

Administration Report

Report Date: June 23, 2011
Meeting Date: July 4, 2011

To: City Manager

From: Acting Director of Public Works and Engineering - Ken Coombs

Subject: 2010 Drinking Water Annual Report

Please find attached, the 2010 Drinking Water Annual Report prepared by Chris Coben, Utilities Superintendent.

Drinking Water Annual Report -2010

City of Quesnel Water System

PURPOSE

The City of Quesnel annual water report describes the water system and provides a summary of quality testing and water management during 2010. It is a requirement under the British Columbia Drinking Water Regulations Drinking Water Protection Act.

WATER SYSTEM OVERVIEW

The City of Quesnel water system is comprised of 6 operating groundwater wells (main system), 8 reservoirs, 5 booster pump stations, 2 main PRV stations and approximately 100 km of water main. In addition the City also maintains one independent well on Sword Road (small system) in South Quesnel to provide water to the soccer fields. At present there is no treatment or disinfection provided to the City's water system. Approximately 10,500 residents are serviced by the City water system. In 2010, water usage in the City system resulted in 662,835,765 imperial gallons used.

WATER MANAGEMENT

A bulk water site was constructed and commissioned in May 2010. This preserves the safety and integrity of the water system as fire hydrants are no longer used for bulk water filling. The costs of bulk water supply are also recovered.

The SCADA monitoring system enables City staff to observe real-time data and information of changing water system conditions. This includes well operation and reservoir levels. System operators have the ability to remotely respond to system conditions and demands. This reduces failure of equipment as well as increases pumping efficiency.

Staff continue to update the water system emergency plan. Operating procedures continue to be created in order to improve reliability of the distribution network.

Water system operators are certified under the Environmental Operators Certification Program. In order to maintain certification, operators must receive 24 hours of approved training in every two year period and achieve a minimum of 70% on written examinations.

WATER MONITORING

To ensure the delivery of safe drinking water, the City has a program to monitor water quality at the source.

Historically, drinking water quality within the City has been monitored in consultation with the Provincial Health Inspector. The challenge and responsibility to ensure safe drinking water has been assisted by the adoption, in May 2003, by the province of the "British Columbia Drinking Water Regulations". In accordance with these regulations, the City has developed a drinking water quality monitoring program to enhance present practices.

In May 2004 the City commenced sending their water samples to Maxxam Analytics Laboratory (formerly Cantest Lab) in Burnaby, for all sampling points. The City has direct contact with the lab on results and concerns. Our local Drinking Water Officer at Northern Health Authority, also has access to these results. From the laboratory, the results are downloaded directly to Water Trax, the City's water quality database.

The sampling parameters used to monitor potability are listed in the Guidelines for Canadian Drinking Water Quality (GCDWQ) and the British Columbia Drinking Water Regulations (BCDWR). These sampling parameters are used as indicators for bacteriological, chemical and physical contaminants.

Sampling frequency is also important in obtaining an accurate overview of water quality within the distribution system. As a minimum, the number of samples to be taken of the source and distribution system, as required by provincial regulations, are based on population. The minimum number of samples to be taken for the City of Quesnel's approximately 10,500 people, is 13 per month. The City exceeds that number of monthly sampling. The City samples 16 individual sites bi-weekly, for total coliforms, E. Coli, heterotrophic plate count and turbidity. As well, all reservoirs and wells are tested on a monthly basis for bacterial contaminants. In addition to the bacteriological parameters, additional testing is done for chemical & physical contaminants.

WATER QUALITY

Samples are taken at the start, middle and end of the entire City water distribution system. Lab results are transmitted to the City via email, as well as to the Drinking Water Officer. Results are downloaded into the City's water quality database, Water Trax.

If it is observed during testing that certain parameters exceed the limits specified in the GCDWQ or BCDWR guidelines, a procedure is in place for retesting and notification of any results or conditions that render or could render the water unfit to drink.

The standard protocol when a water sample is found to contain the presence of coliforms, however minute, is to resample the water immediately at the same location and resubmit for testing. The provincial Drinking Water Officer will determine if any action by the City is necessary only after a second test also shows the presence of coliforms.

In accordance with the regulations of our operating permit, the City has a plan in effect to respond to emergencies to ensure the delivery of safe drinking water to all its residents.

In 2010, 318 samples were tested for E.Coli with zero exceedences. There were 318 samples tested for total coliform with three exceedences. One exceedence at Well #7, one at Well #8 and one at Sword Road. Subsequent testing proved negative for coliform.

