

NOTICE: That a regular meeting of the Public Works and Development Committee will be held at the District Hall, 4936 Barriere Town Road, Barriere, B.C. on June 14, 2010 at 7:30 p.m. for the transaction of business listed below.

Wayne Vollrath, Chief Administrative Officer

AGENDA

1. ADOPTION OF AGENDA

That Council approve the June 14, 2010 Public Works and Development Committee Agenda.

2. WATER UTILITY

a. Building Canada Fund- Infrastructure Stimulus Grant

June 7th council awarded the contract to do work to CON-EX Civil Contractor in the amount of \$768,454.40

The Contract will stipulate that the Airfield Road extension will be completed first.

b. Leonie Lake Dam

Mr. Borrill requested quotes from two engineering companies to do the 10 year inspection required by the Province.

1. AMEC-

did not submit a proposal but verbally estimated the work would cost \$40,000.

2. Watson Engineering Ltd-

Cost estimate attached for the Committees review.

c. Pumphouse- recent equipment replacement

As a result of a lightning strike, all of the electrical modules had to be replaced. Staff was required to run the pumps manually for approximately one week.

The approximate cost to complete the repairs was \$11,000.

We have submitted a claim to our property insurers. Our deductible is \$1,000 and we expect to receive approximately \$10,000

d. Water Utility Rates

3. REQUEST FOR PROPOSAL FOR MUNICIPAL ENGINEERING CONSULTING SERVICES

Sub-committee met on June 14, 2010 at 5:00pm to review R.F.P.'s.

4. 2009 ANNUAL WATER REPORT

A draft copy of the 2009 Annual Water report is attached for the Committee's review.

5. REGIONAL SEPTAGE DISPOSAL

The TNRD has advised that the existing septage disposal pits in the Blue River, Clearwater and Barriere areas may be closed when the dumps are closed and relocated. The new eco-depot sites will not have septage pits.

The TNRD will be asking for Board approval to review centralized solutions versus sub-region solutions for future septage disposal.

6. STREET LIGHTING

Report on additional street light locations

7. AMENDMENT TO R1 ZONING BYLAW

Report from Dan Wallace re Possible Amendment to R1 Zoning Bylaw-Mr. Love

8. OTHER BUSINESS

a. 2010 Water Patrol

9. NEXT MEETING

At the call of the chair.

10. ADJOURNMENT

RECEIVED

JUN 08 2010



June 4, 2010

Our File: 467-131

District of Barriere
Box 219, 4936 Barriere Town Road
Barriere, B.C.
VOE 1E0

Attention: Wayne Vollrath, C.A.O.

Dear Sir:

**RE: *District of Barriere – Water System Improvements –
Recommendation of Contract Award***

On June 3, 2010 at 2:00 PM tenders officially closed on the above project at the District of Barriere's Administration offices. There were a total of twenty (20) sets of tender documents sent out to prospective tenderers and subcontractors during the tender period. Eight (8) tenders were received by the District of Barriere Administration prior to closing time. Each of the received tenders was complete with a Bond Security consisting of either a Bid Bond or a Certified Cheque.

The tenders were subsequently audited with minor mathematical errors discovered on Bids prepared by General Assembly, On-Call Service Centre, Loric Construction, and Demidoff Equipment. The discovered errors did not change the placement order of the contractors. The audited tender results are outlined below:

	<u>Tender Amount</u>
1. Con-Ex Civil Contractors	\$768,454.40
2. General Assembly Excavating	\$783,051.36
3. On-Call Service Centre	\$783,492.64
4. Loric Construction	\$845,476.80
5. Diamond Lil's Trucking	\$910,162.40
6. Mass Construction Ltd.	\$940,464.00
7. Demidoff Equipment Ltd.	\$964,812.27
8. Gable Construction Ltd.	\$999,544.00

A spreadsheet comprising the audited tender results is enclosed herewith for your reference.

.../2

TRUE Consulting Group understands that the low bid is within the District's budget for this project. On the basis of the preceding, we hereby recommend that this project be awarded to Con-Ex Civil Contractors Ltd. for \$768,454.40.

Please review the above and do not hesitate to contact the undersigned should you have any questions. If the recommendation is acceptable to the District of Barriere we would be pleased to prepare Contract Documentation to complete the award process.

Yours truly,

TRUE CONSULTING GROUP



Dave Underwood, P. Eng.

DU/cab

Enclosure

Watson Engineering Ltd.

760 SEYMOUR STREET, KAMLOOPS, BC V2C 2H3
BUS: (250) 374-2244 FAX: (250) 374-9292
E-MAIL: watson@direct.ca

CIVIL, STRUCTURAL, MUNICIPAL,
DESIGN & SUPERVISION, PROJECT MANAGEMENT

2010-05-28

1022/4A

The District of Barriere
4936 Barriere Town Road
Barriere, BC V0E 1E0

Attention: D. Borrill
Senior Water Treatment Specialist

**RE: TOWN OF BARRIERE
PROPOSAL FOR MANDATORY TEN YEAR REVIEW FOR
LEONIE LAKE DAM**

1. GENERAL

- 1.1 Please find outlined below our brief Proposal for "Mandatory Ten Year Dam Review" in accordance with the British Columbia Dam Safety Regulations for a High Consequence Dam. Although the Dam is some 33 years old we understand it has not be subjected to a Review, the Province is now requesting adherence to the Review Regulation.
- 1.2 We have discussed Leonie Lake Dam with B. Nuttall, B.Sc., Kamloops Region Dam Safety Officer, and understand while he will relax some of the normally required, and potentially more expensive, requirements he will require a Hydrology Report, ± \$6,000, in this case, which is required to check the adequacy of the Spillway, fortunately Golder Associates Ltd. who will do the Hydrology have background information on the general area which helps keep the cost down, and preparation of an "Operation, Maintenance And Surveillance Manual" and an Emergency Preparedness Manual. A "Dam Break Hydrological Analysis" which investigates what would happen under Dam failures of different magnitudes, which areas would be inundated, and which culverts and bridges would be affected, ± \$20,000 in this case, will not be required. A Seismic Liquefaction Analysis which requires borehole information on the materials and their in place density, both within the Dam embankment and well down into the foundation ground, to model the effects of a 2% in 50 year earthquake under a combination of conditions, ± \$18,000 in this case, will not be required if we are prepared to state the risk of a liquefaction failure is low.

