	\$ 29,000	\$ 260,000	\$ 1,900
667	Uchucklesaht	Elhlateese 2	15	12	19	16	1.121	\$ 1,063,500	\$ 88,600	\$ 893,000	\$ 55,800	\$ 165,000	\$ 10,300
668	Ucluelet First Nation	Ittatsoo 1	160	93	198	131	1.121	\$ 1,530,000	\$ 16,500	\$ 3,140,000	\$ 24,000	\$ 250,000	\$ 1,900
722	Ulkatcho	Ulkatcho	750	165	960	217	1.581	\$ 108,000	\$ 700	\$ 4,890,000	\$ 22,500	\$ 630,000	\$ 2,900
697	Upper Nicola	Douglas Lake 3	190	71	211	81	1.159	\$ 552,000	\$ 7,800	\$ 720,000	\$ 8,900	\$ 305,000	\$ 3,800
697	Upper Nicola	Nicola Lake 1	154	60	171	68	1.159	\$ 1,939,500	\$ 32,300	\$ 2,790,000	\$ 41,000	\$ 380,000	\$ 5,600
599	Upper Similkameen	Chuchuwayha 2	40	30	54	44	1.121	\$ 1,050,000	\$ 35,000	\$ 1,025,000	\$ 23,300	\$ 260,000	\$ 5,900

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545	West Moberly First Nations	West Moberly Lake 168A	105	35	131	43	1.352	\$ 2,140,000	\$ 61,100	\$ 2,430,000	\$ 56,500	\$ 300,000	\$ 7,000
601	Westbank First Nation	Westbank First Nation	9400	2849	13442	4196	1.064	\$ 948,500	\$ 300	\$ 2,130,000	\$ 500	\$ 410,000	\$ 100
725	Wetsuweten First Nation	Wet'Suwet'En	105	25	148	35	1.269	\$ 1,122,100	\$ 44,900	\$ 1,600,000	\$ 45,700	\$ 295,000	\$ 8,400
702	Whispering Pines/Clinton	Whispering Pines	65	22	94	36	1.159	\$ 7,423,000	\$ 337,400	\$ 7,230,000	\$ 200,800	\$ 220,000	\$ 6,100
719	Williams Lake	Williams Lake 1	278	88	318	101	1.165	\$ 1,985,000	\$ 22,600	\$ 2,150,000	\$ 21,300	\$ 300,000	\$ 3,000
592	Xaxli'p	Chilhil 6	128	30	183	43	1.159	\$ 555,000	\$ 18,500	\$ 1,250,000	\$ 29,100	\$ 230,000	\$ 5,300
592	Xaxli'p	Fountain 1	209	49	264	62	1.159	\$ 370,000	\$ 7,600	\$ 860,000	\$ 13,900	\$ 260,000	\$ 4,200
714	Xeni Gwet'in First Nations Government	CHILCO LAKE 1A	28	0	28	0	1.581	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
714	Xeni Gwet'in First Nations Government	Lohbiee 3	297	73	366	90	1.581	\$ 272,500	\$ 3,700	\$ 520,000	\$ 5,800	\$ 440,000	\$ 4,900
576	Yakweakwioose	Yakweakwioose 12	48	12	59	14	1.026	\$ -	\$ -	\$ 2,150,000	\$ 153,600	\$ 125,000	\$ 8,900
589	Yale First Nation	Yale First Nation	29	16	37	24	1.026	\$ 1,080,000	\$ 67,500	\$ 1,005,000	\$ 41,900	\$ 300,000	\$ 12,500
728	Yekooche	Yekooche	100	47	174	84	1.269	\$ 1,126,500	\$ 24,000	\$ 1,910,000	\$ 22,700	\$ 310,000	\$ 3,700