CONCLUSION

The 2010 City of Quesnel Water System Annual Report is presented to Council as required by the British Columbia Drinking Water Regulations Drinking Water Protection Act. It has been established as a requirement to ensure accountability to the community for the water service provided. In order to meet the terms and conditions of the City's Water System Operating Permit issued by the BC Drinking Water Officer, this report is made available to the public.

Attachment "A" contains:

- a list of the sampling point sites and the parameters tested at Maxxam Labs for the City of Quesnel

Attachment "B" contains:

- Water sampling result summary reports for 2010 from Maxxam Labs on both of the City's water systems; Main System, & Small System (on Sword Road)

LINKS:

The Health Canada website (www.hc-sc.gc.ca) contains "Summary of Guidelines for Canadian Drinking Water Quality", which Health Canada publishes on current guidelines and updates each spring on their website.

Attachment "A"

	City of Quesnel V Quality Monitoring I	Program
	LOCATION	Page 1 of 2
SITE	LOCATION	PARAMETERS
BI-WEEK	XLY (Distribution System) (every other Tues	
between 10	Dam and 2pm)	
	-	
FIRST W	TEEK	
Water Trax		
Locator #		D
94 E4	Airport	Parameters: Total coliforms, Ecoli, HPC's,
94 E5	Mills Rd	turbidity, temp
94 E7	Marsh Dr	
94 E8	Graham Avenue	_
94 E9	West Fraser Rd	_
94 FO	Pederson Rd	
94 EF	Carson Pit	
179 CA	Dennis Road	
THIRD V		
94 E6	Carradice Rd	Parameters: Total coliforms, Ecoli, HPC's,
94 F1	Dixon St	turbidity, temp
94 F2	Front St – Hospital	
94 F3	Nason St	
94 F4	N. Star Dragon Hill	
94 F6	N Star South Hill	
94 F7	Chew Rd	
21 D9B	Bulk Water on North Star	
MONTH		
94 EA	R-1 Shadow Heights	
94 F9	R-2 Pinecrest	Parameters: Total coliforms, Ecoli, Temp
94 FA	R-3 Sugar Loaf	
94 EB	R-4 Abbott Dr 1	
94 EC	R-4 Abbott Dr 2	
94 FC	R-5 Dragon Hill	
94 FF	R-6 New Tatchell Reservoir	
MONT		
94 ED	Well A Sword Rd	
94 D1	Well 3 Rolph at Roddis	Parameters: Total coliforms, Ecoli, Temp
94 D8	Well 5 Hilborn Rd	
94 DC	Well 6 Rolph at Robertson	
94 EO	Well 7 N. Fraser Dr	
94 E1	Well 8 Hilborn Rd	
94 DF	Well 9 Carson Sub	

City of Quesnel Water Quality Monitoring Program

Page 2 of 2

QUARTERLY (Wells)

	(first week of March, June, Sept, Dec)	
Water Trax Locator #		
94 ED	Well A Sword Rd	
94 D1	Well 3 Rolph at Roddis	Parameters: Chloride, Nitrate, Nitrite,
94 D8	Well 5 Hilborn Rd	Temperature
94 DC	Well 6 Rolph at Robertson	
94 EO	Well 7 N. Fraser Drive	
94 E1	Well 8 Hilborn Rd	
94 DF	Well 9 Carson Sub	
SEMI -	ANNUALLY (Distribution System) (first week Oct & April)	
94 E5	Mills Rd (94E5)	Parameters: Copper, Zinc, Lead, Iron, Vinyl
94 FO	Pederson Rd (94F0)	chloride, Manganese, Temperature
ANNUA	LLY (Wells)	
94 ED	Well A Sword Rd	Parameters:
94 D1	Well 3 Rolph at Roddis	Enhanced Potability, Metals, Langelier
94 D8	Well 5 Hilborn Rd	saturation index (LSI) Volatile Organic
94 DC	Well 6 Rolph at Robertson	Compounds, Temp.
94 EO	Well 7 N. Fraser Drive	
94 E1	Well 8 Hilborn Rd	
94 DF	Well 9 Carson Sub	

Attachment "B"

Water sample result reports (in pdf format):

- 2010 Quesnel Main System Coliform Summary
- 2010 Quesnel Small System Coliform Summary
- 2010 Quesnel Main System Coliform/Ecoli Exceedences
- 2010 Quesnel Small System Coliform/Ecoli Exceedences
- 2010 April & October Semi-Annual Summary
- 2010 Quarterly on Small & Main System