2. DESCRIPTION

- 2.1 Leonie Lake Dam is situated at the 1,090 m elevation some 9 km North East of Barriere. Leonie Lake has a surface area of some 18 ha.
- 2.2 According to the Drawings, provided by the District of Barriere, Leonie Lake Dam was constructed in about 1977 and consists of an earthen embankment some 55 m long with 8.5 m wide crest and 2.5:1 back slope and 3:1 front (water) slope, 6 m high crest to outfall invert, a 9.15 wide rip-rap spillway with concrete control sill, a concrete enclosed 0.6 m CMP sluiceway with wooden access walkway, to the sluiceway.

3. SCOPE OF WORK

- 3.1 Review Poulin Engineering Ltd. Drawings #E612-1-77, 2-77^C, 3-77^B, 4-77^B, 5-77, 6-77 and 7-77 provided.
- 3.2 Initial reconnaissance. (Done)
- 3.3 Arrange for Golder Associates Ltd. to provide a Hydrology Report.
- 3.4 Carry out topographic survey when reservoir has been drawn down sufficiently.
- 3.5 Draw up Base Plan.
- 3.6 Compare the Base Plan to the design drawings.
- 3.7 Inspect sluiceway and sluiceway when reservoir has been drawn down sufficiently.
- 3.8 Confirm Dam crest height is at least in conformance with regulations for 1:1,000 Year event plus wave set up.
- 3.9 Complete a Dam Inspection Checklist.
- 3.10 Confirm hydraulic capacity of Spillway to safely pass the 1:1,000 Year event. The previous requirement was for a 1:200 Year event.
- 3.11 Inspect perimeter of reservoir, by boat.
- 3.12 Prepare Operation, Maintenance and Surveillance Manual.
- 3.13 Prepare Emergency Preparedness Manual.
- 3.14 Complete Brief Simplified Dam Safety Review Report.

4. SCHEDULE

- 4.1 We have reviewed the Drawings provided and carried out an initial reconnaissance.
- 4.2 Arrange for Golder Associates Ltd. to carry out the hydrology as soon as authorized.
- 4.3 Await notification from Barriere that the reservoir has been drawn down so we can carry out the topographic survey and inspect the sluicgate and sluicepipe. At the same time we would inspect the reservoir perimeter by boat. August?
- 4.4 Complete the Dam Safety Review; Operation, Maintenance and Surveillance Manual; and Emergency Preparedness Manual no later than eight weeks after the items in 4.3 above.


5. FEES

- 5.1 We estimate the work will cost some \$19,465, please see Appendix A "Task, Time And Rate Summary".
- 5.2 We had previously estimated Golder Associates Ltd.'s Hydrology would cost some \$6,000 and our component would be \$10,000 to \$12,000; however, we have an addition to prepare the Operation, Maintenance and Surveillance Manual and Emergency Preparedness Manual at \$1,690 and \$1,690 respectively.

6. CLOSURE

- 6.1 The Dam was obviously not constructed as shown on the Drawings but appears to be in serviceable condition except for the damaged steel access walkway to the sluicgate control and subject to a satisfactory inspection of the sluicgate and sluicepipe when the Reservoir has been drawn down.
- 6.2 Please call the undersigned should you have any questions on the above.

Yours truly,
WATSON ENGINEERING LTD.


John C.N. Watson, P. Eng.

/jgb

Encl.