City of Quesnel
City of Quesnel – Main System

Facility: Distribution System

Sampling Point: Bulk Water Site #1 (7-15-QC, 21D9B)

Escherichia coli / E. coli (counts)

samples: 7 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 7 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 7 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 7 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System Sampling Point: S- Airport (7-1-MR, 94E4)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL



City of Quesnel
City of Quesnel – Main System

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Carradice Rd (7-3-MR, 94E6)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Chew Rd (7-13-MR, 94F7)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)



City of Quesnel
City of Quesnel – Main System

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Dennis Road (7-14-MD, 179CA)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System Sampling Point: S- Dixon (7-8-MR, 94F1)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0



City of Quesnel
City of Quesnel – Main System

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Marsh Drive (7-4-MD, 94E7)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Mills Rd (7-2-MR, 94E5)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)



City of Quesnel
City of Quesnel – Main System

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- N. Star Dragon Hill (7-11-MD, 94F4)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- N.Star South Hill (7-12-MD, 94F6)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL



City of Quesnel
City of Quesnel – Main System

detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Nason (7-10-MD, 94F3)

Escherichia coli / E. coli (counts)

samples: 13 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 13 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 13 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 13 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Pederson Rd (7-7-MD, 94F0)



City of Quesnel City of Quesnel – Main System

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- West Fraser Rd (7-6-MR, 94E9)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System



City of Quesnel
City of Quesnel – Main System

Sampling Point: S-Graham Ave (7-5-MD, 94E8)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S-Hospital (7-9-MD, 94F2)

Escherichia coli / E. coli (counts)

samples: 12 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 12 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 12 avg: n/a (based on 0 numerical results)

exceedances: 0



2010 Main System Coliform Summary

City of Quesnel – Main System

City of Quesnel

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

Facility: Reservoirs

Sampling Point: R-1 Shadow Heights (8-1-MR, 94EA)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Reservoirs

Sampling Point: R-2 Pinecrest (8-4-MR, 94F9)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)



City of Quesnel
City of Quesnel – Main System

exceedances: 0

Facility: Reservoirs

Sampling Point: R-3 Sugarloaf (8-5-MR, 94FA)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Reservoirs

Sampling Point: R-4 Abbott Dr 1 (8-2-MR, 94EB)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL



City of Quesnel
City of Quesnel – Main System

detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Reservoirs

Sampling Point: R-4 Abbott Dr 2 (8-3-MR, 94EC)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Reservoirs

Sampling Point: R-5 Dragon Hill (8-6-MR, 94FC)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0



City of Quesnel City of Quesnel – Main System

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Reservoirs

Sampling Point: R-6 New Tatchell Reservoir (8-8-MR, 94FF)

Escherichia coli / E. coli (counts)

samples: 10 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 10 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 10 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Well 3 Rolph at Roddis; Well No 3 **Sampling Point:** Well 3 Rolph at Roddis (1-2-EP, 94D1)

Escherichia coli / E. coli (counts)

samples: 4 min: < 1 CFU/100mL # detects: 0 max: < 1 CFU/100mL

non-detects: 4 avg: n/a (based on 0 numerical results)



City of Quesnel
City of Quesnel – Main System

exceedances: 0

Total coliforms (counts)

samples: 4 min: < 1 counts/100mL # detects: 0 max: < 1 counts/100mL

non-detects: 4 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Well 5 Hilborn Rd; Well No 5 **Sampling Point:** Well 5 Hilborn Rd (2-2-EP, 94D8)

Escherichia coli / E. coli (counts)

samples: 8 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 8 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 8 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 8 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Well 6 Rolph at Robertson; Well No 6 **Sampling Point:** Well 6 Rolph at Robertson (3-2-EP, 94DC)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL



City of Quesnel
City of Quesnel – Main System

detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Well 7 N. Fraser Dr; Well No 7 **Sampling Point:** Well 7 N. Fraser Dr (4-2-EP, 94E0)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 2 counts/100mL

non-detects: 10 avg: 2.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Facility: Well 8 Hilborn Rd; Well No 8 **Sampling Point:** Well 8 Hilborn Rd (5-1-EP, 94E1)



City of Quesnel
City of Quesnel – Main System

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 3 counts/100mL

non-detects: 10 avg: 3.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Facility: Well 9 Carson Sub; Well No 9 **Sampling Point:** Well 9 Carson Sub (6-2-EP, 94DF)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0



City of Quesnel City of Quesnel - Main System

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown
- « means detected & less than number shown » means detected & greater than number shown
- * Indicates Criteria is exceeded



2010 Small Syst Coliform Summary

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel – Small System

Facility: Distribution System

Sampling Point: S- Carson Plt (2-1-MR, 94EF)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL # detects: 0 max: < 1.00000 counts/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Facility: Well A Sword Rd; Well A Sword Rd Sampling Point: Well A Sword Rd (1-1-EP, 94ED)

Escherichia coli / E. coli (counts)

samples: 11 min: < 1.00000 CFU/100mL # detects: 0 max: < 1.00000 CFU/100mL

non-detects: 11 avg: n/a (based on 0 numerical results)

exceedances: 0

Total coliforms (counts)

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 1 counts/100mL







City of Quesnel City of Quesnel - Small System

non-detects: 10 avg: 1.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown « means detected & less than number shown
- » means detected & greater than number shown

* Indicates Criteria is exceeded



2010 Main Syst Coliform Ecoli Exceedences

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel
City of Quesnel – Main System

Facility: Distribution System

Sampling Point: Bulk Water Site #1 (7-15-QC, 21D9B)

Facility: Distribution System
Sampling Point: S- Airport (7-1-MR, 94E4)

Facility: Distribution System

Sampling Point: S- Carradice Rd (7-3-MR, 94E6)

Facility: Distribution System

Sampling Point: S- Chew Rd (7-13-MR, 94F7)

Facility: Distribution System

Sampling Point: S- Dennis Road (7-14-MD, 179CA)

Facility: Distribution System
Sampling Point: S- Dixon (7-8-MR, 94F1)

Facility: Distribution System

Sampling Point: S- Marsh Drive (7-4-MD, 94E7)

Facility: Distribution System

Sampling Point: S- Mills Rd (7-2-MR, 94E5)

Facility: Distribution System

Sampling Point: S- N. Star Dragon Hill (7-11-MD, 94F4)

Facility: Distribution System

Sampling Point: S- N.Star South Hill (7-12-MD, 94F6)

Facility: Distribution System

Sampling Point: S- Nason (7-10-MD, 94F3)

Facility: Distribution System

Sampling Point: S- Pederson Rd (7-7-MD, 94F0)

Facility: Distribution System



2010 Main Syst Coliform Ecoli Exceedences

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel
City of Quesnel – Main System

Sampling Point: S- West Fraser Rd (7-6-MR, 94E9)

Facility: Distribution System

Sampling Point: S-Graham Ave (7-5-MD, 94E8)

Facility: Distribution System

Sampling Point: S-Hospital (7-9-MD, 94F2)

Facility: Reservoirs

Sampling Point: R-1 Shadow Heights (8-1-MR, 94EA)

Facility: Reservoirs

Sampling Point: R-2 Pinecrest (8-4-MR, 94F9)

Facility: Reservoirs

Sampling Point: R-3 Sugarloaf (8-5-MR, 94FA)

Facility: Reservoirs

Sampling Point: R-4 Abbott Dr 1 (8-2-MR, 94EB)

Facility: Reservoirs

Sampling Point: R-4 Abbott Dr 2 (8-3-MR, 94EC)

Facility: Reservoirs

Sampling Point: R-5 Dragon Hill (8-6-MR, 94FC)

Facility: Reservoirs

Sampling Point: R-6 New Tatchell Reservoir (8-8-MR, 94FF)

Facility: Well 3 Rolph at Roddis; Well No 3
Sampling Point: Well 3 Rolph at Roddis (1-2-EP, 94D1)

Facility: Well 5 Hilborn Rd; Well No 5 Sampling Point: Well 5 Hilborn Rd (2-2-EP, 94D8)

Facility: Well 6 Rolph at Robertson; Well No 6
Sampling Point: Well 6 Rolph at Robertson (3-2-EP, 94DC)

2010 Main Syst Coliform Ecoli Exceedences

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel
City of Quesnel – Main System

Facility: Well 7 N. Fraser Dr; Well No 7
Sampling Point: Well 7 N. Fraser Dr (4-2-EP, 94E0)