APPENDIX A

TOWN OF BARRIERE

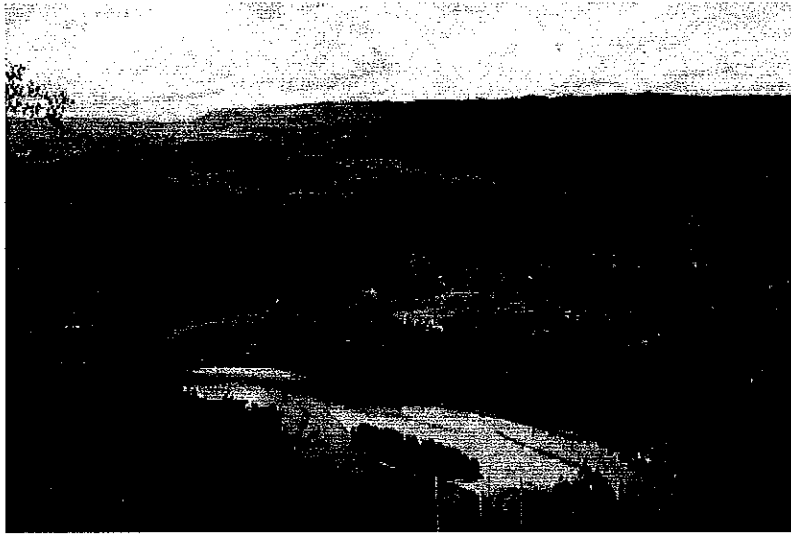
PROPOSAL FOR LEONIE LAKE DAM - TEN YEAR REVIEW

TASK, TIME, RATE AND FEE SUMMARY

ITEM #	DESCRIPTION	WATSON ENGINEERING LTD.					SUB TOTAL \$	GOLDER LTD. TOTAL \$	TOTAL \$
		ENGINEER	TECHNICIAN	SEC & S. HELPER	VEHICLE				
1	Review Drawings & Meet DSO (Done)	3					450		450
2	Initial Reconnaissance (Done)	4			100		700		700
3	Obtain & Review Hydrology	2		1			360	6,000	6,360
4	Topographic Survey Of Dam & Inspect Sluiceway & Outfall	7	10	10	200		2,800		2,800
5	Base Plan & Sections	1	12				1,290		1,290
6	Compare Base Plan & Sections With Design Drawings	2	4				680		680
7	Confirm Dam Crest Is Adequate For 1:1,000 Year Event Plus Wave Run Up	1	1				245		245
8	Complete Dam Inspection Check List	4	2				790		790
9	Confirm Hydraulic Capacity Of Spillway	2	1				395		395
10	Inspect Perimeter Of Reservoir By Boat	3	3		200		935		935
11	Dam Review Report	8		4			1,440		1,440
12	Operation, Maintenance And Surveillance Manual	8	2	5			1,690		1,690
13	Emergency Preparedness Manual	8	2	5			1,690		1,690
	Hours	53	37	25					
	Amount Or Rate	150	95	60	500			6,000	
	Total	7,950	3,515	1,500	500		13,465	6,000	19,465

District of Barriere

2009 Annual Water Report



Prepared for:
Interior Health Authority
June 2010



District of Barriere
Wayne Vollrath, CAO
Box 219, 4936 Barriere Town Road
Barriere, BC V0E 1E0
Tel: 250.672.9751 wwollrath@districtofbarriere.com

District of Barriere

Introduction

The District of Barriere is working to continually improve the water system and public awareness to meet the changing needs of our community.

Water safety is of utmost importance to the District of Barriere. The supply of good, clean drinking water has been taken for granted by the general public in Canada until events such as the Walkerton E. Coli outbreak brought the safety of the water supply into the public eye. We are dedicated to providing safe, clean water to the residents of Barriere as indicated in the following report.

Water Utility Objectives

- To ensure adequate supply of high quality water to the community.
- To effectively treat the raw water to provide potable water of integrity to the community.
- To ensure the adequate delivery of high quality potable water delivery to all points within the system for domestic and emergency purposes.
- To ensure effective management of all water system aspects and provide excellent customer service and information to the community.
- To manage water demand by effectively assessing and managing water losses from leakage in the system.
- To develop an effective water conservation program for operations and the wider community.
- To maintain water rates that encourages conservation and resource awareness while providing quality accessible water to consumers.



2009 Annual Water Report

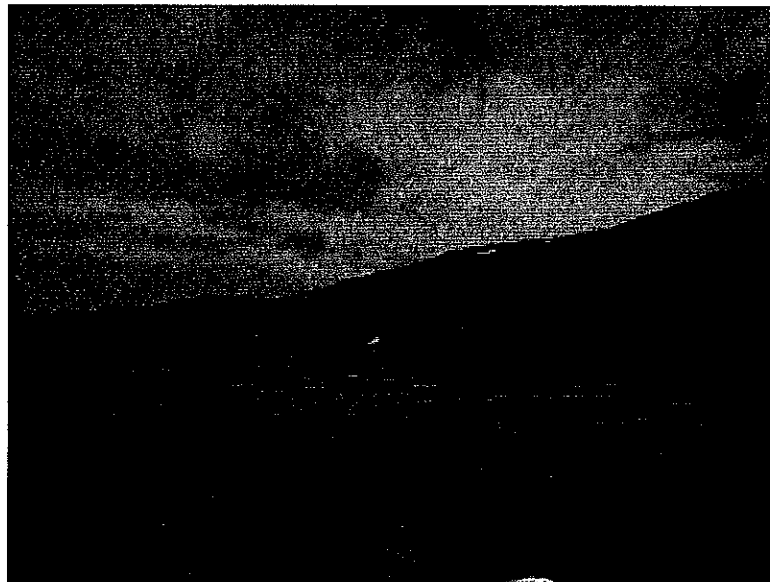
Provincial Requirements

All drinking water in the water system should meet the Canadian Guidelines for Drinking Water Quality. In British Columbia, the Ministry of Health regulates water suppliers through the Drinking Water Protection Act. This legislation ensures safe drinking water in the Province. It requires that the water supplier monitor the drinking water source and distribution system to ensure compliance with the Drinking Water Protection regulations and report all results to the Health Authority. Water monitoring, inspection and testing, emergency response planning, cross connection control and security standards are all regulated for persons operating a water system.

Changes in water systems must be approved by Interior Health Authority (IHA), and conform to the District's specifications.

Under the *BC Water Act*, the District must acquire licenses for withdrawal from water bodies.

Under the *Community Charter*, the District may by bylaw regulate, prohibit and impose requirements in relation to municipal service and public health. The District must make reports available to the public on request regarding fees imposed under this section.



District of Barriere

Supply Sources

The District of Barriere's potable water system is supplied by a system of three wells that were constructed during the 1990s. All three wells are located in the northeast quadrant of the community, adjacent to the Barriere River. Two deep wells are located at the north end of Spruce Crescent, and a third shallow well, considered to be under the influence of surface water (GWUDI), is located at the north end of Birch Lane. The wells are summarized in Table 3.1 below. The location of these wells can be seen on the overall water system plan on the following page.

Table 3.1: Barriere's Supply Wells

Well	Year Built	Pumping Capacity (L/s)	Approximate Depth (m)	Known Issues Or Concerns
#1 Deep	1994	28 ¹	47	High Iron, Manganese
#2 Deep	1997	63	35	
Shallow	1994	13	11	Surfacewater influenced

¹ Capacity limited by greensand filtration

As noted in the above table, the water that is pumped from the 1994 deep well suffers from high iron and manganese levels and is subsequently treated by a Kisco greensand filtration system. This system is designed to treat 47 L/s (750 USGPM), but a failure in one of the filtration units has reduced the maximum flow to 28 L/s (400 USGPM).