Total coliforms (counts) Criteria

* 05/18/2010 16:33 2 counts/100mL <=0, OG, P User-Defined

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 2 counts/100mL

non-detects: 10 avg: 2.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Facility: Well 8 Hilborn Rd; Well No 8
Sampling Point: Well 8 Hilborn Rd (5-1-EP, 94E1)

Total coliforms (counts) Criteria

* 04/28/2010 10:30 3 counts/100mL <=0, OG, P User-Defined

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 3 counts/100mL

non-detects: 10 avg: 3.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Facility: Well 9 Carson Sub; Well No 9
Sampling Point: Well 9 Carson Sub (6-2-EP, 94DF)



2010 Main Syst Coliform Ecoli Exceedences 01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel City of Quesnel - Main System

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown
- means detected & less than number shown
 means detected & greater than number shown
- * Indicates Criteria is exceeded



2010 Small Syst Coliform Ecoli Exceedences

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel City of Quesnel - Small System

Facility: Distribution System

Sampling Point: S- Carson Plt (2-1-MR, 94EF)

Facility: Well A Sword Rd: Well A Sword Rd Sampling Point: Well A Sword Rd (1-1-EP, 94ED)

Total coliforms (counts) Criteria

* 04/28/2010 09:16 1 counts/100mL <=0, OG, P User-Defined

samples: 11 min: < 1.00000 counts/100mL

detects: 1 max: 1 counts/100mL

non-detects: 10 avg: 1.000 counts/100mL (based on 1 numerical results)

exceedances: 1

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown « means detected & less than number shown
- » means detected & greater than number shown
- * Indicates Criteria is exceeded



2010 April Semi Annual Summary

04/20/2010 to 04/20/2010 (mm/dd/yyyy)

City of Quesnel
City of Quesnel – Main System

Facility: Distribution System

Sampling Point: S- Mills Rd (7-2-MR, 94E5)

Copper (total) Criteria

samples: 1 min: 0.0051 mg/L # detects: 1 max: 0.0051 mg/L

non-detects: 0 avg: 0.0051 mg/L (based on 1 numerical results)

exceedances: 0

Escherichia coli / E. coli (counts) Criteria

04/20/2010 12:51 < 1 CFU/100mL <=0, P, PR User-Defined

samples: 1 min: < 1 CFU/100mL # detects: 0 max: < 1 CFU/100mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Heterotrophic Plate Count / HPC Criteria

04/20/2010 12:51 < 1.0 CFU/mL <=500 User-Defined

samples: 1 min: < 1.0 CFU/mL # detects: 0 max: < 1.0 CFU/mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Iron (total) Criteria

Report created on 02/01/2011 8:51:01 AM



City of Quesnel
City of Quesnel – Main System

samples: 1 min: 0.009 mg/L # detects: 1 max: 0.009 mg/L

non-detects: 0 avg: 0.009 mg/L (based on 1 numerical results)

exceedances: 0

Lead (total) Criteria

samples: 1 min: 0.0009 mg/L # detects: 1 max: 0.0009 mg/L

non-detects: 0 avg: 0.0009 mg/L (based on 1 numerical results)

exceedances: 0

Manganese (total) Criteria

samples: 1 min: 0.002 mg/L # detects: 1 max: 0.002 mg/L

non-detects: 0 avg: 0.002 mg/L (based on 1 numerical results)

exceedances: 0

Temperature Criteria

04/20/2010 12:51 5 degrees C

samples: 1 min: 5 degrees C # detects: 1 max: 5 degrees C

non-detects: 0 avg: 5.000 degrees C (based on 1 numerical results)

exceedances: 0

City of Quesnel
City of Quesnel – Main System

Total coliforms	(counts)	(Criteria
-----------------	----------	---	----------

04/20/2010 12:51 < 1 counts/100mL <=0, OG, P User-Defined

samples: 1 min: < 1 counts/100mL # detects: 0 max: < 1 counts/100mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Turbidity Criteria

04/20/2010 12:51 < 0.1 NTU <=1 User-Defined

samples: 1 min: < 0.1 NTU # detects: 0 max: < 0.1 NTU

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Vinyl chloride Criteria

04/20/2010 12:51 < 0.0005 mg/L <=0.002 MAC

samples: 1 min: < 0.0005 mg/L # detects: 0 max: < 0.0005 mg/L

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Zinc (total) Criteria

samples: 1 min: 0.007 mg/L # detects: 1 max: 0.007 mg/L

City of Quesnel
City of Quesnel – Main System

non-detects: 0 avg: 0.007 mg/L (based on 1 numerical results)

exceedances: 0

Facility: Distribution System

Sampling Point: S- Pederson Rd (7-7-MD, 94F0)