As the shallow well is considered GWUDI, its use is limited to times of necessity and is the first candidate for removal, should additional sources be developed.

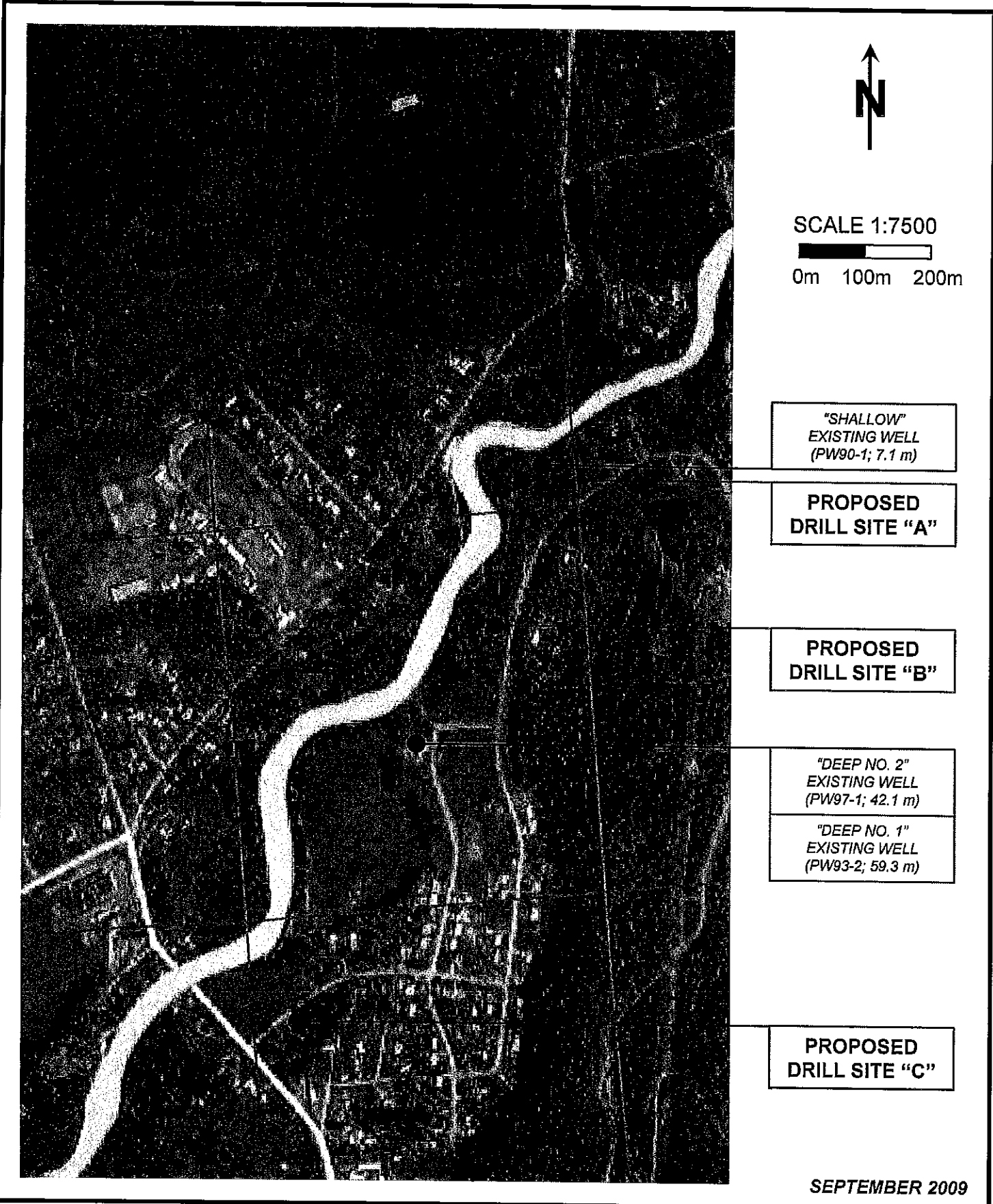
Water Treatment

The well water is injected with a chlorine solution at the pump stations such that it contains an approximate free residual chlorine concentration of 0.5mg/L adjacent to the pump stations, and has been measured to 0.3 mg/L at the more remote parts of the system.

In terms of the Interior Health Authority requirements, this treatment is satisfactory in a ground water source that is not under the influence of surface water, as these types of supply are given credit for filtration. Referencing the 4-3-2-1-0 requirements, the chlorine addresses the 4 and the 0, while the fact that the supply is a non-GWUDI well appears to be protected by a confining aquitard and addresses points 3, 2, and 1.



Figure 1



SEPTEMBER 2009



BC Groundwater
Consulting Services Ltd.

DESCRIPTION **PROPOSED DRILL SITE LOCATIONS**

PROJECT DEEP AQUIFER EXPLORATION AND DEVELOPMENT OF A NEW DEEP PRODUCTION WELL (2009 PROGRAM)

BCGCS
FILE 09003.2

CLIENT **DISTRICT OF BARRIERE**

FIGURE 1

2009 Annual Water Report

Reservoir Storage

The existing reservoir is a rectangular concrete tank with sloping sides and a capacity of 1,475 m³ (390,000 USG). It is located at the north end of the community adjacent to Barriere Lakes Road and has a floor elevation of 448 metres. A 350 mm diameter supply main connects the reservoir with the rest of the system at the intersection of Lodgepole Road and Barriere Lakes Road.

Distribution System

Approximately 24,750 metres of watermain are joined together to create the District of Barriere water system. The water system has been under going upgrades to ensure the water quality is safe for consumption. The first upgrades were from 1966 onwards when the pipes were changed to asbestos cement. Beginning in the 1980's the pipes began to be upgraded to PVC pipes due to the potential health risks of asbestos. The PVC pipes range in diameter from 100 mm to 350 mm and provide potable water to approximately 780 residential and 75 commercial service connections in Barriere.

Several sections of pipe within the District's water supply system are undersized, limiting flows and negatively impacting fire protection and pressures in certain parts of the network.



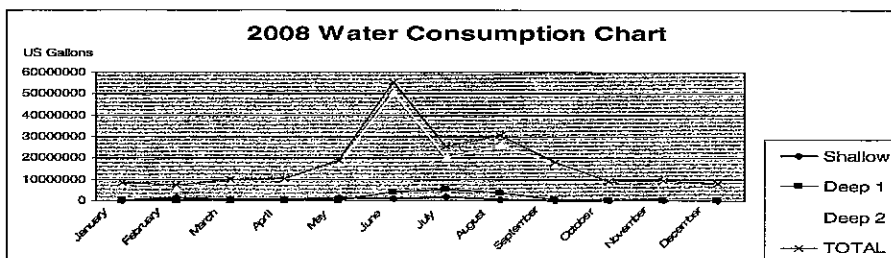
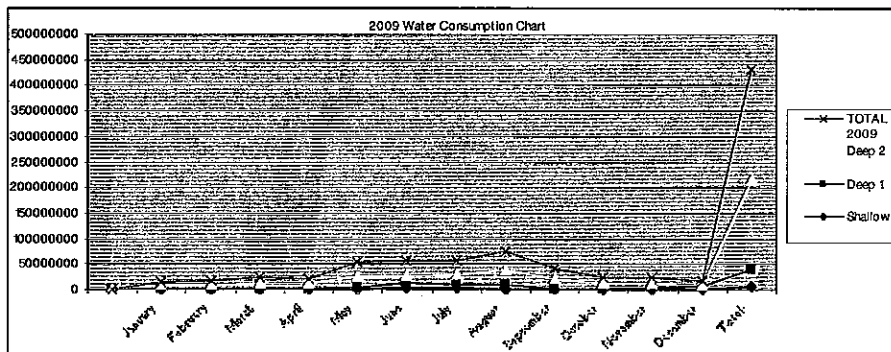
District of Barriere

Water Consumption

Month	2009 Shallow	2008 Shallow	2009 Deep 1	2008 Deep 1	2009 Deep 2	2008 Deep 2	2009 TOTAL	2008 TOTAL
January	0	200180	0	0	8228800	8318100	8228800	8518280
February	0	1339727	0	0	8666900	5989000	8666900	7328727
March	0	564431	0	48699	11711800	9184101	11768800	9797231
April	0	282151	0	76321	10906600	9913779	10906600	10272251
May	119060	1313491	2411855	45267	23970345	17516300	26501260	18875058
June	2830190	959238	9926140	3688137	15192760	50475465	27949090	55122840
July	1581500	1770561	5957280	5051310	21085820	20274657	28624600	25326144
August	1183785	445506	7691042	3506464	28981858	26331336	37856685	30283306
September	20334	0	560773	599737	21115327	17219363	21686434	17819100
October	0	0	0	34	12333800	9187766	12333800	9187800
November	150896	0	1661086	0	10243414	9352900	12055396	9352900
December	142962	0	6165482	0	2030618	8228800	8339062	8228800

Total Consumption for 2009: 214,917,427 US Gallons

Total Consumption for 2008: 192,422,185 US Gallons




District of Barriere

System Upgrades Completed in 2009

- Rehabilitation of Deep Well #2
- Drilling of two observation wells for future production wells
- Began installation of turbidity meter at each well location

Potential System Upgrades

- Development of a new reservoir (500,000 gallons)
 - Installation of water meters
 - SCADA Monitoring System – allows the wells to be monitored remotely
 - Extend 150m line at Seniors Building to Airfield Rd.
(Building Canada Fund Grant)
 - Replace reservoir cover
 - Upgrade Barriere Town Road from High School to Bradford Rd. from 6"
 - Upgrade Barriere Town Rd. Bradford Rd. to Mountain Rd. 6" to 10"
 - Back up generator for deep wells
 - Upgrading Section for Barriere Lakes Rd. from 8" to 14"
(Building Canada Fund Grant)
 - Upgrading section of Spruce Crescent from 6" to 10"
(Building Canada Fund Grant)
- 

2009 Annual Water Report

January 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
January 4	0	0	2075500	2075500
January 11	0	0	2029500	2029500
January 18	0	0	2053900	2053900
January 25	0	0	2069900	2069900

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Jan 6	Eco Tech	0	0	0	0	Health
Jan 13	Eco Tech	0	0	0	0	Fas Gas
Jan 20	Eco Tech	0	0	0	0	Office
Jan 27	Eco Tech	0	0	0	0	Fas Gas

Shallow Well

Operating Normally

Deep Well # 1

When checking on chlorine analyzer, noticed that screen went blank after touching terminal screws. Contacted manufacturer and sent unit off for repairs

Deep Well # 2

Operating Normally

Reservoir

Operating normally

Leak Report

January 9 – 681 Dixon Rd, turned water off, house vacant.



District of Barriere

February 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
Feb. 01	0	0	2,124,200	2,124,200
Feb. 08	0	0	2,171,700	2,171,700
Feb. 15	0	0	2,170,700	2,170,700
Feb. 22	0	0	2,200,300	2,200,300

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Feb.3	Eco Tech	0	0	0	0	Health
Feb. 10	Eco Tech	0	0	0	0	Office
Feb.17	Eco Tech	0	0	0	0	Fas Gas
Feb.24	Eco Tech	0	0	0	0	Health

Shallow Well

Operating Normally. (on standby)

Deep Well # 1

Received analyzer and installed. Will calibrate after Super-chlorinating well.

Deep Well # 2

Installed new membrane for chlorine analyzer and re-calibrated.