Copper (total) Criteria

samples: 1 min: 0.0064 mg/L # detects: 1 max: 0.0064 mg/L

non-detects: 0 avg: 0.0064 mg/L (based on 1 numerical results)

exceedances: 0

Escherichia coli / E. coli (counts) Criteria

04/20/2010 13:15 < 1 CFU/100mL <=0, P, PR User-Defined

samples: 1 min: < 1 CFU/100mL # detects: 0 max: < 1 CFU/100mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Heterotrophic Plate Count / HPC Criteria

04/20/2010 13:15 < 1.0 CFU/mL <=500 User-Defined

samples: 1 min: < 1.0 CFU/mL # detects: 0 max: < 1.0 CFU/mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

City of Quesnel
City of Quesnel – Main System

Iron (total)	Criteria

samples: 1 min: 0.017 mg/L # detects: 1 max: 0.017 mg/L

non-detects: 0 avg: 0.017 mg/L (based on 1 numerical results)

exceedances: 0

Lead (total) Criteria

samples: 1 min: 0.0006 mg/L # detects: 1 max: 0.0006 mg/L

non-detects: 0 avg: 0.0006 mg/L (based on 1 numerical results)

exceedances: 0

Manganese (total) Criteria

samples: 1 min: 0.093 mg/L # detects: 1 max: 0.093 mg/L

non-detects: 0 avg: 0.093 mg/L (based on 1 numerical results)

exceedances: 1

Temperature Criteria

04/20/2010 13:15 6.6 degrees C

samples: 1 min: 6.6 degrees C # detects: 1 max: 6.6 degrees C

City of Quesnel
City of Quesnel – Main System

non-detects: 0 avg: 6.600 degrees C (based on 1 numerical results)

exceedances: 0

Total coliforms (counts) Criteria

04/20/2010 13:15 < 1 counts/100mL <=0, OG, P User-Defined

samples: 1 min: < 1 counts/100mL # detects: 0 max: < 1 counts/100mL

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Turbidity Criteria

04/20/2010 13:15 < 0.1 NTU <=1 User-Defined

samples: 1 min: < 0.1 NTU # detects: 0 max: < 0.1 NTU

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Vinyl chloride Criteria

04/20/2010 13:15 < 0.0005 mg/L <=0.002 MAC

samples: 1 min: < 0.0005 mg/L # detects: 0 max: < 0.0005 mg/L

non-detects: 1 avg: n/a (based on 0 numerical results)

exceedances: 0

Zinc (total) Criteria

Report created on 02/01/2011 8:51:01 AM



City of Quesnel
City of Quesnel – Main System

samples: 1 min: 0.005 mg/L # detects: 1 max: 0.005 mg/L

non-detects: 0 avg: 0.005 mg/L (based on 1 numerical results)

exceedances: 0

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

< means less than lower detection limit shown

- > means greater than upper detection limit shown
- « means detected & less than number shown
- » means detected & greater than number shown



^{*} Indicates Criteria is exceeded

Facility: Sampling Point:	Well A Sword Rd; Well A Sw Well A Sword Rd (1-1-EP, 9		
Chloride		Criteria	
01/05/2010 00:00 04/28/2010 09:16 05/18/2010 06/22/2010 10:30 09/14/2010 09:50 12/13/2010 13:20	0.20 mg/L < 0.5 mg/L < 0.5 mg/L < 0.5 mg/L < 0.5 mg/L 0.6 mg/L	<=250 <=250 <=250 <=250 <=250 <=250	AO AO AO AO AO
Nitrate (as N)		Criteria	
01/05/2010 00:00 04/28/2010 09:16 05/18/2010 06/22/2010 10:30 09/14/2010 09:50 12/13/2010 13:20	0.11 mg/L 0.12 mg/L 0.14 mg/L 0.15 mg/L 0.12 mg/L 0.12 mg/L		
Nitrate + Nitrite (as N)		Criteria	
01/05/2010 00:00 04/28/2010 09:16 05/18/2010 06/22/2010 10:30 09/14/2010 09:50 12/13/2010 13:20	0.11 mg/L 0.12 mg/L 0.14 mg/L 0.15 mg/L 0.12 mg/L 0.12 mg/L		
Nitrite (as N)		Criteria	
01/05/2010 00:00 04/28/2010 09:16 05/18/2010 06/22/2010 10:30 09/14/2010 09:50	< 0.00200 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L		