Reservoir

Operating normally

Leak Report

Fas- Gas- Feb 12 and repaired on Feb 13.

Misc.

Paul Amos took Confined Space Course and wrote his Distribution #1 exam. We both took our WCB Level 1 First Aid.

2009 Annual Water Report

March 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
March 1	0	0	2,128,100	2,128,100
March 8	0	0	2,296,700	2,296,700
March 15	0	0	2,440,000	2,440,000
March 22	0	0	2,572,100	2,572,100
March 29			2,331,900	2,331,900

Water Quality

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
March 3	Eco Tech	0	0	0	0	Office
March 10	Eco Tech	0	0	0	0	Fas Gas
March 17	Eco Tech	0	0	0	0	Health Center
March 24	Eco Tech	0	0	0	0	Office
March 31	Eco-Tech	0	0	0	0	Fas Gas

Shallow Well

Operating Normally (Standby)

Deep Well # 1

Super chlorinated well and back washed plant and regenerated

Deep Well # 2

Operating Normally, Received New Chlorinator

Reservoir

Operating normally



District of Barriere

April 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
April 05 2009	0	0	2,182,000	2,182,000
April 12 2009	0	0	2,565,500	2,565,500
April 19 2009	0	0	2,599,400	2,599,400
April 26 2009	0	0	3,559,600	3,559,600

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
April 7	Eco Tech	0	0	0	0	Health
April 14	Eco Tech	0	0	0	0	Office
April 21	Eco Tech	0	0	0	0	Fas Gas
April 28	Eco Tech	0	0	0	0	Health

Shallow Well

Operating normally

Deep Well # 1

Operating normally

Deep Well # 2

Operating normally

Reservoir

Operating normally

Leak Report

Main line leak at 603 Barriere Lakes Road. Reported air 12/09.



2009 Annual Water Report

May 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
May 3	0	0	4832700	4832700
May 10	0	0	4459100	4459100
May 17	0	63289	4969811	5033100
May 24	0	88893	5132407	5221300
May 31	119060	2259673	4576327	6955060

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
May 4	Eco Tech	0	0	0	0	Office
May 12	Eco Tech	0	0	0	0	Fas Gas
May 19	Eco Tech	0	0	0	0	Health Center
May 26	Eco Tech	0	0	0	0	Fas Gas

Shallow Well

Operating Normally

Deep Well # 1

Operating Normally

Deep Well # 2

Operating Normally

Reservoir

Operating normally

Leak Report

May 5 – Leak 4323 Mountain Rd – Repaired May 6

May 14 – Leak Bartlett Rd. – Repaired May 18

May 15 – Leak Dunsmuir Rd. – Repaired May 15

May 24 – Leak 4605 Saul Rd. – Repaired May 25

Miscellaneous

Noticed some pressure surging in system



District of Barriere

June 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
June 7	1,106,449	3,481,560	3,906,040	8,494,049
June 14	1,048,841	2,973,460	4,223,140	8,245,441
June 21	473,634	2,864,983	2,290,317	5,628,934
June 28	201,266	606,137	4,773,263	5,580,666

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
June 2	Eco Tech	0	0	0	0	office
June 9	Eco Tech	0	0	0	0	Health
June 16	Eco Tech	0	0	0	0	FasGas
June 23	Eco Tech	0	0	0	0	office

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally.

Deep Well # 2

Noticed occasional pressure surge, talked to Thierry at BC Groundwater. He felt there may be a problem with well. I had already sent him reports on well, but he required sending him the well charts for further analysis.

Reservoir

Operating normally

Misc.

Had an alarm on telemetering line between pump houses. I am receiving quotes on replacement.

2009 Annual Water Report

July 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
July 5	532,254	1,905,390	4,916,710	7,354,354
July 12	23,156	553,730	4,616,170	5,193,056
July 19	576,446	1,345,680	5,730,520	7,660,646
July 26	449,644	2,152,480	5,814,420	8,416,544

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
July 2	Eco Tech	0	0	0	0	Fas Gas
July 7	Eco Tech	0	0	0	0	Office
July 14	Eco Tech	0	0	0	0	Health
July 21	Eco Tech	0	0	0	0	Fas Gas
July 28	Eco Tech	0	0	0	0	Health

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally

Deep Well # 2

Noticed check valve at pump not completely sealing-will have it replaced.

Reservoir

Operating normally

Leak Report

Misc.

Lost well data for deep wells because of chlorine leak shallow well-near desk.

District of Barriere

August 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
Aug 2	621,420	1,851,600	6,314,820	8,787,920
Aug 9	328,978	2,429,857	5,434,043	8,192,878
Aug 16	0	751,958	5,382,842	6,134,800
Aug 23	102,062	1,457,054	5,768,346	7,329,462
Aug 30	129,325	1,200,493	6,081,807	7,411,625

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Aug 4	Eco Tech	0	0	0	0	Office
Aug 11	Eco Tech	0	0	0	0	Clinic
Aug 19	Eco Tech	0	0	0	0	Fas Gas
Aug 25	Eco Tech	0	0	0	0	Office

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally.

Deep Well # 2

Operating Normally.

Reservoir

Operating Normally.

Leak Report

Aug. 6 – Wagon Wheel Trailer Park – Repaired

Aug 11 – Wagon Wheel Trailer Park - Repaired

Misc.



2009 Annual Water Report

September 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
September 6	20334	400358	6380842	6001534
September 13	0	40271	5179529	5219800
September 20	0	76026	5014874	5090900
September 27	0	34118	4540082	4574200

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Sept 1	Eco Tech	0	0	0	0	Health Cl.
Sept 8	Eco Tech	0	0	0	0	Fas Gas
Sept 15	Eco Tech	0	0	0	0	Office
Sept 22	Eco Tech	0	0	0	0	Health Cl.
Sept 29	Eco Tech	0	0	0	0	Fas Gas

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally

Deep Well # 2

Operating Normally

Reservoir

Operating normally

Leak Report

Sept 21 – Leak Woodco – Repaired Sept 22

Sept 23 – Water main break on Bradford Road



District of Barriere

October 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
Oct. 4	0	0	3,702,500	3,702,500
Oct. 11	0	0	3,103,400	3,103,400
Oct. 18	0	0	2,856,300	2,856,300
Oct 25	0	0	2,671,600	2,671,600

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Oct 6	Eco Tech	0	0	0	0	Office
Oct. 13	Eco Tech	0	0	0	0	Health Center
Oct 20	Eco Tech	0	0	0	1	Fas Gas
Oct 27	Eco Tech	0	0	0	0	Office

Shallow Well:
Operating Normally.

Deep Well # 1:
Operating Normally

Deep Well # 2:
Operating Normally

Reservoir:
Operating normally

Leak Report:
Wagon Wheel Trailer Park; October 5 -Repair
October 23-Leak repaired



2009 Annual Water Report

November 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
Nov. 1	0	0	2,606,600	2,606,600
Nov. 8	0	0	2,657,700	2,657,700
Nov. 15	0	0	2,669,700	2,669,700
Nov. 22	0	0	2,191,800	2,191,800
Nov. 29	150,896	1,661,086	117,614	1,929,596

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Nov. 3	Eco Tech	0	0	0	0	Health Center
Nov 12	Eco Tech	0	0	0	0	Mountain Springs
Nov.17	Eco Tech	0	0	0	0	Office
Nov 24	Eco Tech	0	0	0	0	Health Center

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally

Deep Well # 2

Started rehabilitation of well.

Reservoir

Operating normally

Leak Report

Nov 9-Wagon Wheel Trailer Park-repaired

Nov. 13 Lodgepole Road-repaired Nov. 18



District of Barriere

December 2009 Consumption

Week Ending	Shallow	Deep Well # 1	Deep Well # 2	Total
Dec 6	29,202	1,915,095	77,405	2,021,702
Dec13	30,900	2,085,300	0	2,125,200
Dec 20	74,860	1,888,000	0	1,962,860
Dec 27	0	277,087	1,953,213	2,230,300

Water Sample

Date	Lab	Total Coliform	Fecal Coliform	E-Coli Coliform	Back Coliform	Location
Dec 1	Eco Tech	0	0	0	0	Mountain Springs
Dec 8	Eco Tech	0	0	0	0	District Office
Dec 15 a)	Eco Tech	0	0	0	0	Health Center
b)	Eco Tech	0	0	0	0	Mountain Springs
c)	Eco Tech	0	0	0	0	District Office

Shallow Well

Operating Normally.

Deep Well # 1

Operating Normally

Deep Well # 2

Finished re-hab on well & installed new chlorinator and clean chlorine analyzer

Reservoir

Operating normally

Leak Report

Dec 8- 442 McLean Road –Turn water off after fire.

Dec 12- Leak on Dunn Lake Road. Repaired Dec 15



DISTRICT OF BARRIERE

REPORT TO: Public Works Committee FOR: Regular Meeting
PRESENTED: June 14, 2010 FILE:
FROM: Nora Johnson, Finance Department
SUBJECT: Street Lighting

Purpose: To improve street lighting on Barriere Town Road and Airfield Road.

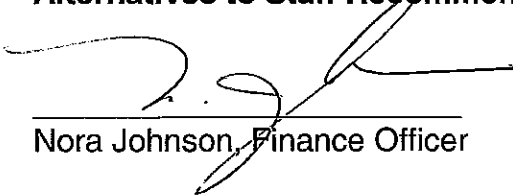
Background: A number of observations and requests regarding improved street lighting in the community have been made. District staff has been asked to identify the poles that do not currently have a street light on them. BC Hydro requires all requests for increased street lighting be processed through their automated SLIM program. We would be required to identify the poles that we wish to have lights placed on, and then process this request into the SLIM System. BC Hydro planning department would take our request and then contact us with all the details (i.e. cost). Kamloops BC Hydro staff indicated that the planning department would probably look at our request within a month or so.

Department Comments: Nil


RECOMMENDATION:

THAT the Public Works Committee determine which poles additional street lights would be placed on, and request staff to complete the request through the SLIM System.

Alternatives to Staff Recommendation:



Nora Johnson, Finance Officer



Wayne Vollrath, CAO

Attachments: Street Lighting

SOUTH



STAMER
YARD.

- 2007 5110 5057
- 238 300 - LIGHT
- 2007 5110 05057
- 238 306 - NO LIGHT
- NO # - NO LIGHT
- 2007 5110 05057
- 232 328 - NO LIGHT
- 2007 5110 5057
- 237 344 - NO LIGHT
- 239 1508 - NO LIGHT

CARL STROM

No LIGHT - 2007 5110 05033 •
233 366

- 245 2795 - LIGHT
- 2007 5110 5053
- 238 382 - NO LIGHT

• NO # - LIGHT

SCHOOL

AIRFIELD

- 2007 5110 5053
- 235 420 - NO LIGHT
- 2007 5110
- 239 428 - NO LIGHT

- 2007 5110 5053
- 239 436 - NO LIGHT

FIELDHOUSE

No LIGHT 4700 •
BOX?