2010 Quarterly Small System 01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel

City of Quesnel - Small System

Nitrite (as N) Criteria

12/13/2010 13:20 < 0.005 mg/L

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown
- > means greater than upper detection limit shown
- « means detected & less than number shown
- » means detected & greater than number shown



^{*} Indicates Criteria is exceeded

2010 Quarterly Main System 01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel
City of Quesnel – Main System

Facility: Sampling Point:	Well 3 Rolph at Roddis; Well Well 3 Rolph at Roddis (1-2-B		
Chloride		Criteria	
05/18/2010 12:40 09/14/2010 13:00	7.6 mg/L 6.3 mg/L	<=250 <=250	AO AO
Nitrate (as N)		Criteria	
05/18/2010 12:40 09/14/2010 13:00	< 0.02 mg/L 0.12 mg/L		
Nitrate + Nitrite (as N)		Criteria	
05/18/2010 12:40 09/14/2010 13:00	< 0.02 mg/L 0.12 mg/L		
Nitrite (as N)		Criteria	
05/18/2010 12:40 09/14/2010 13:00	< 0.005 mg/L < 0.005 mg/L		
Facility: Sampling Point:	Well 5 Hilborn Rd; Well No 5 Well 5 Hilborn Rd (2-2-EP, 94	4D8)	
Chloride		Criteria	
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 13:45 06/22/2010 11:00	18.4 mg/L 14 mg/L 16 mg/L 14 mg/L	<=250 <=250 <=250 <=250	AO AO AO AO
Nitrate (as N)		Criteria	
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 13:45 06/22/2010 11:00	< 0.05000 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L		



2010 Quarterly Main System O1/01/2010 to 12/31/2010 (mm/dd/yyyy) City of Quesnel – Main System

Nitrate + Nitrite (as N)		Criteria	
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 13:45 06/22/2010 11:00	< 0.05000 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L		
Nitrite (as N)		Criteria	
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 13:45 06/22/2010 11:00	< 0.00200 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L		
Facility: Sampling Point:	Well 6 Rolph at Roberts Well 6 Rolph at Roberts		
Chloride		Criteria	
01/05/2010 00:00 04/28/2010 11:30 05/18/2010 13:15 06/22/2010 13:00 09/14/2010 13:15 12/13/2010 13:20	11.8 mg/L 9.4 mg/L 9.7 mg/L 9.0 mg/L 8.2 mg/L 11 mg/L	<=250 <=250 <=250 <=250 <=250 <=250	AO AO AO AO AO
Nitrate (as N)		Criteria	
01/05/2010 00:00 04/28/2010 11:30 05/18/2010 13:15 06/22/2010 13:00 09/14/2010 13:15 12/13/2010 13:20	0.25 mg/L 0.15 mg/L 0.16 mg/L 0.20 mg/L 0.32 mg/L 0.18 mg/L		
Nitrate + Nitrite (as N)		Criteria	
01/05/2010 00:00	0.25 mg/L		



2010 Quarterly Main System O1/01/2010 to 12/31/2010 (mm/dd/yyyy) City of Quesnel – Main System

Nitrate + Nitrite (as N)		Criteria	
04/28/2010 11:30 05/18/2010 13:15 06/22/2010 13:00 09/14/2010 13:15 12/13/2010 13:20	0.15 mg/L 0.16 mg/L 0.20 mg/L 0.32 mg/L 0.18 mg/L		
Nitrite (as N)		Criteria	
01/05/2010 00:00 04/28/2010 11:30 05/18/2010 13:15 06/22/2010 13:00 09/14/2010 13:15 12/13/2010 13:20	0.002 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L		
Facility: Sampling Point:	Well 7 N. Fraser Dr; Well No Well 7 N. Fraser Dr (4-2-EP,		
Chloride		Criteria	
01/05/2010 00:00 04/28/2010 11:00 05/18/2010 16:33 06/22/2010 13:25 09/14/2010 12:55 12/13/2010 13:20	8.68 mg/L 4.6 mg/L 6.4 mg/L 6.3 mg/L 6.8 mg/L 5.4 mg/L	<=250 <=250 <=250 <=250 <=250 <=250	AO AO AO AO AO
Nitrate (as N)		Criteria	
01/05/2010 00:00 04/28/2010 11:00 05/18/2010 16:33 06/22/2010 13:25 09/14/2010 12:55 12/13/2010 13:20	0.07 mg/L 0.08 mg/L 0.10 mg/L 0.14 mg/L 0.08 mg/L 0.05 mg/L		