• NO # - NO LIGHT

LIGHT - 2373591 •

No LIGHT - 2007 5110 05053 •
234 526

CEMETARY

LIGHT - CAN'T
READ # •

BARTLETT

No LIGHT - 2374297 •
GRAY PLACE

• 2443225 - NO LIGHT

• 2404442 - LIGHT

BARKLEY

LIGHT - 2229550

BRIDGE

- 2465139 - LIGHT
- 200751115051
- 16514375 - LIGHT

BRADFORD RD

- 2007511105051
- 14812081 - LIGHT
- 070156741112301974
- 2067643 - LIGHT

REGION

• NO # NO LIGHT (SHAYER)

- 2007511105059
- 12305863 - LIGHT
- 2007511105053
- 12303881 - No LIGHT

HAIGE

- 2377132 - LIGHT

SALLE

A
D
O
V

- 2007511005053
- 12560580 - LIGHT
- 2007511005053
- 12759584 - No LIGHT
- 2007511005053
- 13058465 - LIGHT

IRLY

BARRIER TOWN

DIXON CREEK RD

- 2007511005053
- 13356284 - No LIGHT
- 2007511005053
- 13054481 - LIGHT

COUNTRY FEEDS

- 2374185 - LIGHT
- 07511005053
- 14749379 - No LIGHT
- 07511005053
- 15047981 - LIGHT

AG FOODS

- 2129992 - No LIGHT
- 07511006053
- 15446074 - LIGHT

- 2007511005053
- 1574417 - LIGHT
- 2007511005053
- 16142881 - LIGHT

COMP

- 2203657 - No LIGHT
- 2007511005053
- 16640481 - LIGHT

CHURCH

SENIORS

- 2007511005053
- 16838981 - No LIGHT
- 2007511005057
- 17136674 - No LIGHT
- 2007511005057
- 17255472 - LIGHT

RIVARIDGE

- 200757100507
- 17928981 - No LIGHT

- 2456024 - No LIGHT

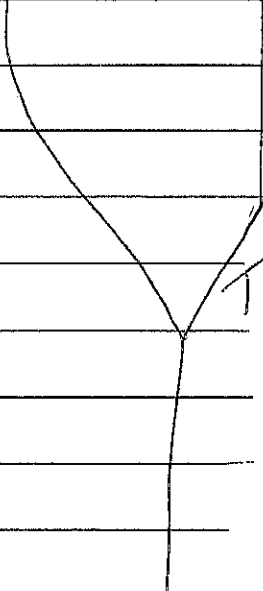
- 2007511005057
- 18226175 - LIGHT

- 200751100507
- 18424181 - No LIGHT

PETRO CAN

- 2007511005057
- 18821081 - LIGHT

TRIANGLE



District of Barriere
REPORT TO COUNCIL

Date: June 7, 2010	File: 530.20/Rpts
To: Mayor and Council	From: Wayne Vollrath, CAO
Re: Withholding Building Permits – Amendments to Zoning Bylaw	

Background:

At the April 26, 2010 Regular Council meeting Mr. Love asked that Council consider prohibiting mobile homes or modular homes from being developed on lots 1-17 Plan 32522 being Oriole Way.

The TNRD Planning Staff were requested to develop options for Council to consider.

Discussion:

A report which is attached was received from Mr. Wallace on June 1, 2010. Five options were provided for Council to consider.


Mr. Wallace also advised that the Building Permit for lot 12 Plan 32522 (527 Oriole Way) for a double wide manufactured home was issued on May 18, 2010.

After checking with the District's solicitor, at this time there is no action that Council can take to stop this.

Council needs to consider whether or not they want to make amendments that will deal with the remaining three lots on Oriole Way.

Recommendation:

1. That the information be received.
2. That Mr. Love be advised that the placement of a double wide manufactured home at 527 Oriole Way will proceed.
3. That the TNRD Planning report be forwarded to the Public Works Committee for consideration.



Wayne Vollrath, CAO

Memo To File

To: Wayne Vollrath, CAO
District of Barriere

From: Dan Wallace, Planner
TNRD Planning Services

Date: June 1, 2010

Subject: Zoning / Development Options – Lots 1-17, Plan 32522 – Oriole Way

A petition, dated April 16, 2010, was presented to the April 26, 2010 District of Barriere Council meeting by Mr. Alex Love. The petition, signed by the owners of Lots 1-17, Plan 32522, requested that Council amend the zoning bylaw to disallow all manufactured and modular homes on Lots 1-17 on Oriole Way. The request stems from a property owner seeking a building permit to locate a manufactured home on one of the parcels.

The property is currently zoned R-1 (Residential Single and Two Family) and designated Urban Residential in the District of Barriere OCP. The Urban Residential designation provides guidance with respect to housing diversity and affordable housing choices which presumably includes manufactured homes in applicable zones.

A Building Scheme is registered against Lots 1-17. Although we don't enforce Building Schemes, I could not find any reference in the Scheme that prevents an owner from locating a manufactured home. In a telephone conversation with Mr. Love, he disagreed, suggesting that the Scheme was interpreted in some way to eliminate manufactured home use.

Building Permit No. 11863 was issued to Leah and Ken Brown for a double-wide manufactured home on Lot 12, Plan 32522 (527 Oriole Way) in accordance with the R-1 zone. At the present time, we have no reason to disallow manufactured home use outside of legal action to prevent permit issuance or other unknown circumstances that would preclude approval of a manufactured home in the R-1 zone.

On April 27, 2010, staff requested that Planning Services provide some options with respect to the property owner's desire to disallow manufactured homes on Lots 1-17.

Some options for the District to consider:

1. That the petitioner and other affected property owners submit a development application for a new single family residential zone (R-4) that would prevent manufactured or modular homes on the subject properties.
2. That a site-specific amendment be considered to the R-1 zone to restrict the use of manufactured or modular homes on Lots 1-17, Plan 32522.
3. That the petitioner and other affected property owners develop and register a voluntary restrictive covenant to disallow manufactured or modular homes.
4. That Mr. Love (the petitioner) work with all other affected property owners to investigate the feasibility and pay for all costs associated with any amendment of the Building Scheme on the subject properties to disallow manufactured or modular homes if possible.
5. That a bylaw amendment be considered, as requested by the petitioner, to eliminate the manufactured home use in the R-1 zone and/or other single family residential zones within the municipality.