2010 Quarterly Main System O1/01/2010 to 12/31/2010 (mm/dd/yyyy) City of Quesnel – Main System

Nitrate + Nitrite (as N)		Criteria		
01/05/2010 00:00 04/28/2010 11:00 05/18/2010 16:33 06/22/2010 13:25 09/14/2010 12:55 12/13/2010 13:20	0.07 mg/L 0.08 mg/L 0.10 mg/L 0.14 mg/L 0.08 mg/L 0.05 mg/L			
Nitrite (as N)		Criteria		
01/05/2010 00:00 04/28/2010 11:00 05/18/2010 16:33 06/22/2010 13:25 09/14/2010 12:55 12/13/2010 13:20	< 0.00200 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L			
Facility: Sampling Point:	Well 8 Hilborn Rd; Well Well 8 Hilborn Rd (5-1-B			
Chloride		Criteria		
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 16:33 06/22/2010 11:20 09/14/2010 11:10 12/13/2010 13:20	3.32 mg/L 4.0 mg/L 4.4 mg/L 4.2 mg/L 3.4 mg/L 4.0 mg/L	<=250 <=250 <=250 <=250 <=250 <=250	AO AO AO AO AO	
Nitrate (as N)		Criteria		
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 16:33 06/22/2010 11:20 09/14/2010 11:10 12/13/2010 13:20	< 0.05000 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L			



2010 Quarterly Main System City of Quesnel - Main System 01/01/2010 to 12/31/2010 (mm/dd/yyyy)

Nitrate + Nitrite (as N)	Criteria		
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 16:33 06/22/2010 11:20 09/14/2010 11:10 12/13/2010 13:20	< 0.05000 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L			
Nitrite (as N)		Criteria		
01/05/2010 00:00 04/28/2010 10:30 05/18/2010 16:33 06/22/2010 11:20 09/14/2010 11:10 12/13/2010 13:20	< 0.00200 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L < 0.005 mg/L			
Facility: Sampling Point:	Well 9 Carson Sub; We Well 9 Carson Sub (6-2			
Chloride		Criteria		
01/05/2010 00:00 04/28/2010 09:06 05/18/2010 16:33 06/22/2010 11:50 09/14/2010 10:30 12/13/2010 13:20	0.88 mg/L 0.9 mg/L 0.7 mg/L 0.8 mg/L 1.0 mg/L 1.9 mg/L	<=250 <=250 <=250 <=250 <=250 <=250	AO AO AO AO AO	
Nitrate (as N)		Criteria		
01/05/2010 00:00 04/28/2010 09:06 05/18/2010 16:33 06/22/2010 11:50 09/14/2010 10:30 12/13/2010 13:20	< 0.05000 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L			



Report created on 02/01/2011 10:38:34 AM

City of Quesnel

01/01/2010 to 12/31/2010 (mm/dd/yyyy)

City of Quesnel - Main System

Nitrate + Nitrite (as N)		Criteria
01/05/2010 00:00	< 0.05000 mg/L	
04/28/2010 09:06	< 0.02 mg/L	
05/18/2010 16:33	< 0.02 mg/L	
06/22/2010 11:50	< 0.02 mg/L	
09/14/2010 10:30	< 0.02 mg/L	
12/13/2010 13:20	< 0.02 mg/L	
Nitrite (as N)		Criteria
Nitrite (as N) 01/05/2010 00:00	< 0.00200 mg/L	Criteria
,	< 0.00200 mg/L < 0.005 mg/L	Criteria
01/05/2010 00:00	-	Criteria
01/05/2010 00:00 04/28/2010 09:06	< 0.005 mg/L	Criteria
01/05/2010 00:00 04/28/2010 09:06 05/18/2010 16:33	< 0.005 mg/L < 0.005 mg/L	Criteria
01/05/2010 00:00 04/28/2010 09:06 05/18/2010 16:33 06/22/2010 11:50	< 0.005 mg/L < 0.005 mg/L < 0.005 mg/L	Criteria

Result Legend:

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

- < means less than lower detection limit shown > means greater than upper detection limit shown « means detected & less than number shown » means detected & greater than number shown



^{*} Indicates Criteria is exceeded